Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: METALUX

Report Number: P1444567

Luminaire Tested: EHBR1-60-UNV-TA-L835-UPL36

Issue Date: 5/1/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1444567
	REPORT IS A COMBINATION OF REPORTS P1444353 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	5/1/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-60-UNV-TA-L835-UPL36
Description:	Elevate Round Highbay at, 60000 lumens, 3500K 80CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	61051.2 lumens
Efficiency:	N/A
Efficacy:	170.2 lumens/watt
Spacing Criteria (0/90/45):	1.13 / 0.77 / 0.88
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	358.8
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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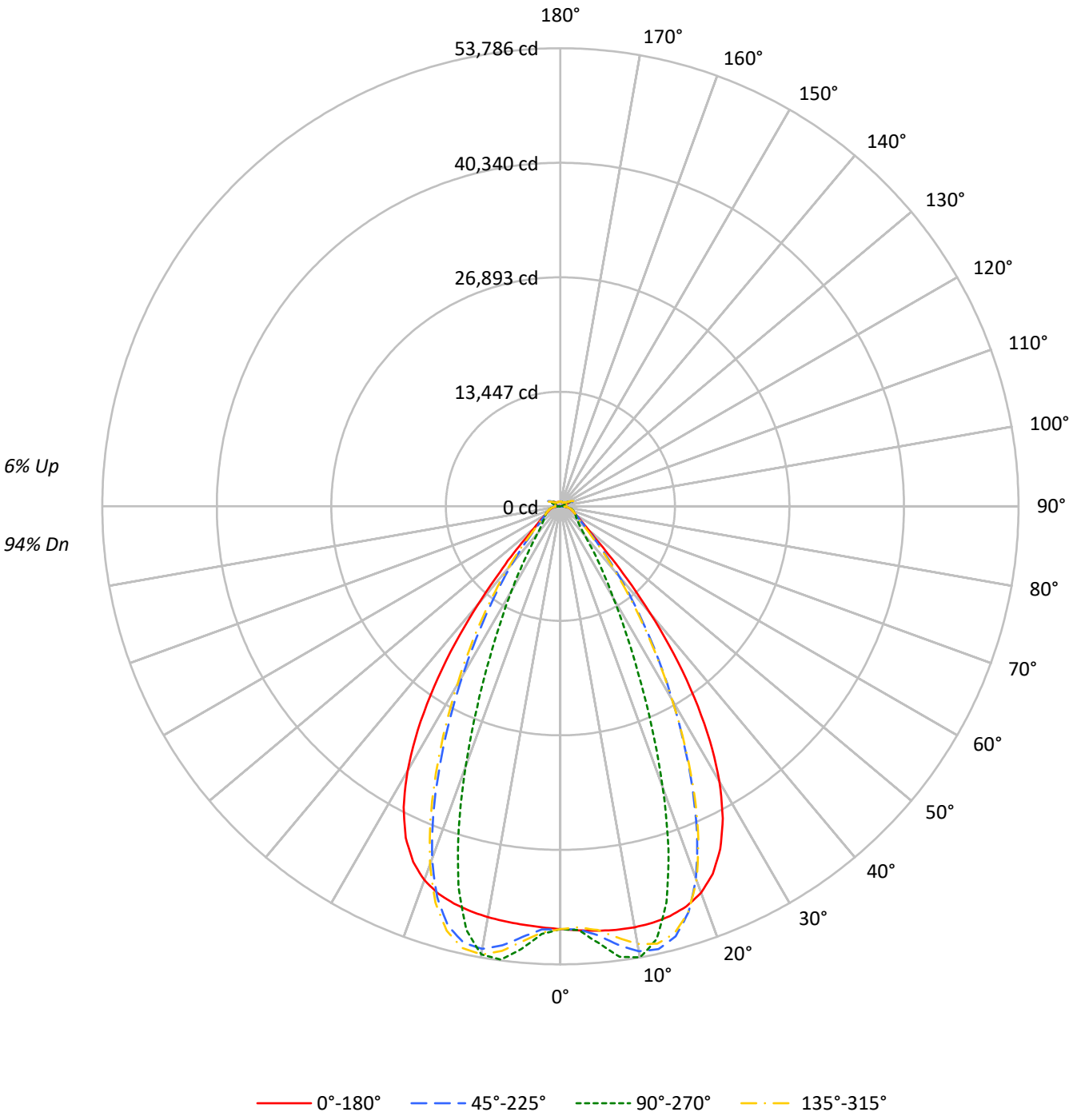
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	110	107	104	101	107	104	101	99	99	97	95	94	92	91	89	88	87	85
2	104	98	93	89	101	95	91	87	91	87	84	87	84	81	83	81	79	77
3	97	90	84	79	95	88	82	78	84	80	76	81	77	74	78	75	72	70
4	91	83	76	71	89	81	75	70	78	73	69	75	71	67	72	69	66	64
5	86	77	70	65	84	75	69	64	73	67	63	70	66	62	68	64	61	59
6	81	71	64	59	79	70	64	59	68	62	58	66	61	57	64	60	56	55
7	77	66	60	55	75	65	59	54	63	58	54	62	57	53	60	56	52	51
8	73	62	55	51	71	61	55	51	59	54	50	58	53	49	56	52	49	47
9	69	58	52	47	67	57	51	47	56	50	47	55	50	46	53	49	46	44
10	65	55	48	44	64	54	48	44	53	47	44	52	47	43	50	46	43	41

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	233155	233155	233155	233155
5°	234284	241115	231005	244274
10°	236240	253153	230574	251478
15°	237398	229481	230171	220241
20°	234944	170955	227255	158174
25°	222385	108120	215034	98100
30°	194269	64972	186745	59378
35°	149510	40770	140910	36115
40°	94579	25574	86532	24032
45°	48748	19924	47940	19596
50°	28581	17721	27704	17445
55°	21896	16766	21086	16615
60°	18527	17127	17738	16905
65°	17401	17886	16735	17276
70°	17002	18728	16154	18024
75°	18178	19863	17195	18984
80°	18811	21993	17055	20077
85°	17713	21219	14315	18170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
Vertical Angle: 45°
Luminance: 74602 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4893.0	8.0
10°-20°	13764.5	22.5
20°-30°	15676.7	25.7
30°-40°	11267.7	18.5
40°-50°	5196.6	8.5
50°-60°	2486.8	4.1
60°-70°	1814.5	3.0
70°-80°	1378.5	2.3
80°-90°	633.3	1.0
90°-100°	114.3	0.2
100°-110°	637.0	1.0
110°-120°	1176.4	1.9
120°-130°	724.9	1.2
130°-140°	472.8	0.8
140°-150°	356.1	0.6
150°-160°	251.6	0.4
160°-170°	153.5	0.3
170°-180°	52.9	0.1
0°-30°	34334.2	56.2
0°-40°	45601.9	74.7
0°-60°	53285.3	87.3
0°-90°	57111.6	93.5
90°-120°	1927.7	3.2
90°-150°	3481.5	5.7
90°-180°	3940.0	6.5
0°-180°	61051.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	49649	49649	49649	49649	49649	
5°	50023	51482	49323	52156	50023	4780
15°	49805	48144	48289	46205	49805	14033
25°	44410	21591	42942	19590	44410	20132
35°	27440	7483	25862	6628	27440	16841
45°	7887	3224	7756	3171	7887	6708
55°	2959	2266	2850	2245	2959	2731
65°	1816	1867	1747	1803	1816	1814
75°	1280	1399	1211	1337	1280	1332
85°	609	729	492	624	609	572
90°	164	208	46	57	164	102
95°	52	58	52	58	52	50
105°	231	297	156	297	231	306
115°	1028	1242	1077	1243	1028	950
125°	781	811	883	813	781	711
135°	624	547	671	552	624	487
145°	564	540	599	548	564	356
155°	533	531	566	537	533	248
165°	536	533	555	538	536	152
175°	552	556	561	558	552	53
180°	559	559	559	559	559	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	49838.4	49834.4	49833.6	49830.1	49829.2	49829.2	49827.5	49823.5	49820.9	49815.2	49808.8
5°	50023.3	50021.2	50022.4	50022.8	50019.3	50011.6	49999.4	49984.5	49965.8	49948.0	49932.2
7.5°	50166.3	50169.8	50174.3	50173.3	50162.4	50144.2	50119.4	50105.4	50113.7	50140.7	50202.6
10°	*50192.4*	*50213.8*	*50222.1*	*50219.4*	*50197.8*	*50182.1*	*50188.2*	*50240.9*	*50345.5*	*50485.2*	*50676.2*
12.5°	50090.7	50116.9	50115.9	50107.3	50086.3	50107.6	50183.8	50340.4	50564.8	50840.3	51163.5
15°	49804.9	49838.8	49829.2	49818.0	49804.0	49874.1	50026.3	50298.3	50644.9	51033.3	51431.0
17.5°	49250.1	49291.0	49271.2	49258.5	49246.6	49378.0	49639.5	50037.7	50474.4	50913.7	51290.6
20°	48287.8	48315.2	48268.0	48245.7	48264.4	48521.8	48907.0	49415.5	49875.8	50291.3	50548.8
22.5°	46717.4	46751.4	46662.5	46652.2	46761.9	47157.3	47644.5	48213.1	48645.6	48974.8	49074.0
25°	44410.0	44443.4	44337.8	44400.9	44587.5	45126.0	45706.4	46314.6	46683.4	46927.5	46860.1
27.5°	41295.4	41326.0	41225.9	41354.7	41649.7	42357.4	43040.4	43700.0	44028.8	44199.8	43983.2
30°	37367.5	37431.0	37312.7	37492.5	37942.7	38861.5	39644.0	40383.7	40711.6	40841.8	40504.6
32.5°	32702.3	32792.7	32662.1	32929.8	33557.9	34661.6	35550.5	36377.0	36739.7	36888.2	36507.5
35°	27440.5	27570.1	27420.5	27822.0	28596.8	29825.8	30810.2	31733.0	32162.4	32372.9	31989.3
37.5°	21865.9	21989.4	21908.5	22444.1	23294.9	24568.8	25573.6	26569.0	27054.2	27370.1	27067.5
40°	16392.9	16505.9	16567.1	17179.7	17980.0	19180.5	20145.7	21130.6	21673.2	22069.8	21883.3
42.5°	11570.2	11684.1	11892.4	12483.4	13150.8	14144.5	14971.3	15855.6	16374.0	16797.0	16725.1
45°	7887.2	8019.4	8280.4	8764.3	9247.0	9959.9	10567.0	11254.8	11678.2	12065.7	12070.3
47.5°	5526.9	5619.8	5853.0	6183.5	6498.1	7390.7	7427.3	7765.3	8050.0	8339.6	8377.1
50°	4259.5	4315.5	4439.1	4623.2	4801.6	5033.2	5245.5	5490.3	5665.5	5824.3	5862.2
52.5°	3501.0	3536.6	3599.5	3699.2	3802.7	3928.7	4042.2	4176.7	4272.0	4357.0	4374.9
55°	2959.0	2988.4	3082.0	3101.0	3219.3	3242.1	3292.5	3374.5	3429.8	3480.8	3493.5
57.5°	2549.9	2571.2	2591.1	2633.7	2670.0	2723.1	2765.7	2824.5	2859.4	2896.3	2899.4
60°	2227.2	2242.6	2256.8	2286.3	2311.1	2347.9	2377.3	2417.3	2442.3	2469.9	2473.0
62.5°	1987.0	1998.1	2007.5	2027.0	2044.6	2073.0	2096.3	2129.7	2153.0	2174.4	2179.1
65°	1816.3	1824.4	1830.4	1845.2	1860.6	1884.7	1905.9	1933.1	1950.3	1966.7	1970.2
67.5°	1665.0	1672.8	1679.0	1692.5	1703.1	1721.2	1735.3	1755.8	1768.7	1781.7	1782.1
70°	1491.8	1498.9	1503.7	1516.2	1524.8	1540.3	1551.7	1570.1	1583.4	1597.9	1601.6
72.5°	1371.7	1376.0	1382.4	1393.8	1405.8	1422.3	1437.7	1456.8	1472.8	1487.9	1494.3
75°	1280.5	1285.4	1289.7	1299.4	1307.7	1321.7	1333.1	1350.6	1364.5	1380.7	1388.7
77.5°	1148.7	1154.4	1158.1	1167.9	1175.1	1188.5	1196.9	1212.6	1224.0	1238.7	1245.9
80°	989.6	994.9	997.4	1006.7	1012.4	1024.7	1033.0	1048.1	1057.7	1072.4	1081.0
82.5°	813.1	818.3	819.7	828.3	831.5	841.6	847.7	863.2	875.0	894.1	907.4
85°	608.8	610.7	613.7	611.4	623.8	624.5	638.5	641.1	659.4	664.3	685.2
87.5°	372.2	377.8	380.5	389.0	392.7	401.1	403.7	412.8	417.7	428.0	432.7
90°	163.6	172.5	175.8	186.3	189.3	198.6	201.0	211.6	214.8	225.5	230.3
92.5°	46.0	48.9	51.5	55.0	57.8	61.9	65.2	68.5	71.5	75.2	81.2
95°	52.1	55.4	58.7	62.0	65.3	68.6	71.9	75.2	78.5	81.8	91.3
97.5°	65.2	68.1	70.9	73.8	76.6	79.5	82.3	85.2	88.0	90.8	102.2
100°	84.3	86.7	89.1	91.5	94.0	96.4	98.8	101.2	103.7	106.1	127.2
102.5°	137.9	146.5	155.0	163.7	172.2	180.6	189.4	197.8	206.3	215.0	260.0
105°	231.4	254.6	278.2	301.4	324.7	348.1	371.5	394.4	417.8	441.0	514.6
107.5°	393.1	436.0	479.3	522.4	565.7	608.6	651.9	694.8	737.9	780.6	855.3
110°	722.4	756.8	791.6	826.2	860.8	895.7	930.4	964.6	999.4	1033.9	1088.4

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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	973.1	988.6	1004.2	1019.9	1035.6	1051.0	1066.6	1082.1	1097.7	1113.0	1152.0
115°	1028.2	1033.5	1039.0	1044.3	1049.8	1055.0	1060.4	1065.5	1070.9	1075.9	1102.2
117.5°	1001.0	999.9	998.8	997.8	996.4	995.2	994.0	992.6	991.2	989.8	1004.4
120°	937.0	932.0	927.2	921.8	916.9	911.5	906.5	901.3	895.8	890.4	896.6
122.5°	855.7	849.7	844.0	837.7	831.5	825.2	819.1	812.4	806.4	800.0	802.1
125°	781.0	774.7	769.2	762.7	756.4	749.9	743.6	737.0	730.6	723.8	724.8
127.5°	716.7	712.5	708.2	703.4	698.7	694.0	689.0	684.1	679.4	674.1	674.1
130°	676.5	672.6	668.7	664.3	660.1	655.6	651.0	646.3	641.9	636.9	637.0
132.5°	644.4	641.8	638.8	635.6	632.3	628.5	625.1	621.2	617.6	614.1	614.2
135°	624.2	621.4	618.9	615.8	612.7	609.2	605.7	602.0	598.6	595.0	595.3
137.5°	607.5	605.0	602.5	599.5	596.7	593.2	590.2	586.6	583.4	579.8	580.1
140°	592.3	590.1	587.7	584.9	582.3	579.3	576.1	572.9	569.8	566.5	567.2
142.5°	574.7	572.7	570.9	568.6	566.4	563.5	561.0	558.1	555.6	552.7	553.8
145°	563.8	562.2	560.6	558.7	556.5	554.0	551.9	549.2	547.1	544.5	545.8
147.5°	554.3	553.0	551.8	550.1	548.5	546.3	544.3	542.0	540.2	538.0	539.4
150°	546.2	544.9	543.9	542.3	540.6	538.6	536.8	534.8	532.9	530.8	532.1
152.5°	537.1	535.7	534.7	533.2	531.6	529.5	528.2	526.1	524.5	522.4	523.6
155°	532.8	531.4	530.1	528.7	527.2	525.4	523.8	522.0	520.5	518.6	519.4
157.5°	531.2	529.8	528.9	527.4	526.4	525.0	523.6	522.0	520.8	519.4	519.9
160°	532.0	530.9	529.8	528.4	527.1	525.6	524.5	522.9	522.0	520.5	521.0
162.5°	533.3	532.0	530.8	529.5	528.3	526.8	525.6	524.6	523.3	521.8	522.5
165°	536.1	535.4	534.5	533.6	532.6	531.7	530.8	529.7	528.7	527.7	528.0
167.5°	542.9	541.8	541.0	539.9	538.7	537.8	536.6	535.5	534.6	533.4	533.7
170°	546.4	545.5	544.9	544.3	543.7	542.9	542.4	541.6	540.9	540.2	540.5
172.5°	550.5	549.8	549.4	549.0	548.2	547.9	547.4	546.8	546.4	545.7	546.4
175°	551.6	551.1	550.9	550.6	550.2	549.8	549.6	549.3	549.3	548.7	549.0
177.5°	555.6	555.4	555.4	555.2	555.2	555.1	554.9	554.5	554.3	554.3	554.6
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	49804.0	49798.0	49789.6	49779.1	49770.1	49759.7	49734.8	49727.5	49735.7	49741.2	49752.7
5°	49922.4	49925.8	49927.1	49949.7	49969.3	50018.0	50400.0	50551.8	50669.2	50743.7	50856.9
7.5°	50279.1	50393.9	50507.4	50660.1	50791.9	50969.8	51638.2	51922.6	52124.8	52270.2	52449.1
10°	*50883.7*	*51134.4*	*51369.3*	*51644.6*	*51881.2*	*52152.3*	*52774.4*	*53051.5*	*53226.5*	*53353.8*	*53472.7*
12.5°	51492.8	51840.4	52154.5	52460.8	52717.0	52951.9	53170.8	53267.7	53276.0	53280.1	53216.9
15°	51810.0	52142.3	52419.0	52621.7	52772.2	52838.8	52462.1	52264.5	52014.8	51809.1	51470.7
17.5°	51609.8	51809.1	51928.7	51917.0	51854.7	51646.4	50579.6	49992.7	49410.2	48885.2	48196.9
20°	50719.8	50704.5	50600.6	50305.9	49951.1	49399.0	47570.1	46514.7	45494.5	44598.4	43511.2
22.5°	49063.9	48803.4	48440.2	47805.0	47099.3	46134.9	43513.8	41961.6	40541.3	39286.5	37880.9
25°	46664.7	46128.7	45458.7	44450.4	43353.8	41947.2	38716.6	36785.9	35080.6	33601.5	31979.7
27.5°	43594.2	42786.8	41805.0	40409.3	38923.7	37121.7	33540.0	31409.3	29578.7	27992.9	26266.7
30°	39959.0	38908.9	37641.1	35908.9	34117.0	32073.2	28440.6	26282.4	24429.5	22798.1	21070.6
32.5°	35850.9	34621.1	33135.4	31191.2	29253.3	27152.0	23643.8	21554.8	19784.7	18215.3	16651.8
35°	31320.1	30001.1	28429.4	26446.4	24520.0	22477.1	19258.0	17374.4	15811.3	14424.1	13161.6
37.5°	26459.8	25164.7	23670.9	21801.9	20015.6	18164.3	15386.8	13808.4	12496.7	11345.3	10370.5
40°	21406.5	20273.2	18980.6	17364.8	15840.4	14298.6	12018.6	10765.7	9730.5	8852.4	8121.9
42.5°	16415.0	15536.7	14545.6	13268.7	12102.1	10928.2	9173.4	8245.1	7478.3	6846.2	6329.8
45°	11909.7	11322.2	10657.3	9769.7	8962.5	8143.6	6894.7	6242.3	5743.0	5335.3	4990.7
47.5°	8325.5	7984.6	7963.9	7143.6	6551.6	6051.0	5246.3	4834.3	4528.3	4281.4	4063.2
50°	5846.7	5681.9	5477.1	5184.3	4909.6	4626.6	4136.4	3887.3	3708.0	3558.4	3420.4
52.5°	4370.9	4285.2	4176.2	4020.8	3872.0	3712.9	3402.6	3244.0	3187.7	3048.4	2939.1
55°	3491.1	3442.0	3380.0	3288.7	3198.2	3161.9	2896.1	2778.3	2703.8	2648.7	2590.0
57.5°	2899.9	2863.3	2826.4	2764.7	2712.2	2648.7	2507.6	2447.2	2402.9	2370.5	2329.9
60°	2473.6	2451.7	2431.0	2394.8	2366.5	2332.2	2242.6	2208.6	2185.4	2165.9	2140.0
62.5°	2183.2	2171.9	2161.3	2142.0	2127.6	2109.0	2047.7	2031.5	2019.8	2010.0	1994.2
65°	1973.7	1965.5	1959.6	1946.8	1939.6	1928.8	1876.1	1865.1	1857.9	1854.4	1845.2
67.5°	1783.2	1774.7	1770.8	1761.7	1758.7	1751.9	1708.9	1702.8	1700.4	1701.5	1698.2
70°	1605.1	1601.6	1603.4	1601.9	1606.0	1607.2	1581.2	1581.0	1583.7	1589.2	1589.8
72.5°	1498.4	1498.4	1500.4	1501.3	1505.1	1507.0	1485.3	1484.2	1485.5	1489.5	1489.7
75°	1396.7	1398.4	1403.9	1405.8	1410.4	1411.3	1382.6	1379.3	1379.5	1383.4	1382.1
77.5°	1256.2	1262.3	1272.7	1278.3	1287.1	1288.7	1256.5	1252.7	1252.8	1256.7	1253.4
80°	1096.6	1108.3	1125.0	1136.6	1150.2	1155.7	1122.6	1114.7	1107.3	1106.2	1099.6
82.5°	927.2	941.4	961.4	971.9	986.5	989.8	934.3	923.9	917.6	918.1	912.1
85°	707.8	718.5	736.7	742.6	751.6	750.9	687.7	660.6	667.8	656.5	665.4
87.5°	444.0	450.3	461.6	463.1	467.4	466.5	402.8	390.3	386.6	386.8	382.2
90°	242.0	247.7	259.1	260.7	268.9	269.4	219.3	214.9	209.1	210.3	202.6
92.5°	87.7	93.4	99.7	105.6	111.8	117.9	118.1	122.4	116.7	110.2	104.7
95°	101.0	110.7	120.4	130.1	139.8	149.5	159.2	168.9	159.9	150.7	141.6
97.5°	113.6	125.1	136.3	147.9	159.3	170.8	182.2	193.6	183.9	173.9	164.2
100°	148.6	170.0	191.2	212.5	233.8	255.1	276.5	297.9	279.2	260.1	241.2
102.5°	305.1	350.6	395.8	441.0	486.3	531.7	577.2	622.6	579.5	536.2	493.0
105°	588.0	661.4	734.8	807.9	881.3	954.7	1028.7	1102.1	1033.1	964.2	895.3
107.5°	929.8	1004.2	1078.4	1152.7	1227.2	1301.6	1376.9	1451.3	1384.0	1316.5	1249.3
110°	1142.6	1196.7	1251.0	1305.1	1359.2	1413.5	1468.9	1523.2	1482.6	1442.1	1401.6

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1190.4	1229.3	1268.0	1306.5	1344.9	1383.6	1423.9	1463.0	1442.4	1421.7	1401.4
115°	1128.0	1154.2	1179.9	1205.9	1231.8	1257.6	1285.5	1312.0	1305.2	1298.2	1291.6
117.5°	1018.8	1033.0	1047.5	1061.7	1075.9	1090.1	1107.2	1121.9	1122.4	1123.3	1124.2
120°	902.4	908.2	914.1	920.0	925.5	931.2	940.1	946.5	951.7	956.4	961.6
122.5°	804.0	805.9	807.8	809.7	811.6	813.3	818.7	821.6	824.8	828.0	831.4
125°	725.5	726.1	726.8	727.6	727.9	728.6	733.5	734.8	734.6	734.3	734.0
127.5°	673.7	673.5	673.2	673.0	672.3	672.0	676.2	676.7	673.9	671.2	668.2
130°	637.1	637.2	637.1	637.0	637.1	637.2	641.9	643.1	638.5	633.5	629.1
132.5°	614.3	614.5	614.4	615.0	615.1	615.2	620.5	621.8	616.8	611.2	605.9
135°	595.5	596.0	596.4	596.7	597.1	597.8	603.6	605.2	600.4	595.0	590.0
137.5°	580.3	580.7	581.1	581.8	582.2	582.6	589.2	591.0	587.1	582.5	578.7
140°	567.7	568.3	569.0	569.8	570.4	571.6	578.5	580.7	577.7	574.1	570.7
142.5°	554.6	556.1	557.2	558.7	559.9	561.5	569.7	572.5	569.9	567.2	564.8
145°	547.0	548.8	550.1	551.9	553.5	555.4	564.5	568.0	566.4	564.4	562.7
147.5°	540.2	541.7	543.1	544.6	546.1	548.3	557.9	561.2	560.3	559.0	557.8
150°	533.3	534.9	536.2	537.9	539.8	541.8	552.7	556.6	555.7	554.7	553.6
152.5°	524.8	526.0	527.4	528.9	530.4	532.2	545.3	549.6	548.9	547.6	547.0
155°	520.3	521.2	522.0	523.3	524.4	526.0	540.2	544.3	543.8	543.2	542.5
157.5°	520.3	520.8	521.3	521.9	522.7	523.6	538.4	542.9	542.1	541.6	541.0
160°	521.1	521.6	521.8	522.3	522.6	523.3	538.5	542.7	542.3	541.5	541.0
162.5°	522.9	524.0	524.4	525.0	525.5	526.6	541.9	546.6	545.7	544.9	544.1
165°	528.2	528.3	528.5	529.1	529.3	529.8	544.2	548.0	547.6	547.0	546.4
167.5°	534.0	534.5	534.6	535.2	535.6	536.3	549.8	553.5	553.1	552.4	552.0
170°	540.7	541.1	541.2	541.8	542.4	543.1	554.2	557.3	556.9	556.0	555.3
172.5°	546.7	547.4	547.8	548.5	549.0	549.7	559.2	562.1	561.7	561.1	560.3
175°	549.5	549.8	550.3	550.9	551.4	551.8	559.3	561.4	561.2	560.9	560.5
177.5°	555.0	555.3	555.7	556.2	556.6	557.0	561.5	562.9	562.7	562.7	562.6
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	49755.3	49772.7	49775.3	49795.7	49794.1	49818.3	49814.5	49834.4	49822.8	49839.2	49825.4
5°	50923.9	51029.9	51085.2	51188.7	51221.4	51314.0	51340.0	51424.5	51428.0	51495.0	51479.8
7.5°	52576.0	52732.2	52825.0	52952.9	53017.7	53124.1	53171.1	53249.9	53275.2	53337.8	53342.6
10°	53562.7	53638.4	53691.5	53727.1	53759.7	53775.0	53792.9	53788.0	53792.9	53785.8	53801.1
12.5°	53174.6	53063.8	52990.6	52851.9	52771.5	52618.2	52542.9	52395.6	52341.9	52215.4	52197.2
15°	51209.2	50823.2	50550.5	50153.8	49904.5	49514.2	49285.9	48933.8	48773.1	48493.1	48419.7
17.5°	47627.1	46910.5	46356.0	45644.6	45150.9	44486.1	44068.1	43517.7	43216.3	42772.5	42618.8
20°	42605.0	41544.8	40712.9	39722.0	39012.9	38129.3	37563.7	36850.3	36436.1	35891.1	35670.1
22.5°	36709.0	35388.9	34350.1	33179.4	32323.8	31339.2	30661.5	29889.6	29439.0	28846.9	28584.7
25°	30631.9	29176.3	28021.2	26787.9	25883.8	24896.8	24219.0	23460.7	22994.4	22432.3	22171.7
27.5°	24819.8	23346.2	22230.1	21083.3	20254.1	19363.5	18751.9	18089.8	17676.0	17196.1	16951.0
30°	19690.7	18391.0	17441.2	16489.6	15799.7	15076.3	14568.2	14019.4	13656.4	13245.5	13012.0
32.5°	15511.9	14508.5	13764.8	13009.7	12445.1	11840.6	11401.5	10917.3	10589.6	10222.7	10011.3
35°	12285.2	11505.6	10912.4	10290.8	9805.8	9290.9	8903.9	8486.1	8192.0	7876.1	7693.5
37.5°	9706.6	9086.7	8598.5	8082.2	7683.9	7257.3	7113.6	6634.0	6329.4	6077.3	5902.7
40°	7617.7	7124.9	6720.9	6326.1	6001.1	5677.6	5418.0	5161.9	4965.1	4784.9	4660.1
42.5°	5948.8	5591.7	5296.7	5007.5	4770.5	4534.8	4346.7	4170.2	4037.8	3919.9	3839.4
45°	4729.1	4483.4	4278.4	4074.7	3907.5	3750.2	3623.6	3511.0	3425.4	3354.6	3304.4
47.5°	3885.1	3716.8	3572.3	3434.8	3321.2	3218.3	3133.4	3105.8	3013.8	2951.8	2928.3
50°	3301.8	3200.2	3090.4	2989.0	2913.1	2837.7	2782.7	2728.8	2694.4	2665.9	2657.2
52.5°	2866.4	2788.7	2727.6	2663.4	2613.4	2559.7	2521.8	2485.9	2466.9	2452.1	2450.2
55°	2542.7	2488.4	2448.0	2404.9	2375.0	2343.5	2323.8	2304.8	2296.5	2289.0	2289.6
57.5°	2297.8	2261.6	2235.3	2207.3	2191.1	2176.0	2171.1	2166.3	2168.8	2169.9	2174.2
60°	2119.4	2095.8	2079.3	2063.3	2056.5	2051.6	2055.3	2059.6	2068.2	2075.2	2081.5
62.5°	1982.7	1969.2	1961.2	1952.4	1951.7	1952.1	1959.5	1966.7	1977.4	1985.6	1991.7
65°	1841.9	1834.1	1831.6	1826.1	1828.8	1830.4	1839.3	1844.8	1855.7	1862.2	1869.8
67.5°	1699.6	1697.8	1699.5	1699.5	1704.4	1708.7	1717.1	1723.4	1732.6	1738.4	1744.7
70°	1594.5	1595.3	1599.2	1599.9	1605.2	1608.2	1615.6	1619.6	1627.9	1632.8	1640.4
72.5°	1492.4	1490.8	1491.8	1489.3	1491.2	1490.4	1494.5	1496.5	1503.5	1507.4	1516.6
75°	1383.7	1379.1	1378.0	1373.1	1373.2	1369.7	1371.3	1371.2	1375.8	1377.6	1384.2
77.5°	1252.4	1244.6	1240.9	1232.7	1232.5	1229.3	1232.7	1234.7	1242.8	1246.6	1254.2
80°	1095.2	1083.1	1077.5	1067.9	1069.6	1069.1	1077.2	1083.3	1093.1	1095.0	1104.6
82.5°	910.3	898.0	892.1	882.6	884.9	885.1	892.4	893.7	902.3	906.0	917.1
85°	651.8	656.5	643.4	644.4	641.6	646.7	651.8	658.0	665.2	677.2	686.3
87.5°	383.9	382.2	386.8	387.4	394.0	397.4	408.1	414.2	426.1	435.6	452.4
90°	201.6	194.1	196.4	193.0	198.1	194.8	199.5	195.6	201.7	201.3	209.4
92.5°	97.9	92.2	85.6	79.8	73.3	67.8	64.2	61.9	58.5	56.3	52.7
95°	132.5	123.5	114.5	105.4	96.4	87.4	84.1	80.8	77.5	74.2	70.8
97.5°	154.5	144.8	135.1	125.2	115.5	105.8	103.6	101.4	99.2	97.0	94.8
100°	222.4	203.7	185.0	166.0	147.3	128.6	126.8	125.1	123.3	121.6	119.7
102.5°	450.0	406.9	363.9	320.7	277.7	234.6	227.1	219.6	212.1	204.6	197.1
105°	826.1	757.2	688.2	619.3	550.6	481.7	461.2	440.3	419.8	399.3	378.8
107.5°	1181.9	1114.6	1047.5	980.3	913.1	845.9	813.3	780.9	748.2	715.8	683.3
110°	1360.7	1320.2	1280.0	1239.3	1199.0	1158.7	1127.5	1096.6	1065.3	1034.4	1003.6

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	1380.9	1360.5	1339.9	1319.8	1299.6	1279.1	1263.9	1248.8	1233.6	1218.5	*1203.1*
115°	1284.6	1278.1	1271.3	1264.8	1258.3	1251.6	1250.3	1249.3	1247.9	1246.8	*1245.8*
117.5°	1124.9	1125.7	1126.3	1127.5	1128.4	1129.4	1137.3	1144.9	1152.9	1161.0	*1169.4*
120°	966.5	971.5	976.4	981.6	986.7	992.0	1002.3	1013.0	1023.5	1034.6	*1045.3*
122.5°	834.6	837.8	841.0	844.5	847.8	851.3	861.5	872.0	882.4	893.0	*903.9*
125°	733.2	732.9	732.5	732.0	731.7	731.6	739.8	748.2	756.7	765.7	*774.1*
127.5°	665.2	662.1	659.0	656.1	653.0	650.4	654.9	659.7	664.4	669.4	*674.5*
130°	624.1	619.4	614.3	609.8	604.7	600.1	601.6	603.1	604.7	606.4	*608.1*
132.5°	600.3	595.0	589.3	583.7	578.2	572.8	572.0	571.4	570.6	570.4	*570.2*
135°	584.7	579.6	574.1	569.0	563.3	558.4	556.6	554.7	553.0	551.4	*550.0*
137.5°	574.4	570.0	565.8	561.6	556.9	552.8	550.1	548.1	545.7	544.2	*542.0*
140°	567.0	563.8	560.0	556.6	552.9	549.6	547.3	545.6	543.5	542.0	*540.2*
142.5°	561.9	559.2	556.5	553.8	551.1	548.4	546.3	544.6	542.7	541.2	*539.4*
145°	560.7	559.0	556.9	555.1	553.2	551.3	549.5	548.1	546.7	545.3	*544.2*
147.5°	556.6	555.2	553.9	552.5	551.0	549.8	548.4	547.7	546.3	545.5	*544.4*
150°	552.2	551.1	549.8	548.8	547.3	546.2	545.3	544.5	543.8	543.4	*542.5*
152.5°	545.6	544.6	543.5	542.5	541.1	540.1	539.3	538.8	538.1	537.6	*536.8*
155°	541.5	540.9	539.9	539.1	538.0	537.5	536.6	535.6	534.9	534.2	*533.3*
157.5°	540.3	539.6	538.6	538.1	537.0	536.3	535.5	534.7	533.9	533.3	*532.4*
160°	540.3	539.7	538.8	538.0	537.4	536.6	535.4	534.7	533.5	532.8	*531.6*
162.5°	543.2	542.2	541.4	540.5	539.3	538.6	537.7	536.9	536.2	535.4	*534.6*
165°	545.6	544.9	544.2	543.5	542.9	542.1	541.0	540.3	539.1	538.3	*537.3*
167.5°	551.2	550.7	550.0	549.4	548.5	547.7	547.0	546.0	545.0	544.2	*542.9*
170°	554.8	553.8	553.3	552.3	551.5	550.6	549.9	548.8	547.8	547.4	*546.1*
172.5°	559.8	559.4	558.6	557.9	557.0	556.5	555.9	555.1	554.3	553.6	*552.9*
175°	560.3	560.1	560.0	559.4	559.2	558.9	558.5	558.3	557.9	557.7	*557.2*
177.5°	562.6	562.4	562.4	562.0	561.8	561.8	561.4	561.2	560.7	560.3	*560.1*
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	*559.0*

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Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	49839.7	49827.0	49833.1	49809.7	49815.2	49787.1	49784.5	49752.7	49749.6	49719.5	49708.4
5°	51527.2	51499.4	51530.7	51481.9	51491.5	51428.0	51422.6	51340.6	51312.3	51209.6	51165.3
7.5°	53381.8	53371.3	53390.4	53349.6	53348.3	53291.6	53268.2	53194.6	53149.1	53041.2	52972.4
10°	*53788.0*	*53797.6*	*53782.0*	*53785.8*	*53763.8*	*53757.7*	*53735.1*	*53720.7*	*53683.7*	*53655.8*	*53614.6*
12.5°	52100.9	52111.1	52046.7	52087.5	52055.3	52130.6	52124.5	52213.2	52226.8	52339.0	52381.5
15°	48201.7	48189.5	48066.1	48143.9	48102.2	48267.4	48304.3	48526.7	48645.6	48930.9	49106.2
17.5°	42311.3	42279.5	42105.7	42200.4	42152.2	42395.8	42477.5	42833.0	43054.7	43514.5	43842.3
20°	35289.8	35228.8	35025.4	35136.3	35086.6	35363.4	35480.1	35909.7	36195.6	36804.7	37238.0
22.5°	28180.9	28084.8	27885.4	27989.1	27942.1	28228.7	28380.6	28811.7	29139.2	29764.5	30270.3
25°	21797.3	21711.5	21518.9	21591.4	21574.0	21816.5	21951.5	22359.2	22681.1	23276.7	23759.5
27.5°	16625.3	16536.1	16362.1	16413.3	16395.7	16602.3	16729.6	17070.3	17347.2	17848.6	18272.5
30°	12724.2	12616.6	12469.0	12497.3	12485.2	12652.7	12771.5	13058.4	13295.7	13719.5	14084.8
32.5°	9753.1	9644.9	9509.4	9522.5	9504.7	9636.1	9734.0	9983.5	10190.3	10550.6	10868.6
35°	7462.5	7588.9	7299.3	7482.8	7291.7	7572.2	7471.3	7627.1	7805.1	8108.6	8373.8
37.5°	5736.9	5648.7	5574.2	5566.3	5565.9	5630.9	5707.7	5857.8	6014.6	6240.7	6474.3
40°	4546.2	4484.4	4436.1	4432.6	4436.1	4482.4	4539.0	4642.8	4757.6	4920.0	5091.8
42.5°	3770.7	3729.5	3700.5	3698.5	3707.6	3740.4	3779.8	3841.4	3916.2	4021.4	4139.2
45°	3263.5	3240.7	3224.5	3223.6	3227.8	3244.9	3267.5	3306.0	3353.3	3419.0	3493.5
47.5°	2907.6	2902.1	2892.0	2892.4	2887.7	2894.7	2897.3	2918.8	2944.1	2993.6	3090.9
50°	2648.5	2648.5	2641.5	2641.1	2634.6	2634.2	2628.6	2637.2	2648.9	2679.6	2710.8
52.5°	2443.7	2443.1	2435.5	2434.0	2427.1	2426.7	2421.8	2425.2	2426.9	2442.3	2460.9
55°	2283.6	2278.9	2268.9	2265.8	2263.1	2267.1	2265.2	2265.4	2263.5	2269.9	2275.4
57.5°	2168.8	2162.6	2153.2	2150.4	2149.7	2154.5	2154.7	2153.0	2144.4	2138.5	2130.3
60°	2078.0	2071.7	2061.6	2059.0	2060.4	2067.1	2066.7	2061.2	2048.3	2037.1	2024.1
62.5°	1988.7	1986.2	1981.0	1980.3	1979.0	1980.1	1975.5	1969.6	1956.9	1945.0	1930.7
65°	1868.9	1870.2	1866.3	1866.9	1862.3	1861.6	1854.6	1848.9	1836.0	1825.1	1810.6
67.5°	1744.5	1745.5	1742.3	1742.3	1740.0	1740.3	1736.1	1730.8	1719.9	1711.1	1699.8
70°	1642.1	1644.7	1642.8	1643.3	1640.4	1639.3	1632.6	1627.5	1616.3	1608.9	1598.8
72.5°	1519.3	1524.8	1524.6	1526.0	1521.5	1519.3	1511.4	1504.9	1494.9	1488.9	1480.9
75°	1386.8	1394.0	1396.1	1399.2	1393.0	1389.6	1380.9	1375.8	1367.6	1364.1	1358.7
77.5°	1257.5	1265.4	1272.9	1279.9	1269.8	1260.8	1249.9	1241.7	1229.9	1225.3	1217.0
80°	1112.3	1126.3	1143.0	1157.0	1138.8	1120.4	1102.6	1089.3	1073.7	1067.3	1056.9
82.5°	922.8	937.1	946.7	955.8	943.1	929.6	912.3	900.7	883.8	877.5	865.6
85°	701.0	718.9	724.6	729.3	721.3	714.1	697.9	676.0	665.4	648.6	639.9
87.5°	461.2	471.8	473.9	475.5	470.5	467.0	456.5	446.2	428.0	414.7	398.5
90°	207.2	212.5	206.7	207.6	202.9	205.3	196.3	194.7	181.4	177.5	165.9
92.5°	50.3	46.8	44.2	41.1	44.9	47.0	50.6	52.7	56.1	58.5	61.9
95°	67.5	64.2	60.9	57.6	60.2	62.9	65.5	68.2	70.9	73.5	76.1
97.5°	92.6	90.4	88.2	86.0	87.6	89.1	90.7	92.2	93.7	95.2	97.0
100°	118.0	116.3	114.5	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8
102.5°	189.7	182.1	174.6	167.2	172.2	177.2	182.4	187.4	192.5	197.5	202.8
105°	358.3	337.8	317.3	296.8	316.7	336.5	356.3	376.1	396.0	416.2	436.0
107.5°	650.7	618.3	585.9	553.6	589.9	626.0	662.2	698.3	734.4	770.6	807.1
110°	972.7	941.8	911.0	880.1	918.4	956.8	995.1	1033.5	1071.9	1110.3	1149.0

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	1188.2	1173.1	1158.2	1143.2	1167.9	1192.5	1217.3	1242.3	1267.0	1291.8	1316.6
115°	1244.7	1243.8	1243.0	1242.1	1253.7	1265.5	1277.1	1289.0	1300.8	1312.6	1324.5
117.5°	1177.3	1185.5	1193.9	1202.2	1206.0	1209.7	1213.7	1217.5	1221.5	1225.4	1229.6
120°	1056.4	1067.2	1078.4	1089.7	1088.1	1086.6	1085.1	1083.6	1082.7	1081.3	1080.5
122.5°	914.7	925.7	936.9	948.0	944.7	941.4	938.3	935.2	932.3	929.4	926.7
125°	783.5	792.4	801.7	811.0	807.7	804.4	801.3	798.5	795.6	792.7	790.2
127.5°	680.0	685.6	691.0	696.8	695.2	693.7	692.7	691.3	690.4	689.6	688.9
130°	610.3	612.6	615.2	617.6	618.0	618.5	619.4	620.3	621.4	622.4	624.0
132.5°	570.6	570.5	571.0	571.4	573.1	574.9	577.2	579.3	582.1	584.3	587.6
135°	549.1	548.0	547.3	546.8	549.4	551.8	554.8	557.8	561.4	564.9	568.8
137.5°	540.6	539.0	538.0	536.6	539.2	541.8	544.9	547.9	551.2	554.8	558.8
140°	538.9	537.5	536.8	535.5	538.1	540.7	543.7	546.7	550.1	553.7	557.3
142.5°	538.3	536.7	536.0	535.1	537.2	539.6	542.6	545.2	548.3	551.3	554.8
145°	543.0	541.9	541.2	540.5	542.0	543.8	545.8	547.9	550.3	552.4	555.3
147.5°	543.7	543.0	542.6	542.0	543.4	544.4	546.0	547.4	549.2	550.9	553.0
150°	542.3	541.6	541.3	541.1	541.8	542.5	543.6	544.2	545.6	546.7	548.2
152.5°	536.6	535.9	536.0	535.6	536.1	536.8	537.7	538.4	539.4	540.3	541.7
155°	532.9	532.3	531.8	531.3	531.4	531.4	531.8	531.8	532.5	532.7	533.4
157.5°	532.0	531.3	531.0	530.2	530.0	529.7	529.8	529.6	529.9	529.5	529.7
160°	531.1	529.9	529.1	528.3	528.5	528.2	528.4	528.2	528.4	528.4	528.7
162.5°	534.0	533.3	532.7	531.9	531.5	530.9	530.5	529.7	529.4	529.0	528.8
165°	536.3	535.2	534.6	533.4	533.2	532.9	532.6	532.2	532.0	531.7	531.8
167.5°	542.3	541.2	540.4	539.5	538.9	537.9	537.5	536.8	536.2	535.6	535.3
170°	545.5	544.6	544.0	543.2	542.9	542.3	542.1	541.5	541.3	541.1	541.1
172.5°	552.4	551.6	550.9	550.4	550.1	549.7	549.5	549.3	548.9	548.9	548.7
175°	557.0	556.7	556.5	556.1	555.7	555.5	555.0	554.8	554.6	554.2	553.9
177.5°	559.7	559.2	559.0	558.8	558.6	558.6	558.6	558.6	558.6	558.4	558.2
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	49676.2	49663.1	49628.7	49611.7	49579.9	49563.9	49539.1	49523.1	49503.0	49488.1	49480.3
5°	51052.4	50989.0	50861.6	50783.3	50645.8	50555.3	50418.8	50318.6	50177.8	50073.7	49940.6
7.5°	52843.2	52745.7	52582.6	52459.0	52266.7	52119.7	51903.9	51731.3	51492.8	51294.9	51051.2
10°	*53572.2*	*53515.4*	*53442.2*	*53362.7*	*53256.1*	*53151.6*	*53004.2*	*52854.1*	*52653.9*	*52454.8*	*52194.6*
12.5°	52494.7	52548.3	52653.9	52703.1	52784.0	52811.3	52848.4	52831.0	52798.3	52717.0	52599.0
15°	49443.0	49666.6	50019.8	50264.2	50606.6	50847.1	51165.3	51370.1	51606.0	51746.9	51880.9
17.5°	44423.0	44855.4	45478.8	45976.2	46643.9	47186.8	47851.9	48374.5	48977.8	49440.7	49933.5
20°	37993.1	38598.7	39459.3	40190.2	41157.7	41978.2	43029.1	43909.6	44936.8	45792.9	46717.0
22.5°	31072.9	31785.2	32771.3	33652.9	34808.2	35840.2	37157.0	38321.2	39709.7	40953.6	42329.5
25°	24544.5	25242.6	26247.0	27159.9	28407.1	29543.8	30982.6	32318.1	33929.4	35432.0	37157.0
27.5°	18946.0	19566.1	20449.1	21270.7	22413.0	23529.0	24989.1	26413.2	28132.6	29747.4	31606.4
30°	14631.7	15134.7	15842.2	16503.1	17420.2	18332.9	19633.5	20950.5	22661.4	24334.8	26240.6
32.5°	11339.0	11768.0	12358.6	12895.2	13601.7	14290.0	15247.7	16300.2	17801.0	19403.7	21246.6
35°	8777.7	9144.6	9647.3	10109.6	10690.6	11236.9	11951.6	12702.9	13848.1	15196.4	16845.6
37.5°	6998.0	7147.7	7506.4	7885.1	8367.7	8816.8	9375.7	9931.2	10750.7	11814.3	13161.6
40°	5322.0	5559.5	5851.5	6149.8	6515.2	6875.3	7488.6	7783.9	8323.4	9087.1	10132.7
42.5°	4294.1	4461.2	4666.7	4874.1	5128.7	5379.6	5689.7	6005.7	6409.1	6926.3	7670.0
45°	3593.4	3702.3	3834.8	3973.0	4140.3	4311.4	4519.1	4736.1	5009.3	5327.3	5779.0
47.5°	3125.3	3185.5	3272.0	3366.3	3481.0	3599.5	3734.6	3872.8	4042.5	4231.1	4488.4
50°	2759.8	2810.2	2877.3	2940.4	3019.5	3141.0	3194.5	3270.8	3373.0	3483.9	3627.8
52.5°	2495.4	2529.0	2571.0	2607.3	2657.3	2702.8	2762.4	2815.1	2885.8	2952.3	3045.3
55°	2289.6	2301.7	2325.6	2349.0	2383.6	2414.6	2455.6	2490.0	2535.0	2574.9	2633.5
57.5°	2130.5	2131.7	2142.8	2154.9	2177.1	2196.7	2224.8	2247.4	2278.7	2304.1	2339.2
60°	2016.3	2010.2	2012.4	2016.7	2029.2	2041.9	2060.0	2074.6	2094.4	2108.7	2128.4
62.5°	1921.2	1911.6	1909.4	1908.3	1914.5	1919.2	1929.0	1936.1	1947.3	1953.6	1964.1
65°	1801.1	1789.8	1785.4	1780.2	1782.1	1780.6	1784.3	1784.5	1790.2	1791.5	1797.6
67.5°	1692.1	1682.7	1677.1	1670.0	1666.9	1661.9	1659.7	1654.9	1654.2	1650.2	1649.2
70°	1592.7	1583.6	1578.7	1572.3	1569.0	1562.3	1558.4	1550.2	1545.5	1537.9	1533.6
72.5°	1477.7	1472.6	1471.1	1466.7	1465.6	1461.9	1460.2	1454.5	1451.2	1444.8	1441.1
75°	1357.6	1353.4	1353.0	1348.5	1348.2	1343.8	1342.6	1336.6	1333.5	1327.0	1324.3
77.5°	1214.4	1208.1	1206.3	1201.2	1202.4	1200.3	1202.1	1197.5	1195.4	1189.0	1187.0
80°	1053.2	1045.2	1041.9	1035.1	1036.8	1033.7	1036.8	1036.5	1038.9	1033.7	1032.8
82.5°	862.3	853.4	851.7	847.0	850.1	850.5	857.2	853.6	855.1	850.3	852.3
85°	627.4	620.8	611.6	610.4	604.5	610.6	602.6	608.0	599.3	605.3	597.3
87.5°	389.0	375.3	368.2	358.5	354.8	345.4	341.5	334.7	336.7	333.6	335.4
90°	164.6	154.4	154.2	147.1	148.6	142.7	146.1	142.6	146.8	143.2	148.1
92.5°	64.2	67.1	72.2	78.1	83.0	88.2	93.4	99.2	104.1	109.8	114.7
95°	78.8	81.4	88.5	95.5	102.6	109.7	116.8	123.9	131.0	138.0	145.1
97.5°	98.5	100.1	107.1	114.1	121.2	128.3	135.3	142.7	149.8	156.8	163.9
100°	112.8	113.0	133.0	153.1	173.1	193.2	213.3	233.4	253.7	273.8	293.9
102.5°	207.9	212.9	263.6	314.5	365.2	415.9	466.8	517.7	568.3	619.4	670.2
105°	455.8	475.8	553.2	630.7	708.0	785.6	863.2	940.9	1018.4	1096.0	1173.5
107.5°	843.2	879.5	949.5	1019.7	1089.5	1159.7	1229.9	1300.0	1370.0	1440.3	1510.7
110°	1187.4	1225.9	1272.8	1319.9	1367.1	1414.0	1460.9	1508.1	1555.4	1602.5	1649.9

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TEST NUMBER: P1444567
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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	1341.3	1366.4	1393.7	1421.4	1448.9	1476.4	1504.0	1531.6	1559.4	1587.3	1615.0
115°	1336.6	1348.6	1359.2	1370.4	1380.9	1392.1	1403.0	1414.3	1425.5	1436.6	1447.9
117.5°	1233.5	1238.0	1239.8	1241.7	1243.6	1246.0	1248.1	1250.4	1252.9	1255.3	1257.4
120°	1079.3	1078.3	1076.9	1075.5	1074.1	1073.0	1071.9	1070.8	1069.9	1069.0	1067.8
122.5°	923.9	921.5	920.1	918.9	917.8	917.0	916.0	915.4	914.5	913.8	912.9
125°	787.7	785.5	787.5	789.7	791.8	794.1	796.3	799.1	801.4	803.9	806.4
127.5°	688.1	687.8	692.5	697.3	702.0	707.0	712.0	717.1	721.9	727.2	732.0
130°	625.5	627.2	633.0	639.2	645.1	651.3	657.6	664.0	669.9	676.1	682.2
132.5°	590.3	593.7	599.1	605.1	611.1	617.1	623.1	629.1	635.2	641.4	647.0
135°	572.7	576.7	582.0	587.5	592.9	598.7	604.1	609.9	615.1	620.8	626.1
137.5°	562.5	566.6	571.2	575.7	580.0	584.9	589.4	594.1	598.4	603.1	607.5
140°	561.2	565.3	567.9	571.0	573.8	576.7	579.4	582.5	585.2	588.3	590.9
142.5°	558.2	562.1	563.6	565.9	567.7	570.2	572.2	574.3	576.1	578.0	579.7
145°	557.8	560.8	561.2	562.2	562.8	563.6	564.1	565.0	565.3	566.0	566.5
147.5°	555.0	557.2	557.1	557.5	557.8	557.8	558.2	558.4	558.3	558.5	558.6
150°	549.5	551.1	550.6	550.6	550.2	550.0	549.4	549.3	548.8	548.6	548.1
152.5°	542.8	544.1	543.2	543.0	542.3	541.8	541.1	540.9	540.2	539.6	539.3
155°	533.6	534.3	533.8	533.6	533.1	532.9	532.4	532.6	532.3	532.1	531.9
157.5°	529.8	529.8	529.6	529.3	528.9	528.9	528.6	528.6	528.6	528.9	529.1
160°	528.5	528.8	528.4	528.2	528.0	527.8	527.5	527.7	527.7	528.2	528.3
162.5°	528.2	528.1	527.7	527.5	527.2	527.2	527.2	527.6	527.5	527.9	528.2
165°	531.8	532.0	531.2	531.2	530.7	530.5	530.2	530.2	530.2	530.4	530.5
167.5°	534.9	534.7	534.7	534.9	534.9	535.1	535.3	536.0	536.2	537.0	537.2
170°	541.0	541.1	540.9	540.8	540.5	540.5	540.5	540.5	540.6	540.8	540.8
172.5°	548.7	548.7	548.2	547.8	547.4	547.2	546.7	546.7	546.2	546.0	545.5
175°	553.7	553.5	553.3	553.0	552.8	552.4	552.1	551.5	551.3	551.0	550.8
177.5°	558.0	557.6	557.4	557.4	557.2	557.1	557.1	556.9	556.9	556.9	556.6
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

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TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	49470.4	49469.8	49465.1	49467.3	49468.2	49471.7	49475.9	49480.3	49481.3	49484.8	49485.5
5°	49840.6	49718.2	49627.7	49528.2	49453.3	49386.0	49341.1	49305.4	49291.5	49295.0	49303.3
7.5°	50844.6	50591.9	50383.4	50146.4	49948.8	49739.6	49566.1	49401.2	49281.0	49191.5	49141.4
10°	*51946.1*	*51638.5*	*51344.1*	*51001.2*	*50675.8*	*50328.6*	*50014.2*	*49697.5*	*49433.4*	*49204.2*	*49035.8*
12.5°	52435.1	52217.5	51963.1	51639.5	51291.3	50890.7	50486.1	50052.4	49649.1	49274.6	48972.7
15°	51917.4	51917.8	51825.1	51669.8	51428.0	51107.8	50722.4	50270.3	49794.5	49308.9	48865.2
17.5°	50274.3	50584.4	50756.8	50865.9	50832.4	50714.4	50469.2	50122.0	49678.3	49161.1	48619.8
20°	47452.6	48183.8	48705.1	49174.0	49436.8	49611.4	49593.8	49452.6	49136.7	48696.9	48133.1
22.5°	43499.9	44727.1	45695.6	46598.7	47232.0	47747.2	47992.1	48096.1	47953.0	47646.6	47117.1
25°	38698.8	40367.5	41791.5	43173.6	44210.3	45101.2	45636.7	46013.9	46043.9	45883.8	45411.5
27.5°	33364.0	35333.7	37136.1	38972.8	40430.6	41711.5	42551.9	43167.0	43362.4	43336.6	42907.7
30°	28036.0	30103.8	32090.5	34232.2	36036.2	37672.7	38782.7	39614.6	39935.2	39996.5	39584.1
32.5°	23004.1	25043.4	27024.5	29263.6	31248.8	33124.3	34435.8	35423.9	35796.7	35884.5	35432.0
35°	18437.6	20318.9	22201.6	24371.7	26345.6	28287.5	29669.5	30704.0	31052.2	31110.8	30587.0
37.5°	14477.4	16080.3	17720.9	19668.0	21480.7	23304.4	24617.5	25589.8	25843.4	25827.8	25234.9
40°	11143.1	12389.1	13707.4	15310.4	16817.4	18359.2	19468.0	20271.8	20405.0	20306.3	19683.5
42.5°	8379.0	9279.0	10234.6	11431.2	12549.4	13703.4	14510.0	15106.7	15125.7	14969.7	14410.7
45°	6242.3	7120.4	7521.2	8244.7	8964.8	9732.2	10224.7	10593.3	10536.3	10399.0	9974.1
47.5°	4758.7	5096.1	5454.0	5902.7	6322.2	7192.9	7128.4	7720.2	7294.0	7584.7	6944.7
50°	3778.9	3967.5	4160.3	4398.4	4617.6	4845.2	4987.4	5093.6	5079.8	5034.2	4911.6
52.5°	3214.9	3273.2	3368.2	3503.6	3626.0	3749.0	3830.0	3895.9	3897.2	3878.8	3816.8
55°	2687.0	2761.0	2829.3	2917.8	3068.5	3091.6	3207.7	3184.2	3193.3	3161.2	3194.1
57.5°	2369.1	2412.1	2450.5	2503.2	2546.8	2597.6	2627.6	2656.5	2653.8	2647.5	2615.8
60°	2143.8	2167.6	2188.9	2219.7	2243.6	2272.3	2286.1	2300.8	2296.0	2285.3	2257.2
62.5°	1970.2	1985.0	1997.2	2017.0	2031.5	2049.4	2056.7	2062.9	2056.7	2046.5	2021.7
65°	1798.8	1808.4	1816.1	1831.0	1841.3	1856.6	1862.6	1868.6	1862.8	1855.0	1836.0
67.5°	1644.3	1645.2	1644.5	1650.5	1653.7	1662.8	1665.6	1669.9	1663.2	1656.4	1640.4
70°	1527.1	1524.6	1521.7	1524.1	1524.6	1529.1	1529.8	1529.1	1521.1	1509.4	1491.9
72.5°	1435.4	1434.2	1431.9	1434.0	1434.0	1437.9	1436.7	1434.7	1425.0	1413.5	1396.3
75°	1317.6	1316.7	1312.3	1312.5	1308.8	1310.2	1305.3	1302.6	1291.7	1282.1	1266.7
77.5°	1179.8	1177.6	1171.2	1168.8	1161.8	1158.9	1149.9	1145.4	1134.4	1126.7	1113.4
80°	1026.1	1023.6	1015.3	1010.7	999.7	992.7	979.4	971.9	959.2	951.7	938.8
82.5°	848.0	849.0	840.8	835.0	819.2	807.0	789.4	779.8	765.8	758.4	745.3
85°	603.2	594.5	599.1	598.7	588.9	578.3	563.9	553.8	542.1	535.0	525.7
87.5°	330.8	332.9	330.4	328.4	321.4	316.1	304.8	299.0	290.4	286.1	279.2
90°	136.9	134.2	123.6	121.1	110.7	105.3	93.5	89.3	78.3	76.0	68.9
92.5°	108.8	102.8	97.3	90.9	85.3	79.3	73.4	67.4	61.5	59.1	57.5
95°	136.4	128.1	119.5	110.9	102.3	93.8	85.3	76.8	68.2	66.4	64.7
97.5°	154.0	143.8	133.7	123.7	113.6	103.5	93.6	83.4	73.3	72.2	71.1
100°	270.7	247.5	224.2	200.8	177.7	154.4	131.2	107.8	84.6	83.3	82.0
102.5°	613.6	557.1	500.7	444.3	387.9	331.3	274.9	218.3	161.8	153.7	145.5
105°	1088.0	1002.4	917.3	831.7	746.1	660.6	575.3	489.6	404.0	376.6	349.1
107.5°	1430.3	1349.8	1269.8	1189.5	1109.1	1028.9	948.5	868.0	787.5	739.2	691.0
110°	1586.2	1522.4	1459.0	1395.3	1331.7	1268.0	1204.2	1140.4	1076.7	1035.0	993.7

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	1568.6	1521.9	1475.7	1428.9	1382.5	1335.7	1289.3	1242.5	1195.7	1170.6	1145.5
115°	1420.2	1392.3	1364.5	1336.6	1308.7	1280.8	1252.9	1224.5	1196.5	1183.4	1170.3
117.5°	1243.7	1229.6	1215.8	1201.7	1187.7	1173.3	1159.4	1145.0	1130.9	1126.6	1121.9
120°	1064.4	1060.5	1056.3	1052.3	1048.5	1044.5	1040.2	1036.1	1031.9	1032.7	1033.7
122.5°	915.2	917.4	919.7	921.5	924.0	925.8	928.1	929.7	931.7	935.7	939.6
125°	811.2	815.8	820.6	825.1	829.8	834.5	839.2	843.4	848.1	852.0	856.3
127.5°	737.6	742.6	748.1	753.0	758.4	763.4	768.6	773.5	778.7	782.4	786.5
130°	687.2	691.5	696.4	700.7	705.6	710.1	714.6	719.2	723.7	726.9	730.1
132.5°	651.3	655.6	659.9	663.9	668.4	672.2	676.6	680.7	685.1	687.5	690.2
135°	629.7	632.8	636.2	639.2	642.9	645.9	649.3	652.7	656.2	658.1	660.2
137.5°	610.3	612.9	615.9	618.5	621.4	624.0	627.2	630.1	633.4	634.4	636.2
140°	593.7	596.6	599.4	602.2	605.2	608.1	611.5	614.5	617.9	619.1	620.8
142.5°	582.2	584.2	586.5	588.8	591.4	593.5	596.2	599.0	601.8	603.2	604.6
145°	569.1	571.5	574.2	576.6	579.3	582.1	585.3	588.3	591.5	592.4	593.6
147.5°	560.7	562.7	565.2	567.4	569.8	572.1	575.1	577.6	580.6	581.7	582.6
150°	550.6	552.7	555.0	557.2	559.9	562.5	565.3	568.2	571.6	572.9	574.1
152.5°	541.6	543.9	546.4	549.1	551.8	554.6	557.7	560.7	563.9	565.0	566.5
155°	534.5	536.6	539.3	542.0	544.8	547.4	550.5	553.3	556.4	557.8	559.1
157.5°	531.4	533.3	535.7	538.2	540.6	543.1	545.9	548.4	551.2	552.3	553.5
160°	530.4	532.2	534.5	536.8	538.9	541.2	543.7	545.9	548.3	549.4	550.6
162.5°	530.3	532.2	534.6	536.4	538.8	541.0	543.5	545.4	547.9	548.8	550.0
165°	532.0	533.7	535.4	536.9	538.8	540.2	542.2	543.8	545.8	546.5	547.8
167.5°	538.7	539.8	541.0	542.2	543.8	545.0	546.5	547.7	549.3	550.3	551.3
170°	541.9	543.0	544.0	545.2	546.4	547.6	548.8	549.8	551.4	552.2	553.2
172.5°	546.4	546.8	547.7	548.3	549.2	549.8	550.8	551.5	552.4	553.5	554.2
175°	551.4	551.7	552.1	552.3	552.7	553.1	553.7	554.3	554.7	555.4	556.0
177.5°	556.8	556.9	557.2	557.4	558.0	558.2	558.7	558.9	559.2	559.9	560.7
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

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TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	49483.8	49483.3	49481.7	49479.4	49477.2	49478.5	49480.7	49486.4	49496.4	49510.7	49529.5
5°	49310.1	49320.2	49325.9	49326.7	49321.6	49318.4	49323.2	49336.8	49364.2	49410.2	49472.4
7.5°	49127.9	49140.5	49159.6	49174.0	49176.7	49173.2	49174.0	49195.3	49245.9	49335.5	49461.2
10°	*48933.4*	*48896.5*	*48916.0*	*48951.7*	*48980.1*	*48985.2*	*48988.7*	*49013.9*	*49087.9*	*49223.3*	*49425.1*
12.5°	48753.9	48636.8	48614.2	48646.4	48689.5	48703.2	48699.5	48710.3	48796.9	48976.2	49257.5
15°	48517.7	48297.4	48222.1	48230.4	48283.6	48302.7	48288.7	48267.4	48351.9	48570.6	48934.8
17.5°	48135.2	47780.2	47641.8	47635.7	47697.9	47714.4	47680.2	47614.0	47697.2	47970.2	48422.4
20°	47554.0	47029.8	46769.2	46727.8	46795.3	46775.6	46707.4	46607.3	46716.6	47048.6	47586.2
22.5°	46509.0	45844.8	45399.7	45256.2	45336.9	45283.0	45183.5	45055.6	45200.8	45578.0	46176.7
25°	44801.5	44034.0	43424.5	43082.7	43147.1	43050.5	42942.2	42787.2	42960.4	43393.3	44052.4
27.5°	42291.6	41405.1	40650.0	40084.0	40104.8	39978.2	39853.4	39652.9	39869.0	40381.5	41124.9
30°	38954.2	37928.3	37008.8	36239.6	36170.8	36048.1	35920.2	35657.0	35927.5	36541.0	37409.7
32.5°	34762.9	33624.0	32561.4	31588.9	31405.4	31285.7	31171.7	30868.9	31223.1	31938.3	32936.4
35°	29861.5	28648.1	27496.1	26385.4	26081.4	25961.7	25862.1	25572.0	26013.9	26792.3	27870.2
37.5°	24481.4	23241.9	22098.1	20959.1	20529.7	20367.3	20294.9	20104.8	20614.7	21384.6	22466.9
40°	18958.1	17805.7	16780.2	15774.3	15284.7	15036.1	14998.2	14963.6	15456.5	16124.5	17106.8
42.5°	13791.3	12861.5	12070.8	11301.9	10858.3	10518.7	10518.6	10621.6	11065.4	11565.7	12323.3
45°	9539.9	8915.9	8412.1	7898.3	8035.6	7358.8	7756.5	7552.5	7771.8	8094.3	8587.0
47.5°	6557.7	6217.1	5940.4	5653.4	5444.1	5244.3	5261.7	5390.6	5597.2	5788.5	6044.9
50°	4779.5	4606.0	4465.0	4316.0	4211.8	4123.7	4128.8	4184.6	4293.2	4394.0	4528.1
52.5°	3745.1	3649.4	3572.8	3490.3	3435.8	3391.9	3394.3	3421.4	3480.1	3537.7	3614.6
55°	3086.9	3075.2	2975.7	2901.8	2873.6	2844.2	2849.5	2860.2	2900.1	2933.8	2984.7
57.5°	2586.8	2542.1	2512.2	2473.2	2455.4	2434.7	2439.4	2443.3	2470.1	2492.7	2529.4
60°	2233.6	2202.0	2180.8	2154.3	2142.6	2129.5	2132.4	2134.8	2152.0	2166.6	2193.0
62.5°	1999.1	1970.7	1952.3	1931.9	1923.5	1914.7	1916.7	1917.5	1928.2	1939.0	1958.9
65°	1819.1	1796.6	1781.4	1763.6	1755.0	1745.8	1746.8	1746.8	1755.8	1763.6	1778.6
67.5°	1628.8	1611.9	1601.9	1587.9	1582.0	1572.7	1572.5	1569.5	1575.4	1578.5	1588.7
70°	1476.1	1459.0	1446.3	1432.8	1425.4	1417.2	1417.4	1417.6	1424.4	1431.5	1444.6
72.5°	1381.7	1365.3	1354.1	1342.3	1335.4	1328.3	1327.0	1326.3	1331.3	1335.2	1343.8
75°	1256.7	1243.6	1237.0	1226.0	1220.5	1212.6	1211.3	1207.7	1210.0	1210.8	1217.2
77.5°	1105.2	1092.8	1087.4	1076.3	1071.6	1062.6	1061.9	1057.9	1059.7	1058.4	1063.4
80°	932.4	921.1	918.1	909.0	906.8	898.5	897.2	892.2	893.7	889.8	891.7
82.5°	739.5	729.3	727.0	718.5	718.5	711.0	710.6	703.1	703.1	696.7	686.3
85°	520.9	513.4	510.2	503.2	501.2	495.2	492.0	484.8	482.3	477.6	476.2
87.5°	274.9	270.1	265.9	262.6	256.5	245.6	244.7	237.2	237.8	232.4	232.8
90°	67.4	60.9	59.6	53.6	51.9	47.6	46.3	46.4	47.7	48.1	49.5
92.5°	55.6	53.5	51.6	49.5	47.6	45.6	43.6	45.6	47.6	49.5	51.6
95°	62.8	61.1	59.3	57.6	55.8	54.0	52.3	54.0	55.8	57.8	59.5
97.5°	70.0	68.8	67.8	66.6	65.5	64.4	63.3	64.5	65.6	66.7	67.9
100°	80.7	79.3	78.1	76.7	75.3	74.1	72.7	74.5	75.7	77.1	78.4
102.5°	137.6	129.4	121.2	113.1	104.9	96.8	88.6	96.8	104.9	113.3	121.4
105°	321.5	294.2	266.5	239.0	211.5	183.9	156.4	184.1	211.7	239.2	266.9
107.5°	642.5	594.4	545.9	497.5	448.9	400.6	352.1	400.7	449.2	497.7	546.2
110°	951.8	910.1	868.4	826.7	784.8	743.1	701.2	743.3	785.2	827.1	869.0

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TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	1120.1	1094.9	1069.6	1044.4	1018.8	993.6	968.0	994.0	1019.5	1045.3	1070.7
115°	1157.1	1143.9	1130.9	1117.5	1104.0	1090.7	1077.1	1091.3	1105.0	1118.7	1132.3
117.5°	1117.5	1113.2	1108.6	1104.1	1099.5	1094.8	1090.0	1095.2	1100.3	1105.8	1110.4
120°	1034.2	1035.4	1036.0	1036.6	1037.4	1037.9	1038.3	1038.7	1038.7	1038.7	1038.5
122.5°	943.4	947.3	951.0	954.7	958.4	962.0	965.2	962.6	959.8	957.1	953.9
125°	860.2	864.4	868.2	872.2	875.8	879.7	882.7	880.6	877.8	874.9	871.7
127.5°	790.2	793.9	797.4	801.3	804.5	807.9	810.8	809.0	806.5	804.1	801.3
130°	733.0	736.4	738.9	742.0	744.5	746.9	749.0	748.1	746.5	745.3	743.2
132.5°	692.6	695.3	697.7	700.1	701.8	704.0	705.3	705.1	704.2	703.6	702.1
135°	662.3	664.1	665.9	668.0	669.2	670.6	671.4	671.9	671.7	671.5	670.7
137.5°	637.3	639.0	640.0	641.1	641.9	642.6	642.9	643.9	644.3	645.1	645.0
140°	621.9	623.6	624.7	625.8	626.8	627.6	627.7	629.0	629.4	629.9	629.7
142.5°	605.9	607.4	608.6	609.9	610.5	611.3	611.6	612.7	613.1	613.6	613.6
145°	594.9	595.8	596.9	597.9	598.4	598.7	598.6	600.1	600.8	601.4	601.8
147.5°	583.7	584.9	585.5	586.2	586.8	587.2	587.3	588.3	589.1	589.7	590.2
150°	575.5	576.7	577.9	579.0	579.7	580.5	580.7	581.6	582.0	582.5	582.5
152.5°	567.5	568.6	569.7	570.6	571.4	572.0	572.3	573.0	573.8	574.5	574.7
155°	560.2	561.5	562.6	563.7	564.4	565.4	566.1	566.8	567.4	567.7	568.1
157.5°	554.5	555.8	556.8	557.8	558.6	559.7	560.4	561.3	561.9	562.7	563.0
160°	551.4	552.8	553.5	554.6	555.5	556.5	557.1	558.1	558.8	559.4	560.1
162.5°	550.8	552.0	552.5	553.7	554.5	555.5	556.2	557.1	557.8	558.6	559.2
165°	549.0	550.2	551.0	552.2	553.4	554.5	555.2	556.0	556.4	556.8	557.1
167.5°	552.2	553.4	554.1	555.3	556.0	557.2	558.2	558.7	559.0	559.4	559.7
170°	553.9	554.9	555.9	556.7	557.5	558.6	559.2	559.6	559.8	560.1	560.5
172.5°	555.1	556.2	557.0	558.1	559.0	560.0	560.8	561.0	561.0	560.9	560.7
175°	556.7	557.5	558.2	559.0	559.7	560.4	561.2	560.9	561.1	560.8	560.8
177.5°	561.6	562.7	563.4	564.1	565.0	565.7	566.5	565.9	565.4	564.9	564.2
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	49555.9	49580.9	49618.7	49653.1	49704.9	49745.7	49807.0	49853.5	49922.6	49967.5	50042.9
5°	49560.4	49657.4	49784.9	49909.3	50058.9	50194.6	50363.3	50507.1	50676.7	50815.1	50988.6
7.5°	49630.5	49817.4	50041.5	50267.3	50522.7	50761.6	51030.7	51274.4	51540.6	51766.1	52012.3
10°	*49682.2*	*49970.5*	*50300.8*	*50633.1*	*50982.9*	*51307.8*	*51636.0*	*51919.5*	*52184.5*	*52402.5*	*52595.2*
12.5°	49612.1	50009.3	50433.1	50842.3	51231.3	51567.7	51850.0	52068.0	52218.5	52320.6	52344.6
15°	49373.8	49851.9	50312.6	50720.2	51042.9	51291.8	51420.7	51481.0	51416.2	51308.8	51072.5
17.5°	48928.7	49432.9	49844.9	50166.3	50336.9	50404.4	50297.7	50112.0	49749.2	49346.4	48764.7
20°	48112.7	48582.4	48881.3	49056.6	49010.9	48842.2	48439.2	47949.5	47225.0	46453.0	45434.1
22.5°	46681.3	47091.9	47251.1	47264.2	46985.8	46563.3	45836.5	44996.4	43853.5	42665.4	41204.2
25°	44532.6	44892.4	44917.6	44776.3	44266.8	43582.1	42514.8	41326.4	39773.4	38190.2	36359.2
27.5°	41618.8	41963.8	41879.4	41615.6	40908.4	39992.2	38625.8	37090.4	35175.9	33306.0	31280.5
30°	37955.8	38324.7	38225.5	37887.3	37046.1	35963.2	34355.4	32571.7	30446.1	28448.9	26396.3
32.5°	33572.2	34038.7	33970.3	33648.8	32770.9	31612.0	29867.5	27975.6	25800.8	23832.8	21836.1
35°	28589.8	29156.2	29185.5	28975.3	28160.4	27014.9	25292.3	23461.0	21378.0	19521.0	17676.6
37.5°	23221.8	23878.4	24013.2	23956.6	23281.1	22270.0	20700.4	19057.7	17212.3	15584.8	14007.3
40°	17824.1	18488.7	18719.3	18787.7	18289.3	17506.1	16218.0	14892.0	13387.5	12068.9	10816.3
42.5°	12901.7	13490.8	13713.6	13853.8	13542.7	13020.4	12080.8	11117.9	10015.7	9064.6	8152.7
45°	8960.5	9377.2	9546.7	9687.8	9518.4	9223.7	8630.3	8028.1	7300.6	6678.9	6090.6
47.5°	6264.8	6494.6	6606.5	6675.0	6609.2	6455.6	6132.7	5783.8	5373.1	5009.8	4660.7
50°	4643.5	4765.9	4824.4	4864.0	4816.1	4730.8	4556.0	4366.0	4140.5	3934.7	3733.6
52.5°	3679.9	3750.0	3784.8	3806.1	3778.7	3726.4	3624.7	3512.1	3376.8	3249.7	3182.9
55°	3100.1	3096.4	3176.9	3138.0	3176.9	3090.2	3072.0	2948.1	2835.8	2756.7	2671.2
57.5°	2556.6	2593.0	2608.5	2625.7	2614.5	2598.7	2555.4	2511.1	2451.9	2402.3	2349.6
60°	2213.1	2243.0	2259.9	2277.1	2276.0	2270.1	2245.1	2218.5	2181.5	2152.0	2119.9
62.5°	1976.4	2002.4	2019.0	2035.4	2036.9	2034.6	2015.5	1997.2	1972.0	1953.4	1931.3
65°	1790.2	1808.4	1819.8	1832.9	1832.1	1828.6	1811.5	1796.2	1775.5	1762.6	1746.4
67.5°	1595.3	1609.1	1617.9	1630.3	1632.6	1633.4	1624.0	1616.8	1606.8	1603.1	1597.5
70°	1456.8	1473.5	1487.7	1503.3	1511.7	1515.8	1511.7	1508.1	1502.2	1499.6	1495.4
72.5°	1351.8	1366.0	1377.1	1391.2	1399.2	1404.9	1401.8	1399.7	1394.6	1393.8	1390.9
75°	1221.6	1231.3	1237.6	1248.3	1252.6	1257.9	1255.5	1256.7	1255.1	1259.1	1259.0
77.5°	1065.0	1072.2	1075.1	1082.9	1083.6	1090.0	1091.5	1099.1	1104.4	1116.1	1122.4
80°	888.8	893.3	893.3	901.3	904.8	915.6	920.8	933.1	938.8	949.3	950.2
82.5°	690.4	685.0	690.4	687.1	697.2	709.4	711.0	721.5	723.9	730.5	725.4
85°	472.0	471.6	467.4	468.1	464.9	466.5	464.6	466.7	464.8	464.9	460.2
87.5°	226.1	228.2	223.2	224.9	220.1	222.2	218.1	221.4	216.4	217.1	209.7
90°	50.2	51.4	52.2	53.5	55.5	59.0	62.7	66.3	70.7	74.0	78.0
92.5°	53.5	55.7	57.6	59.6	61.6	67.5	73.5	79.4	85.6	91.3	97.3
95°	61.3	63.0	64.9	67.0	68.7	77.4	85.9	94.5	103.1	111.7	120.2
97.5°	69.3	70.5	71.6	72.7	74.0	84.1	94.2	104.3	114.5	124.6	134.6
100°	79.8	81.2	82.5	84.0	85.3	108.7	132.1	155.4	178.8	201.9	225.2
102.5°	129.7	137.9	146.0	154.6	162.7	219.3	276.0	332.6	388.8	445.5	502.1
105°	294.6	322.1	350.0	377.6	405.1	490.8	576.5	662.3	747.6	833.2	918.9
107.5°	594.9	643.3	692.0	740.5	789.0	869.7	950.1	1030.5	1111.2	1191.7	1271.9
110°	911.2	952.7	994.9	1036.8	1078.7	1142.4	1206.6	1270.3	1334.2	1398.1	1461.8

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	1096.3	1121.8	1147.4	1172.5	1198.1	1244.9	1292.1	1338.9	1385.8	1432.2	1479.1
115°	1145.9	1159.0	1172.7	1185.9	1199.6	1227.9	1256.0	1284.3	1312.6	1340.5	1368.8
117.5°	1115.4	1120.2	1125.1	1129.5	1134.4	1148.7	1163.3	1177.6	1192.1	1206.5	1220.8
120°	1038.3	1037.7	1037.4	1036.6	1036.2	1040.4	1045.1	1049.2	1053.8	1057.9	1062.0
122.5°	950.8	947.3	944.0	940.4	937.0	935.0	933.5	931.4	930.1	927.9	926.2
125°	868.4	864.9	861.4	857.7	853.8	849.7	845.4	841.0	836.6	832.1	827.8
127.5°	798.7	795.4	792.4	788.9	785.5	780.4	775.7	770.6	766.0	760.8	755.9
130°	741.4	738.9	736.8	733.8	731.5	726.7	722.7	718.2	713.8	709.5	705.0
132.5°	700.8	699.0	697.4	695.0	693.3	689.2	685.6	681.3	677.4	673.3	669.5
135°	670.0	668.9	668.0	666.4	665.1	661.7	658.9	655.7	652.7	649.5	646.4
137.5°	645.1	644.4	643.9	643.2	642.6	639.8	637.4	634.6	632.1	629.4	627.0
140°	629.8	629.3	629.0	628.3	627.6	624.8	622.2	619.3	616.7	613.9	611.2
142.5°	613.5	613.1	612.9	612.2	611.7	609.4	607.5	605.3	603.1	600.9	598.8
145°	601.9	601.8	601.9	601.5	601.6	598.9	596.7	594.0	592.0	589.3	587.1
147.5°	590.7	590.7	590.9	590.8	591.2	588.9	587.2	585.0	583.2	581.1	579.3
150°	582.6	582.6	582.7	582.5	582.3	580.1	578.4	576.2	574.6	572.4	570.6
152.5°	574.9	575.1	575.4	575.4	575.6	573.6	571.7	569.6	567.6	565.4	563.5
155°	568.5	568.7	568.9	568.9	568.9	567.1	565.4	563.3	561.6	559.7	557.9
157.5°	563.3	563.7	564.1	564.3	564.5	563.0	561.4	559.9	558.3	556.7	555.1
160°	560.4	561.0	561.4	561.6	561.9	560.5	559.7	557.9	556.9	555.3	553.8
162.5°	559.7	560.2	560.6	560.8	561.1	559.8	558.9	557.5	556.3	554.5	553.3
165°	557.6	557.6	557.9	557.9	558.1	557.2	556.6	555.7	554.8	553.7	552.8
167.5°	560.0	560.0	560.3	560.1	560.3	559.7	559.6	558.8	558.1	557.4	556.8
170°	560.5	560.7	560.9	560.8	561.0	560.3	559.9	559.3	558.9	557.9	557.2
172.5°	560.8	560.5	560.4	560.4	560.1	559.7	559.5	559.0	558.8	558.3	557.9
175°	560.5	560.3	560.1	560.0	559.7	559.7	559.4	559.4	559.2	558.9	558.7
177.5°	563.9	563.4	562.8	562.3	561.8	561.6	561.6	561.3	561.5	561.3	561.1
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	50089.4	49780.1	49739.2	49760.9	49812.7	49831.8	49887.5	49902.9	49958.9	49972.8	50026.7
5°	51122.9	50714.0	50734.5	50832.7	50981.7	51070.3	51216.6	51293.1	51432.8	51496.3	51622.5
7.5°	52212.8	51891.7	51991.8	52157.6	52361.1	52502.0	52677.8	52792.2	52943.7	53037.6	53158.9
10°	*52747.9*	*52660.0*	*52770.1*	*52900.6*	*53016.7*	*53107.7*	*53182.1*	*53241.8*	*53280.7*	*53317.4*	*53333.4*
12.5°	52340.7	52476.8	52495.6	52482.9	52406.0	52347.3	52215.4	52125.8	51966.6	51869.6	51680.3
15°	50831.1	51130.5	50964.7	50713.8	50346.5	50040.3	49607.9	49285.9	48835.6	48530.2	48078.2
17.5°	48181.8	48559.7	48127.7	47547.0	46808.2	46176.2	45389.2	44764.5	43982.0	43412.8	42682.5
20°	44452.2	44805.4	44034.9	43072.2	41929.4	40967.6	39833.4	38928.4	37874.4	37090.4	36144.2
22.5°	39808.5	40060.1	38974.7	37676.8	36220.8	35019.3	33663.2	32578.3	31375.5	30479.1	29470.3
25°	34671.1	34739.1	33437.1	31941.8	30319.1	28968.7	27520.9	26380.3	25153.5	24245.1	23255.0
27.5°	29486.0	29386.4	27979.1	26393.7	24686.7	23283.1	21871.0	20802.2	19727.8	18909.5	18056.5
30°	24591.8	24350.8	22889.5	21260.0	19603.0	18345.0	17172.8	16314.3	15459.6	14810.5	14125.8
32.5°	20103.7	19763.7	18341.3	16814.7	15418.4	14447.6	13578.4	12928.8	12238.6	11690.3	11115.7
35°	16128.5	15766.2	14506.1	13211.9	12155.2	11439.5	10756.3	10223.5	9637.4	9174.8	8675.8
37.5°	12716.9	12419.9	11364.4	10346.0	9546.7	8992.1	8432.4	7996.8	7512.5	7309.0	6775.8
40°	9817.3	9609.8	8784.6	8033.8	7433.6	7173.1	6604.9	6198.0	5836.0	5537.6	5248.6
42.5°	7657.7	7584.3	6781.1	6195.6	5772.9	5444.7	5128.0	4871.0	4620.7	4415.0	4220.7
45°	5619.6	5561.5	5204.9	4866.9	4578.9	4349.5	4135.5	3958.7	3795.1	3659.4	3536.2
47.5°	4376.0	4357.4	4152.0	3942.5	3761.1	3613.7	3474.7	3357.3	3248.8	3158.2	3128.8
50°	3559.2	3556.8	3436.2	3306.9	3177.7	3092.6	3003.9	2934.5	2864.7	2810.4	2753.0
52.5°	3024.1	3011.1	2929.7	2849.8	2773.1	2717.2	2660.5	2616.1	2570.0	2536.5	2500.8
55°	2603.4	2617.3	2570.2	2522.5	2474.5	2439.7	2400.0	2370.7	2339.0	2317.9	2296.4
57.5°	2311.3	2329.5	2304.8	2277.8	2248.5	2225.7	2198.3	2178.1	2156.9	2143.4	2130.9
60°	2098.7	2118.6	2108.7	2095.1	2077.0	2063.4	2045.9	2034.7	2021.1	2013.5	2006.5
62.5°	1918.4	1943.3	1939.7	1933.3	1921.7	1914.2	1904.6	1899.7	1890.7	1887.4	1884.0
65°	1738.4	1766.5	1765.9	1762.8	1756.3	1754.1	1748.2	1747.2	1742.5	1744.3	1744.0
67.5°	1597.0	1621.3	1626.6	1630.4	1630.3	1631.8	1631.2	1633.6	1633.6	1637.1	1639.3
70°	1494.9	1511.7	1515.8	1519.9	1520.9	1524.2	1524.2	1526.3	1525.8	1528.7	1529.1
72.5°	1391.6	1413.9	1418.0	1421.3	1421.3	1424.4	1422.7	1422.1	1417.8	1416.8	1413.7
75°	1263.2	1291.7	1297.9	1302.0	1302.6	1305.3	1301.4	1299.1	1291.7	1288.7	1283.6
77.5°	1129.0	1158.7	1163.1	1164.5	1162.2	1162.8	1154.6	1149.1	1139.7	1135.8	1130.9
80°	954.4	998.0	1001.5	998.8	991.9	990.9	982.9	977.8	966.6	962.7	958.5
82.5°	726.2	777.4	784.6	787.7	782.2	783.5	776.0	773.0	762.7	760.9	754.1
85°	458.5	509.7	518.2	516.9	511.4	510.0	505.7	507.1	506.2	509.0	510.4
87.5°	210.7	260.1	272.2	268.3	267.7	264.2	256.3	259.3	264.0	267.1	267.3
90°	81.7	100.5	103.8	102.0	95.3	92.7	86.5	84.7	79.2	77.4	71.9
92.5°	103.3	109.3	115.2	109.9	104.6	99.3	94.1	88.6	83.5	78.1	72.9
95°	128.9	137.0	145.6	138.6	131.4	124.3	117.2	110.2	103.2	96.1	89.1
97.5°	144.7	154.5	164.4	157.4	150.4	143.1	136.0	129.1	122.0	114.7	107.7
100°	248.6	271.3	294.5	274.4	254.1	234.2	214.1	193.8	173.8	153.8	133.5
102.5°	558.5	614.5	670.8	619.9	569.0	518.2	467.5	416.6	365.9	314.9	264.2
105°	1004.2	1089.1	1174.4	1096.4	1019.0	941.5	863.9	786.4	708.8	631.1	553.8
107.5°	1352.2	1431.5	1511.3	1441.1	1370.9	1300.9	1230.4	1160.4	1090.1	1019.9	949.9
110°	1525.5	1587.7	1651.1	1603.6	1556.4	1509.0	1461.9	1414.7	1367.6	1320.6	1273.6

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Scaled Data Report

TEST NUMBER: P1444567
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CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	1525.6	1570.2	1616.3	1588.1	1560.6	1532.7	1505.0	1477.2	1449.8	1421.9	1394.7
115°	1396.4	1422.0	1449.4	1437.8	1426.8	1415.5	1404.3	1393.3	1382.1	1371.0	1360.3
117.5°	1234.9	1246.2	1259.3	1256.7	1254.6	1251.9	1249.7	1247.2	1245.3	1243.0	1241.0
120°	1066.2	1067.1	1070.3	1070.9	1072.1	1072.8	1073.9	1074.8	1076.0	1077.0	1078.3
122.5°	924.1	918.5	915.4	916.2	917.0	917.5	918.4	919.1	920.1	920.9	922.0
125°	823.3	814.7	809.1	806.5	804.1	801.6	799.1	796.5	794.4	792.1	789.9
127.5°	750.9	741.5	735.3	730.3	725.4	720.2	715.3	710.1	705.3	700.2	695.6
130°	700.7	691.5	685.9	679.6	673.8	667.3	661.5	655.2	649.0	642.9	636.8
132.5°	665.4	656.3	651.1	645.3	639.7	633.4	627.7	621.5	615.7	609.4	603.8
135°	643.2	634.8	630.5	624.9	620.0	614.4	608.9	603.4	598.1	592.3	587.3
137.5°	624.0	615.8	612.1	607.6	603.4	598.8	594.8	590.0	585.7	580.8	576.7
140°	608.3	599.6	595.6	593.0	590.7	587.7	585.1	582.3	579.7	576.9	574.2
142.5°	596.7	588.2	584.8	582.9	581.4	579.4	578.1	576.1	574.3	572.1	570.3
145°	584.8	575.3	571.6	570.9	570.8	570.3	569.8	569.4	568.9	568.2	567.7
147.5°	577.0	567.5	563.7	563.9	564.0	563.7	564.1	563.7	564.0	563.8	563.9
150°	568.3	557.4	553.1	553.6	553.9	554.4	554.9	555.3	556.1	556.4	556.9
152.5°	561.2	548.2	543.4	543.9	544.7	545.0	545.7	546.5	547.4	548.0	548.7
155°	555.5	541.4	536.2	536.1	536.3	536.7	536.9	537.4	537.8	538.2	538.8
157.5°	553.2	538.3	533.3	532.8	532.9	532.9	532.9	533.2	533.4	533.6	534.3
160°	552.3	537.6	532.5	532.0	532.1	531.9	531.7	531.8	532.0	532.2	532.7
162.5°	551.6	537.3	532.4	531.8	531.5	531.4	531.4	531.1	531.3	531.4	531.7
165°	551.5	538.8	534.5	534.3	534.3	534.2	534.3	534.4	534.6	534.8	535.2
167.5°	555.8	544.4	541.0	540.5	539.9	539.4	539.4	538.6	538.6	538.2	538.2
170°	556.5	547.4	544.4	544.2	544.4	544.3	544.2	544.2	544.2	544.2	544.3
172.5°	557.2	550.7	548.4	548.7	549.1	549.4	549.8	550.2	550.6	551.0	551.4
175°	558.5	554.5	553.6	553.5	553.8	553.9	554.1	554.4	554.6	554.8	555.4
177.5°	561.0	559.9	559.3	559.3	559.3	559.3	559.3	559.3	559.3	559.5	559.5
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	50036.8	50095.1	50090.7	50145.2	50142.4	50193.7	50183.4	50227.8	50217.6	50255.5	50233.3
5°	51678.0	51789.1	51825.6	51925.8	51946.5	52036.1	52038.0	52109.2	52100.6	52156.4	52126.7
7.5°	53230.7	53334.3	53383.4	53461.3	53500.1	53564.5	53589.7	53642.7	53655.4	53686.7	53685.7
10°	*53361.7*	*53361.4*	*53385.6*	*53374.8*	*53396.5*	*53384.0*	*53410.5*	*53401.0*	*53440.1*	*53430.0*	*53459.6*
12.5°	51598.6	51423.6	51359.7	51202.6	51168.2	51033.3	51042.9	50956.5	50998.1	50945.0	51035.6
15°	47809.4	47403.5	47203.0	46850.0	46739.2	46460.3	46437.6	46252.3	46302.4	46205.4	46347.2
17.5°	42210.0	41570.9	41220.2	40704.9	40500.2	40105.7	40026.6	39788.1	39825.1	39705.0	39876.0
20°	35534.0	34761.7	34319.3	33723.3	33457.4	32987.2	32862.4	32595.6	32629.1	32509.4	32703.1
22.5°	28781.7	27973.4	27474.0	26849.3	26509.8	26067.5	25934.8	25666.7	25682.0	25569.8	25755.9
25°	22576.7	21801.7	21317.0	20749.6	20455.0	20049.4	19910.0	19669.3	19682.9	19590.4	19757.5
27.5°	17464.7	16828.8	16423.2	15947.6	15683.6	15350.2	15214.2	15011.8	15011.3	14943.3	15083.0
30°	13647.8	13117.1	12752.9	12338.8	12090.7	11789.9	11658.5	11477.4	11469.5	11421.4	11532.3
32.5°	10685.9	10213.9	9881.8	9517.2	9294.6	9036.5	8912.1	8766.5	8753.2	8709.6	8800.8
35°	8306.8	7909.4	7623.8	7316.9	7339.5	6958.7	7022.0	6726.1	6645.9	6628.4	6696.1
37.5°	6420.2	6112.4	5880.4	5650.6	5494.9	5333.9	5247.2	5169.4	5160.6	5153.0	5200.5
40°	5025.3	4809.9	4641.1	4483.4	4376.4	4278.1	4223.9	4181.1	4171.0	4165.3	4194.0
42.5°	4067.3	3921.8	3813.1	3716.8	3651.8	3598.4	3568.6	3544.8	3536.9	3537.1	3554.0
45°	3436.2	3348.1	3278.0	3218.3	3176.7	3194.9	3141.1	3169.3	3132.2	3170.6	3145.2
47.5°	3026.1	2951.0	2907.6	2865.3	2840.1	2819.8	2820.6	2821.0	2828.9	2830.1	2838.5
50°	2709.6	2666.3	2636.0	2609.0	2596.0	2585.3	2589.0	2591.7	2599.5	2599.9	2606.0
52.5°	2475.4	2446.9	2428.7	2411.9	2406.0	2400.0	2402.5	2401.5	2404.9	2403.1	2408.1
55°	2284.8	2271.3	2265.6	2259.4	2260.3	2258.6	2259.8	2253.7	2250.0	2245.4	2249.6
57.5°	2128.4	2126.6	2130.4	2133.0	2140.1	2142.8	2144.4	2137.4	2130.7	2124.7	2128.2
60°	2007.9	2010.8	2020.4	2028.1	2038.4	2043.2	2046.1	2042.1	2037.3	2032.3	2035.2
62.5°	1889.0	1893.6	1905.0	1913.6	1926.2	1932.6	1939.7	1940.1	1942.0	1940.1	1942.1
65°	1750.9	1756.7	1767.0	1774.2	1785.7	1791.5	1798.8	1800.1	1804.2	1803.2	1806.7
67.5°	1646.1	1651.3	1659.9	1666.7	1677.1	1682.9	1689.4	1689.8	1691.2	1690.8	1694.1
70°	1534.2	1536.8	1544.5	1550.2	1560.5	1566.6	1574.0	1576.2	1580.8	1581.5	1585.2
72.5°	1415.0	1413.9	1418.5	1421.1	1428.8	1433.6	1443.0	1448.1	1455.9	1457.8	1460.6
75°	1285.0	1284.0	1289.5	1291.7	1298.3	1303.1	1313.6	1320.4	1332.4	1337.3	1336.0
77.5°	1134.7	1137.4	1147.6	1153.4	1162.2	1168.2	1181.9	1192.7	1214.6	1224.1	1214.4
80°	966.6	969.3	980.0	985.3	997.0	1004.3	1019.6	1032.3	1051.9	1056.2	1050.7
82.5°	759.9	760.7	770.3	774.2	789.4	800.2	819.5	829.7	841.8	840.0	838.5
85°	518.2	525.1	537.1	549.1	567.4	585.2	603.4	618.4	607.8	624.5	605.7
87.5°	276.9	276.1	292.3	289.8	315.6	330.4	346.3	353.8	362.3	360.6	360.8
90°	70.9	67.1	67.3	63.1	64.6	60.0	62.8	58.7	62.3	57.1	65.4
92.5°	67.5	64.7	61.8	59.0	56.0	53.2	50.3	47.4	44.6	41.7	44.6
95°	82.0	79.4	76.7	73.9	71.3	68.6	65.9	63.3	60.6	58.0	61.3
97.5°	100.6	99.1	97.5	96.0	94.4	93.0	91.4	89.9	88.1	86.6	88.8
100°	113.4	113.4	113.4	113.4	113.1	113.1	113.1	113.1	113.1	113.1	114.8
102.5°	213.3	208.3	203.2	197.9	192.9	187.8	182.8	177.6	172.6	167.6	175.0
105°	476.2	456.3	436.3	416.5	396.5	376.6	356.8	336.9	317.2	297.3	317.7
107.5°	880.1	843.8	807.5	771.3	735.0	698.9	662.7	626.6	590.5	554.3	586.7
110°	1226.5	1188.0	1149.4	1111.1	1072.5	1034.0	995.6	957.3	918.9	880.6	911.4

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	1367.2	1341.9	1317.0	1292.1	1267.3	1242.6	1217.8	1193.1	1168.5	1143.8	1158.8
115°	1349.2	1337.4	1325.3	1313.4	1301.5	1289.5	1277.7	1266.0	1254.3	1242.7	1243.5
117.5°	1238.9	1234.6	1230.5	1226.4	1222.2	1218.3	1214.4	1210.6	1206.7	1203.1	1194.8
120°	1079.8	1080.6	1081.4	1082.6	1083.8	1085.1	1086.1	1087.6	1089.2	1090.7	1079.5
122.5°	923.2	925.6	928.1	930.8	933.6	936.7	939.6	942.9	946.2	949.5	938.2
125°	787.5	789.9	792.3	794.9	797.2	800.3	803.2	806.5	809.7	813.1	803.6
127.5°	690.9	691.2	691.5	692.3	693.0	694.1	695.2	696.6	698.1	699.9	694.0
130°	630.7	629.2	627.4	626.1	624.5	623.8	622.9	622.2	621.5	621.3	618.7
132.5°	597.8	594.7	591.7	588.8	586.0	583.8	581.3	579.4	577.5	576.0	575.3
135°	581.5	577.6	573.7	569.8	566.2	563.2	559.9	557.1	554.3	551.9	552.6
137.5°	572.2	568.4	564.3	560.6	556.9	553.9	550.6	547.7	545.1	542.7	543.9
140°	571.3	567.4	563.4	559.9	556.6	553.3	550.1	547.4	544.4	542.3	543.0
142.5°	568.3	565.2	561.4	558.3	554.9	552.2	549.4	547.0	544.2	542.3	543.2
145°	567.0	564.6	561.9	559.4	557.0	555.1	552.7	550.9	549.2	548.0	548.4
147.5°	563.7	562.0	559.8	558.1	556.0	554.7	553.0	551.8	550.6	549.6	549.8
150°	557.1	556.1	554.7	553.7	552.4	551.4	550.4	549.7	548.8	548.3	548.3
152.5°	549.4	548.5	547.3	546.4	545.3	544.6	543.8	543.3	542.6	542.1	542.0
155°	539.3	538.8	538.4	538.0	537.7	537.8	537.4	537.5	537.3	537.3	537.5
157.5°	534.5	534.6	534.3	534.6	534.6	534.7	534.7	535.2	535.1	535.7	536.1
160°	533.3	533.2	533.0	533.0	533.0	532.9	533.1	533.1	533.3	533.4	533.9
162.5°	531.9	532.5	532.7	533.1	533.6	534.0	534.6	535.2	535.6	536.4	536.9
165°	535.7	535.7	535.7	535.6	535.9	536.1	536.3	536.8	536.9	537.5	538.2
167.5°	538.0	538.4	538.4	538.9	539.3	539.9	540.3	541.1	541.6	542.6	543.2
170°	544.2	544.2	544.2	544.2	544.2	544.5	544.7	544.8	545.0	545.6	546.0
172.5°	551.7	551.7	551.3	551.7	551.3	551.7	551.7	551.9	551.9	552.0	552.2
175°	555.3	555.8	556.0	556.5	556.5	556.7	556.9	557.1	557.3	557.7	557.7
177.5°	559.5	559.7	559.7	559.7	559.7	559.9	559.9	559.9	559.9	559.7	559.9
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	50270.3	50245.0	50270.8	50244.7	50270.8	50239.5	50260.8	50226.8	50235.5	50200.3	50209.4
5°	52171.0	52131.0	52152.3	52100.2	52105.7	52036.1	52034.9	51953.9	51932.6	51840.4	51799.9
7.5°	53708.0	53695.0	53702.3	53668.9	53665.0	53617.5	53594.9	53527.9	53485.7	53401.0	53343.0
10°	*53464.8*	*53503.9*	*53514.1*	*53554.0*	*53562.3*	*53601.9*	*53610.1*	*53649.7*	*53658.0*	*53687.2*	*53687.6*
12.5°	51031.3	51164.3	51196.1	51360.5	51429.7	51617.7	51718.6	51925.8	52048.8	52255.5	52382.5
15°	46343.3	46573.5	46665.3	46986.1	47163.7	47538.3	47773.7	48203.9	48507.5	48964.4	49290.3
17.5°	39891.1	40212.8	40358.0	40793.2	41077.1	41630.0	42028.6	42684.5	43186.7	43915.7	44493.4
20°	32736.1	33093.7	33290.7	33787.2	34122.3	34768.3	35265.9	36072.0	36744.1	37667.8	38457.8
22.5°	25814.3	26154.5	26373.3	26878.4	27255.6	27929.4	28485.5	29336.3	30089.4	31130.3	32077.5
25°	19820.6	20132.2	20330.0	20786.9	21141.1	21760.3	22291.4	23109.6	23846.5	24890.6	25861.8
27.5°	15152.5	15413.7	15604.3	15993.8	16306.3	16831.4	17287.6	17963.8	18598.8	19502.1	20366.9
30°	11600.5	11832.0	12017.5	12356.7	12646.4	13101.6	13502.7	14070.7	14596.3	15315.1	16003.0
32.5°	8864.8	9064.0	9229.2	9526.2	9789.0	10199.0	10560.3	11058.2	11509.3	12118.9	12684.9
35°	6759.0	7151.1	7123.3	7533.0	7598.8	7893.0	8215.4	8650.8	9050.2	9568.6	10050.3
37.5°	5246.1	5356.4	5474.5	5655.5	5845.8	6113.6	6385.8	6917.9	7112.8	7504.6	7903.4
40°	4230.5	4304.9	4383.0	4505.3	4638.6	4827.2	5025.5	5279.3	5539.2	5856.9	6181.2
42.5°	3576.4	3618.6	3668.3	3740.2	3822.3	3941.9	4074.5	4246.6	4427.5	4651.1	4879.2
45°	3195.4	3175.3	3190.1	3228.7	3278.2	3350.9	3434.6	3541.2	3659.0	3803.7	3957.9
47.5°	2840.1	2848.2	2852.6	2873.6	2900.1	2948.8	2999.6	3072.0	3211.6	3254.1	3338.2
50°	2605.5	2609.3	2608.1	2618.8	2632.1	2663.8	2696.8	2745.7	2794.6	2859.4	2921.3
52.5°	2408.8	2414.4	2413.6	2420.6	2427.7	2447.8	2468.6	2503.2	2535.2	2576.4	2612.0
55°	2253.5	2261.1	2264.0	2269.9	2273.4	2283.8	2292.2	2308.7	2322.3	2345.7	2367.2
57.5°	2134.0	2144.4	2149.2	2151.2	2146.9	2146.4	2143.6	2147.1	2149.9	2162.4	2174.6
60°	2040.1	2048.3	2049.6	2048.3	2040.6	2035.0	2026.2	2023.5	2022.0	2028.1	2034.7
62.5°	1941.6	1944.6	1942.5	1940.1	1931.3	1926.0	1916.7	1913.4	1910.3	1914.5	1918.1
65°	1805.4	1808.1	1805.4	1804.0	1796.0	1791.9	1784.1	1781.5	1777.1	1778.2	1777.5
67.5°	1694.9	1697.4	1695.4	1693.3	1687.9	1685.3	1679.6	1675.9	1670.6	1668.5	1664.8
70°	1584.7	1586.7	1583.6	1581.5	1575.2	1572.8	1567.5	1566.4	1562.2	1561.3	1557.0
72.5°	1457.8	1458.0	1453.7	1452.3	1447.7	1447.5	1445.3	1447.4	1447.2	1449.4	1448.5
75°	1328.2	1326.3	1320.8	1319.8	1316.4	1318.0	1315.6	1318.8	1319.2	1323.9	1324.5
77.5°	1198.3	1191.5	1180.9	1176.0	1169.0	1168.1	1164.0	1166.7	1165.9	1171.4	1173.5
80°	1034.1	1025.9	1012.4	1006.0	997.6	996.4	992.7	996.4	994.5	1000.9	1005.6
82.5°	825.6	818.5	804.5	799.4	789.8	790.6	786.7	790.6	790.1	799.6	805.2
85°	610.7	605.9	591.6	578.9	564.7	556.5	548.3	546.9	544.4	548.3	551.6
87.5°	352.7	348.3	337.1	329.8	304.8	306.0	296.2	295.7	293.3	291.1	296.2
90°	64.0	71.1	70.1	76.5	76.3	83.7	84.0	91.0	90.7	97.4	98.2
92.5°	47.4	50.3	53.1	56.0	58.9	61.8	64.6	67.5	73.7	79.4	86.0
95°	64.6	67.9	71.2	74.6	77.9	81.2	84.5	87.8	96.8	105.8	114.9
97.5°	91.1	93.2	95.4	97.5	99.8	102.0	104.1	106.4	116.3	126.0	135.6
100°	116.5	118.3	120.0	121.9	123.6	125.4	127.1	128.9	148.0	166.7	185.5
102.5°	182.5	190.0	197.5	205.0	212.6	220.2	227.7	235.1	278.3	321.2	364.3
105°	338.3	358.8	379.5	400.0	420.5	441.0	461.7	482.2	551.1	619.9	689.0
107.5°	619.1	651.5	683.9	716.5	748.9	781.5	813.9	846.5	913.6	981.0	1048.2
110°	942.3	973.4	1004.2	1035.3	1066.1	1097.2	1128.3	1159.5	1199.9	1240.1	1280.7

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TEST NUMBER: P1444567
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CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	1173.8	1188.9	1204.0	1219.2	1234.3	1249.7	1264.9	1280.3	1300.6	1320.8	1341.3
115°	1244.5	1245.4	1246.6	1247.7	1249.0	1250.0	1251.6	1252.8	1259.5	1266.1	1272.7
117.5°	1186.5	1178.4	1170.4	1162.2	1154.2	1146.6	1138.7	1131.2	1130.1	1129.1	1128.3
120°	1068.8	1057.8	1046.8	1035.8	1025.4	1014.6	1004.3	994.0	988.9	983.9	979.0
122.5°	927.3	916.5	905.7	895.1	884.6	874.2	864.0	853.9	850.6	847.3	844.2
125°	794.6	785.7	776.8	768.0	759.7	751.3	743.1	735.0	735.4	735.5	736.2
127.5°	688.5	683.2	678.0	672.9	668.3	663.4	659.0	654.3	657.5	660.4	663.6
130°	616.5	614.4	612.6	610.5	609.3	607.7	606.3	604.8	610.0	614.5	619.6
132.5°	575.3	575.2	575.4	575.6	576.1	576.7	577.7	578.3	583.9	589.2	594.9
135°	553.4	554.4	555.9	557.1	559.0	560.6	562.7	564.3	569.8	574.9	580.4
137.5°	545.3	546.7	548.4	550.2	552.5	554.4	556.9	559.1	563.3	567.7	572.0
140°	544.3	545.3	547.1	548.6	550.3	552.1	554.3	556.1	559.9	563.2	566.5
142.5°	544.4	545.3	546.8	548.4	550.1	551.6	553.5	555.1	557.9	560.2	563.4
145°	549.5	550.2	551.5	552.5	553.8	555.1	556.7	558.0	560.0	561.6	563.4
147.5°	550.5	551.0	551.9	552.9	553.9	554.9	555.8	556.8	558.2	559.4	560.7
150°	548.8	549.1	549.7	550.0	550.9	551.5	552.5	553.0	554.1	555.0	556.5
152.5°	542.7	542.9	543.4	543.7	544.4	544.9	545.4	546.1	547.3	548.0	549.2
155°	538.0	538.8	539.5	540.1	541.0	541.3	542.3	542.8	543.8	544.4	545.4
157.5°	536.8	537.2	538.1	538.4	539.4	540.0	540.7	541.2	542.1	542.7	543.5
160°	534.8	535.9	536.6	537.6	538.5	539.3	540.3	541.1	541.9	542.5	543.2
162.5°	537.7	538.4	539.1	539.7	540.5	541.1	541.7	542.4	543.6	544.2	545.3
165°	539.1	540.0	541.0	541.6	542.8	543.8	544.5	545.5	546.0	546.8	547.3
167.5°	544.2	544.7	545.9	546.7	547.6	548.4	549.4	550.2	550.8	551.2	552.0
170°	546.9	547.5	548.3	549.2	549.9	550.5	551.5	552.1	553.0	553.6	554.6
172.5°	552.9	553.5	554.0	554.5	555.1	555.8	556.5	556.9	557.6	558.1	558.8
175°	557.7	557.7	557.9	558.1	558.3	558.3	558.5	558.9	559.1	559.2	559.4
177.5°	560.1	560.3	560.5	560.7	560.9	561.2	561.4	561.6	561.6	561.6	561.6
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	50174.3	50176.4	50136.0	50133.7	50095.8	50091.1	50054.0	50042.9	50012.8	50002.0	49971.4
5°	51696.5	51647.2	51533.3	51466.3	51353.7	51279.1	51157.4	51077.8	50960.3	50871.6	50753.3
7.5°	53236.0	53159.5	53031.6	52928.0	52771.8	52647.1	52464.3	52314.6	52116.6	51945.3	51737.3
10°	*53687.6*	*53675.9*	*53643.3*	*53595.8*	*53523.1*	*53441.4*	*53317.0*	*53187.3*	*53013.8*	*52825.4*	*52594.2*
12.5°	52576.6	52696.5	52860.1	52957.1	53075.1	53126.8	53175.1	53163.0	53131.2	53035.9	52902.3
15°	49762.3	50099.3	50545.7	50891.7	51289.6	51578.9	51898.3	52097.4	52296.0	52387.6	52443.8
17.5°	45285.2	45923.5	46724.0	47387.3	48152.6	48767.3	49441.1	49948.4	50470.1	50843.8	51181.8
20°	39534.5	40459.3	41591.4	42591.4	43754.3	44764.8	45872.2	46781.4	47718.9	48451.9	49145.8
22.5°	33297.1	34395.3	35764.0	37031.7	38530.8	39878.1	41398.1	42721.2	44102.5	45256.5	46372.3
25°	27163.4	28367.9	29864.4	31278.9	32976.7	34543.8	36346.5	37995.3	39780.7	41330.8	42862.1
27.5°	21562.5	22745.1	24272.9	25778.6	27574.0	29243.7	31175.2	32991.9	35024.8	36899.5	38817.1
30°	16959.1	17962.1	19332.0	20790.4	22561.1	24260.4	26212.8	28081.3	30196.0	32242.9	34402.9
32.5°	13436.1	14200.3	15277.3	16510.5	18144.3	19761.8	21621.0	23424.7	25507.2	27574.8	29821.3
35°	10670.8	11266.8	12088.0	13050.3	14433.9	15828.2	17472.7	19112.9	21055.8	23017.8	25201.4
37.5°	8414.5	8898.1	9541.2	10264.1	11373.8	12518.2	13866.5	15226.3	16914.5	18653.7	20632.7
40°	6570.8	6962.4	7463.0	8002.2	8840.1	9721.9	10764.6	11819.1	13175.4	14596.9	16234.6
42.5°	5161.9	5450.7	5804.4	6198.4	6980.2	7448.3	8155.4	8918.1	9915.2	10947.1	12178.5
45°	4145.4	4342.5	4587.8	4852.0	5214.8	5612.0	6096.2	6604.1	7551.3	8015.9	8764.9
47.5°	3461.8	3594.2	3750.2	3916.7	4130.7	4361.6	4648.8	4942.5	5322.3	5715.9	6177.4
50°	3001.5	3135.9	3189.6	3275.9	3399.7	3531.6	3693.5	3855.4	4059.1	4265.6	4503.1
52.5°	2659.8	2703.6	2761.9	2816.7	2893.4	3043.6	3092.2	3176.9	3291.1	3402.8	3527.6
55°	2398.8	2427.3	2465.3	2498.4	2544.8	2589.1	2653.2	2709.5	2785.6	2853.0	2935.8
57.5°	2195.7	2213.9	2240.2	2261.9	2292.0	2317.0	2354.5	2385.1	2428.9	2466.9	2517.1
60°	2048.1	2060.2	2078.0	2092.1	2111.3	2124.3	2143.0	2157.3	2180.5	2199.8	2227.7
62.5°	1927.6	1933.9	1945.4	1953.8	1965.9	1972.5	1982.5	1988.7	2001.4	2011.2	2026.8
65°	1783.0	1784.5	1792.2	1795.7	1805.2	1808.7	1816.9	1819.8	1830.3	1837.4	1851.3
67.5°	1664.5	1661.2	1661.3	1658.6	1659.9	1657.2	1657.9	1654.9	1659.1	1661.3	1671.8
70°	1556.3	1551.7	1550.2	1545.3	1543.8	1538.6	1537.1	1532.6	1532.0	1530.5	1534.2
72.5°	1450.8	1449.6	1450.0	1446.5	1446.1	1442.6	1442.8	1440.6	1443.0	1444.1	1448.8
75°	1329.6	1330.0	1332.4	1329.3	1330.1	1327.2	1328.3	1325.6	1327.0	1326.4	1331.3
77.5°	1182.1	1185.6	1192.0	1190.7	1192.7	1189.4	1190.9	1187.0	1188.1	1185.6	1187.4
80°	1016.1	1023.4	1032.1	1031.7	1035.4	1033.0	1036.3	1032.6	1034.1	1029.6	1028.6
82.5°	819.0	825.2	834.5	834.8	842.9	844.4	853.4	853.1	858.8	855.1	852.5
85°	560.0	564.1	572.3	576.6	585.0	590.1	598.7	602.2	596.0	607.4	598.4
87.5°	292.3	303.2	297.2	311.3	308.0	322.4	319.2	332.5	330.0	341.3	339.9
90°	107.0	108.5	117.7	119.7	130.8	133.9	139.2	135.5	140.4	136.9	142.0
92.5°	91.7	98.3	104.4	110.6	116.7	123.0	117.2	111.5	105.8	100.2	94.3
95°	123.9	132.9	142.0	151.1	160.1	169.1	159.4	149.9	140.2	130.5	120.8
97.5°	145.3	155.0	164.7	174.4	184.3	194.0	182.6	171.1	159.7	148.4	136.9
100°	204.2	223.1	241.8	260.6	279.5	298.3	277.1	255.7	234.6	213.1	191.8
102.5°	407.6	450.6	493.6	536.9	579.8	623.0	577.8	532.8	487.3	442.1	396.8
105°	758.0	826.9	895.8	964.8	1033.6	1102.9	1029.5	956.1	882.7	809.5	735.9
107.5°	1115.5	1182.6	1250.2	1317.3	1384.7	1452.3	1378.0	1303.5	1229.3	1154.7	1080.3
110°	1321.4	1361.8	1402.5	1443.2	1483.6	1524.4	1470.1	1416.1	1361.8	1307.4	1253.2

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	1361.5	1382.4	1402.6	1423.3	1443.7	1464.3	1425.5	1387.1	1348.3	1309.8	1270.9
115°	1279.7	1286.3	1293.3	1300.1	1306.9	1313.6	1287.8	1261.8	1235.9	1210.0	1183.6
117.5°	1127.6	1127.1	1126.0	1125.7	1124.7	1124.1	1109.7	1095.5	1081.0	1066.6	1052.0
120°	973.9	969.0	964.1	959.2	954.2	949.2	943.4	937.6	931.6	925.6	919.6
122.5°	840.8	837.8	834.5	831.3	827.9	824.5	822.4	820.7	818.6	816.6	814.2
125°	736.6	736.9	737.4	738.0	738.1	738.5	737.5	736.9	735.9	735.3	734.2
127.5°	666.4	669.5	672.3	675.3	678.0	681.0	681.0	681.3	681.4	681.4	681.4
130°	624.1	629.3	633.9	638.4	642.8	647.7	647.2	647.2	646.9	646.6	646.4
132.5°	600.3	605.6	611.0	616.6	621.5	626.8	626.3	626.2	625.4	625.3	624.7
135°	585.4	590.6	595.3	600.7	605.4	610.4	609.7	609.1	608.3	608.0	607.3
137.5°	575.9	580.4	584.4	588.5	592.2	596.3	595.5	595.0	594.1	593.7	592.9
140°	569.9	573.3	576.4	579.8	583.0	586.2	585.1	584.3	583.1	582.2	581.0
142.5°	565.9	568.5	570.7	573.5	575.7	578.3	576.4	574.9	573.3	571.8	570.1
145°	565.2	567.1	568.8	570.4	571.7	573.6	571.5	569.7	567.4	565.7	563.5
147.5°	561.8	563.2	563.9	565.3	565.9	567.1	565.1	563.2	561.2	559.2	557.0
150°	557.1	558.5	559.2	560.2	561.0	562.1	559.9	557.8	555.5	553.4	551.3
152.5°	550.1	551.1	551.9	552.6	553.5	554.2	552.0	550.3	548.0	545.8	543.8
155°	545.8	546.7	547.1	547.8	548.0	548.5	546.6	545.1	543.4	541.5	539.6
157.5°	544.0	544.7	545.3	545.6	546.0	546.6	545.2	544.1	542.5	541.2	539.8
160°	543.8	544.3	544.8	545.2	545.8	546.0	544.8	544.1	542.9	541.6	540.3
162.5°	545.9	546.9	547.4	548.0	548.8	549.4	548.0	546.8	545.4	544.1	542.6
165°	547.8	548.4	549.0	549.5	549.7	550.3	549.4	548.6	547.5	546.8	545.6
167.5°	552.4	553.1	553.5	554.0	554.2	554.5	553.7	553.1	552.0	551.0	550.0
170°	554.9	555.5	556.3	556.9	557.3	557.7	557.1	556.5	555.6	554.9	553.9
172.5°	559.4	560.0	560.1	560.8	561.0	561.5	560.8	560.0	559.3	558.4	557.4
175°	559.4	559.6	560.0	560.0	560.0	560.1	559.5	558.8	558.2	557.5	556.9
177.5°	561.6	561.6	561.6	561.4	561.4	561.4	560.9	560.5	560.1	559.7	559.0
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7	49648.7
2.5°	49960.6	49938.8	49924.9	49907.0	49896.2	49882.4	49872.2	49863.6	49856.6	49850.2	49845.4
5°	50663.1	50551.4	50464.8	50370.9	50293.8	50216.9	50157.7	50108.5	50074.7	50049.3	50034.2
7.5°	51557.5	51353.1	51171.3	50980.0	50808.5	50639.8	50494.4	50369.1	50275.1	50214.1	50177.2
10°	*52356.3*	*52082.7*	*51812.0*	*51527.2*	*51257.1*	*50995.0*	*50753.3*	*50540.6*	*50372.3*	*50260.4*	*50195.0*
12.5°	52714.4	52481.3	52204.9	51895.6	51564.6	51229.7	50903.2	50608.8	50361.7	50196.0	50100.3
15°	52399.1	52303.4	52115.8	51875.8	51561.6	51215.3	50832.1	50471.7	50140.3	49925.5	49800.9
17.5°	51373.2	51506.8	51492.5	51400.6	51174.8	50883.3	50492.8	50088.1	49673.5	49386.3	49229.4
20°	49642.0	50062.0	50275.1	50384.4	50295.7	50106.7	49753.1	49342.3	48859.2	48484.1	48255.3
22.5°	47209.4	47950.7	48412.8	48750.8	48822.5	48758.1	48445.9	48055.3	47516.6	47065.9	46727.8
25°	44077.6	45163.7	45893.9	46466.3	46688.7	46746.1	46480.3	46091.9	45491.5	44966.3	44502.1
27.5°	40388.9	41800.2	42775.1	43544.2	43891.4	44041.9	43797.4	43401.1	42690.7	42063.9	41457.4
30°	36236.1	37910.5	39084.3	40006.5	40429.8	40628.6	40368.9	39926.4	39099.9	38345.5	37581.5
32.5°	31791.3	33623.6	34902.6	35904.2	36323.5	36510.7	36170.8	35674.0	34718.6	33829.9	32939.0
35°	27137.6	28987.1	30277.0	31251.8	31603.2	31716.1	31281.4	30707.2	29648.8	28673.3	27701.9
37.5°	22389.2	24109.9	25282.2	26157.1	26374.5	26394.1	25870.4	25236.1	24123.7	23161.9	22194.7
40°	17681.9	19132.9	20079.5	20779.7	20855.2	20787.9	20218.5	19580.2	18539.5	17677.8	16828.8
42.5°	13247.7	14343.1	15018.4	15498.3	15469.8	15336.8	14814.7	14266.0	13407.4	12751.1	12083.0
45°	9448.9	10171.2	10566.0	10846.9	10756.7	10629.9	10223.7	9839.0	9255.6	8831.7	8382.7
47.5°	6564.3	7426.8	7276.6	7825.7	7352.6	7665.0	7014.4	6655.8	6346.1	6120.9	5867.2
50°	4699.5	4897.1	4992.6	5057.7	5023.1	4975.1	4858.3	4753.8	4612.3	4509.2	4389.1
52.5°	3629.3	3728.1	3782.2	3821.4	3813.7	3796.2	3745.3	3698.7	3632.4	3588.9	3536.2
55°	3074.2	3075.6	3175.2	3132.5	3195.6	3121.6	3150.7	3068.8	3082.0	3011.7	2964.5
57.5°	2554.6	2595.0	2613.2	2630.9	2625.9	2622.8	2603.1	2593.2	2570.9	2564.1	2548.3
60°	2247.1	2268.2	2272.6	2280.7	2274.0	2271.3	2255.9	2250.4	2235.5	2232.7	2222.2
62.5°	2036.2	2047.1	2047.1	2047.1	2038.2	2029.7	2012.6	2003.6	1990.9	1988.2	1982.1
65°	1860.3	1871.5	1873.3	1875.7	1869.3	1862.6	1847.6	1837.8	1824.7	1819.8	1812.8
67.5°	1678.7	1690.6	1694.7	1700.7	1697.0	1695.8	1685.5	1681.6	1673.0	1670.9	1664.5
70°	1536.1	1541.0	1540.6	1540.4	1532.4	1525.2	1513.3	1507.6	1498.5	1496.7	1490.8
72.5°	1451.2	1454.7	1452.5	1449.4	1438.9	1428.3	1414.3	1403.9	1392.2	1384.8	1376.6
75°	1331.8	1336.4	1333.5	1331.5	1322.1	1315.1	1303.8	1298.1	1289.9	1287.5	1281.7
77.5°	1185.2	1187.4	1182.5	1182.1	1174.9	1170.4	1162.0	1160.5	1154.4	1154.6	1149.1
80°	1022.0	1020.6	1013.0	1011.5	1004.3	1002.5	995.8	996.2	991.4	993.5	989.6
82.5°	840.9	836.3	826.2	823.2	815.0	814.2	809.8	813.5	810.5	815.0	812.3
85°	602.6	603.9	599.5	599.5	597.1	597.9	597.5	600.2	600.6	604.7	604.5
87.5°	336.0	340.8	339.9	344.3	344.1	349.1	350.7	358.1	359.0	365.8	365.8
90°	138.5	144.2	140.5	146.4	145.1	152.1	151.9	159.0	158.0	164.0	161.4
92.5°	88.6	82.9	77.3	71.5	68.6	65.4	63.1	59.6	57.1	53.9	51.0
95°	111.1	101.4	91.7	82.0	78.7	75.2	71.9	68.6	65.3	62.0	58.7
97.5°	125.5	114.0	102.6	91.1	88.2	85.4	82.3	79.5	76.6	73.8	70.9
100°	170.4	149.0	127.8	106.3	103.8	101.4	99.0	96.6	94.2	91.5	89.1
102.5°	351.6	306.1	260.7	215.4	206.7	198.2	189.6	180.8	172.2	163.7	155.0
105°	662.5	588.9	515.5	441.9	418.5	395.1	371.8	348.3	324.9	301.6	278.2
107.5°	1005.7	931.0	856.5	781.8	738.9	695.6	652.5	609.0	566.1	522.6	479.5
110°	1198.9	1144.4	1090.0	1035.4	1000.9	966.1	931.3	896.5	861.8	826.8	792.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1232.1	1193.2	1154.3	1115.1	1099.5	1083.7	1068.2	1052.4	1036.7	1020.7	1005.0
115°	1157.5	1131.4	1105.2	1078.7	1073.5	1067.9	1062.6	1056.9	1051.5	1045.7	1040.0
117.5°	1037.6	1023.0	1008.3	993.7	994.7	995.8	996.9	997.7	998.6	999.3	1000.1
120°	913.5	907.4	901.5	895.2	900.3	905.1	910.2	914.8	919.6	924.0	928.6
122.5°	812.3	809.9	808.0	805.4	811.6	817.6	823.4	829.3	834.9	840.3	845.6
125°	733.5	732.5	731.6	730.3	736.7	742.7	748.7	754.4	760.3	765.5	771.0
127.5°	681.6	681.6	681.7	681.6	686.4	690.6	694.9	698.9	703.2	706.8	710.3
130°	646.3	645.8	645.7	645.3	649.5	653.4	657.6	661.1	664.9	668.0	671.2
132.5°	624.4	623.9	623.6	622.9	626.2	629.1	632.2	634.5	637.2	639.3	641.4
135°	606.7	605.9	605.3	604.5	607.5	610.4	613.1	615.4	617.9	619.7	621.7
137.5°	592.3	591.5	590.8	589.9	592.7	595.2	597.7	599.8	601.8	603.8	605.3
140°	580.2	578.9	578.3	576.9	579.4	581.6	583.9	585.7	587.8	589.1	590.7
142.5°	568.6	566.6	565.5	563.5	565.4	567.0	568.6	570.0	571.6	572.6	573.4
145°	561.6	559.3	557.6	555.4	556.9	558.0	559.5	560.7	561.5	562.2	563.1
147.5°	555.4	553.1	550.9	548.9	550.4	551.0	551.9	552.5	553.6	553.9	554.4
150°	549.1	546.6	544.2	542.0	542.9	543.5	544.2	544.9	545.5	545.8	546.3
152.5°	541.5	539.3	537.1	534.6	535.2	535.6	536.1	536.4	536.9	537.1	537.4
155°	537.8	535.8	533.8	531.6	532.3	532.5	532.8	533.0	533.1	533.1	533.3
157.5°	538.2	536.4	535.1	533.3	533.3	533.3	533.4	532.8	532.8	532.5	532.2
160°	539.2	537.7	536.4	534.8	534.7	534.6	534.6	534.1	533.9	533.4	533.1
162.5°	541.0	539.5	537.8	536.0	535.9	536.0	535.8	535.2	535.1	534.6	534.3
165°	544.7	543.5	542.3	541.0	540.8	540.4	540.2	539.4	539.1	538.3	537.8
167.5°	548.8	547.7	546.4	544.9	544.9	545.0	544.9	544.5	544.4	543.9	543.8
170°	553.1	552.0	551.1	550.1	549.8	549.6	549.2	548.8	548.2	547.9	547.4
172.5°	556.4	555.5	554.4	553.3	553.3	553.1	552.7	552.5	551.9	551.5	551.4
175°	556.0	555.4	554.3	553.7	553.5	553.3	553.2	553.0	552.6	552.4	552.0
177.5°	558.6	558.1	557.4	556.9	556.8	556.8	556.6	556.4	556.4	556.2	556.0
180°	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0	559.0

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	49648.7	49648.7
2.5°	49841.0	49838.4
5°	50026.3	50023.3
7.5°	50167.2	50166.3
10°	*50183.8*	*50192.4*
12.5°	50083.7	50090.7
15°	49791.4	49804.9
17.5°	49232.3	49250.1
20°	48269.2	48287.8
22.5°	46709.6	46717.4
25°	44442.2	44410.0
27.5°	41350.8	41295.4
30°	37421.0	37367.5
32.5°	32735.8	32702.3
35°	27461.7	27440.5
37.5°	21909.0	21865.9
40°	16518.5	16392.9
42.5°	11790.4	11570.2
45°	8148.2	7887.2
47.5°	5688.3	5526.9
50°	4311.6	4259.5
52.5°	3513.2	3501.0
55°	2964.3	2959.0
57.5°	2551.7	2549.9
60°	2227.7	2227.2
62.5°	1986.2	1987.0
65°	1815.9	1816.3
67.5°	1666.2	1665.0
70°	1493.0	1491.8
72.5°	1373.8	1371.7
75°	1281.7	1280.5
77.5°	1150.7	1148.7
80°	992.1	989.6
82.5°	816.0	813.1
85°	608.7	608.8
87.5°	372.4	372.2
90°	167.0	163.6
92.5°	48.6	46.0
95°	55.4	52.1
97.5°	68.1	65.2
100°	86.7	84.3
102.5°	146.5	137.9
105°	254.8	231.4
107.5°	436.2	393.1
110°	757.2	722.4

TEST NUMBER: P1444567
CATALOG NUMBER: EHBR1-60-UNV-TA-L835-UPL36

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	989.0	973.1
115°	1033.9	1028.2
117.5°	1000.6	1001.0
120°	932.7	937.0
122.5°	850.6	855.7
125°	775.9	781.0
127.5°	713.6	716.7
130°	673.6	676.5
132.5°	643.1	644.4
135°	622.9	624.2
137.5°	606.3	607.5
140°	591.4	592.3
142.5°	574.2	574.7
145°	563.5	563.8
147.5°	554.0	554.3
150°	546.1	546.2
152.5°	537.0	537.1
155°	532.9	532.8
157.5°	531.4	531.2
160°	532.4	532.0
162.5°	533.7	533.3
165°	536.9	536.1
167.5°	543.1	542.9
170°	546.8	546.4
172.5°	550.8	550.5
175°	551.8	551.6
177.5°	556.0	555.6
180°	559.0	559.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

Metalux

Report Number: SP1-2506-472-3

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L835-N

Data in this report applies to families of products including EHBR-60-L835-N

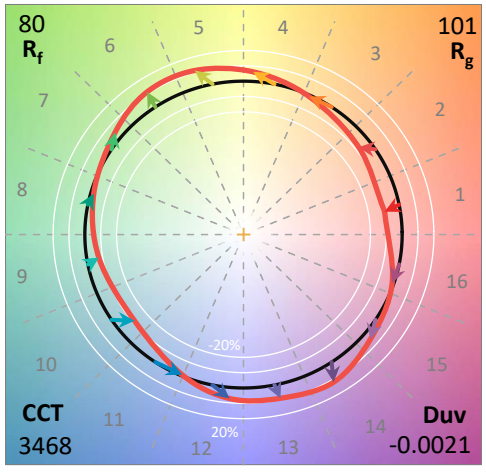
Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-3
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	08/05/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	Metalux
Catalog Number:	**EHBR-60-L835-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3500K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	3468	CRI (Ra):	82.1		
CIE u':	0.2375	R1:	82.9	R9:	27.6
CIE v':	0.5091	R2:	85.6	R10:	63.8
Duv:	-0.0021	R3:	85.9	R11:	81.2
CIE x:	0.4049	R4:	82.8	R12:	57.2
CIE y:	0.3856	R5:	81.0	R13:	82.6
CIE z:	0.2095	R6:	79.7	R14:	91.0
Peak Wavelength (nm):	630	R7:	86.5	R15:	79.4
Dominant Wavelength (nm):	581	R8:	72.1		
Purity:	37.24544				
Rf:	80.1				
Rg:	101				



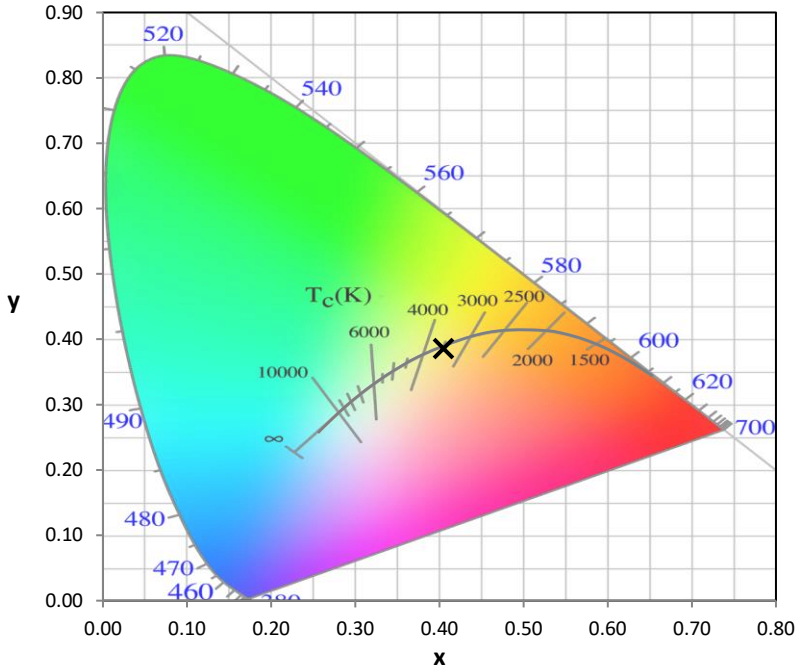
Test Conditions

Stabilization Time:	39M
Operation Time:	1H 39M
Sphere Temperature (°C):	25.0

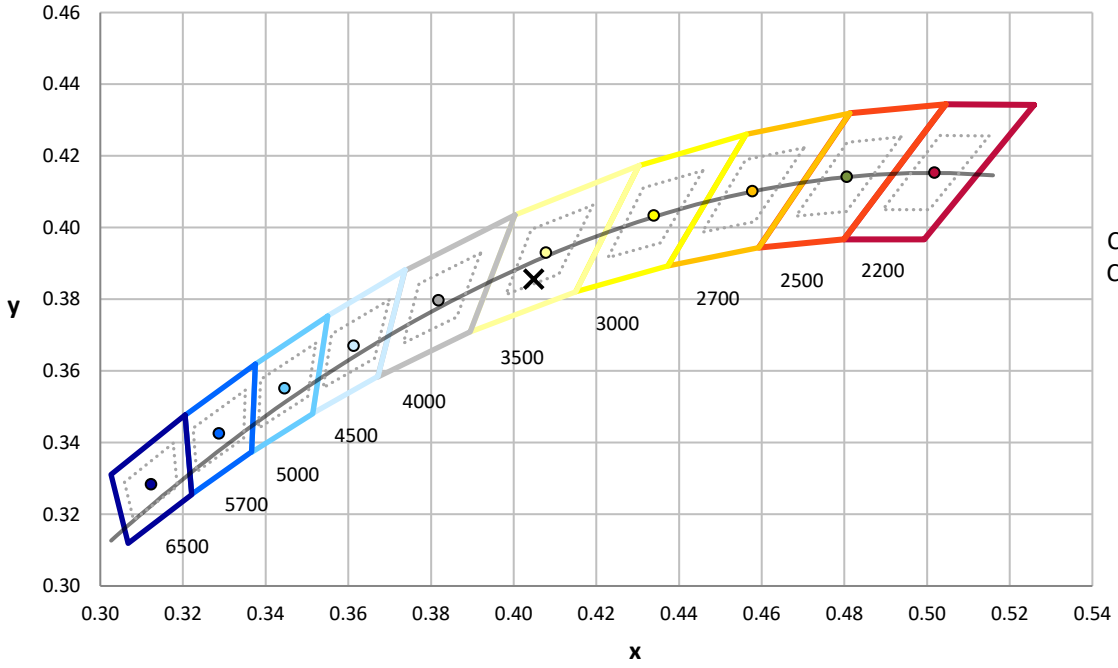
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	10/22/2024	10/22/2025
Sphere Thermometer	ONSET IN0085	10/22/2024	10/22/2025
Room Thermometer	ONSET IN0046	10/22/2024	10/22/2025

REPORT NUMBER: SP1-2506-472-3

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles

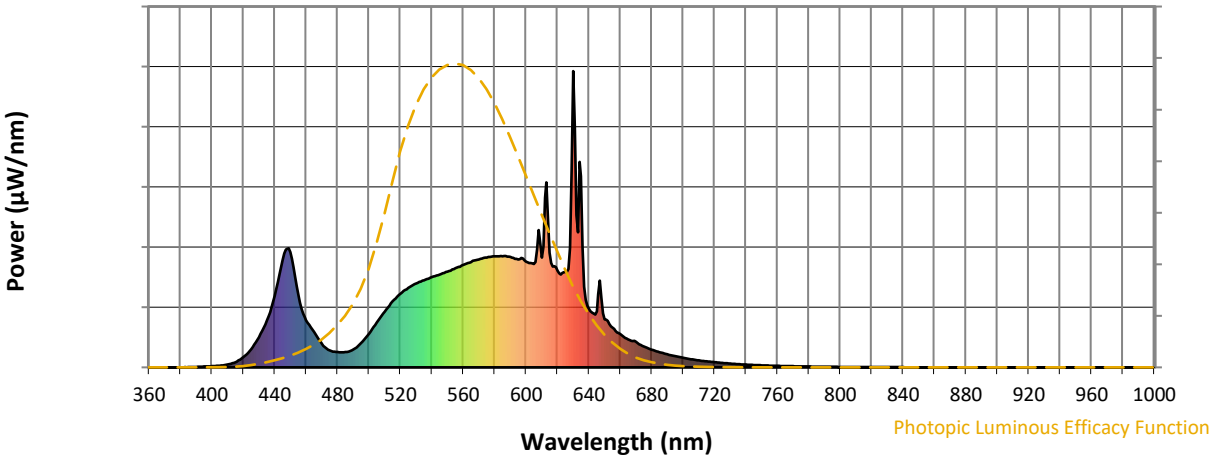


CCT = 3468K
CIE x = 0.4049
CIE y = 0.3856
Duv = -0.0021

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-3

Photopic Flux vs. Wavelength

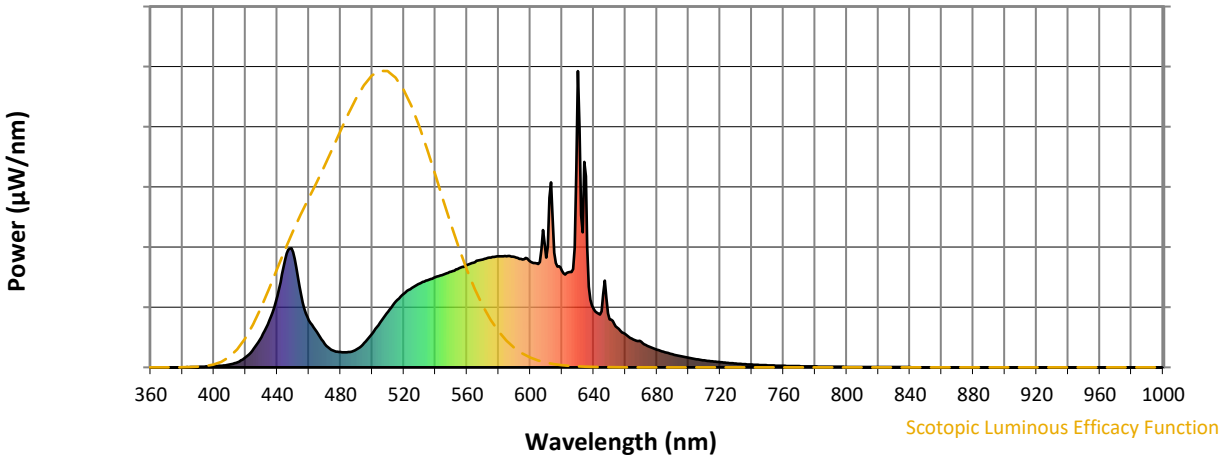


Photopic Lumens: NR

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-3

Scotopic Flux vs. Wavelength

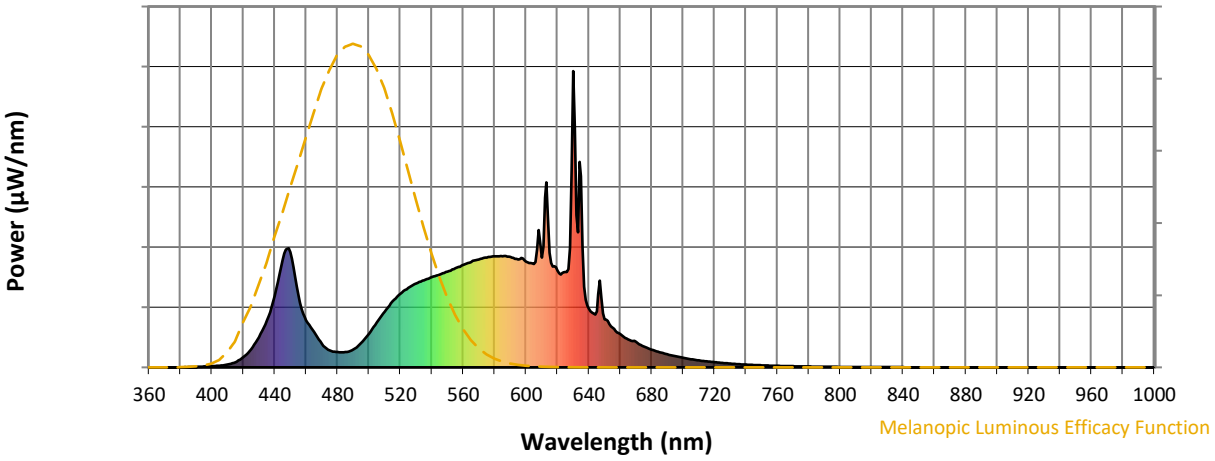


Scotopic Lumens: NR **S/P: 1.43**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-3

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.75**

λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)	λ (nm)	Power W^/nm	Lumens (ϕ/nm)
360	0	NR	490	60	NR	620	327	NR	750	7	NR	880	0	NR
365	0	NR	495	82	NR	625	322	NR	755	6	NR	885	0	NR
370	0	NR	500	114	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	152	NR	635	645	NR	765	4	NR	895	0	NR
380	0	NR	510	189	NR	640	197	NR	770	4	NR	900	0	NR
385	1	NR	515	222	NR	645	189	NR	775	3	NR	905	0	NR
390	2	NR	520	248	NR	650	163	NR	780	3	NR	910	0	NR
395	3	NR	525	268	NR	655	134	NR	785	2	NR	915	0	NR
400	4	NR	530	283	NR	660	113	NR	790	2	NR	920	0	NR
405	6	NR	535	294	NR	665	94	NR	795	2	NR	925	0	NR
410	9	NR	540	305	NR	670	87	NR	800	2	NR	930	0	NR
415	18	NR	545	314	NR	675	70	NR	805	1	NR	935	0	NR
420	34	NR	550	323	NR	680	60	NR	810	1	NR	940	0	NR
425	62	NR	555	335	NR	685	51	NR	815	1	NR	945	0	NR
430	102	NR	560	346	NR	690	44	NR	820	1	NR	950	0	NR
435	159	NR	565	356	NR	695	38	NR	825	1	NR	955	0	NR
440	241	NR	570	364	NR	700	32	NR	830	1	NR	960	0	NR
445	363	NR	575	371	NR	705	28	NR	835	1	NR	965	0	NR
450	389	NR	580	375	NR	710	24	NR	840	1	NR	970	0	NR
455	245	NR	585	375	NR	715	20	NR	845	0	NR	975	0	NR
460	158	NR	590	373	NR	720	17	NR	850	0	NR	980	0	NR
465	120	NR	595	364	NR	725	15	NR	855	0	NR	985	0	NR
470	79	NR	600	357	NR	730	13	NR	860	0	NR	990	0	NR
475	57	NR	605	349	NR	735	11	NR	865	0	NR	995	0	NR
480	51	NR	610	371	NR	740	9	NR	870	0	NR	1000	0	NR
485	51	NR	615	387	NR	745	8	NR	875	0	NR			

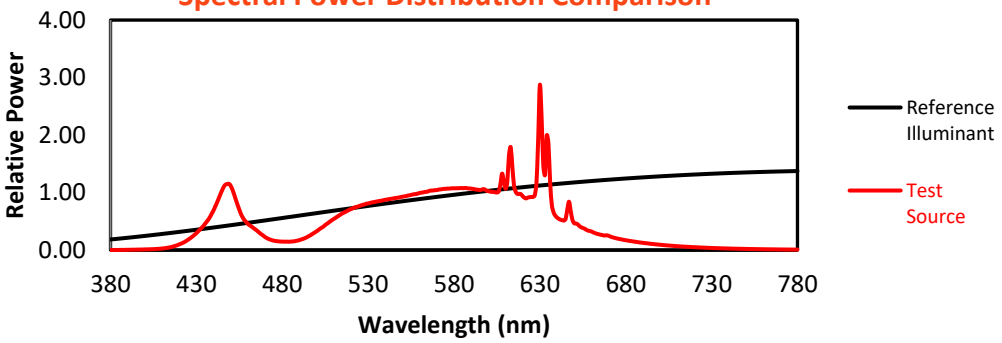
REPORT NUMBER: SP1-2506-472-3

TM-30-18

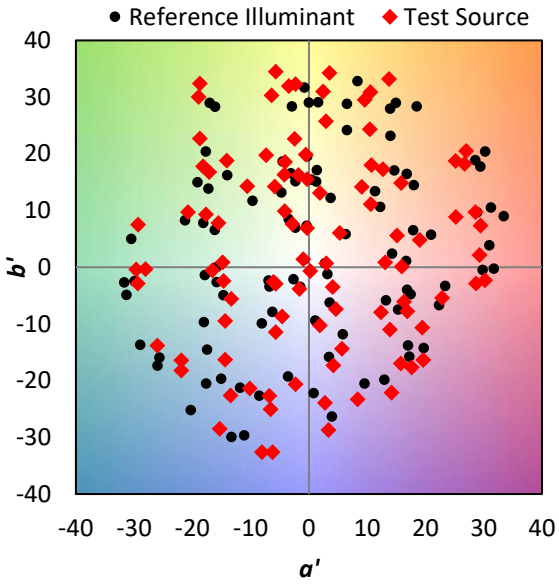
Summary

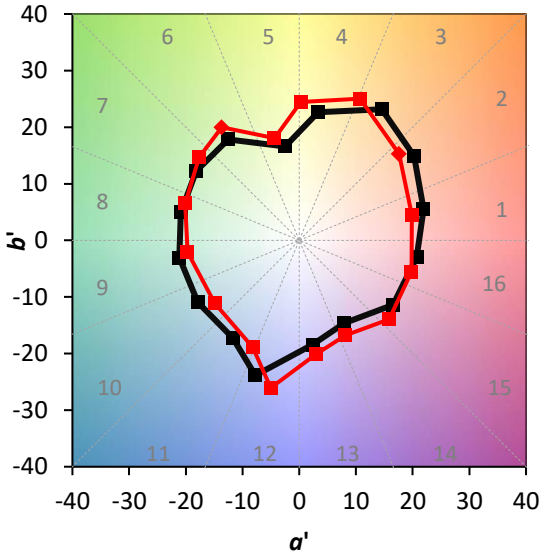
R_f = 80.1
R_g = 101
CIE R_a = 82.1
R_9 = 27.6

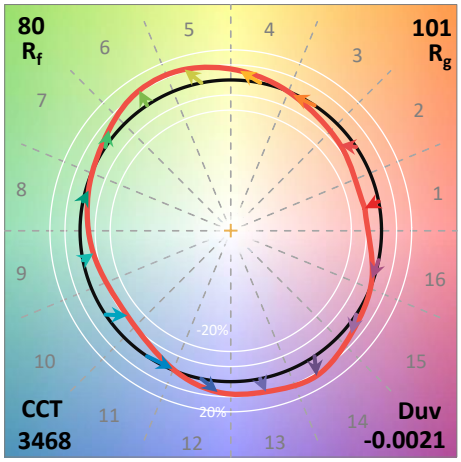
Spectral Power Distribution Comparison

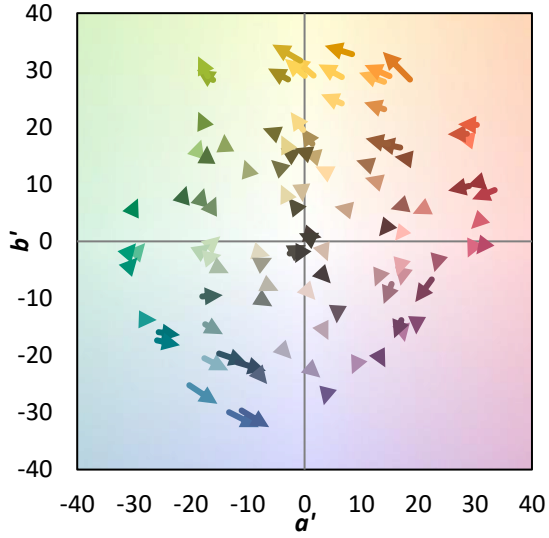


Color Vector Graphics









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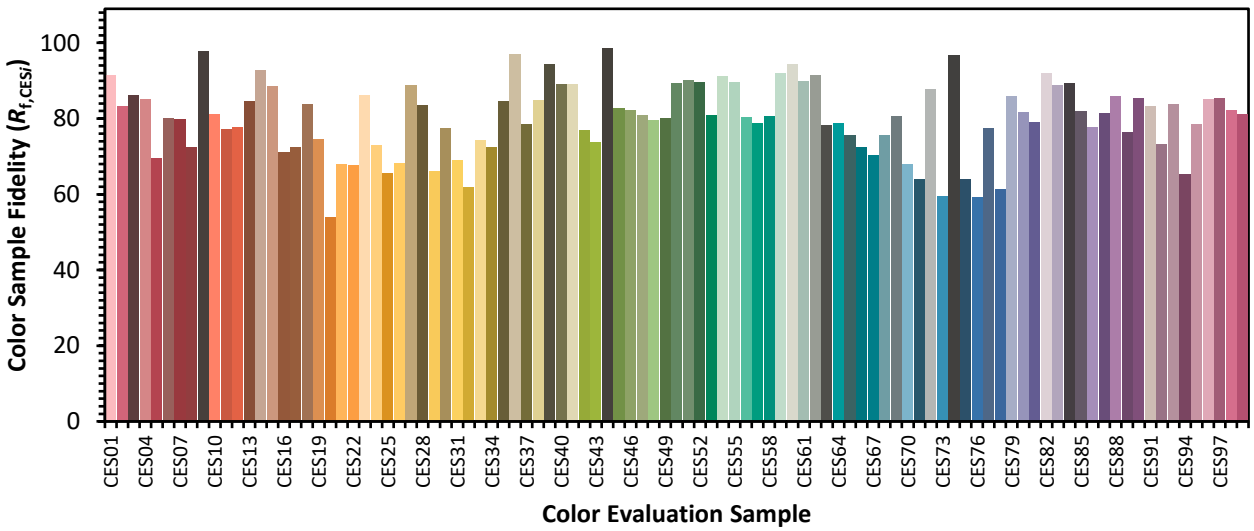
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 68	CES51 = 90	CES76 = 59
CES02 = 62	CES27 = 89	CES52 = 90	CES77 = 78
CES03 = 31	CES28 = 84	CES53 = 81	CES78 = 61
CES04 = 70	CES29 = 66	CES54 = 91	CES79 = 86
CES05 = 49	CES30 = 77	CES55 = 90	CES80 = 82
CES06 = 51	CES31 = 69	CES56 = 80	CES81 = 79
CES07 = 42	CES32 = 62	CES57 = 79	CES82 = 92
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 72	CES59 = 92	CES84 = 89
CES10 = 75	CES35 = 85	CES60 = 94	CES85 = 82
CES11 = 58	CES36 = 97	CES61 = 90	CES86 = 78
CES12 = 64	CES37 = 79	CES62 = 92	CES87 = 82
CES13 = 43	CES38 = 85	CES63 = 78	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 79	CES89 = 76
CES15 = 71	CES40 = 89	CES65 = 76	CES90 = 85
CES16 = 47	CES41 = 89	CES66 = 73	CES91 = 83
CES17 = 49	CES42 = 77	CES67 = 70	CES92 = 73
CES18 = 56	CES43 = 74	CES68 = 76	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 81	CES94 = 65
CES20 = 66	CES45 = 83	CES70 = 68	CES95 = 79
CES21 = 86	CES46 = 82	CES71 = 64	CES96 = 85
CES22 = 78	CES47 = 81	CES72 = 88	CES97 = 85
CES23 = 92	CES48 = 80	CES73 = 60	CES98 = 82
CES24 = 91	CES49 = 80	CES74 = 97	CES99 = 81
CES25 = 72	CES50 = 89	CES75 = 64	



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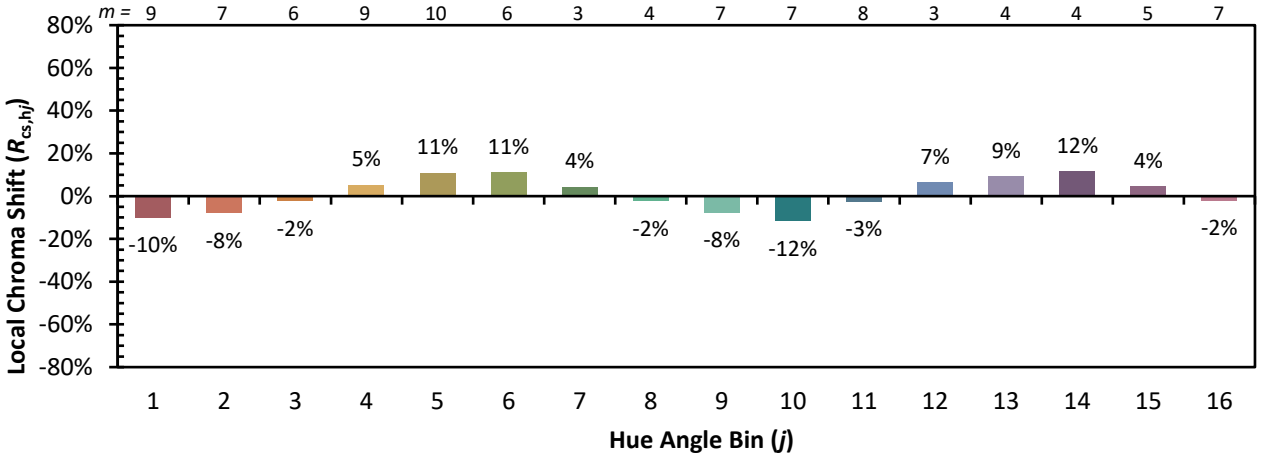
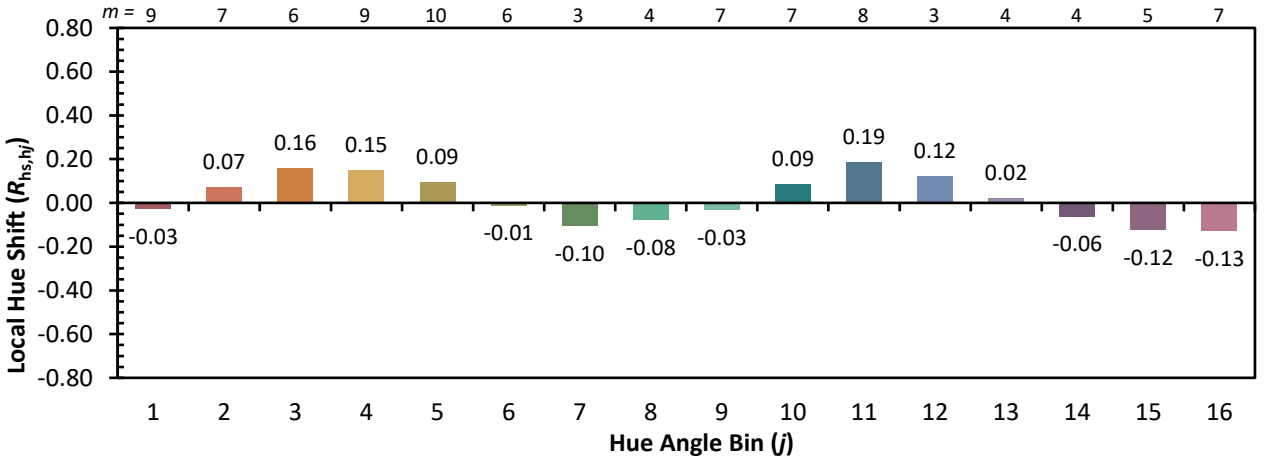
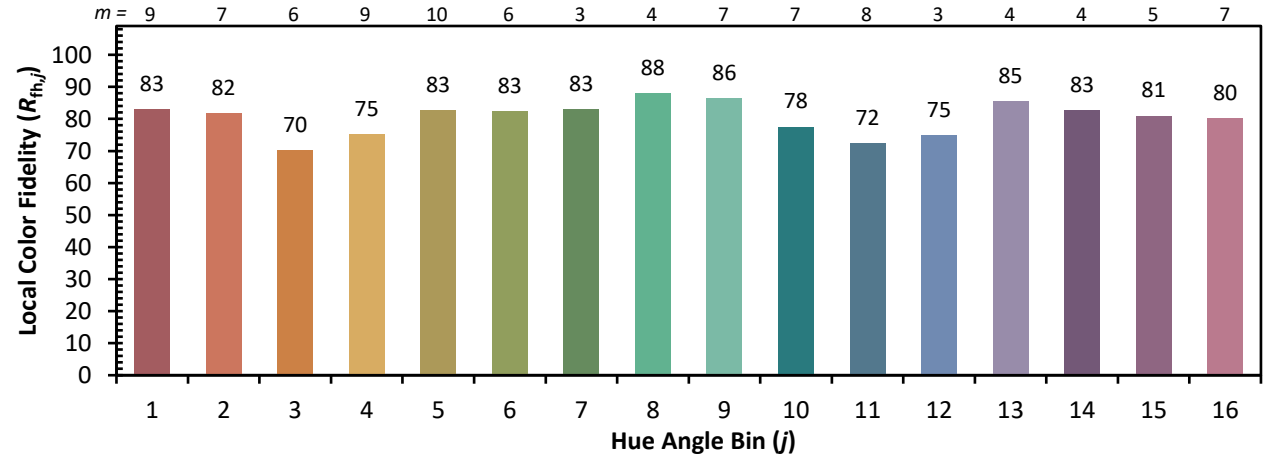
Color Rendition by Hue-Angle Bin







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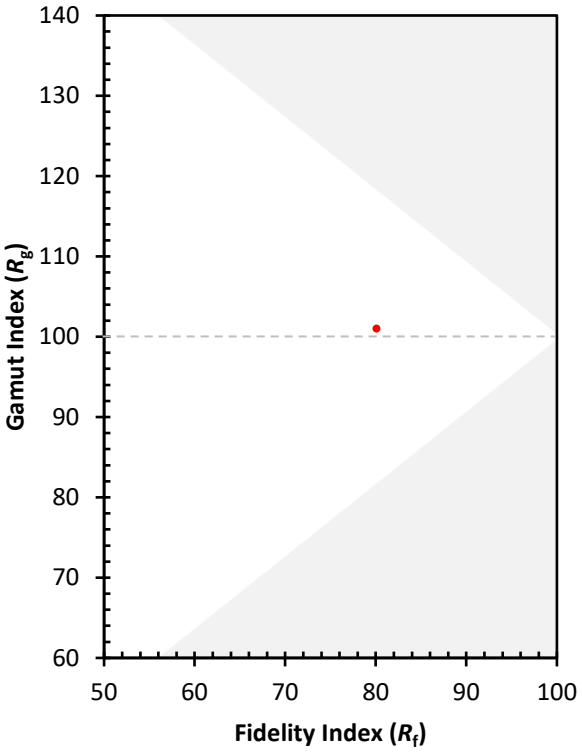
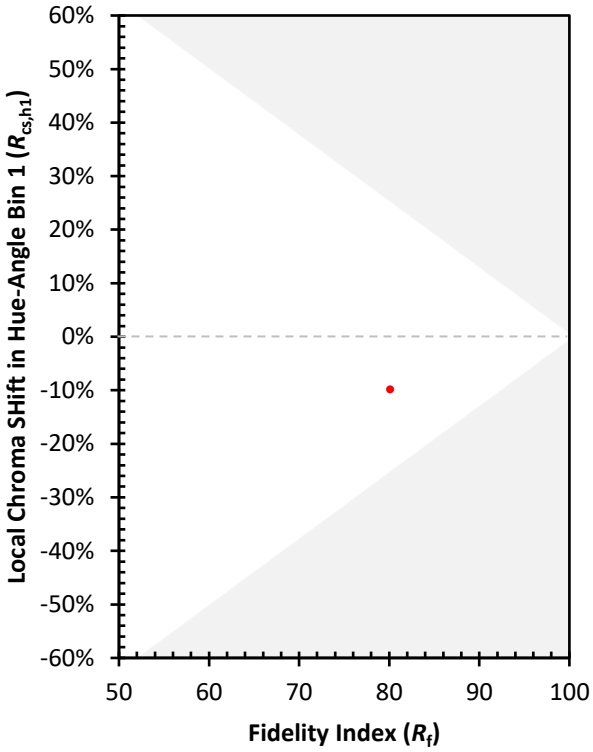
Measure Comparisons





(END OF REPORT)