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: P1444607

Luminaire Tested: EHBR1-36-UNV-TA-L850-UPL36

Issue Date: 5/1/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1444607
	REPORT IS A COMBINATION OF REPORTS P1444349 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	5/1/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-36-UNV-TA-L850-UPL36
Description:	Elevate Round Highbay at, 36000 lumens, 5000K 80CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	38981.8 lumens
Efficiency:	N/A
Efficacy:	177.4 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):	219.8
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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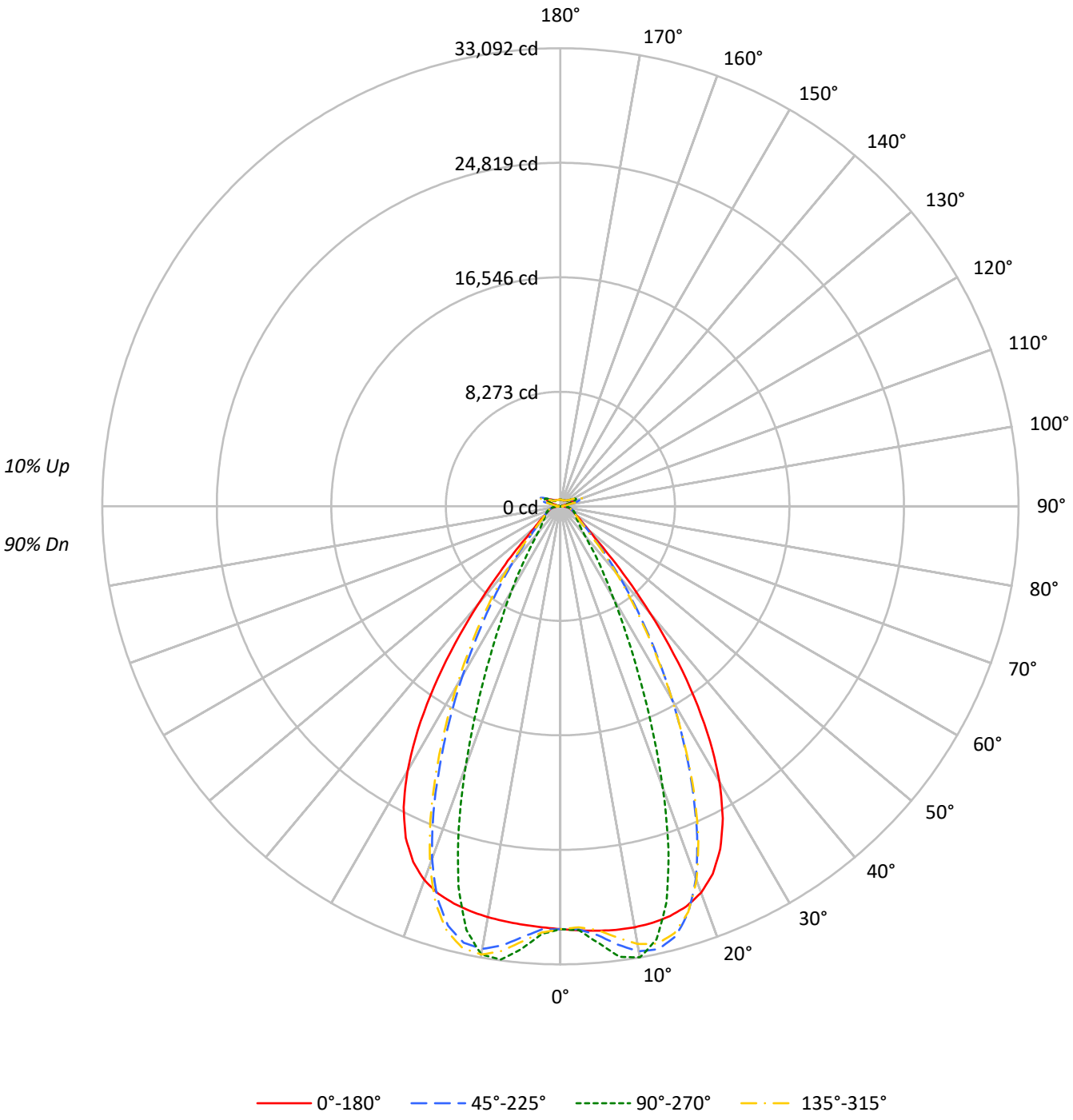
Luminous Intensity Polar Plot



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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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	109	106	103	100	106	103	100	98	97	95	93	92	90	88	87	85	84	82
2	103	97	92	88	99	94	90	86	89	86	83	85	82	79	80	78	76	74
3	96	89	83	78	93	86	81	77	82	78	74	79	75	72	75	72	69	67
4	91	82	75	70	88	80	74	69	76	71	67	73	69	66	70	67	64	62
5	85	76	69	64	83	74	68	63	71	66	62	68	64	60	66	62	59	57
6	80	70	63	58	78	69	62	58	66	61	57	64	59	55	62	57	54	53
7	76	65	59	54	74	64	58	53	62	56	52	60	55	51	58	54	50	49
8	72	61	54	50	70	60	54	49	58	53	49	56	51	48	55	50	47	45
9	68	57	51	46	66	56	50	46	55	49	45	53	48	45	51	47	44	42
10	64	54	47	43	63	53	47	43	51	46	42	50	45	42	49	44	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	143448	143448	143448	143448
5°	144142	148345	142125	150289
10°	145346	155751	141860	154720
15°	146058	141187	141612	135502
20°	144548	105180	139818	97317
25°	136821	66520	132299	60355
30°	119523	39974	114894	36532
35°	91986	25083	86694	22220
40°	58189	15735	53238	14785
45°	29992	12258	29495	12057
50°	17584	10903	17045	10733
55°	13471	10315	12973	10223
60°	11399	10537	10913	10400
65°	10705	11004	10296	10630
70°	10459	11523	9939	11089
75°	11183	12221	10580	11680
80°	11573	13532	10493	12352
85°	10899	13058	8807	11181

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
Vertical Angle: 45°
Luminance: 45899 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3010.4	7.7
10°-20°	8468.5	21.7
20°-30°	9645.0	24.7
30°-40°	6932.4	17.8
40°-50°	3197.2	8.2
50°-60°	1530.0	3.9
60°-70°	1116.4	2.9
70°-80°	848.1	2.2
80°-90°	392.2	1.0
90°-100°	107.7	0.3
100°-110°	639.5	1.6
110°-120°	1181.8	3.0
120°-130°	717.7	1.8
130°-140°	454.4	1.2
140°-150°	331.5	0.9
150°-160°	227.5	0.6
160°-170°	135.4	0.3
170°-180°	46.0	0.1
0°-30°	21124.0	54.2
0°-40°	28056.4	72.0
0°-60°	32783.6	84.1
0°-90°	35140.2	90.1
90°-120°	1929.0	4.9
90°-150°	3432.6	8.8
90°-180°	3842.0	9.9
0°-180°	38981.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	30546	30546	30546	30546	30546	
5°	30777	31674	30346	32089	30777	2941
15°	30642	29620	29709	28428	30642	8634
25°	27323	13284	26420	12053	27323	12386
35°	16883	4604	15912	4078	16883	10361
45°	4853	1983	4772	1951	4853	4127
55°	1820	1394	1753	1382	1820	1680
65°	1117	1149	1075	1110	1117	1116
75°	788	861	745	823	788	819
85°	375	449	303	384	375	352
90°	111	138	39	45	111	68
95°	49	55	50	55	49	47
105°	228	296	152	296	228	303
115°	1029	1252	1078	1252	1029	949
125°	766	811	868	812	766	698
135°	592	532	639	535	592	463
145°	518	508	552	513	518	327
155°	478	482	510	486	478	222
165°	470	472	488	474	470	134
175°	478	483	487	484	478	46
180°	484	484	484	484	484	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30662.9	30660.3	30660.0	30657.8	30657.2	30657.2	30656.2	30653.7	30652.1	30648.7	30644.6
5°	30776.7	30775.3	30776.1	30776.4	30774.2	30769.4	30761.9	30752.8	30741.2	30730.4	30720.7
7.5°	30864.7	30866.7	30869.5	30868.9	30862.2	30851.0	30835.8	30827.1	30832.2	30848.8	30887.0
10°	*30880.7*	*30893.8*	*30898.9*	*30897.4*	*30884.0*	*30874.4*	*30878.1*	*30910.4*	*30974.9*	*31060.8*	*31178.3*
12.5°	30818.1	30834.2	30833.6	30828.3	30815.4	30828.5	30875.4	30971.7	31109.8	31279.3	31478.1
15°	30642.3	30663.1	30657.2	30650.3	30641.7	30684.8	30778.5	30945.8	31159.1	31398.0	31642.7
17.5°	30300.9	30326.1	30313.9	30306.0	30298.8	30379.6	30540.5	30785.5	31054.1	31324.5	31556.3
20°	29708.9	29725.7	29696.6	29683.0	29694.5	29852.9	30089.8	30402.7	30685.9	30941.5	31100.0
22.5°	28742.6	28763.6	28709.0	28702.6	28770.1	29013.4	29313.2	29662.9	29928.9	30131.6	30192.6
25°	27323.1	27343.6	27278.7	27317.5	27432.3	27763.6	28120.7	28494.8	28721.8	28871.9	28830.5
27.5°	25406.8	25425.7	25364.1	25443.4	25624.8	26060.2	26480.5	26886.2	27088.6	27193.8	27060.5
30°	22990.2	23029.3	22956.5	23067.1	23344.1	23909.3	24390.9	24845.9	25047.7	25127.7	24920.3
32.5°	20119.9	20175.5	20095.3	20259.9	20646.4	21325.4	21872.3	22380.8	22604.0	22695.3	22461.1
35°	16882.7	16962.4	16870.3	17117.4	17594.1	18350.1	18955.8	19523.6	19787.8	19917.4	19681.3
37.5°	13452.9	13528.9	13479.1	13808.7	14332.1	15115.8	15734.0	16346.5	16644.9	16839.3	16653.2
40°	10085.6	10155.2	10192.9	10569.7	11062.1	11800.8	12394.6	13000.6	13334.4	13578.3	13463.6
42.5°	7118.5	7188.6	7316.7	7680.3	8090.9	8702.4	9211.0	9755.1	10074.1	10334.3	10290.1
45°	4852.6	4933.9	5094.5	5392.2	5689.2	6127.8	6501.3	6924.5	7185.0	7423.4	7426.2
47.5°	3400.5	3457.6	3601.0	3804.4	3998.0	4547.1	4569.7	4777.6	4952.7	5130.9	5154.0
50°	2620.6	2655.1	2731.1	2844.5	2954.2	3096.7	3227.2	3377.9	3485.7	3583.4	3606.7
52.5°	2154.0	2175.8	2214.5	2275.9	2339.6	2417.1	2486.9	2569.7	2628.4	2680.6	2691.6
55°	1820.5	1838.6	1896.2	1907.9	1980.7	1994.7	2025.8	2076.1	2110.2	2141.6	2149.3
57.5°	1568.8	1582.0	1594.2	1620.4	1642.8	1675.4	1701.6	1737.7	1759.3	1781.9	1783.8
60°	1370.3	1379.8	1388.5	1406.6	1421.8	1444.5	1462.6	1487.2	1502.6	1519.6	1521.5
62.5°	1222.5	1229.3	1235.1	1247.1	1258.0	1275.4	1289.7	1310.3	1324.6	1337.8	1340.7
65°	1117.4	1122.4	1126.2	1135.2	1144.7	1159.6	1172.6	1189.3	1199.9	1210.0	1212.1
67.5°	1024.4	1029.1	1033.1	1041.3	1047.9	1058.9	1067.6	1080.2	1088.2	1096.2	1096.4
70°	917.7	922.2	925.1	932.9	938.2	947.7	954.7	966.0	974.1	983.1	985.3
72.5°	844.0	846.5	850.6	857.5	864.9	875.1	884.4	896.2	906.2	915.4	919.3
75°	787.8	790.8	793.5	799.5	804.6	813.1	820.2	830.9	839.6	849.5	854.4
77.5°	706.7	710.3	712.5	718.5	723.0	731.2	736.4	746.0	753.0	762.1	766.6
80°	608.8	612.2	613.7	619.3	622.9	630.4	635.5	644.9	650.8	659.8	665.1
82.5°	500.3	503.4	504.3	509.7	511.6	517.9	521.6	531.0	538.3	550.1	558.2
85°	374.6	375.7	377.6	376.2	383.8	384.3	392.8	394.4	405.8	408.7	421.6
87.5°	229.1	232.4	234.1	239.3	241.5	246.7	248.4	253.9	257.0	263.3	266.3
90°	110.9	117.1	119.7	127.0	129.6	135.9	138.1	145.4	148.0	155.3	159.6
92.5°	43.3	46.3	49.0	52.3	55.1	58.7	62.0	65.1	68.1	71.6	77.5
95°	49.4	52.7	56.1	59.4	62.8	66.2	69.5	72.9	76.2	79.6	89.3
97.5°	62.2	65.1	68.0	70.9	73.8	76.7	79.6	82.5	85.4	88.2	99.8
100°	81.0	83.5	85.9	88.4	90.9	93.3	95.8	98.2	100.7	103.1	124.7
102.5°	134.6	143.3	152.0	160.7	169.3	178.0	186.7	195.4	204.0	212.8	258.4
105°	228.4	252.0	275.7	299.3	323.0	346.6	370.3	393.7	417.4	440.9	515.5
107.5°	390.9	434.6	478.4	522.1	565.9	609.5	653.3	696.9	740.5	784.1	859.7
110°	722.9	757.9	793.2	828.4	863.5	898.9	934.0	968.9	1004.2	1039.3	1094.6

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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°	975.0	990.9	1006.8	1022.8	1038.8	1054.5	1070.4	1086.3	1102.2	1117.9	1157.5
115°	1028.6	1034.2	1039.9	1045.3	1051.0	1056.5	1062.1	1067.6	1073.1	1078.5	1105.3
117.5°	998.5	997.5	996.6	995.7	994.7	993.6	992.6	991.5	990.4	989.3	1004.4
120°	930.8	925.9	921.2	916.2	911.3	906.3	901.4	896.4	891.4	886.3	892.8
122.5°	845.2	839.5	833.8	827.8	822.0	816.0	810.1	803.9	798.0	792.0	794.6
125°	766.1	760.2	754.6	748.5	742.5	736.4	730.5	724.3	718.3	712.0	713.3
127.5°	697.4	693.4	689.4	684.9	680.7	676.4	671.9	667.5	663.1	658.5	658.9
130°	652.9	649.3	645.6	641.7	637.9	633.9	629.8	625.7	621.8	617.6	618.2
132.5°	616.6	614.2	611.6	608.8	606.0	602.8	600.0	596.8	593.8	590.8	591.6
135°	592.3	590.0	587.7	585.0	582.5	579.5	576.8	573.7	571.0	568.0	569.0
137.5°	571.8	569.6	567.5	565.0	562.6	559.9	557.4	554.7	552.0	549.2	550.2
140°	553.0	551.1	549.1	546.8	544.7	542.4	539.9	537.4	534.9	532.3	533.7
142.5°	531.9	530.3	528.9	527.1	525.4	523.3	521.4	519.2	517.4	515.2	517.0
145°	518.2	516.9	515.6	514.1	512.6	510.8	509.2	507.2	505.7	503.9	505.8
147.5°	506.0	504.9	504.1	502.7	501.7	500.1	498.8	497.1	495.9	494.4	496.2
150°	495.5	494.5	493.6	492.4	491.2	489.9	488.6	487.2	485.9	484.4	486.2
152.5°	484.4	483.3	482.5	481.3	480.3	478.8	477.8	476.3	475.1	473.8	475.4
155°	477.7	476.7	475.7	474.6	473.6	472.3	471.1	469.8	468.7	467.4	468.6
157.5°	473.6	472.7	472.0	470.9	470.2	469.2	468.4	467.3	466.4	465.5	466.5
160°	471.7	470.9	470.2	469.2	468.4	467.4	466.6	465.5	464.8	463.8	464.6
162.5°	470.1	469.2	468.4	467.6	466.8	465.7	464.9	464.1	463.2	462.3	463.3
165°	470.3	469.8	469.2	468.7	468.2	467.6	467.0	466.3	465.8	465.1	465.7
167.5°	474.4	473.8	473.1	472.3	471.6	470.8	470.0	469.3	468.6	467.8	468.4
170°	475.8	475.2	474.9	474.5	474.1	473.7	473.4	472.9	472.4	472.0	472.5
172.5°	478.3	477.9	477.6	477.4	476.9	476.7	476.4	476.0	475.8	475.3	476.1
175°	478.3	477.9	477.8	477.6	477.4	477.1	477.0	476.8	476.8	476.4	476.9
177.5°	481.5	481.3	481.3	481.2	481.2	481.1	481.0	480.8	480.7	480.7	481.0
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

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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°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30641.7	30638.0	30632.8	30626.5	30620.9	30614.5	30599.2	30594.6	30599.7	30603.1	30610.2
5°	30714.5	30716.6	30717.4	30731.4	30743.4	30773.4	31008.4	31101.8	31174.0	31219.9	31289.5
7.5°	30934.0	31004.6	31074.5	31168.5	31249.5	31359.0	31770.1	31945.2	32069.6	32159.0	32269.1
10°	*31306.0*	*31460.2*	*31604.8*	*31774.2*	*31919.7*	*32086.5*	*32469.2*	*32639.7*	*32747.4*	*32825.7*	*32898.9*
12.5°	31680.7	31894.6	32087.8	32276.3	32434.0	32578.4	32713.1	32772.7	32777.8	32780.3	32741.5
15°	31875.9	32080.3	32250.7	32375.3	32467.8	32508.9	32277.1	32155.6	32001.9	31875.3	31667.2
17.5°	31752.7	31875.3	31948.9	31941.6	31903.4	31775.2	31118.9	30757.9	30399.5	30076.5	29652.9
20°	31205.1	31195.8	31131.7	30950.5	30732.2	30392.6	29267.3	28618.0	27990.3	27439.0	26770.1
22.5°	30186.4	30026.1	29802.6	29411.9	28977.7	28384.3	26771.7	25816.7	24942.8	24170.8	23306.0
25°	28710.2	28380.5	27968.3	27347.9	26673.2	25807.9	23820.3	22632.4	21583.2	20673.2	19675.4
27.5°	26821.2	26324.4	25720.4	24861.7	23947.7	22839.0	20635.4	19324.5	18198.2	17222.5	16160.5
30°	24584.7	23938.6	23158.6	22092.8	20990.3	19732.9	17497.9	16170.2	15030.1	14026.4	12963.6
32.5°	22057.2	21300.5	20386.4	19190.3	17998.0	16705.1	14546.8	13261.4	12172.4	11206.9	10245.0
35°	19269.6	18458.1	17491.0	16271.1	15085.8	13828.9	11848.4	10689.5	9727.8	8874.4	8097.6
37.5°	16279.3	15482.5	14563.4	13413.5	12314.5	11175.5	9466.6	8495.5	7688.5	6980.2	6380.4
40°	13170.3	12473.0	11677.7	10683.7	9745.7	8797.2	7394.4	6623.6	5986.7	5446.4	4996.9
42.5°	10099.3	9558.9	8949.0	8163.5	7445.8	6723.5	5643.9	5072.7	4601.0	4212.1	3894.3
45°	7327.4	6965.9	6556.9	6010.8	5514.1	5010.3	4241.9	3840.6	3533.4	3282.6	3070.5
47.5°	5122.2	4912.6	4899.7	4395.1	4030.9	3722.8	3227.8	2974.3	2786.0	2634.1	2499.9
50°	3597.2	3495.7	3369.7	3189.7	3020.6	2846.4	2544.9	2391.7	2281.3	2189.3	2104.4
52.5°	2689.2	2636.5	2569.3	2473.8	2382.2	2284.3	2093.4	1995.9	1961.2	1875.5	1808.3
55°	2147.9	2117.7	2079.5	2023.4	1967.7	1945.4	1781.8	1709.4	1663.5	1629.6	1593.6
57.5°	1784.1	1761.6	1739.0	1700.9	1668.7	1629.6	1542.8	1505.6	1478.4	1458.5	1433.4
60°	1521.8	1508.4	1495.7	1473.4	1455.9	1434.9	1379.8	1358.8	1344.5	1332.6	1316.6
62.5°	1343.2	1336.3	1329.7	1317.8	1309.0	1297.6	1259.9	1249.9	1242.7	1236.7	1227.0
65°	1214.3	1209.3	1205.6	1197.7	1193.4	1186.7	1154.3	1147.5	1143.1	1140.9	1135.2
67.5°	1097.1	1091.9	1089.5	1083.8	1082.1	1077.9	1051.3	1047.6	1046.1	1046.8	1044.8
70°	987.5	985.3	986.5	985.6	988.1	988.9	972.8	972.7	974.4	977.8	978.2
72.5°	921.9	921.9	923.0	923.6	926.0	927.2	913.8	913.1	913.9	916.5	916.6
75°	859.4	860.4	863.8	864.9	867.7	868.3	850.7	848.6	848.7	851.1	850.3
77.5°	772.9	776.6	783.1	786.4	791.9	792.9	773.1	770.7	770.8	773.2	771.2
80°	674.7	681.9	692.1	699.3	707.6	711.1	690.6	685.8	681.3	680.6	676.5
82.5°	570.4	579.2	591.5	598.0	606.9	608.9	574.8	568.4	564.6	564.9	561.2
85°	435.5	442.1	453.3	456.9	462.5	462.0	423.1	406.4	410.8	403.9	409.3
87.5°	273.2	277.0	284.1	285.0	287.5	287.0	247.8	240.1	237.8	238.0	235.2
90°	168.2	173.0	181.2	183.6	189.9	191.5	162.0	160.6	155.9	155.5	149.6
92.5°	83.8	89.6	95.7	101.6	107.8	113.7	116.1	121.0	115.1	108.6	102.8
95°	99.1	108.9	118.8	128.6	138.4	148.2	158.0	167.9	158.7	149.5	140.3
97.5°	111.4	123.0	134.5	146.2	157.8	169.3	180.9	192.5	182.7	172.6	162.8
100°	146.4	168.0	189.6	211.2	232.8	254.4	276.1	297.7	278.8	259.5	240.5
102.5°	304.3	350.4	396.3	442.1	488.0	534.1	580.1	626.1	582.5	538.7	495.0
105°	590.0	664.4	738.9	813.0	887.5	961.9	1036.7	1111.2	1041.4	971.7	901.9
107.5°	935.2	1010.8	1086.1	1161.5	1237.2	1312.6	1388.6	1464.2	1396.1	1327.8	1259.9
110°	1149.6	1204.7	1259.9	1314.8	1369.9	1425.0	1480.8	1536.0	1495.0	1454.2	1413.3

TEST NUMBER: P1444607
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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1196.7	1236.3	1275.6	1315.0	1354.2	1393.7	1434.0	1473.7	1453.1	1432.5	1412.1
115°	1131.8	1158.5	1185.0	1211.5	1238.1	1264.6	1292.4	1319.3	1312.7	1306.0	1299.6
117.5°	1019.2	1033.9	1048.9	1063.8	1078.5	1093.3	1109.9	1124.9	1126.0	1127.2	1128.5
120°	899.1	905.5	911.8	918.0	924.2	930.4	938.7	945.2	950.8	956.2	961.8
122.5°	797.0	799.4	801.7	804.2	806.5	808.8	813.4	816.3	820.1	823.9	827.9
125°	714.5	715.8	717.0	718.2	719.2	720.5	724.2	725.9	726.2	726.4	726.7
127.5°	659.2	659.5	659.7	660.0	660.1	660.4	663.3	664.1	661.8	659.6	657.2
130°	618.8	619.5	620.1	620.7	621.3	622.0	625.5	626.8	622.8	618.5	614.5
132.5°	592.3	593.2	593.9	595.0	595.7	596.4	600.4	601.8	597.2	592.4	587.7
135°	570.0	571.0	572.1	573.1	574.0	575.2	579.6	581.4	577.1	572.3	567.9
137.5°	551.2	552.1	553.2	554.4	555.5	556.5	561.4	563.2	559.8	555.9	552.4
140°	534.9	536.1	537.4	538.8	540.1	541.6	546.7	549.0	546.3	543.4	540.5
142.5°	518.4	520.4	522.2	524.1	525.9	528.0	534.1	536.8	534.8	532.6	530.5
145°	507.6	509.9	511.9	514.1	516.2	518.5	525.2	528.6	527.3	525.8	524.5
147.5°	497.7	499.8	501.6	503.6	505.6	508.0	515.0	518.1	517.5	516.6	515.7
150°	488.0	490.1	491.9	494.0	496.2	498.5	506.3	509.7	509.0	508.4	507.5
152.5°	477.1	478.9	480.6	482.5	484.4	486.5	495.6	499.1	498.6	497.7	497.1
155°	470.0	471.3	472.7	474.2	475.7	477.4	487.0	490.3	490.0	489.6	489.2
157.5°	467.4	468.3	469.1	470.1	471.3	472.4	482.1	485.4	485.0	484.7	484.4
160°	465.3	466.1	466.7	467.6	468.3	469.2	479.1	482.2	481.9	481.5	481.1
162.5°	464.2	465.4	466.3	467.3	468.3	469.4	479.5	483.0	482.4	481.8	481.2
165°	466.3	466.9	467.4	468.2	468.7	469.4	478.8	481.5	481.3	480.9	480.5
167.5°	469.0	469.7	470.4	471.1	471.8	472.7	481.4	484.2	483.9	483.5	483.2
170°	473.0	473.6	474.0	474.7	475.4	476.2	483.5	485.6	485.3	484.8	484.2
172.5°	476.7	477.5	478.1	478.9	479.5	480.3	486.5	488.6	488.3	487.9	487.2
175°	477.5	477.9	478.5	479.2	479.6	480.1	485.0	486.6	486.5	486.3	486.0
177.5°	481.4	481.8	482.2	482.7	483.1	483.6	486.5	487.5	487.4	487.4	487.3
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444607
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CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	*30546.2*
2.5°	30611.7	30622.4	30624.1	30636.6	30635.6	30650.5	30648.2	30660.3	30653.3	30663.3	*30654.8*
5°	31330.7	31395.9	31430.0	31493.6	31513.8	31570.7	31586.7	31638.7	31640.9	31682.1	*31672.7*
7.5°	32347.2	32443.3	32500.4	32579.0	32618.9	32684.4	32713.3	32761.7	32777.4	32815.9	*32818.8*
10°	*32954.2*	*33000.8*	*33033.4*	*33055.4*	*33075.5*	*33084.8*	*33095.8*	*33092.9*	*33095.8*	*33091.5*	*33100.9*
12.5°	32715.5	32647.3	32602.2	32516.9	32467.4	32373.1	32326.8	32236.1	32203.2	32125.3	*32114.1*
15°	31506.3	31268.8	31101.0	30856.9	30703.6	30463.4	30322.9	30106.3	30007.4	29835.2	*29790.1*
17.5°	29302.3	28861.5	28520.4	28082.7	27778.9	27369.9	27112.7	26774.1	26588.6	26315.6	*26221.0*
20°	26212.6	25560.3	25048.5	24438.8	24002.6	23458.9	23110.9	22672.0	22417.2	22081.8	*21945.9*
22.5°	22585.0	21772.9	21133.7	20413.5	19887.1	19281.3	18864.4	18389.4	18112.2	17747.9	*17586.6*
25°	18846.2	17950.5	17240.0	16481.2	15924.9	15317.7	14900.7	14434.1	14147.3	13801.4	*13641.1*
27.5°	15270.2	14363.7	13677.0	12971.5	12461.2	11913.3	11537.0	11129.7	10875.1	10579.8	*10429.0*
30°	12114.5	11315.0	10730.6	10145.1	9720.7	9275.7	8963.0	8625.4	8402.0	8149.3	*8005.6*
32.5°	9543.6	8926.4	8468.7	8004.1	7656.8	7284.9	7014.6	6716.8	6515.3	6289.5	*6159.4*
35°	7558.4	7078.8	6713.8	6331.4	6033.0	5716.2	5478.2	5221.0	5040.2	4845.8	*4733.4*
37.5°	5972.0	5590.5	5290.2	4972.5	4727.4	4465.0	4376.6	4081.6	3894.1	3739.0	*3631.6*
40°	4686.8	4383.5	4135.0	3892.1	3692.2	3493.2	3333.4	3175.8	3054.8	2943.9	*2867.1*
42.5°	3660.0	3440.2	3258.8	3080.8	2935.0	2790.0	2674.4	2565.7	2484.2	2411.7	*2362.2*
45°	2909.5	2758.4	2632.3	2507.0	2404.1	2307.3	2229.4	2160.1	2107.5	2063.9	*2033.0*
47.5°	2390.3	2286.8	2197.8	2113.3	2043.4	1980.0	1927.8	1910.8	1854.2	1816.0	*1801.6*
50°	2031.4	1968.9	1901.3	1838.9	1792.3	1745.9	1712.0	1678.9	1657.7	1640.1	*1634.8*
52.5°	1763.6	1715.7	1678.2	1638.6	1607.9	1574.8	1551.5	1529.4	1517.8	1508.6	*1507.5*
55°	1564.4	1531.0	1506.1	1479.6	1461.1	1441.8	1429.7	1418.0	1412.9	1408.3	*1408.7*
57.5°	1413.7	1391.4	1375.3	1358.0	1348.1	1338.7	1335.7	1332.8	1334.4	1335.0	*1337.7*
60°	1304.0	1289.4	1279.2	1269.4	1265.2	1262.2	1264.5	1267.1	1272.4	1276.8	*1280.6*
62.5°	1219.8	1211.5	1206.5	1201.2	1200.8	1201.0	1205.6	1210.0	1216.7	1221.7	*1225.4*
65°	1133.3	1128.4	1126.9	1123.4	1125.2	1126.2	1131.6	1135.0	1141.7	1145.6	*1150.4*
67.5°	1045.7	1044.6	1045.6	1045.6	1048.7	1051.2	1056.4	1060.3	1066.0	1069.6	*1073.4*
70°	981.1	981.5	983.9	984.3	987.6	989.4	994.0	996.4	1001.5	1004.6	*1009.3*
72.5°	918.2	917.3	917.7	916.3	917.4	917.0	919.5	920.7	925.0	927.4	*933.1*
75°	851.3	848.5	847.8	844.8	844.9	842.7	843.8	843.6	846.4	847.6	*851.6*
77.5°	770.5	765.8	763.4	758.4	758.2	756.4	758.4	759.6	764.6	767.0	*771.6*
80°	673.8	666.4	662.9	657.0	658.0	657.7	662.7	666.5	672.6	673.7	*679.5*
82.5°	560.0	552.4	548.8	543.1	544.4	544.6	549.1	549.9	555.2	557.4	*564.2*
85°	401.0	403.9	395.9	396.4	394.8	397.9	401.0	404.8	409.2	416.6	*422.3*
87.5°	236.1	235.2	238.0	238.3	242.4	244.5	251.1	254.8	262.2	268.0	*278.4*
90°	147.8	142.1	142.4	139.1	141.2	138.0	140.0	136.7	139.6	138.4	*142.6*
92.5°	96.2	90.3	83.7	77.7	71.2	65.4	62.0	59.5	56.2	53.8	*50.4*
95°	131.1	122.0	112.9	103.6	94.5	85.4	82.0	78.7	75.3	72.0	*68.6*
97.5°	152.9	143.1	133.3	123.4	113.6	103.7	101.5	99.3	97.0	94.8	*92.6*
100°	221.4	202.4	183.5	164.3	145.4	126.4	124.7	122.9	121.1	119.3	*117.5*
102.5°	451.5	407.8	364.3	320.6	277.1	233.5	225.9	218.4	210.7	203.1	*195.6*
105°	832.0	762.2	692.5	622.8	553.1	483.4	462.7	441.5	420.8	400.0	*379.3*
107.5°	1191.8	1123.7	1055.8	987.8	919.8	851.8	818.9	786.1	753.0	720.2	*687.3*
110°	1372.1	1331.4	1290.6	1249.6	1208.9	1168.1	1136.7	1105.5	1073.8	1042.5	*1011.3*

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	1391.6	1371.2	1350.6	1330.3	1310.1	1289.5	1274.2	1259.0	1243.7	1228.4	*1212.9*
115°	1293.0	1286.5	1279.9	1273.6	1267.2	1260.8	1259.7	1258.6	1257.4	1256.4	*1255.5*
117.5°	1129.6	1130.8	1131.9	1133.3	1134.6	1135.9	1144.1	1152.1	1160.4	1168.7	*1177.2*
120°	967.3	972.8	978.3	984.1	989.6	995.3	1006.1	1017.2	1028.2	1039.4	*1050.5*
122.5°	831.7	835.5	839.3	843.3	847.1	851.1	861.9	872.9	883.7	894.8	*905.9*
125°	726.7	726.9	727.1	727.2	727.5	727.9	736.7	745.5	754.6	763.9	*772.9*
127.5°	654.8	652.4	650.1	647.7	645.4	643.2	648.3	653.7	658.9	664.3	*669.8*
130°	610.3	606.2	601.7	597.8	593.4	589.4	591.4	593.4	595.6	597.7	*600.1*
132.5°	582.7	578.0	573.0	568.1	563.1	558.3	558.1	558.1	558.0	558.2	*558.5*
135°	563.2	558.6	553.9	549.3	544.5	540.1	538.8	537.6	536.4	535.3	*534.4*
137.5°	548.8	545.1	541.3	537.8	533.8	530.2	528.3	526.8	525.1	523.8	*522.3*
140°	537.4	534.7	531.5	528.6	525.5	522.8	521.1	519.9	518.4	517.4	*516.1*
142.5°	528.2	526.0	523.8	521.7	519.5	517.4	515.8	514.6	513.2	512.2	*510.9*
145°	523.1	521.7	520.2	518.8	517.4	516.0	514.7	513.7	512.7	511.9	*511.1*
147.5°	514.8	513.9	513.0	512.1	511.1	510.2	509.4	509.0	508.0	507.6	*507.0*
150°	506.7	505.9	505.0	504.3	503.3	502.5	502.0	501.6	501.3	501.2	*500.7*
152.5°	496.3	495.6	494.8	494.2	493.2	492.4	492.0	491.9	491.5	491.2	*490.8*
155°	488.6	488.1	487.6	487.1	486.4	486.1	485.5	485.0	484.6	484.1	*483.5*
157.5°	483.9	483.5	482.9	482.5	481.8	481.4	480.9	480.5	479.9	479.5	*479.1*
160°	480.7	480.3	479.8	479.4	478.9	478.5	477.7	477.2	476.3	475.7	*475.0*
162.5°	480.5	479.9	479.4	478.7	477.9	477.3	476.8	476.3	475.8	475.4	*474.8*
165°	480.0	479.6	479.2	478.8	478.4	478.0	477.2	476.6	475.8	475.2	*474.4*
167.5°	482.8	482.4	482.0	481.6	481.0	480.6	480.0	479.4	478.7	478.1	*477.2*
170°	483.8	483.1	482.7	481.9	481.4	480.7	480.2	479.5	478.9	478.4	*477.6*
172.5°	486.8	486.5	486.0	485.4	484.9	484.4	484.0	483.4	482.8	482.3	*481.7*
175°	485.9	485.8	485.7	485.3	485.2	485.0	484.9	484.8	484.5	484.4	*484.1*
177.5°	487.3	487.2	487.2	487.0	486.8	486.8	486.5	486.3	485.9	485.6	*485.4*
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	*484.4*

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Scaled Data Report

TEST NUMBER: P1444607
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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30663.7	30655.8	30659.6	30645.2	30648.7	30631.3	30629.7	30610.2	30608.2	30589.7	30582.8
5°	31701.9	31684.8	31704.0	31674.1	31680.0	31640.9	31637.6	31587.1	31569.6	31506.5	31479.3
7.5°	32843.0	32836.5	32848.3	32823.1	32822.3	32787.5	32773.0	32727.8	32699.8	32633.4	32591.0
10°	*33092.9*	*33098.8*	*33089.1*	*33091.5*	*33077.9*	*33074.2*	*33060.3*	*33051.4*	*33028.7*	*33011.5*	*32986.1*
12.5°	32054.9	32061.1	32021.5	32046.6	32026.8	32073.2	32069.3	32123.9	32132.3	32201.3	32227.6
15°	29655.9	29648.4	29572.5	29620.3	29594.7	29696.3	29719.0	29855.9	29928.9	30104.6	30212.4
17.5°	26031.9	26012.3	25905.3	25963.6	25934.0	26083.8	26134.1	26352.9	26489.3	26772.2	26973.8
20°	21711.9	21674.4	21549.2	21617.5	21586.9	21757.2	21829.0	22093.3	22269.2	22644.0	22910.6
22.5°	17338.2	17279.0	17156.4	17220.1	17191.2	17367.7	17461.1	17726.3	17927.8	18312.5	18623.7
25°	13410.7	13357.9	13239.4	13284.0	13273.2	13422.4	13505.5	13756.4	13954.4	14320.9	14618.0
27.5°	10228.7	10173.8	10066.7	10098.2	10087.4	10214.5	10292.8	10502.4	10672.8	10981.3	11242.1
30°	7828.6	7762.4	7671.5	7689.0	7681.5	7784.5	7857.6	8034.2	8180.1	8440.9	8665.6
32.5°	6000.5	5934.0	5850.5	5858.7	5847.7	5928.5	5988.8	6142.3	6269.6	6491.2	6686.9
35°	4591.3	4669.1	4490.9	4603.7	4486.2	4658.8	4596.7	4692.5	4802.1	4988.8	5152.0
37.5°	3529.6	3475.4	3429.5	3424.6	3424.4	3464.4	3511.5	3604.0	3700.4	3839.5	3983.3
40°	2797.0	2759.0	2729.4	2727.2	2729.4	2757.7	2792.6	2856.5	2927.1	3027.1	3132.7
42.5°	2319.8	2294.6	2276.7	2275.4	2281.1	2301.3	2325.5	2363.5	2409.4	2474.2	2546.7
45°	2007.9	1993.8	1983.8	1983.3	1985.9	1996.4	2010.3	2034.0	2063.1	2103.5	2149.3
47.5°	1788.9	1785.5	1779.3	1779.5	1776.6	1781.0	1782.5	1795.8	1811.3	1841.8	1901.7
50°	1629.5	1629.5	1625.2	1625.0	1621.0	1620.7	1617.3	1622.5	1629.7	1648.7	1667.8
52.5°	1503.5	1503.1	1498.5	1497.5	1493.2	1493.0	1490.0	1492.1	1493.1	1502.6	1514.1
55°	1405.1	1402.1	1395.9	1394.0	1392.4	1394.8	1393.7	1393.9	1392.6	1396.5	1399.9
57.5°	1334.4	1330.5	1324.8	1323.0	1322.6	1325.6	1325.7	1324.6	1319.3	1315.7	1310.7
60°	1278.4	1274.6	1268.4	1266.7	1267.7	1271.8	1271.6	1268.1	1260.3	1253.3	1245.3
62.5°	1223.5	1222.0	1218.8	1218.3	1217.5	1218.2	1215.4	1211.7	1204.0	1196.6	1187.9
65°	1149.9	1150.6	1148.3	1148.6	1145.7	1145.3	1141.0	1137.5	1129.6	1122.9	1114.0
67.5°	1073.3	1073.9	1072.0	1072.0	1070.5	1070.7	1068.1	1064.8	1058.1	1052.7	1045.8
70°	1010.3	1011.8	1010.8	1011.1	1009.3	1008.6	1004.5	1001.3	994.5	989.8	983.7
72.5°	934.7	938.2	938.1	938.9	936.1	934.7	929.9	925.9	919.7	916.1	911.1
75°	853.2	857.6	858.9	860.9	856.9	855.0	849.7	846.4	841.3	839.2	835.9
77.5°	773.6	778.6	783.2	787.5	781.2	775.7	769.0	763.9	756.6	753.9	748.8
80°	684.4	692.9	703.2	711.9	700.7	689.4	678.4	670.2	660.6	656.7	650.3
82.5°	567.8	576.6	582.5	588.0	580.2	571.9	561.3	554.1	543.7	539.9	532.5
85°	431.3	442.3	445.9	448.8	443.8	439.4	429.4	415.9	409.3	399.1	393.7
87.5°	283.7	290.3	291.5	292.5	289.5	287.3	280.8	274.5	263.3	255.2	245.2
90°	140.4	142.7	138.3	138.0	135.8	138.1	133.4	133.2	125.8	124.3	117.9
92.5°	47.8	44.5	41.7	38.7	42.2	44.6	48.0	50.4	53.7	56.2	59.5
95°	65.2	61.9	58.5	55.2	57.9	60.6	63.3	65.9	68.7	71.3	74.0
97.5°	90.4	88.1	85.9	83.7	85.3	86.8	88.4	90.0	91.5	93.0	94.7
100°	115.7	113.9	112.2	110.4	110.4	110.4	110.4	110.4	110.4	110.4	110.4
102.5°	188.0	180.3	172.8	165.2	170.3	175.4	180.6	185.7	190.9	196.0	201.3
105°	358.4	337.7	316.9	296.2	316.3	336.3	356.5	376.5	396.6	417.0	437.1
107.5°	654.4	621.6	588.8	556.0	592.7	629.2	665.9	702.5	739.1	775.7	812.6
110°	980.0	948.7	917.4	886.2	925.0	963.9	1002.7	1041.6	1080.5	1119.4	1158.5

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	1197.8	1182.6	1167.4	1152.2	1177.3	1202.2	1227.3	1252.5	1277.6	1302.6	1327.6
115°	1254.5	1253.6	1252.7	1251.8	1263.6	1275.5	1287.3	1299.3	1311.1	1323.0	1335.0
117.5°	1185.3	1193.7	1202.2	1210.7	1214.5	1218.2	1222.2	1226.0	1230.0	1233.9	1238.0
120°	1061.8	1072.8	1084.2	1095.6	1094.1	1092.5	1091.0	1089.4	1088.4	1086.9	1085.7
122.5°	917.1	928.3	939.6	950.9	947.6	944.3	941.0	937.8	934.6	931.6	928.5
125°	782.4	791.6	801.0	810.6	807.2	803.9	800.7	797.6	794.6	791.4	788.7
127.5°	675.6	681.3	687.1	693.0	691.4	689.9	688.6	687.1	686.0	684.9	683.9
130°	602.4	605.0	607.7	610.4	610.8	611.3	612.0	612.7	613.5	614.4	615.5
132.5°	559.0	559.4	560.0	560.6	562.4	564.1	566.3	568.3	570.6	572.8	575.5
135°	533.8	533.0	532.5	532.0	534.7	537.2	540.3	543.1	546.3	549.5	552.9
137.5°	521.1	519.9	519.0	518.0	520.6	523.3	526.2	529.1	532.2	535.4	539.0
140°	515.1	514.0	513.4	512.6	515.2	517.8	520.7	523.6	526.8	529.9	533.3
142.5°	510.1	508.9	508.2	507.5	509.8	512.3	515.0	517.6	520.5	523.3	526.4
145°	510.3	509.5	509.0	508.4	510.1	511.9	513.8	515.9	518.0	520.0	522.5
147.5°	506.5	506.1	505.8	505.5	506.9	508.0	509.5	510.9	512.5	514.1	515.9
150°	500.7	500.4	500.2	500.2	501.0	501.7	502.7	503.5	504.7	505.7	507.1
152.5°	490.8	490.5	490.6	490.5	491.1	491.9	492.8	493.6	494.6	495.5	496.7
155°	483.3	482.9	482.6	482.3	482.5	482.7	483.2	483.4	484.0	484.3	484.9
157.5°	478.8	478.4	478.1	477.7	477.7	477.6	477.7	477.7	478.0	477.8	478.0
160°	474.5	473.7	473.2	472.7	472.9	472.9	473.2	473.2	473.6	473.7	474.0
162.5°	474.4	474.0	473.7	473.3	473.0	472.6	472.4	471.9	471.7	471.4	471.3
165°	473.9	473.1	472.6	471.8	471.8	471.6	471.6	471.4	471.4	471.2	471.4
167.5°	476.7	476.0	475.3	474.7	474.2	473.7	473.3	472.7	472.3	471.8	471.5
170°	477.1	476.5	475.9	475.4	475.2	474.8	474.7	474.4	474.2	474.1	474.1
172.5°	481.3	480.8	480.2	479.8	479.6	479.4	479.3	479.2	479.0	479.0	478.9
175°	483.9	483.7	483.6	483.4	483.1	482.9	482.4	482.2	482.0	481.7	481.4
177.5°	485.0	484.6	484.4	484.2	484.1	484.1	484.1	484.1	484.1	484.0	483.9
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30563.0	30555.0	30533.8	30523.4	30503.9	30494.0	30478.7	30468.8	30456.5	30447.3	30442.6
5°	31409.8	31370.7	31292.4	31244.2	31159.6	31103.9	31020.0	30958.4	30871.6	30807.7	30725.7
7.5°	32511.6	32451.5	32351.2	32275.2	32156.9	32066.5	31933.7	31827.5	31680.7	31558.9	31409.0
10°	*32960.1*	*32925.1*	*32880.1*	*32831.2*	*32765.6*	*32701.3*	*32610.7*	*32518.2*	*32395.1*	*32272.6*	*32112.5*
12.5°	32297.1	32330.1	32395.1	32425.4	32475.1	32492.0	32514.7	32504.1	32483.9	32434.0	32361.4
15°	30419.6	30557.1	30774.5	30924.9	31135.6	31283.5	31479.3	31605.2	31750.4	31837.1	31919.5
17.5°	27331.1	27597.1	27980.7	28286.7	28697.5	29031.4	29440.7	29762.3	30133.5	30418.2	30721.4
20°	23375.2	23747.7	24277.2	24726.8	25322.1	25826.9	26473.5	27015.2	27647.1	28173.9	28742.5
22.5°	19117.5	19555.7	20162.4	20704.8	21415.6	22050.5	22860.8	23576.9	24431.2	25196.5	26043.1
25°	15100.9	15530.4	16148.4	16710.0	17477.4	18176.8	19061.9	19883.6	20875.0	21799.4	22860.8
27.5°	11656.4	12037.9	12581.2	13086.7	13789.5	14476.1	15374.4	16250.6	17308.4	18301.9	19445.7
30°	9002.1	9311.6	9746.9	10153.5	10717.7	11279.2	12079.4	12889.8	13942.4	14971.8	16144.4
32.5°	6976.3	7240.2	7603.6	7933.7	8368.4	8791.8	9381.1	10028.7	10951.9	11938.1	13071.9
35°	5400.5	5626.2	5935.5	6219.9	6577.3	6913.5	7353.1	7815.4	8520.0	9349.5	10364.2
37.5°	4305.5	4397.6	4618.3	4851.3	5148.2	5424.4	5768.4	6110.2	6614.3	7268.8	8097.6
40°	3274.3	3420.5	3600.1	3783.6	4008.5	4230.0	4607.4	4789.0	5120.9	5590.7	6234.1
42.5°	2641.9	2744.7	2871.2	2998.8	3155.5	3309.8	3500.6	3694.9	3943.2	4261.3	4719.0
45°	2210.8	2277.8	2359.3	2444.4	2547.2	2652.5	2780.3	2913.8	3082.0	3277.6	3555.6
47.5°	1922.8	1959.8	2013.1	2071.1	2141.7	2214.5	2297.6	2382.7	2487.1	2603.2	2761.5
50°	1698.0	1728.9	1770.3	1809.1	1857.8	1932.4	1965.4	2012.4	2075.3	2143.4	2232.0
52.5°	1535.3	1555.9	1581.9	1604.2	1634.9	1662.9	1699.6	1732.0	1775.5	1816.4	1873.6
55°	1408.7	1416.2	1430.8	1445.2	1466.5	1485.6	1510.7	1532.0	1559.7	1584.2	1620.3
57.5°	1310.9	1311.5	1318.3	1325.8	1339.4	1351.5	1368.8	1382.8	1402.0	1417.6	1439.2
60°	1240.5	1236.8	1238.2	1240.7	1248.5	1256.2	1267.3	1276.4	1288.6	1297.4	1309.5
62.5°	1182.0	1176.1	1174.8	1174.1	1177.9	1180.8	1186.8	1191.2	1198.1	1201.9	1208.4
65°	1108.1	1101.1	1098.5	1095.2	1096.4	1095.5	1097.8	1097.9	1101.4	1102.2	1105.9
67.5°	1041.0	1035.3	1031.8	1027.5	1025.6	1022.5	1021.2	1018.2	1017.7	1015.3	1014.7
70°	979.9	974.2	971.3	967.3	965.3	961.3	958.8	953.8	950.8	946.2	943.6
72.5°	909.2	906.0	905.1	902.4	901.7	899.5	898.4	895.0	892.9	888.9	886.6
75°	835.2	832.7	832.4	829.7	829.4	826.8	826.1	822.4	820.4	816.5	814.8
77.5°	747.2	743.3	742.2	739.1	739.9	738.5	739.6	736.7	735.5	731.5	730.3
80°	648.0	643.0	640.9	636.8	637.9	636.0	637.9	637.7	639.2	636.0	635.4
82.5°	530.5	525.0	524.0	521.1	523.1	523.3	527.5	525.1	526.1	523.2	524.3
85°	386.0	382.0	376.3	375.5	371.9	375.6	370.7	374.1	368.7	372.5	367.5
87.5°	239.3	230.9	226.5	220.5	218.3	212.5	210.1	205.9	207.2	205.2	206.4
90°	117.9	112.4	113.6	110.7	113.0	110.7	114.2	113.6	117.5	116.7	121.0
92.5°	62.0	64.9	70.2	75.9	81.0	86.3	91.6	97.3	102.5	108.1	113.2
95°	76.7	79.4	86.5	93.6	100.8	108.0	115.1	122.3	129.5	136.5	143.7
97.5°	96.3	97.8	105.0	112.1	119.2	126.4	133.5	141.0	148.1	155.2	162.4
100°	110.4	110.5	130.8	151.2	171.4	191.8	212.2	232.5	253.0	273.4	293.7
102.5°	206.4	211.5	262.9	314.3	365.6	417.0	468.4	519.9	571.2	622.9	674.3
105°	457.2	477.4	555.8	634.3	712.5	791.0	869.5	948.2	1026.6	1105.1	1183.5
107.5°	849.2	885.9	956.7	1027.7	1098.4	1169.4	1240.4	1311.3	1382.2	1453.2	1524.3
110°	1197.4	1236.3	1283.7	1331.3	1378.9	1426.4	1473.8	1521.4	1569.1	1616.6	1664.5

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	1352.7	1377.9	1405.5	1433.3	1461.0	1488.7	1516.5	1544.2	1572.2	1600.0	1627.9
115°	1347.1	1359.2	1369.8	1380.8	1391.4	1402.3	1413.2	1424.3	1435.2	1446.2	1457.3
117.5°	1241.8	1246.1	1247.7	1249.5	1251.1	1253.1	1255.0	1256.9	1259.0	1260.9	1262.7
120°	1084.4	1083.2	1081.4	1079.7	1078.0	1076.4	1074.8	1073.2	1071.9	1070.4	1068.8
122.5°	925.6	922.8	921.0	919.4	917.9	916.5	915.0	913.7	912.3	911.1	909.6
125°	785.7	783.1	784.6	786.3	788.0	789.9	791.5	793.5	795.3	797.2	799.1
127.5°	682.8	682.0	686.1	690.3	694.6	699.0	703.4	707.9	712.2	716.8	721.0
130°	616.7	617.9	623.2	628.7	634.1	639.7	645.3	651.0	656.4	662.0	667.5
132.5°	577.9	580.6	585.6	591.0	596.3	601.7	607.0	612.5	617.9	623.4	628.5
135°	556.4	560.0	564.7	569.5	574.4	579.4	584.3	589.3	594.1	599.0	603.8
137.5°	542.2	545.9	549.8	553.6	557.5	561.6	565.6	569.5	573.4	577.4	581.2
140°	536.7	540.3	542.4	544.9	547.1	549.5	551.6	554.0	556.2	558.6	560.8
142.5°	529.4	532.8	534.1	535.6	537.0	538.9	540.4	541.9	543.2	544.7	546.0
145°	524.7	527.3	527.4	527.8	528.0	528.4	528.5	528.9	528.8	529.1	529.2
147.5°	517.7	519.6	519.2	519.2	519.1	518.8	518.8	518.7	518.3	518.3	518.1
150°	508.1	509.5	508.8	508.5	507.8	507.4	506.7	506.3	505.6	505.2	504.5
152.5°	497.7	498.8	497.9	497.5	496.7	496.1	495.3	494.8	494.0	493.3	492.8
155°	485.1	485.7	485.2	485.0	484.5	484.2	483.7	483.7	483.3	483.0	482.7
157.5°	478.2	478.3	478.1	477.8	477.5	477.4	477.1	477.0	476.9	477.0	477.0
160°	474.1	474.5	474.1	473.9	473.7	473.5	473.2	473.3	473.2	473.4	473.4
162.5°	471.0	470.9	470.5	470.3	470.0	470.0	469.9	470.0	469.8	470.0	470.1
165°	471.5	471.7	471.0	470.8	470.3	470.0	469.6	469.5	469.3	469.3	469.1
167.5°	471.2	471.0	471.0	471.1	471.1	471.3	471.4	471.8	472.0	472.4	472.5
170°	474.0	474.1	473.9	473.8	473.5	473.4	473.4	473.3	473.2	473.2	473.2
172.5°	478.9	478.9	478.4	478.0	477.5	477.2	476.7	476.5	476.0	475.7	475.2
175°	481.1	480.9	480.7	480.4	480.2	479.9	479.6	479.3	479.1	478.8	478.6
177.5°	483.8	483.6	483.4	483.4	483.3	483.2	483.2	483.1	483.1	483.1	482.9
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

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Scaled Data Report

TEST NUMBER: P1444607
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CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30436.5	30436.1	30433.1	30434.5	30435.1	30437.3	30439.8	30442.6	30443.2	30445.3	30445.7
5°	30664.3	30588.9	30533.2	30472.0	30426.0	30384.5	30356.9	30334.9	30326.5	30328.5	30333.6
7.5°	31281.9	31126.4	30998.3	30852.4	30730.8	30602.1	30495.3	30393.9	30320.0	30264.9	30234.0
10°	*31959.7*	*31770.4*	*31589.3*	*31378.2*	*31178.1*	*30964.5*	*30771.0*	*30576.2*	*30413.7*	*30272.6*	*30169.1*
12.5°	32260.5	32126.7	31970.1	31770.9	31556.8	31310.3	31061.4	30794.5	30546.4	30316.1	30130.2
15°	31942.0	31942.2	31885.2	31789.7	31640.9	31443.9	31206.7	30928.6	30635.8	30337.1	30064.1
17.5°	30931.1	31121.8	31227.9	31295.0	31274.5	31201.9	31051.0	30837.4	30564.4	30246.1	29913.1
20°	29195.0	29645.0	29965.7	30254.1	30415.8	30523.2	30512.4	30425.5	30231.1	29960.6	29613.6
22.5°	26763.1	27518.2	28114.0	28669.7	29059.3	29376.3	29527.0	29590.9	29502.8	29314.3	28988.6
25°	23809.3	24835.9	25712.1	26562.4	27200.2	27748.4	28077.7	28309.9	28328.3	28229.8	27939.2
27.5°	20527.1	21738.9	22847.8	23977.8	24874.8	25662.8	26179.9	26558.4	26678.6	26662.7	26398.8
30°	17249.0	18521.3	19743.5	21061.3	22171.2	23177.9	23860.9	24372.7	24569.9	24607.7	24353.9
32.5°	14153.3	15407.8	16626.7	18004.4	19225.7	20379.5	21186.5	21794.4	22023.8	22077.8	21799.4
35°	11343.6	12501.1	13659.5	14994.6	16209.0	17403.8	18254.1	18890.5	19104.7	19140.9	18818.5
37.5°	8907.2	9893.3	10902.7	12100.7	13215.9	14338.0	15145.9	15744.1	15900.0	15890.4	15525.7
40°	6855.7	7622.4	8433.5	9419.7	10346.8	11295.4	11977.6	12472.1	12554.1	12493.4	12110.2
42.5°	5155.1	5708.8	6296.8	7033.0	7721.0	8430.9	8927.2	9294.3	9306.0	9210.0	8866.0
45°	3840.6	4380.8	4627.4	5072.5	5515.6	5987.7	6290.7	6517.5	6482.4	6398.0	6136.5
47.5°	2927.8	3135.4	3355.6	3631.6	3889.7	4425.4	4385.7	4749.9	4487.5	4666.4	4272.7
50°	2325.0	2441.0	2559.6	2706.1	2840.9	2981.0	3068.5	3133.9	3125.3	3097.2	3021.9
52.5°	1978.0	2013.9	2072.3	2155.6	2230.9	2306.6	2356.4	2397.0	2397.7	2386.4	2348.2
55°	1653.2	1698.7	1740.7	1795.1	1887.8	1902.1	1973.6	1959.1	1964.8	1944.9	1965.1
57.5°	1457.5	1484.0	1507.7	1540.1	1566.9	1598.2	1616.6	1634.4	1632.6	1628.8	1609.4
60°	1319.0	1333.5	1346.7	1365.7	1380.3	1398.0	1406.5	1415.6	1412.6	1406.0	1388.7
62.5°	1212.1	1221.3	1228.7	1241.0	1249.9	1261.0	1265.4	1269.2	1265.4	1259.1	1243.9
65°	1106.7	1112.6	1117.3	1126.6	1132.9	1142.3	1146.0	1149.7	1146.1	1141.2	1129.6
67.5°	1011.6	1012.2	1011.7	1015.5	1017.4	1023.0	1024.7	1027.4	1023.2	1019.1	1009.3
70°	939.5	938.1	936.2	937.7	938.1	940.7	941.2	940.7	935.9	928.6	917.8
72.5°	883.2	882.4	881.0	882.2	882.2	884.7	884.0	882.7	876.7	869.7	859.0
75°	810.7	810.1	807.4	807.5	805.3	806.1	803.1	801.4	794.8	788.9	779.3
77.5°	725.9	724.5	720.6	719.1	714.8	712.9	707.4	704.7	697.9	693.2	685.0
80°	631.2	629.7	624.7	621.9	615.1	610.8	602.6	598.0	590.2	585.5	577.6
82.5°	521.8	522.4	517.3	513.7	504.0	496.5	485.6	479.7	471.2	466.7	458.5
85°	371.1	365.8	368.6	368.4	362.3	355.8	346.9	340.8	333.5	329.2	323.5
87.5°	203.5	204.8	203.3	202.1	197.7	194.5	187.6	184.0	178.7	176.0	171.7
90°	112.6	109.3	101.3	98.1	90.3	85.4	76.4	72.3	63.9	61.9	57.0
92.5°	107.2	101.1	95.4	89.0	83.3	77.2	71.2	65.1	59.1	56.9	55.1
95°	135.0	126.4	117.7	109.0	100.3	91.6	83.0	74.4	65.6	63.8	62.1
97.5°	152.3	141.9	131.7	121.5	111.3	101.0	90.9	80.5	70.3	69.3	68.1
100°	270.1	246.6	222.9	199.2	175.7	152.1	128.5	104.8	81.2	79.9	78.6
102.5°	617.0	559.7	502.4	445.2	388.0	330.6	273.4	216.0	158.7	150.5	142.2
105°	1096.8	1010.1	923.6	836.9	750.1	663.3	576.8	490.0	403.2	375.4	347.5
107.5°	1442.8	1361.1	1279.9	1198.4	1116.8	1035.3	953.9	872.3	790.6	741.6	692.6
110°	1599.7	1534.9	1470.5	1405.7	1341.1	1276.4	1211.6	1146.9	1082.2	1039.8	997.7

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	1580.7	1533.1	1486.0	1438.4	1391.1	1343.6	1296.3	1248.7	1201.1	1175.6	1150.0
115°	1428.9	1400.2	1371.9	1343.3	1314.7	1286.1	1257.5	1228.7	1200.0	1186.6	1173.0
117.5°	1248.4	1233.7	1219.3	1204.7	1190.0	1175.3	1160.8	1145.9	1131.3	1126.7	1121.8
120°	1064.7	1060.3	1055.7	1051.2	1046.8	1042.4	1037.8	1033.2	1028.5	1029.1	1029.6
122.5°	911.4	913.0	914.8	916.3	918.1	919.6	921.4	922.8	924.3	928.0	931.5
125°	803.3	807.4	811.8	815.9	820.1	824.2	828.5	832.4	836.6	840.1	843.9
127.5°	725.9	730.4	735.3	739.9	744.7	749.2	754.0	758.3	763.1	766.4	769.8
130°	671.8	675.7	679.8	683.8	688.0	692.0	695.9	700.0	704.1	706.7	709.2
132.5°	632.2	635.8	639.6	643.0	646.8	650.3	654.0	657.6	661.4	663.1	665.2
135°	606.7	609.2	612.1	614.6	617.6	620.1	623.0	625.7	628.6	629.8	631.2
137.5°	583.5	585.6	588.0	590.2	592.4	594.6	597.1	599.3	601.9	602.3	603.3
140°	563.1	565.5	567.9	570.2	572.7	575.0	577.8	580.2	583.0	583.5	584.4
142.5°	547.9	549.7	551.5	553.3	555.4	557.1	559.2	561.5	563.5	564.2	564.9
145°	531.4	533.6	535.8	537.9	540.1	542.4	545.1	547.5	550.1	550.5	550.9
147.5°	519.8	521.6	523.7	525.6	527.6	529.4	531.9	534.0	536.3	536.6	537.0
150°	506.7	508.5	510.6	512.6	514.7	517.0	519.3	521.7	524.4	525.1	525.8
152.5°	494.9	497.0	499.2	501.6	504.0	506.5	509.0	511.6	514.2	514.8	515.6
155°	485.0	486.9	489.4	491.7	494.1	496.3	499.0	501.5	504.0	504.9	505.7
157.5°	479.1	480.8	483.0	485.0	487.1	489.3	491.6	493.8	496.1	496.8	497.5
160°	475.1	476.8	478.8	480.6	482.5	484.5	486.5	488.4	490.5	491.0	491.7
162.5°	472.0	473.7	475.6	477.3	479.4	481.1	483.2	485.0	487.0	487.6	488.3
165°	470.5	471.8	473.3	474.5	476.0	477.3	478.9	480.1	481.7	482.3	483.2
167.5°	473.8	474.6	475.6	476.6	477.9	479.0	480.0	481.1	482.3	483.0	483.8
170°	474.1	475.0	475.9	476.9	478.0	479.0	479.8	480.8	482.1	482.6	483.4
172.5°	475.9	476.3	477.2	477.7	478.4	479.0	479.7	480.3	481.1	481.9	482.5
175°	479.0	479.3	479.5	479.7	480.1	480.4	480.9	481.4	481.7	482.3	482.8
177.5°	483.1	483.3	483.6	483.8	484.2	484.4	484.8	485.0	485.2	485.9	486.7
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30444.7	30444.3	30443.4	30442.0	30440.6	30441.5	30442.8	30446.3	30452.4	30461.2	30472.8
5°	30337.9	30344.1	30347.6	30348.1	30344.8	30343.0	30345.9	30354.3	30371.2	30399.5	30437.7
7.5°	30225.8	30233.5	30245.2	30254.1	30255.7	30253.7	30254.1	30267.2	30298.4	30353.5	30430.8
10°	*30106.1*	*30083.4*	*30095.3*	*30117.3*	*30134.7*	*30138.0*	*30140.1*	*30155.6*	*30201.1*	*30284.4*	*30408.6*
12.5°	29995.6	29923.6	29909.7	29929.5	29956.1	29964.5	29962.1	29968.8	30022.2	30132.4	30305.5
15°	29850.3	29714.8	29668.4	29673.6	29706.3	29718.0	29709.4	29696.3	29748.3	29882.9	30106.9
17.5°	29615.0	29396.5	29311.4	29307.7	29346.0	29356.1	29335.1	29294.3	29345.5	29513.4	29791.6
20°	29257.5	28934.9	28774.6	28749.1	28790.7	28778.5	28736.6	28675.0	28742.2	28946.5	29277.2
22.5°	28614.5	28205.8	27932.0	27843.7	27893.4	27860.2	27799.0	27720.3	27809.6	28041.7	28410.0
25°	27563.9	27091.7	26716.8	26506.5	26546.1	26486.6	26420.0	26324.7	26431.1	26697.5	27103.0
27.5°	26019.8	25474.3	25009.7	24661.5	24674.3	24596.4	24519.6	24396.3	24529.3	24844.6	25301.9
30°	23966.4	23335.3	22769.5	22296.2	22253.9	22178.4	22099.7	21937.8	22104.3	22481.7	23016.2
32.5°	21387.7	20687.0	20033.3	19435.0	19322.1	19248.3	19178.3	18992.0	19209.9	19649.9	20263.9
35°	18372.1	17625.6	16916.9	16233.5	16046.5	15972.8	15911.5	15733.1	16005.0	16483.8	17147.0
37.5°	15062.1	14299.5	13595.8	12895.1	12630.8	12530.8	12486.3	12369.4	12683.1	13156.7	13822.6
40°	11663.9	10954.9	10323.9	9705.1	9403.8	9250.9	9227.5	9206.3	9509.5	9920.5	10524.9
42.5°	8485.0	7913.0	7426.5	6953.5	6680.5	6471.6	6471.5	6534.9	6808.0	7115.8	7581.8
45°	5869.4	5485.4	5175.5	4859.4	4943.9	4527.5	4772.2	4646.6	4781.5	4980.1	5283.1
47.5°	4034.6	3825.1	3654.8	3478.1	3349.5	3226.5	3237.3	3316.6	3443.7	3561.4	3719.1
50°	2940.5	2833.8	2747.1	2655.4	2591.3	2537.1	2540.3	2574.6	2641.3	2703.4	2785.9
52.5°	2304.1	2245.3	2198.1	2147.5	2113.9	2086.9	2088.3	2105.0	2141.1	2176.5	2223.9
55°	1899.1	1892.1	1830.8	1785.3	1768.0	1749.8	1753.2	1759.7	1784.3	1804.9	1836.4
57.5°	1591.5	1564.0	1545.6	1521.6	1510.6	1498.0	1500.8	1503.3	1519.7	1533.6	1556.1
60°	1374.2	1354.8	1341.7	1325.4	1318.2	1310.2	1311.9	1313.4	1324.0	1333.1	1349.3
62.5°	1229.9	1212.4	1201.1	1188.6	1183.4	1178.0	1179.3	1179.7	1186.3	1193.0	1205.3
65°	1119.2	1105.4	1095.9	1085.1	1079.8	1074.1	1074.7	1074.7	1080.2	1085.1	1094.3
67.5°	1002.1	991.7	985.6	977.0	973.3	967.5	967.4	965.7	969.3	971.2	977.5
70°	908.1	897.6	889.8	881.6	877.0	872.0	872.1	872.2	876.4	880.7	888.8
72.5°	850.1	840.0	833.1	825.8	821.6	817.3	816.5	816.0	819.0	821.5	826.8
75°	773.2	765.2	761.1	754.3	751.0	746.0	745.3	743.0	744.5	744.9	748.9
77.5°	679.9	672.4	669.0	662.2	659.3	653.8	653.3	650.9	651.9	651.2	654.2
80°	573.7	566.7	564.9	559.2	557.9	552.8	552.0	548.9	549.9	547.4	548.6
82.5°	455.0	448.6	447.3	442.1	442.1	437.4	437.2	432.6	432.6	428.6	422.3
85°	320.5	315.8	313.9	309.6	308.3	304.6	302.7	298.3	296.7	293.9	293.0
87.5°	169.1	166.2	163.5	161.6	157.9	151.2	150.6	146.0	146.3	143.0	143.2
90°	55.4	50.8	49.4	45.1	43.4	40.2	38.7	39.5	40.9	41.7	43.1
92.5°	53.1	51.1	49.1	47.1	45.1	43.0	41.1	43.0	45.1	47.1	49.1
95°	60.2	58.4	56.7	54.9	53.0	51.3	49.5	51.3	53.0	55.0	56.8
97.5°	67.0	65.8	64.7	63.6	62.5	61.3	60.2	61.4	62.6	63.7	64.8
100°	77.2	75.8	74.6	73.2	71.8	70.5	69.2	70.8	72.1	73.5	74.8
102.5°	134.1	125.8	117.5	109.2	101.0	92.7	84.5	92.7	101.0	109.3	117.6
105°	319.6	291.8	263.8	235.9	208.0	180.1	152.3	180.2	208.1	236.0	264.0
107.5°	643.5	594.7	545.6	496.5	447.3	398.3	349.2	398.4	447.5	496.6	545.8
110°	955.3	913.0	870.8	828.5	786.0	743.7	701.2	743.8	786.2	828.7	871.1

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TEST NUMBER: P1444607
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CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	1124.1	1098.4	1072.7	1047.0	1021.1	995.4	969.5	995.6	1021.5	1047.6	1073.3
115°	1159.6	1145.9	1132.5	1118.9	1105.2	1091.5	1077.7	1091.9	1105.8	1119.6	1133.5
117.5°	1116.9	1112.3	1107.4	1102.7	1097.8	1093.0	1088.0	1093.2	1098.4	1103.7	1108.6
120°	1030.0	1030.7	1031.1	1031.5	1031.9	1032.3	1032.5	1032.8	1032.8	1032.8	1032.6
122.5°	934.9	938.5	941.9	945.3	948.7	952.0	955.2	952.4	949.6	946.8	943.7
125°	847.4	851.1	854.7	858.2	861.6	865.1	868.1	865.7	862.8	859.9	856.8
127.5°	773.1	776.3	779.4	782.8	785.7	788.8	791.5	789.5	787.0	784.5	781.8
130°	711.7	714.3	716.5	718.9	721.1	723.3	725.1	723.9	722.4	721.0	719.0
132.5°	667.0	669.0	670.9	672.7	674.1	675.8	676.9	676.5	675.6	674.8	673.6
135°	632.6	633.8	635.0	636.3	637.2	638.2	638.7	639.0	638.7	638.5	637.9
137.5°	603.8	604.7	605.1	605.6	605.9	606.2	606.2	606.9	607.3	608.1	608.1
140°	584.8	585.7	586.2	586.7	587.2	587.6	587.4	588.4	588.8	589.3	589.3
142.5°	565.6	566.3	566.9	567.5	567.7	568.1	568.1	568.8	569.2	569.7	569.9
145°	551.5	551.7	552.0	552.4	552.5	552.5	552.1	553.3	554.0	554.6	555.2
147.5°	537.4	537.9	538.0	538.2	538.3	538.3	538.0	539.0	539.8	540.4	540.9
150°	526.6	527.3	527.9	528.5	528.9	529.3	529.3	529.9	530.2	530.6	530.7
152.5°	516.1	516.8	517.4	517.9	518.2	518.4	518.5	519.1	519.6	520.2	520.4
155°	506.4	507.2	507.8	508.5	509.0	509.6	510.0	510.5	510.8	511.1	511.3
157.5°	498.2	499.0	499.5	500.2	500.7	501.4	501.7	502.3	502.7	503.1	503.4
160°	492.3	493.1	493.6	494.3	494.9	495.4	495.9	496.4	496.8	497.2	497.6
162.5°	488.8	489.5	489.9	490.5	491.0	491.6	492.1	492.6	493.1	493.6	493.9
165°	484.0	484.8	485.4	486.2	487.0	487.8	488.3	488.7	488.9	489.0	489.2
167.5°	484.4	485.1	485.8	486.5	487.1	488.0	488.6	488.9	488.9	489.1	489.2
170°	483.9	484.6	485.2	485.8	486.4	487.2	487.6	487.8	487.8	488.0	488.1
172.5°	483.3	484.1	484.9	485.6	486.4	487.1	487.8	487.8	487.6	487.4	487.1
175°	483.5	484.2	484.8	485.4	486.0	486.6	487.3	486.9	486.9	486.5	486.3
177.5°	487.6	488.5	489.2	489.9	490.6	491.3	492.1	491.4	490.8	490.4	489.7
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30489.1	30504.4	30527.7	30548.9	30580.7	30605.8	30643.6	30672.1	30714.8	30742.4	30788.6
5°	30491.8	30551.5	30629.9	30706.5	30798.6	30882.0	30985.9	31074.3	31178.7	31263.8	31370.5
7.5°	30534.9	30649.9	30787.8	30926.7	31083.9	31230.9	31396.5	31546.4	31710.2	31848.8	32000.3
10°	*30566.7*	*30744.1*	*30947.4*	*31151.8*	*31367.0*	*31567.0*	*31768.9*	*31943.3*	*32106.3*	*32240.4*	*32359.0*
12.5°	30523.6	30768.0	31028.8	31280.6	31519.8	31726.8	31900.5	32034.7	32127.2	32190.1	32204.8
15°	30377.1	30671.2	30954.6	31205.4	31403.9	31557.1	31636.3	31673.5	31633.7	31567.5	31422.2
17.5°	30103.2	30413.4	30666.8	30864.7	30969.6	31011.1	30945.4	30831.3	30608.0	30360.2	30002.3
20°	29601.1	29890.1	30073.9	30181.9	30153.8	30050.0	29802.0	29500.7	29055.0	28580.0	27953.2
22.5°	28720.4	28973.2	29071.0	29079.1	28907.9	28647.9	28200.7	27683.8	26980.7	26249.7	25350.7
25°	27398.5	27619.9	27635.3	27548.4	27234.9	26813.7	26157.1	25425.9	24470.4	23496.4	22369.8
27.5°	25605.7	25818.0	25766.0	25603.9	25168.7	24605.0	23764.4	22819.7	21641.9	20491.4	19245.2
30°	23352.2	23579.1	23518.1	23310.1	22792.5	22126.2	21137.1	20039.6	18731.9	17503.0	16240.2
32.5°	20655.3	20942.2	20900.0	20702.3	20162.1	19449.2	18375.9	17211.9	15873.9	14663.0	13434.6
35°	17589.8	17938.2	17956.2	17827.0	17325.5	16620.8	15561.0	14434.3	13152.7	12010.2	10875.4
37.5°	14287.1	14691.1	14774.1	14739.2	14323.6	13701.5	12735.8	11725.2	10589.7	9588.5	8617.9
40°	10966.3	11375.1	11516.9	11559.1	11252.4	10770.6	9978.0	9162.2	8236.7	7425.3	6654.6
42.5°	7937.7	8300.2	8437.3	8523.5	8332.1	8010.8	7432.6	6840.2	6162.1	5577.0	5015.9
45°	5512.8	5769.3	5873.5	5960.4	5856.1	5674.9	5309.8	4939.3	4491.7	4109.3	3747.2
47.5°	3854.4	3995.8	4064.6	4106.7	4066.3	3971.7	3773.1	3558.5	3305.8	3082.3	2867.5
50°	2857.0	2932.2	2968.2	2992.5	2963.1	2910.6	2803.0	2686.2	2547.4	2420.8	2297.1
52.5°	2264.1	2307.2	2328.6	2341.7	2324.9	2292.6	2230.1	2160.8	2077.6	1999.3	1958.3
55°	1907.3	1905.0	1954.5	1930.7	1954.5	1901.2	1890.0	1813.8	1744.7	1696.1	1643.5
57.5°	1572.9	1595.3	1604.8	1615.5	1608.6	1598.9	1572.2	1544.9	1508.5	1478.0	1445.5
60°	1361.5	1380.0	1390.4	1400.9	1400.2	1396.6	1381.3	1365.0	1342.2	1324.0	1304.3
62.5°	1216.0	1232.0	1242.2	1252.3	1253.2	1251.7	1240.1	1228.7	1213.2	1201.8	1188.3
65°	1101.4	1112.6	1119.6	1127.7	1127.2	1125.1	1114.5	1105.2	1092.3	1084.4	1074.4
67.5°	981.5	990.0	995.4	1003.0	1004.5	1005.0	999.2	994.8	988.6	986.3	982.9
70°	896.2	906.5	915.3	924.9	930.1	932.6	930.1	927.9	924.2	922.7	920.0
72.5°	831.7	840.4	847.2	856.0	860.9	864.3	862.4	861.2	858.0	857.5	855.8
75°	751.5	757.6	761.5	768.0	770.6	773.9	772.5	773.2	772.2	774.7	774.5
77.5°	655.3	659.7	661.5	666.2	666.7	670.6	671.6	676.2	679.4	686.7	690.5
80°	546.8	549.6	549.6	554.5	556.7	563.3	566.5	574.0	577.6	584.1	584.7
82.5°	424.7	421.5	424.7	422.7	429.0	436.4	437.4	443.9	445.4	449.4	446.2
85°	290.4	290.2	287.5	288.0	286.0	287.0	285.8	287.1	285.9	286.0	283.1
87.5°	139.1	140.4	137.3	138.3	135.4	136.7	134.2	136.1	133.1	133.6	129.1
90°	44.2	45.6	46.7	48.1	49.9	53.6	57.6	61.3	65.6	69.2	73.2
92.5°	51.1	53.2	55.2	57.3	59.2	65.2	71.3	77.3	83.5	89.4	95.5
95°	58.5	60.3	62.2	64.2	66.0	74.8	83.4	92.1	100.8	109.5	118.2
97.5°	66.2	67.4	68.5	69.6	70.8	81.0	91.4	101.6	111.9	122.1	132.3
100°	76.2	77.6	79.0	80.4	81.7	105.4	129.1	152.7	176.4	199.9	223.6
102.5°	126.0	134.3	142.5	151.1	159.3	216.7	274.1	331.4	388.5	446.0	503.2
105°	292.0	319.9	348.1	376.0	403.9	490.7	577.6	664.4	751.0	837.8	924.6
107.5°	595.0	644.1	693.3	742.4	791.5	873.2	954.9	1036.4	1118.1	1199.8	1281.1
110°	913.7	955.9	998.6	1041.0	1083.5	1148.1	1213.1	1277.8	1342.7	1407.4	1472.1

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	1099.4	1125.1	1151.0	1176.7	1202.6	1250.1	1298.0	1345.5	1393.1	1440.5	1488.1
115°	1147.2	1160.7	1174.5	1188.2	1202.0	1230.7	1259.5	1288.3	1317.0	1345.6	1374.4
117.5°	1113.7	1118.7	1123.7	1128.4	1133.5	1148.2	1163.1	1177.9	1192.8	1207.6	1222.3
120°	1032.5	1032.2	1031.9	1031.5	1031.3	1035.8	1040.7	1045.3	1050.1	1054.7	1059.2
122.5°	940.6	937.4	934.1	930.9	927.6	926.0	924.7	923.1	921.9	920.2	918.8
125°	853.6	850.4	847.0	843.7	840.1	836.2	832.3	828.3	824.2	820.2	816.2
127.5°	779.2	776.2	773.4	770.3	767.3	762.6	758.2	753.6	749.4	744.6	740.1
130°	717.4	715.2	713.3	710.9	708.8	704.7	701.0	697.0	693.1	689.2	685.2
132.5°	672.4	670.9	669.6	667.9	666.4	662.8	659.6	655.9	652.3	648.8	645.5
135°	637.4	636.6	636.0	634.9	634.1	631.2	628.9	626.1	623.6	620.9	618.3
137.5°	608.4	608.1	608.0	607.7	607.5	605.3	603.3	601.1	599.0	596.8	594.8
140°	589.6	589.4	589.5	589.2	589.0	586.6	584.4	582.0	579.7	577.4	575.1
142.5°	570.0	570.0	570.0	569.7	569.6	567.8	566.2	564.4	562.6	560.8	559.1
145°	555.5	555.8	556.0	556.0	556.4	554.1	552.0	549.8	547.9	545.8	543.7
147.5°	541.5	541.7	542.1	542.3	542.8	540.8	539.4	537.4	535.8	534.0	532.4
150°	530.9	531.0	531.1	531.0	531.0	529.1	527.4	525.5	523.8	521.9	520.2
152.5°	520.6	520.8	521.1	521.2	521.4	519.4	517.6	515.6	513.7	511.6	509.7
155°	511.5	511.6	511.8	511.8	511.8	510.0	508.2	506.2	504.4	502.5	500.8
157.5°	503.6	503.8	504.0	504.2	504.3	502.7	501.2	499.6	498.0	496.4	494.9
160°	497.9	498.2	498.4	498.6	498.8	497.4	496.3	494.8	493.6	492.1	490.6
162.5°	494.3	494.6	494.8	495.0	495.2	493.8	492.7	491.3	490.1	488.5	487.2
165°	489.4	489.4	489.4	489.3	489.3	488.4	487.7	486.8	485.9	484.8	483.9
167.5°	489.3	489.2	489.3	489.1	489.2	488.5	488.1	487.4	486.7	486.0	485.3
170°	488.0	488.1	488.1	487.9	487.9	487.2	486.7	486.1	485.6	484.8	484.1
172.5°	486.9	486.6	486.4	486.2	485.8	485.3	485.0	484.6	484.3	483.8	483.4
175°	485.9	485.7	485.4	485.1	484.8	484.7	484.4	484.4	484.2	483.9	483.7
177.5°	489.3	488.7	488.0	487.4	486.8	486.6	486.6	486.3	486.3	486.1	485.9
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30817.3	30627.0	30601.9	30615.3	30647.0	30658.8	30693.2	30702.5	30737.1	30745.5	30778.7
5°	31453.1	31201.7	31214.2	31274.7	31366.2	31420.8	31510.8	31557.9	31643.8	31682.9	31760.5
7.5°	32123.7	31926.2	31987.8	32089.8	32215.0	32301.6	32409.8	32480.2	32573.3	32631.2	32705.8
10°	*32452.9*	*32398.8*	*32466.7*	*32546.9*	*32618.3*	*32674.2*	*32720.1*	*32756.7*	*32780.8*	*32803.3*	*32813.1*
12.5°	32202.4	32286.2	32297.7	32289.9	32242.6	32206.5	32125.3	32070.2	31972.3	31912.6	31796.1
15°	31273.7	31457.9	31355.8	31201.4	30975.5	30787.1	30521.1	30322.9	30045.9	29858.0	29579.9
17.5°	29643.7	29876.2	29610.4	29253.1	28798.5	28409.8	27925.5	27541.2	27059.7	26709.5	26260.2
20°	27349.1	27566.3	27092.3	26500.0	25796.9	25205.2	24507.4	23950.6	23302.1	22819.7	22237.6
22.5°	24492.0	24646.8	23979.0	23180.5	22284.8	21545.5	20711.1	20043.7	19303.6	18752.2	18131.5
25°	21331.3	21373.1	20572.0	19652.1	18653.7	17822.9	16932.1	16230.4	15475.6	14916.7	14307.6
27.5°	18141.1	18079.8	17214.0	16238.6	15188.4	14324.9	13456.1	12798.5	12137.4	11634.0	11109.2
30°	15130.0	14981.7	14082.7	13080.1	12060.7	11286.7	10565.5	10037.3	9511.5	9112.1	8690.8
32.5°	12368.8	12159.5	11284.4	10345.2	9486.2	8888.8	8354.1	7954.4	7529.8	7192.4	6838.9
35°	9923.0	9700.1	8924.9	8128.6	7478.4	7038.1	6617.8	6289.9	5929.3	5644.8	5337.7
37.5°	7824.0	7641.3	6992.0	6365.4	5873.5	5532.4	5188.0	4920.0	4622.0	4496.9	4168.8
40°	6040.1	5912.4	5404.7	4942.7	4573.5	4413.2	4063.6	3813.3	3590.6	3407.0	3229.1
42.5°	4711.4	4666.2	4172.0	3811.8	3551.8	3349.9	3155.0	2996.8	2842.9	2716.3	2596.8
45°	3457.5	3421.7	3202.3	2994.4	2817.2	2676.0	2544.3	2435.6	2334.9	2251.5	2175.6
47.5°	2692.3	2680.8	2554.5	2425.5	2314.0	2223.3	2137.8	2065.6	1998.8	1943.1	1925.0
50°	2189.8	2188.3	2114.2	2034.6	1955.1	1902.7	1848.2	1805.4	1762.5	1729.1	1693.8
52.5°	1860.5	1852.6	1802.5	1753.4	1706.1	1671.7	1636.9	1609.6	1581.2	1560.5	1538.6
55°	1601.8	1610.2	1581.3	1552.0	1522.4	1501.0	1476.6	1458.6	1439.1	1426.1	1412.8
57.5°	1422.0	1433.2	1418.0	1401.4	1383.4	1369.4	1352.5	1340.0	1327.1	1318.7	1311.0
60°	1291.2	1303.5	1297.4	1288.9	1277.8	1269.5	1258.8	1251.8	1243.5	1238.8	1234.5
62.5°	1180.3	1195.6	1193.5	1189.4	1182.4	1177.7	1171.9	1168.7	1163.2	1161.2	1159.1
65°	1069.6	1086.8	1086.5	1084.5	1080.6	1079.2	1075.6	1074.9	1072.1	1073.2	1072.9
67.5°	982.6	997.5	1000.7	1003.1	1003.0	1003.9	1003.6	1005.1	1005.1	1007.2	1008.6
70°	919.7	930.1	932.6	935.1	935.8	937.8	937.8	939.1	938.8	940.5	940.7
72.5°	856.2	869.9	872.4	874.4	874.4	876.4	875.3	875.0	872.3	871.7	869.8
75°	777.2	794.8	798.6	801.0	801.4	803.1	800.8	799.3	794.8	792.9	789.8
77.5°	694.7	712.8	715.6	716.5	715.0	715.4	710.4	706.9	701.2	698.8	695.7
80°	587.2	614.0	616.2	614.5	610.3	609.6	604.8	601.5	594.7	592.3	589.7
82.5°	446.8	478.3	482.7	484.7	481.2	482.0	477.4	475.6	469.2	468.2	463.9
85°	282.1	313.5	318.7	318.0	314.6	313.8	311.1	312.0	311.5	313.2	314.0
87.5°	129.7	160.1	167.5	165.0	164.7	162.6	157.7	159.5	162.5	164.3	164.5
90°	77.1	90.2	93.9	91.4	85.8	82.8	77.6	75.0	70.3	67.8	63.1
92.5°	101.5	107.6	113.6	108.1	102.8	97.4	92.1	86.6	81.4	75.9	70.7
95°	126.9	135.3	144.0	136.8	129.7	122.5	115.3	108.2	101.1	93.9	86.8
97.5°	142.5	152.5	162.7	155.5	148.4	141.2	134.0	126.9	119.7	112.5	105.4
100°	247.2	270.4	294.0	273.7	253.2	233.0	212.7	192.2	171.9	151.7	131.2
102.5°	560.5	617.6	674.6	623.2	571.7	520.3	468.9	417.5	366.1	314.5	263.2
105°	1011.3	1097.5	1184.1	1105.4	1026.9	948.5	870.0	791.5	713.0	634.5	556.1
107.5°	1362.6	1443.5	1524.7	1453.8	1382.8	1311.9	1240.7	1169.9	1098.9	1027.9	956.9
110°	1536.9	1600.6	1665.2	1617.3	1569.8	1521.9	1474.4	1426.8	1379.2	1331.8	1284.2

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	1535.4	1581.7	1628.7	1600.6	1572.9	1544.9	1517.2	1489.2	1461.6	1433.6	1406.1
115°	1402.9	1430.0	1458.2	1447.0	1436.1	1425.1	1414.0	1403.2	1392.1	1381.2	1370.5
117.5°	1237.0	1249.9	1264.0	1261.8	1260.0	1257.8	1255.9	1253.9	1252.2	1250.2	1248.5
120°	1063.8	1066.4	1070.3	1071.7	1073.2	1074.5	1076.1	1077.6	1079.1	1080.6	1082.3
122.5°	917.3	913.4	911.2	912.5	913.8	915.0	916.5	917.8	919.3	920.7	922.3
125°	812.1	805.5	800.7	798.8	797.0	795.1	793.2	791.3	789.7	787.8	786.1
127.5°	735.5	728.4	723.1	718.6	714.3	709.8	705.5	700.9	696.6	692.2	688.1
130°	681.3	674.4	669.7	664.1	658.8	653.0	647.7	642.0	636.5	630.9	625.5
132.5°	641.8	635.2	631.0	625.7	620.6	615.0	609.9	604.4	599.2	593.6	588.5
135°	615.7	609.8	606.5	601.5	597.0	592.0	587.2	582.3	577.6	572.5	568.0
137.5°	592.5	586.9	584.1	580.1	576.5	572.5	568.8	564.8	561.0	556.9	553.2
140°	572.8	566.8	563.7	561.6	559.6	557.1	555.1	552.8	550.8	548.5	546.3
142.5°	557.3	551.6	549.1	547.7	546.4	545.1	544.0	542.5	541.1	539.5	538.2
145°	541.7	535.2	532.3	532.1	532.2	532.1	531.9	531.9	531.7	531.5	531.3
147.5°	530.4	524.0	521.2	521.6	521.9	522.0	522.5	522.5	523.0	523.1	523.5
150°	518.2	510.8	507.5	508.2	508.7	509.4	510.1	510.7	511.5	512.1	512.7
152.5°	507.6	499.0	495.3	496.0	496.8	497.3	498.1	498.9	499.8	500.6	501.4
155°	498.6	489.3	485.3	485.4	485.7	486.1	486.4	486.9	487.3	487.8	488.3
157.5°	493.0	483.3	479.5	479.4	479.5	479.6	479.6	479.9	480.1	480.3	480.9
160°	489.2	479.5	475.9	475.7	475.9	475.8	475.8	476.0	476.2	476.4	476.8
162.5°	485.6	476.3	472.8	472.5	472.4	472.4	472.5	472.4	472.6	472.8	473.1
165°	482.8	474.6	471.6	471.7	471.9	472.0	472.2	472.5	472.7	473.1	473.5
167.5°	484.6	477.3	474.9	474.5	474.2	473.9	473.9	473.5	473.5	473.2	473.2
170°	483.3	477.6	475.4	475.3	475.5	475.6	475.6	475.7	475.7	475.8	476.0
172.5°	482.8	478.7	477.1	477.4	477.8	478.2	478.6	479.0	479.4	479.8	480.2
175°	483.5	480.9	480.2	480.2	480.5	480.7	480.9	481.2	481.4	481.6	482.1
177.5°	485.7	485.0	484.6	484.6	484.6	484.6	484.6	484.6	484.6	484.7	484.7
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30784.9	30820.9	30818.1	30851.6	30849.9	30881.5	30875.2	30902.5	30896.2	30919.6	30905.8
5°	31794.8	31863.0	31885.5	31947.1	31959.9	32015.0	32016.2	32060.0	32054.7	32089.0	32070.7
7.5°	32750.0	32813.7	32844.0	32891.8	32915.8	32955.3	32970.9	33003.5	33011.2	33030.5	33029.9
10°	*32830.6*	*32830.4*	*32845.3*	*32838.7*	*32852.0*	*32844.2*	*32860.6*	*32854.7*	*32878.8*	*32872.5*	*32890.8*
12.5°	31745.9	31638.2	31598.9	31502.2	31481.0	31398.0	31403.9	31350.7	31376.4	31343.7	31399.4
15°	29414.5	29164.8	29041.5	28824.3	28756.1	28584.5	28570.6	28456.6	28487.4	28427.7	28514.9
17.5°	25969.5	25576.4	25360.6	25043.5	24917.6	24674.8	24626.2	24479.5	24502.2	24428.3	24533.6
20°	21862.1	21387.0	21114.9	20748.2	20584.5	20295.2	20218.4	20054.3	20074.9	20001.4	20120.4
22.5°	17707.8	17210.5	16903.2	16519.0	16310.0	16038.0	15956.3	15791.3	15800.7	15731.7	15846.2
25°	13890.2	13413.4	13115.2	12766.1	12584.9	12335.4	12249.5	12101.5	12109.8	12052.9	12155.7
27.5°	10745.1	10353.9	10104.4	9811.7	9649.2	9444.1	9360.4	9236.0	9235.6	9193.8	9279.8
30°	8396.7	8070.2	7846.2	7591.3	7438.8	7253.6	7172.8	7061.4	7056.6	7026.9	7095.2
32.5°	6574.4	6284.0	6079.7	5855.5	5718.4	5559.6	5483.1	5393.6	5385.4	5358.6	5414.6
35°	5110.8	4866.2	4690.6	4501.7	4515.6	4281.3	4320.3	4138.2	4088.8	4078.1	4119.8
37.5°	3950.0	3760.7	3617.9	3476.5	3380.7	3281.7	3228.4	3180.4	3175.0	3170.4	3199.6
40°	3091.8	2959.2	2855.5	2758.4	2692.5	2632.1	2598.7	2572.4	2566.2	2562.7	2580.3
42.5°	2502.4	2412.9	2346.0	2286.8	2246.8	2213.9	2195.6	2181.0	2176.0	2176.2	2186.7
45°	2114.2	2059.9	2016.8	1980.0	1954.4	1965.6	1932.5	1949.9	1927.0	1950.7	1935.1
47.5°	1861.8	1815.6	1788.9	1762.9	1747.4	1734.9	1735.4	1735.6	1740.5	1741.3	1746.3
50°	1667.1	1640.4	1621.8	1605.1	1597.1	1590.6	1592.9	1594.5	1599.2	1599.6	1603.4
52.5°	1523.0	1505.4	1494.2	1483.9	1480.3	1476.6	1478.1	1477.4	1479.6	1478.5	1481.6
55°	1405.7	1397.4	1394.0	1390.1	1390.6	1389.6	1390.3	1386.6	1384.3	1381.5	1384.0
57.5°	1309.5	1308.3	1310.8	1312.3	1316.7	1318.3	1319.3	1315.0	1310.9	1307.2	1309.4
60°	1235.3	1237.2	1243.0	1247.8	1254.1	1257.0	1258.9	1256.3	1253.4	1250.3	1252.2
62.5°	1162.2	1165.0	1172.1	1177.4	1185.0	1189.0	1193.5	1193.7	1194.8	1193.7	1194.9
65°	1077.3	1080.8	1087.1	1091.5	1098.7	1102.2	1106.7	1107.5	1110.0	1109.5	1111.5
67.5°	1012.7	1016.0	1021.3	1025.4	1031.8	1035.4	1039.3	1039.5	1040.5	1040.2	1042.3
70°	944.0	945.5	950.3	953.8	960.1	963.8	968.3	969.7	972.6	973.0	975.3
72.5°	870.6	869.9	872.8	874.3	879.0	882.0	887.8	890.9	895.7	896.9	898.7
75°	790.6	789.9	793.4	794.8	798.8	801.7	808.2	812.3	819.7	822.8	822.0
77.5°	698.1	699.8	706.1	709.6	715.0	718.7	727.2	733.9	747.3	753.2	747.2
80°	594.7	596.3	602.9	606.3	613.3	617.9	627.3	635.1	647.2	649.8	646.4
82.5°	467.6	468.0	473.9	476.4	485.6	492.3	504.2	510.5	518.0	516.8	515.9
85°	318.7	323.1	330.4	337.8	349.1	360.0	371.2	380.5	374.0	384.3	372.7
87.5°	170.4	169.9	179.9	178.3	194.2	203.3	213.1	217.7	222.9	221.9	222.0
90°	61.0	57.9	57.2	53.8	53.9	50.4	51.3	47.9	49.4	45.4	51.4
92.5°	65.2	62.4	59.4	56.6	53.6	50.8	47.8	44.9	42.0	39.1	42.0
95°	79.7	77.0	74.3	71.5	68.9	66.1	63.5	60.8	58.1	55.4	58.7
97.5°	98.2	96.7	95.1	93.5	91.9	90.5	88.9	87.3	85.7	84.1	86.3
100°	110.9	110.9	110.9	110.9	110.6	110.6	110.6	110.6	110.6	110.6	112.4
102.5°	211.7	206.6	201.5	196.2	191.1	185.9	180.8	175.6	170.5	165.4	173.0
105°	477.6	457.4	437.3	417.2	397.0	376.9	356.9	336.7	316.7	296.5	317.3
107.5°	886.2	849.5	812.8	776.2	739.5	702.9	666.3	629.6	593.1	556.5	589.3
110°	1236.6	1197.7	1158.7	1119.9	1080.9	1042.0	1003.1	964.3	925.4	886.6	917.8

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	1378.4	1353.0	1327.9	1302.8	1277.7	1252.7	1227.7	1202.6	1177.7	1152.6	1167.8
115°	1359.5	1347.6	1335.5	1323.6	1311.5	1299.6	1287.6	1275.8	1263.9	1252.1	1253.0
117.5°	1246.7	1242.5	1238.6	1234.4	1230.4	1226.6	1222.6	1218.8	1215.0	1211.2	1202.8
120°	1084.0	1085.2	1086.3	1087.7	1089.1	1090.3	1091.6	1093.2	1094.7	1096.3	1084.9
122.5°	923.8	926.6	929.4	932.5	935.5	938.7	941.8	945.1	948.5	951.8	940.4
125°	784.3	787.1	789.9	792.8	795.5	798.8	801.9	805.3	808.5	812.0	802.3
127.5°	683.8	684.6	685.4	686.6	687.6	688.9	690.1	691.6	693.2	694.9	688.9
130°	619.9	618.9	617.7	616.7	615.5	614.9	614.1	613.5	612.9	612.6	609.9
132.5°	583.2	580.6	578.1	575.5	573.2	571.0	568.8	567.0	565.1	563.4	562.6
135°	562.9	559.5	556.0	552.6	549.3	546.3	543.3	540.5	537.8	535.2	535.7
137.5°	549.2	545.9	542.3	539.0	535.6	532.8	529.7	526.8	524.1	521.7	522.7
140°	544.0	540.5	537.0	533.9	530.7	527.6	524.6	522.0	519.0	516.7	517.3
142.5°	536.6	533.8	530.5	527.6	524.5	521.9	519.2	516.8	514.0	512.0	512.7
145°	531.1	529.0	526.6	524.2	522.2	520.3	518.1	516.3	514.5	513.1	513.4
147.5°	523.6	522.0	520.1	518.5	516.7	515.4	513.8	512.6	511.3	510.1	510.2
150°	513.2	512.3	511.0	510.0	508.9	507.9	507.0	506.2	505.3	504.6	504.5
152.5°	502.0	501.2	500.1	499.2	498.2	497.4	496.5	495.9	495.2	494.5	494.4
155°	488.8	488.3	487.9	487.5	487.1	486.9	486.5	486.4	486.1	486.0	486.1
157.5°	481.1	481.1	480.8	480.9	480.9	480.8	480.7	481.0	480.8	481.0	481.3
160°	477.2	477.0	476.7	476.5	476.4	476.1	476.0	475.9	475.8	475.7	476.1
162.5°	473.3	473.6	473.7	473.9	474.2	474.4	474.8	475.3	475.5	475.9	476.3
165°	473.9	473.9	473.9	473.7	473.8	473.8	473.9	473.9	474.0	474.2	474.8
167.5°	473.1	473.4	473.5	473.9	474.1	474.6	474.9	475.5	476.0	476.6	477.1
170°	476.0	476.0	476.0	476.0	476.0	476.2	476.3	476.4	476.6	476.9	477.2
172.5°	480.6	480.6	480.4	480.6	480.4	480.6	480.6	480.7	480.7	480.8	481.0
175°	482.1	482.5	482.7	483.1	483.2	483.4	483.6	483.9	484.1	484.4	484.4
177.5°	484.7	484.8	484.8	484.8	484.8	484.9	484.9	484.9	484.9	484.8	485.0
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30928.6	30913.1	30928.9	30912.9	30928.9	30909.7	30922.7	30901.9	30907.2	30885.6	30891.1
5°	32098.0	32073.4	32086.5	32054.4	32057.8	32015.0	32014.2	31964.4	31951.3	31894.6	31869.6
7.5°	33043.7	33035.6	33040.1	33019.5	33017.1	32988.0	32974.0	32932.9	32906.9	32854.7	32819.0
10°	*32894.0*	*32918.1*	*32924.3*	*32948.9*	*32954.0*	*32978.3*	*32983.4*	*33007.8*	*33012.8*	*33030.9*	*33031.1*
12.5°	31396.8	31478.7	31498.2	31599.3	31641.9	31757.7	31819.6	31947.1	32022.9	32150.0	32228.1
15°	28512.5	28654.1	28710.6	28908.1	29017.3	29247.8	29392.6	29657.2	29844.1	30125.1	30325.7
17.5°	24542.9	24740.7	24830.0	25097.8	25272.5	25612.7	25857.9	26261.5	26570.4	27018.9	27374.4
20°	20140.8	20360.8	20482.0	20787.5	20993.6	21391.1	21697.2	22193.1	22606.6	23175.0	23661.0
22.5°	15882.2	16091.5	16226.1	16536.9	16768.9	17183.5	17525.6	18049.1	18512.4	19152.9	19735.5
25°	12194.5	12386.3	12507.9	12789.1	13007.0	13388.0	13714.7	14218.1	14671.5	15313.8	15911.3
27.5°	9322.5	9483.2	9600.5	9840.2	10032.4	10355.5	10636.1	11052.1	11442.9	11998.5	12530.6
30°	7137.1	7279.6	7393.7	7602.4	7780.6	8060.8	8307.5	8657.0	8980.3	9422.5	9845.8
32.5°	5454.0	5576.6	5678.3	5861.0	6022.6	6274.9	6497.2	6803.6	7081.0	7456.1	7804.3
35°	4158.5	4399.7	4382.6	4634.6	4675.2	4856.2	5054.5	5322.4	5568.1	5887.0	6183.4
37.5°	3227.7	3295.4	3368.1	3479.5	3596.6	3761.3	3928.9	4256.1	4376.1	4617.2	4862.5
40°	2602.7	2648.6	2696.6	2771.9	2853.8	2969.9	3091.9	3248.0	3408.0	3603.4	3803.0
42.5°	2200.4	2226.3	2256.9	2301.2	2351.7	2425.2	2506.9	2612.8	2724.0	2861.6	3001.9
45°	1965.9	1953.7	1962.7	1986.5	2016.9	2061.6	2113.2	2178.7	2251.1	2340.3	2435.1
47.5°	1747.4	1752.4	1755.0	1768.0	1784.3	1814.3	1845.5	1890.0	1976.0	2002.1	2053.8
50°	1603.0	1605.4	1604.7	1611.1	1619.5	1638.9	1659.2	1689.3	1719.4	1759.3	1797.3
52.5°	1482.0	1485.4	1484.9	1489.2	1493.7	1506.0	1518.8	1540.1	1559.8	1585.1	1607.0
55°	1386.5	1391.1	1392.9	1396.5	1398.7	1405.1	1410.3	1420.4	1428.8	1443.2	1456.4
57.5°	1313.0	1319.3	1322.2	1323.5	1320.9	1320.6	1318.9	1321.1	1322.7	1330.4	1337.9
60°	1255.2	1260.3	1261.0	1260.3	1255.5	1252.1	1246.6	1244.9	1244.1	1247.8	1251.8
62.5°	1194.5	1196.4	1195.1	1193.7	1188.3	1184.9	1179.3	1177.3	1175.3	1177.9	1180.1
65°	1110.8	1112.3	1110.8	1109.9	1105.1	1102.4	1097.7	1096.1	1093.4	1094.1	1093.6
67.5°	1042.8	1044.4	1043.1	1041.8	1038.5	1036.9	1033.4	1031.1	1027.9	1026.6	1024.3
70°	974.9	976.2	974.2	973.0	969.2	967.7	964.4	963.7	961.2	960.6	957.9
72.5°	896.9	897.0	894.4	893.6	890.7	890.6	889.3	890.5	890.3	891.7	891.1
75°	817.2	816.0	812.6	812.0	809.9	810.9	809.4	811.4	811.6	814.5	814.9
77.5°	737.2	733.0	726.6	723.5	719.2	718.6	716.2	717.8	717.3	720.7	722.1
80°	636.2	631.1	622.9	618.9	613.8	613.0	610.8	613.0	611.9	615.9	618.6
82.5°	507.9	503.5	495.0	491.7	485.9	486.4	484.0	486.4	486.1	492.0	495.4
85°	375.7	372.8	363.9	356.2	347.4	342.3	337.3	336.4	335.0	337.3	339.4
87.5°	217.0	214.3	207.4	202.8	187.6	188.3	182.3	181.9	180.4	179.1	182.3
90°	51.4	56.6	56.9	61.7	62.5	67.9	69.0	74.2	75.0	80.4	81.9
92.5°	44.9	47.8	50.7	53.6	56.5	59.4	62.3	65.2	71.5	77.4	84.0
95°	62.1	65.4	68.8	72.2	75.5	78.9	82.2	85.6	94.7	103.8	113.1
97.5°	88.6	90.8	93.0	95.2	97.4	99.7	101.9	104.1	114.0	123.9	133.7
100°	114.1	115.9	117.7	119.5	121.3	123.1	124.8	126.6	145.9	164.8	183.9
102.5°	180.5	188.2	195.8	203.3	211.0	218.7	226.2	233.8	277.4	320.9	364.5
105°	338.1	358.8	379.7	400.5	421.3	442.0	462.9	483.7	553.4	623.1	693.0
107.5°	622.1	654.9	687.7	720.7	753.5	786.4	819.2	852.1	920.1	988.3	1056.2
110°	949.1	980.5	1011.7	1043.1	1074.3	1105.8	1137.1	1168.6	1209.5	1250.1	1291.0

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	1183.1	1198.3	1213.5	1228.8	1244.1	1259.6	1274.8	1290.2	1310.7	1331.0	1351.4
115°	1254.0	1254.9	1255.9	1257.0	1258.1	1259.1	1260.5	1261.5	1268.0	1274.4	1280.9
117.5°	1194.4	1186.0	1177.8	1169.4	1161.2	1153.2	1144.9	1137.0	1135.6	1134.3	1133.2
120°	1073.8	1062.6	1051.4	1040.2	1029.3	1018.2	1007.4	996.6	991.0	985.4	980.0
122.5°	929.2	918.1	907.0	895.9	885.0	874.2	863.5	852.8	848.9	845.1	841.2
125°	793.0	783.7	774.4	765.4	756.4	747.4	738.7	729.9	729.7	729.3	729.3
127.5°	683.2	677.5	672.0	666.5	661.3	656.0	650.8	645.6	648.1	650.4	652.8
130°	607.4	604.9	602.7	600.3	598.4	596.2	594.3	592.3	596.6	600.8	605.0
132.5°	562.4	561.9	561.7	561.4	561.4	561.5	561.7	561.7	566.7	571.4	576.4
135°	536.3	537.0	538.0	538.9	540.2	541.2	542.5	543.6	548.4	552.9	557.7
137.5°	523.8	524.8	526.2	527.6	529.3	530.7	532.5	534.1	537.8	541.5	545.2
140°	518.3	519.1	520.3	521.5	522.7	523.9	525.4	526.7	529.8	532.7	535.5
142.5°	513.6	514.3	515.4	516.6	517.8	518.9	520.2	521.4	523.7	525.6	528.2
145°	514.1	514.7	515.6	516.3	517.2	518.1	519.1	520.0	521.5	522.8	524.1
147.5°	510.7	511.0	511.6	512.2	512.8	513.4	513.9	514.5	515.5	516.3	517.3
150°	504.8	504.8	505.1	505.2	505.7	506.0	506.5	506.7	507.4	508.1	509.1
152.5°	494.7	494.7	495.0	495.0	495.4	495.7	495.8	496.1	496.9	497.5	498.3
155°	486.4	486.9	487.3	487.7	488.3	488.5	489.1	489.4	490.0	490.4	490.9
157.5°	481.7	482.0	482.5	482.8	483.3	483.7	484.2	484.5	485.0	485.3	485.8
160°	476.8	477.5	478.1	478.7	479.4	479.9	480.6	481.3	481.7	482.1	482.5
162.5°	476.8	477.2	477.7	478.0	478.5	478.9	479.3	479.6	480.4	480.9	481.7
165°	475.4	476.1	476.9	477.3	478.1	478.8	479.4	479.9	480.3	480.7	481.1
167.5°	477.8	478.2	479.0	479.6	480.2	480.8	481.5	482.1	482.5	482.8	483.2
170°	477.9	478.4	479.0	479.5	480.0	480.5	481.2	481.7	482.3	482.8	483.5
172.5°	481.6	482.0	482.4	482.8	483.3	483.8	484.3	484.7	485.1	485.5	486.1
175°	484.4	484.4	484.5	484.6	484.8	484.8	484.9	485.0	485.1	485.2	485.3
177.5°	485.1	485.4	485.6	485.8	486.0	486.3	486.5	486.7	486.7	486.7	486.7
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30869.5	30870.9	30845.9	30844.6	30821.2	30818.3	30795.6	30788.6	30770.2	30763.5	30744.7
5°	31806.1	31775.7	31705.7	31664.4	31595.2	31549.3	31474.4	31425.4	31353.2	31298.5	31225.7
7.5°	32753.3	32706.1	32627.5	32563.7	32467.6	32390.9	32278.5	32186.3	32064.5	31959.1	31831.2
10°	*33031.1*	*33023.8*	*33003.8*	*32974.6*	*32929.9*	*32879.6*	*32803.1*	*32723.2*	*32616.6*	*32500.5*	*32358.4*
12.5°	32347.5	32421.4	32522.0	32581.7	32654.2	32686.0	32715.8	32708.3	32688.8	32630.1	32547.9
15°	30616.0	30823.4	31098.1	31310.9	31555.8	31733.7	31930.2	32052.7	32174.9	32231.3	32265.8
17.5°	27861.5	28254.3	28746.8	29154.8	29625.7	30003.9	30418.5	30730.6	31051.5	31281.4	31489.4
20°	24323.5	24892.5	25588.9	26204.2	26919.6	27541.4	28222.7	28782.0	29358.8	29809.9	30236.8
22.5°	20485.8	21161.6	22003.6	22783.7	23705.9	24534.9	25470.1	26284.0	27133.9	27843.9	28530.4
25°	16712.2	17453.2	18373.9	19244.2	20288.8	21253.0	22362.1	23376.5	24474.9	25428.6	26370.7
27.5°	13266.3	13993.8	14933.8	15860.2	16964.7	17992.1	19180.5	20298.2	21548.8	22702.2	23882.0
30°	10434.1	11051.1	11893.9	12791.2	13880.7	14926.1	16127.3	17276.9	18577.9	19837.3	21166.2
32.5°	8266.6	8736.7	9399.3	10158.0	11163.2	12158.4	13302.2	14411.9	15693.2	16965.3	18347.5
35°	6565.2	6931.8	7437.0	8029.1	8880.4	9738.2	10750.0	11759.2	12954.5	14161.6	15505.1
37.5°	5177.0	5474.5	5870.2	6315.0	6997.8	7701.8	8531.4	9368.0	10406.7	11476.6	12694.2
40°	4042.7	4283.5	4591.6	4923.3	5438.9	5981.3	6622.9	7271.7	8106.2	8980.7	9988.3
42.5°	3175.8	3353.6	3571.2	3813.5	4294.5	4582.5	5017.6	5486.8	6100.3	6735.2	7492.7
45°	2550.5	2671.7	2822.6	2985.1	3208.4	3452.7	3750.7	4063.1	4646.0	4931.8	5392.5
47.5°	2129.9	2211.3	2307.3	2409.7	2541.4	2683.5	2860.2	3040.8	3274.5	3516.7	3800.6
50°	1846.7	1929.4	1962.3	2015.4	2091.7	2172.8	2272.4	2372.0	2497.3	2624.4	2770.5
52.5°	1636.4	1663.4	1699.2	1732.9	1780.2	1872.6	1902.5	1954.5	2024.9	2093.5	2170.3
55°	1475.9	1493.5	1516.7	1537.2	1565.7	1593.0	1632.4	1667.0	1713.9	1755.3	1806.2
57.5°	1350.9	1362.1	1378.3	1391.7	1410.2	1425.5	1448.6	1467.4	1494.3	1517.8	1548.7
60°	1260.1	1267.6	1278.4	1287.2	1299.0	1307.0	1318.4	1327.3	1341.5	1353.4	1370.6
62.5°	1186.0	1189.8	1196.9	1202.0	1209.5	1213.6	1219.7	1223.5	1231.4	1237.4	1247.0
65°	1097.0	1097.9	1102.6	1104.8	1110.7	1112.8	1117.8	1119.6	1126.1	1130.5	1139.0
67.5°	1024.1	1022.1	1022.2	1020.5	1021.3	1019.5	1020.0	1018.2	1020.8	1022.2	1028.6
70°	957.5	954.7	953.8	950.7	949.8	946.6	945.7	942.9	942.6	941.7	944.0
72.5°	892.6	891.8	892.1	889.9	889.7	887.6	887.7	886.3	887.8	888.5	891.4
75°	818.0	818.2	819.7	817.8	818.3	816.6	817.3	815.6	816.5	816.1	819.0
77.5°	727.3	729.4	733.4	732.6	733.9	731.8	732.7	730.3	731.0	729.4	730.5
80°	625.1	629.6	634.9	634.7	637.0	635.5	637.6	635.3	636.2	633.5	632.8
82.5°	503.9	507.7	513.4	513.6	518.6	519.5	525.0	524.8	528.4	526.1	524.5
85°	344.5	347.1	352.0	354.8	359.9	363.1	368.4	370.5	366.7	373.7	368.2
87.5°	179.9	186.5	182.8	191.5	189.5	198.3	196.5	204.6	202.9	210.0	209.1
90°	88.5	90.6	97.4	99.8	107.8	110.8	112.8	109.1	110.8	107.4	109.1
92.5°	89.9	96.5	102.6	108.9	115.1	121.5	115.6	109.8	104.0	98.3	92.4
95°	122.2	131.3	140.5	149.7	158.8	168.0	158.1	148.4	138.6	128.8	119.0
97.5°	143.5	153.3	163.2	173.0	182.9	192.7	181.1	169.5	158.0	146.5	134.8
100°	202.8	221.9	240.9	259.9	279.0	297.9	276.4	254.7	233.2	211.5	189.9
102.5°	408.3	451.8	495.5	539.2	582.7	626.3	580.4	534.8	488.7	442.8	396.8
105°	762.7	832.5	902.2	972.0	1041.7	1111.7	1037.3	962.8	888.4	814.1	739.6
107.5°	1124.3	1192.2	1260.5	1328.4	1396.5	1464.8	1389.3	1313.7	1238.4	1162.8	1087.3
110°	1332.1	1372.8	1413.8	1454.9	1495.6	1536.8	1481.6	1426.7	1371.5	1316.3	1261.2

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	1371.9	1392.5	1412.8	1433.5	1453.9	1474.5	1435.0	1395.8	1356.2	1317.0	1277.5
115°	1287.5	1294.0	1300.6	1307.2	1313.7	1320.3	1293.8	1267.1	1240.6	1214.0	1187.3
117.5°	1132.0	1131.0	1129.6	1128.6	1127.4	1126.3	1111.4	1096.5	1081.7	1066.8	1051.7
120°	974.3	969.0	963.5	958.0	952.5	946.9	940.6	934.3	928.0	921.6	915.1
122.5°	837.3	833.7	829.7	826.0	822.1	818.1	815.7	813.3	810.8	808.3	805.7
125°	729.2	728.9	728.8	728.7	728.3	728.2	726.8	725.6	724.2	723.1	721.5
127.5°	655.2	657.5	659.8	662.3	664.3	666.7	666.3	666.0	665.6	665.2	664.8
130°	609.0	613.4	617.5	621.5	625.4	629.6	628.8	628.1	627.3	626.5	625.9
132.5°	581.2	585.9	590.7	595.7	600.2	605.0	604.0	603.2	602.0	601.3	600.2
135°	562.2	566.9	571.2	575.8	580.1	584.6	583.4	582.3	581.0	579.9	578.8
137.5°	548.6	552.5	556.0	559.5	562.9	566.5	565.2	564.1	562.7	561.8	560.5
140°	538.4	541.2	544.0	546.8	549.6	552.3	550.8	549.4	547.8	546.3	544.8
142.5°	530.1	532.3	534.2	536.4	538.3	540.4	538.2	536.2	534.2	532.2	530.1
145°	525.5	527.0	528.3	529.5	530.5	532.0	529.5	527.4	524.7	522.6	520.1
147.5°	518.1	518.9	519.4	520.4	520.8	521.7	519.4	517.2	514.9	512.6	510.3
150°	509.6	510.5	511.1	511.8	512.4	513.0	510.7	508.3	505.8	503.5	501.2
152.5°	499.0	499.7	500.3	500.8	501.5	501.9	499.6	497.6	495.3	492.9	490.6
155°	491.2	491.7	492.0	492.4	492.5	492.9	490.9	489.2	487.3	485.4	483.5
157.5°	486.1	486.6	486.9	487.2	487.4	487.7	486.3	485.0	483.4	482.0	480.5
160°	482.9	483.2	483.6	483.8	484.1	484.3	483.0	482.0	480.7	479.5	478.1
162.5°	482.2	482.8	483.3	483.8	484.3	484.8	483.3	481.9	480.4	479.0	477.5
165°	481.4	481.8	482.1	482.5	482.6	482.9	481.9	481.0	479.9	479.1	477.9
167.5°	483.5	483.9	484.2	484.5	484.6	484.8	483.9	483.0	481.9	480.8	479.7
170°	483.8	484.3	484.8	485.2	485.6	485.9	485.2	484.5	483.6	482.8	481.8
172.5°	486.5	486.9	487.1	487.7	487.9	488.3	487.5	486.6	485.8	485.0	484.0
175°	485.3	485.5	485.7	485.7	485.7	485.8	485.1	484.5	483.9	483.2	482.5
177.5°	486.7	486.7	486.7	486.6	486.6	486.6	486.1	485.7	485.2	484.9	484.3
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2	30546.2
2.5°	30738.0	30724.7	30716.0	30705.1	30698.5	30689.9	30683.7	30678.4	30674.1	30670.2	30667.2
5°	31170.3	31101.6	31048.3	30990.5	30943.0	30895.8	30859.3	30829.1	30808.3	30792.7	30783.3
7.5°	31720.6	31594.8	31483.0	31365.2	31259.7	31155.9	31066.4	30989.4	30931.6	30894.0	30871.3
10°	*32212.1*	*32043.7*	*31877.2*	*31701.9*	*31535.8*	*31374.5*	*31225.7*	*31094.9*	*30991.3*	*30922.4*	*30882.2*
12.5°	32432.3	32288.9	32118.8	31928.6	31724.8	31518.9	31318.0	31136.9	30984.9	30882.8	30824.0
15°	32238.3	32179.4	32064.0	31916.3	31723.1	31510.0	31274.2	31052.6	30848.7	30716.4	30639.8
17.5°	31607.2	31689.4	31680.5	31624.1	31485.1	31305.8	31065.4	30816.5	30561.4	30384.7	30288.2
20°	30542.1	30800.4	30931.6	30998.7	30944.2	30827.9	30610.4	30357.7	30060.4	29829.6	29688.9
22.5°	29045.4	29501.5	29785.7	29993.7	30037.9	29998.2	29806.2	29565.8	29234.5	28957.1	28749.1
25°	27118.5	27786.9	28236.1	28588.2	28725.0	28760.3	28596.9	28357.9	27988.5	27665.4	27379.7
27.5°	24849.1	25717.4	26317.2	26790.4	27004.0	27096.6	26946.2	26702.4	26265.3	25879.6	25506.5
30°	22294.1	23324.3	24046.5	24613.8	24874.2	24996.6	24836.7	24564.6	24056.1	23592.0	23121.9
32.5°	19559.4	20686.8	21473.7	22089.9	22347.9	22463.0	22253.9	21948.2	21360.5	20813.7	20265.6
35°	16696.4	17834.1	18627.7	19227.5	19443.8	19513.2	19245.8	18892.5	18241.3	17641.1	17043.4
37.5°	13774.9	14833.5	15554.8	16093.1	16226.8	16238.8	15916.6	15526.5	14842.0	14250.2	13655.2
40°	10878.7	11771.4	12353.8	12784.6	12831.1	12789.7	12439.4	12046.7	11406.3	10876.2	10353.9
42.5°	8150.7	8824.5	9240.0	9535.3	9517.7	9435.9	9114.7	8777.1	8248.9	7845.1	7434.0
45°	5813.4	6257.8	6500.7	6673.5	6618.0	6540.0	6290.0	6053.5	5694.5	5433.7	5157.5
47.5°	4038.6	4569.3	4476.9	4814.7	4523.7	4715.9	4315.6	4094.9	3904.5	3765.9	3609.8
50°	2891.3	3012.9	3071.7	3111.8	3090.4	3060.9	2989.0	2924.7	2837.7	2774.2	2700.4
52.5°	2232.9	2293.7	2327.0	2351.1	2346.4	2335.6	2304.2	2275.5	2234.9	2208.0	2175.6
55°	1891.4	1892.3	1953.6	1927.2	1966.0	1920.6	1938.4	1888.0	1896.2	1853.0	1823.9
57.5°	1571.6	1596.6	1607.8	1618.6	1615.6	1613.7	1601.5	1595.4	1581.8	1577.5	1567.8
60°	1382.5	1395.5	1398.3	1403.2	1399.1	1397.4	1388.0	1384.5	1375.4	1373.6	1367.2
62.5°	1252.8	1259.5	1259.5	1259.5	1254.0	1248.8	1238.3	1232.8	1224.9	1223.2	1219.5
65°	1144.6	1151.4	1152.6	1154.1	1150.1	1146.0	1136.7	1130.7	1122.6	1119.6	1115.3
67.5°	1032.8	1040.1	1042.7	1046.4	1044.2	1043.3	1037.0	1034.6	1029.3	1028.1	1024.1
70°	945.1	948.1	947.9	947.8	942.8	938.4	931.0	927.5	922.0	920.8	917.3
72.5°	892.9	895.1	893.7	891.7	885.3	878.7	870.1	863.8	856.5	852.0	846.9
75°	819.4	822.3	820.4	819.2	813.4	809.1	802.2	798.7	793.6	792.1	788.6
77.5°	729.1	730.5	727.6	727.3	722.9	720.1	714.9	714.0	710.3	710.4	706.9
80°	628.8	628.0	623.3	622.3	617.9	616.8	612.6	612.9	610.0	611.2	608.8
82.5°	517.4	514.5	508.3	506.5	501.4	501.0	498.2	500.5	498.7	501.4	499.8
85°	370.7	371.6	368.8	368.8	367.4	367.8	367.6	369.2	369.5	372.0	371.9
87.5°	206.7	209.6	209.1	211.8	211.7	214.7	215.8	220.3	220.9	225.0	225.0
90°	105.7	107.9	104.3	106.7	105.1	108.7	108.0	111.6	110.3	113.3	110.9
92.5°	86.6	80.8	75.1	69.3	66.3	63.2	60.7	57.4	54.7	51.6	48.6
95°	109.1	99.3	89.5	79.7	76.3	72.9	69.5	66.2	62.8	59.4	56.1
97.5°	123.2	111.6	100.0	88.4	85.5	82.6	79.6	76.7	73.8	70.9	68.0
100°	168.2	146.6	124.9	103.2	100.8	98.3	95.9	93.4	91.0	88.4	85.9
102.5°	351.0	304.9	258.9	213.0	204.2	195.6	186.8	178.1	169.3	160.7	152.0
105°	665.1	590.5	516.1	441.5	417.9	394.2	370.5	346.7	323.1	299.4	275.7
107.5°	1011.6	936.0	860.4	784.7	741.1	697.3	653.6	609.7	566.1	522.2	478.5
110°	1206.0	1150.7	1095.5	1040.1	1005.1	969.8	934.5	899.3	864.1	828.7	793.4

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1238.0	1198.5	1159.0	1119.2	1103.3	1087.3	1071.4	1055.4	1039.4	1023.2	1007.3
115°	1160.6	1133.9	1107.1	1080.2	1074.8	1069.1	1063.5	1057.7	1052.0	1046.2	1040.4
117.5°	1036.8	1021.8	1006.7	991.6	992.6	993.5	994.4	995.1	996.0	996.7	997.4
120°	908.6	902.2	895.7	889.3	894.1	898.9	903.7	908.3	913.0	917.5	922.1
122.5°	803.2	800.6	798.1	795.4	801.2	807.0	812.7	818.4	823.9	829.3	834.8
125°	720.3	718.8	717.6	716.0	722.1	727.8	733.7	739.2	745.0	750.3	755.8
127.5°	664.4	664.0	663.6	663.1	667.5	671.5	675.5	679.4	683.4	687.0	690.6
130°	625.1	624.2	623.6	622.7	626.5	630.1	633.9	637.3	640.8	644.0	647.1
132.5°	599.3	598.2	597.4	596.2	599.1	601.6	604.3	606.6	609.0	611.1	613.1
135°	577.6	576.3	575.1	573.8	576.4	578.9	581.3	583.4	585.6	587.4	589.4
137.5°	559.3	558.0	556.8	555.5	557.8	560.0	562.1	564.0	565.8	567.7	569.2
140°	543.4	541.7	540.4	538.8	540.8	542.7	544.7	546.3	548.1	549.5	551.0
142.5°	528.2	525.8	524.1	521.9	523.4	524.7	526.0	527.3	528.6	529.5	530.4
145°	517.9	515.2	513.0	510.6	511.7	512.7	513.8	514.9	515.6	516.3	517.1
147.5°	508.1	505.7	503.3	501.1	502.0	502.7	503.4	503.9	504.8	505.2	505.7
150°	498.8	496.1	493.7	491.2	492.0	492.5	493.1	493.7	494.4	494.6	495.1
152.5°	488.4	486.0	483.7	481.2	481.8	482.2	482.7	483.0	483.5	483.8	484.2
155°	481.5	479.5	477.5	475.4	476.0	476.3	476.6	476.9	477.2	477.4	477.6
157.5°	479.0	477.2	475.8	474.0	474.1	474.2	474.3	474.1	474.2	474.0	474.0
160°	476.9	475.4	474.1	472.7	472.7	472.7	472.8	472.6	472.5	472.3	472.2
162.5°	475.9	474.3	472.7	471.0	471.0	471.2	471.1	470.9	470.9	470.7	470.5
165°	476.9	475.7	474.5	473.3	473.2	472.9	472.8	472.3	472.1	471.7	471.3
167.5°	478.6	477.5	476.2	474.9	475.0	475.1	475.1	475.0	475.0	474.8	474.7
170°	480.9	479.9	479.1	478.1	477.9	477.8	477.5	477.3	476.9	476.7	476.4
172.5°	483.0	482.1	481.1	480.0	480.0	479.8	479.6	479.5	479.3	479.0	478.9
175°	481.7	481.1	480.2	479.5	479.4	479.3	479.2	479.1	478.9	478.8	478.5
177.5°	483.9	483.4	482.8	482.3	482.1	482.1	482.0	481.9	481.9	481.8	481.7
180°	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4	484.4

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

Scaled Data Report

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	30546.2	30546.2
2.5°	30664.5	30662.9
5°	30778.5	30776.7
7.5°	30865.2	30864.7
10°	*30875.4*	*30880.7*
12.5°	30813.8	30818.1
15°	30633.9	30642.3
17.5°	30289.9	30300.9
20°	29697.4	29708.9
22.5°	28737.9	28742.6
25°	27342.8	27323.1
27.5°	25440.9	25406.8
30°	23023.1	22990.2
32.5°	20140.5	20119.9
35°	16895.7	16882.7
37.5°	13479.4	13452.9
40°	10162.8	10085.6
42.5°	7254.0	7118.5
45°	5013.2	4852.6
47.5°	3499.7	3400.5
50°	2652.6	2620.6
52.5°	2161.5	2154.0
55°	1823.8	1820.5
57.5°	1570.0	1568.8
60°	1370.6	1370.3
62.5°	1222.0	1222.5
65°	1117.2	1117.4
67.5°	1025.1	1024.4
70°	918.5	917.7
72.5°	845.3	844.0
75°	788.6	787.8
77.5°	708.0	706.7
80°	610.4	608.8
82.5°	502.0	500.3
85°	374.4	374.6
87.5°	229.2	229.1
90°	113.7	110.9
92.5°	46.1	43.3
95°	52.7	49.4
97.5°	65.1	62.2
100°	83.5	81.0
102.5°	143.3	134.6
105°	252.1	228.4
107.5°	434.7	390.9
110°	758.1	722.9

TEST NUMBER: P1444607
CATALOG NUMBER: EHBR1-36-UNV-TA-L850-UPL36

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	991.1	975.0
115°	1034.4	1028.6
117.5°	998.0	998.5
120°	926.4	930.8
122.5°	839.9	845.2
125°	760.8	766.1
127.5°	694.1	697.4
130°	649.9	652.9
132.5°	615.0	616.6
135°	590.8	592.3
137.5°	570.4	571.8
140°	551.8	553.0
142.5°	531.2	531.9
145°	517.7	518.2
147.5°	505.6	506.0
150°	495.2	495.5
152.5°	484.1	484.4
155°	477.6	477.7
157.5°	473.7	473.6
160°	471.9	471.7
162.5°	470.3	470.1
165°	470.7	470.3
167.5°	474.5	474.4
170°	476.0	475.8
172.5°	478.6	478.3
175°	478.4	478.3
177.5°	481.7	481.5
180°	484.4	484.4

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: SP1-2506-472-4

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L850-N

Data in this report applies to families of products including EHBR-60-L850-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

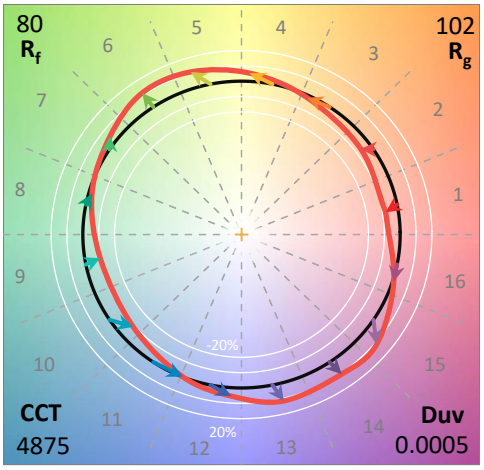
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-4
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-L850-N**
Description:	Elevate Round Highbay at, 60000 lumens, 5000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	4875	CRI (Ra):	82.3		
CIE u':	0.2124	R1:	85.0	R9:	43.9
CIE v':	0.4871	R2:	83.1	R10:	57.4
Duv:	0.0005	R3:	78.8	R11:	83.1
CIE x:	0.3488	R4:	84.0	R12:	51.0
CIE y:	0.3555	R5:	83.0	R13:	83.4
CIE z:	0.2957	R6:	76.3	R14:	87.4
Peak Wavelength (nm):	630	R7:	86.8	R15:	83.4
Dominant Wavelength (nm):	573	R8:	81.7		
Purity:	11.33556				

Rf:	80
Rg:	102.3



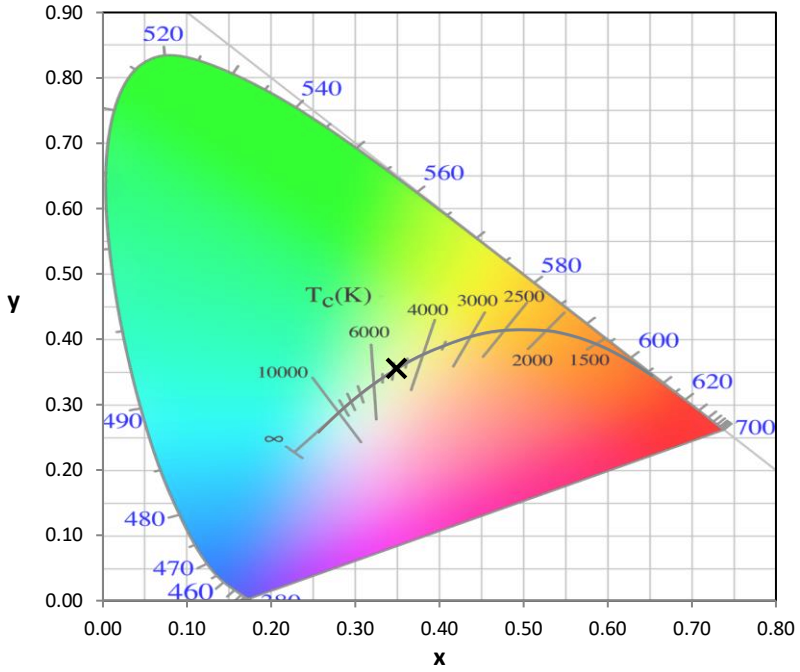
Test Conditions

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

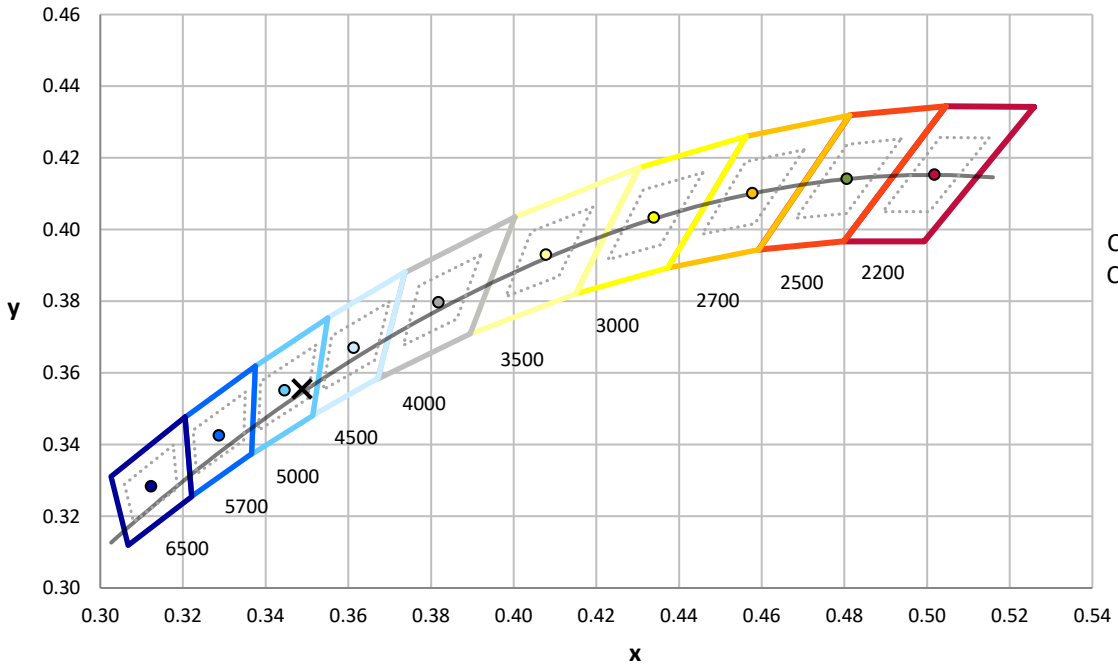
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-4

CIE 1931 Chromaticity Diagram



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

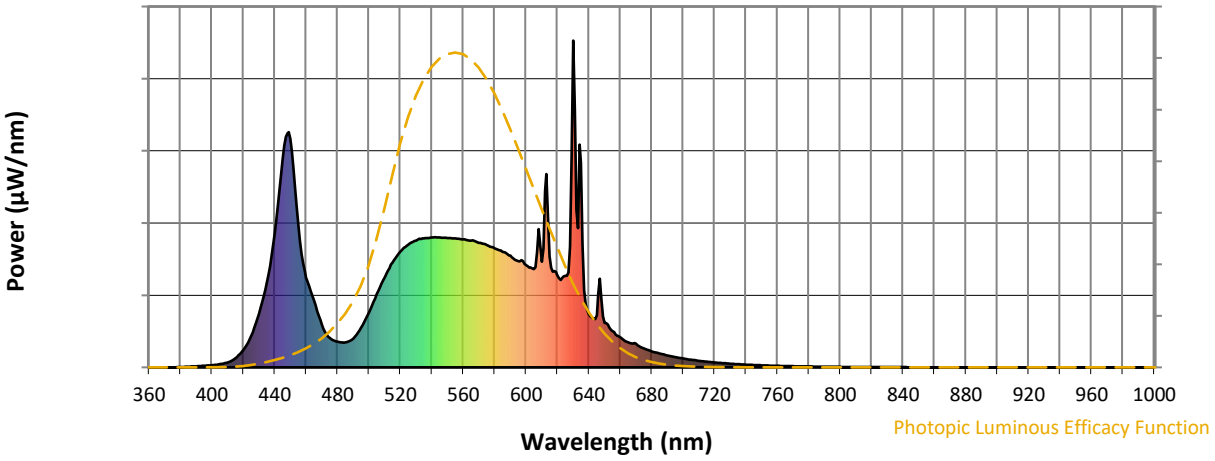


CCT = 4875K
CIE x = 0.3488
CIE y = 0.3555
Duv = 0.0005

Point lies inside the ANSI 5000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-4

Photopic Flux vs. Wavelength

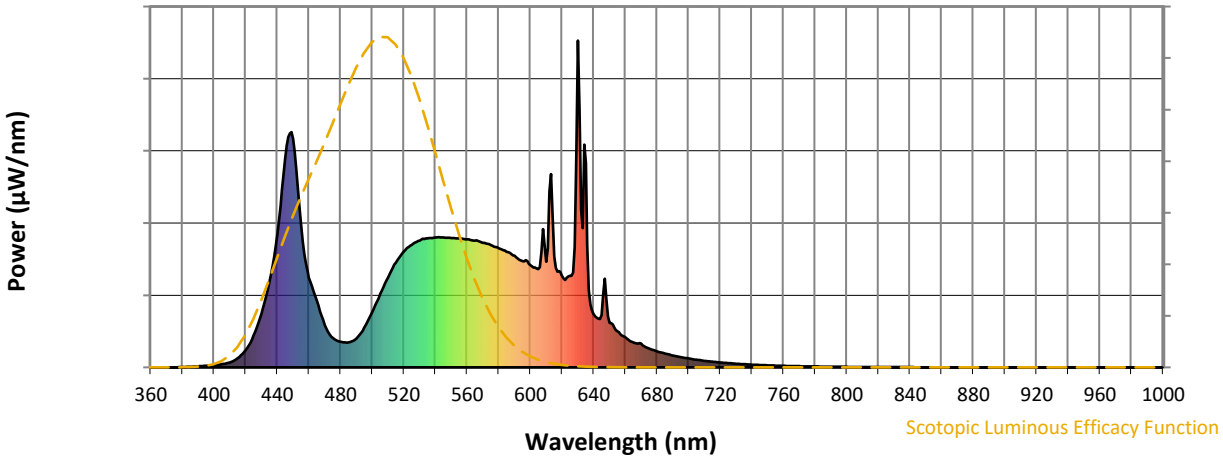


Photopic Lumens: NR

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	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-4

Scotopic Flux vs. Wavelength

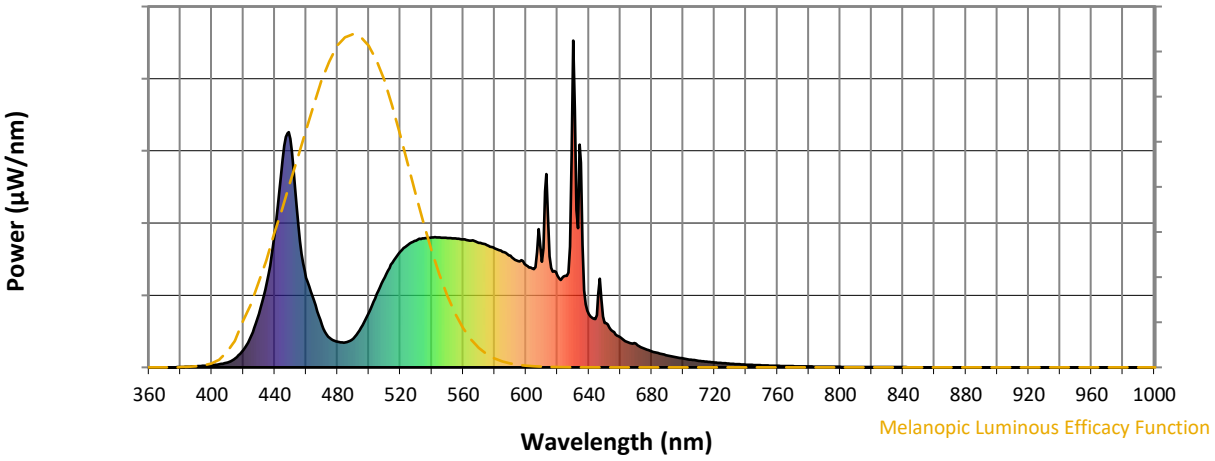


Scotopic Lumens: NR **S/P: 1.82**

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	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-4

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.71**

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	89	NR	620	280	NR	750	6	NR	880	0	NR
365	0	NR	495	121	NR	625	280	NR	755	5	NR	885	0	NR
370	0	NR	500	168	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	224	NR	635	626	NR	765	4	NR	895	0	NR
380	1	NR	510	275	NR	640	163	NR	770	4	NR	900	0	NR
385	2	NR	515	321	NR	645	160	NR	775	3	NR	905	0	NR
390	3	NR	520	354	NR	650	136	NR	780	3	NR	910	0	NR
395	5	NR	525	375	NR	655	111	NR	785	2	NR	915	0	NR
400	7	NR	530	388	NR	660	93	NR	790	2	NR	920	0	NR
405	10	NR	535	395	NR	665	76	NR	795	2	NR	925	0	NR
410	15	NR	540	397	NR	670	72	NR	800	2	NR	930	0	NR
415	28	NR	545	398	NR	675	57	NR	805	1	NR	935	0	NR
420	53	NR	550	396	NR	680	49	NR	810	1	NR	940	0	NR
425	97	NR	555	395	NR	685	42	NR	815	1	NR	945	0	NR
430	163	NR	560	392	NR	690	37	NR	820	1	NR	950	0	NR
435	261	NR	565	388	NR	695	32	NR	825	1	NR	955	0	NR
440	409	NR	570	381	NR	700	27	NR	830	1	NR	960	0	NR
445	637	NR	575	374	NR	705	23	NR	835	1	NR	965	0	NR
450	699	NR	580	365	NR	710	20	NR	840	1	NR	970	0	NR
455	436	NR	585	354	NR	715	17	NR	845	0	NR	975	0	NR
460	274	NR	590	342	NR	720	15	NR	850	0	NR	980	0	NR
465	205	NR	595	325	NR	725	13	NR	855	0	NR	985	0	NR
470	130	NR	600	313	NR	730	11	NR	860	0	NR	990	0	NR
475	90	NR	605	301	NR	735	10	NR	865	0	NR	995	0	NR
480	78	NR	610	323	NR	740	8	NR	870	0	NR	1000	0	NR
485	77	NR	615	340	NR	745	7	NR	875	0	NR			

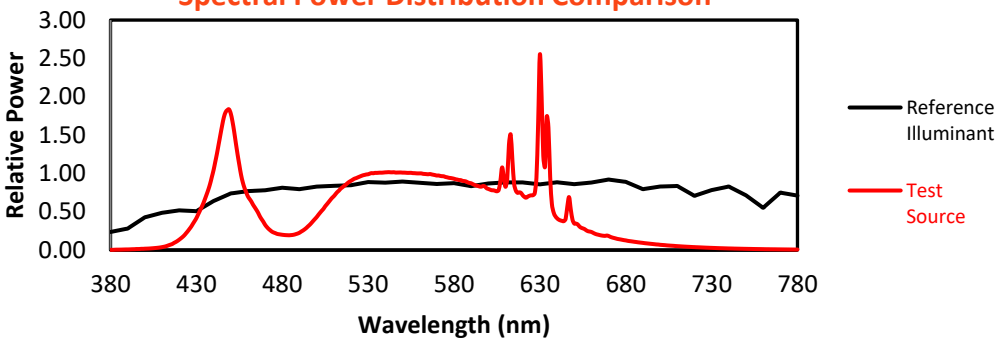
REPORT NUMBER: SP1-2506-472-4

TM-30-18

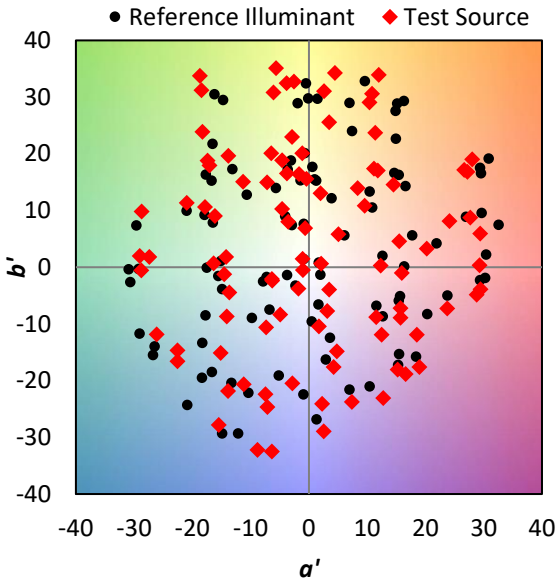
Summary

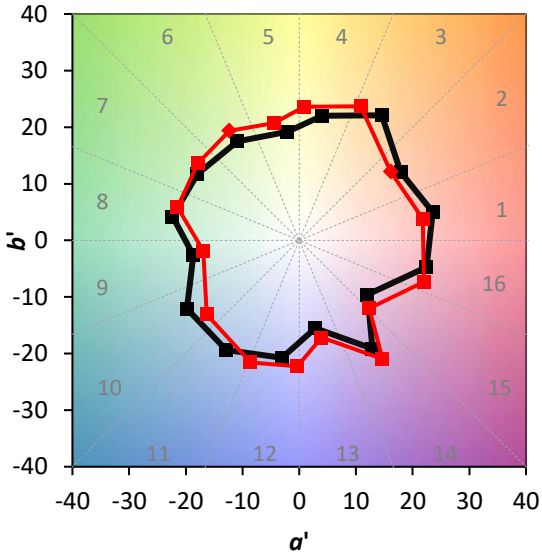
R_f = 80
R_g = 102.3
CIE R_a = 82.3
R_9 = 43.9

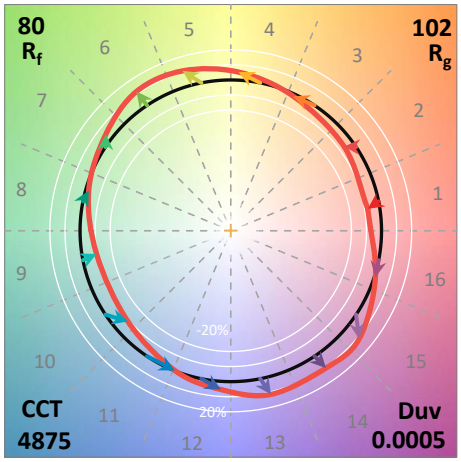
Spectral Power Distribution Comparison

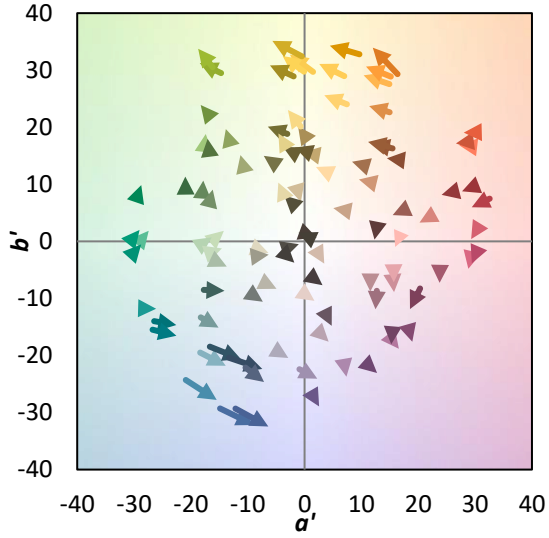


Color Vector Graphics









REPORT NUMBER: SP1-2506-472-4

TM-30-18

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

CES01 = 85	CES26 = 67	CES51 = 92	CES76 = 54
CES02 = 60	CES27 = 88	CES52 = 91	CES77 = 71
CES03 = 31	CES28 = 81	CES53 = 82	CES78 = 55
CES04 = 69	CES29 = 66	CES54 = 92	CES79 = 81
CES05 = 47	CES30 = 80	CES55 = 90	CES80 = 75
CES06 = 50	CES31 = 69	CES56 = 81	CES81 = 79
CES07 = 40	CES32 = 61	CES57 = 80	CES82 = 90
CES08 = 39	CES33 = 76	CES58 = 81	CES83 = 87
CES09 = 29	CES34 = 68	CES59 = 93	CES84 = 87
CES10 = 73	CES35 = 82	CES60 = 94	CES85 = 82
CES11 = 56	CES36 = 95	CES61 = 91	CES86 = 83
CES12 = 62	CES37 = 75	CES62 = 89	CES87 = 78
CES13 = 42	CES38 = 87	CES63 = 80	CES88 = 85
CES14 = 74	CES39 = 94	CES64 = 79	CES89 = 81
CES15 = 71	CES40 = 87	CES65 = 75	CES90 = 86
CES16 = 46	CES41 = 91	CES66 = 72	CES91 = 80
CES17 = 48	CES42 = 71	CES67 = 69	CES92 = 77
CES18 = 56	CES43 = 72	CES68 = 75	CES93 = 86
CES19 = 70	CES44 = 99	CES69 = 80	CES94 = 71
CES20 = 65	CES45 = 81	CES70 = 66	CES95 = 79
CES21 = 85	CES46 = 83	CES71 = 59	CES96 = 86
CES22 = 77	CES47 = 83	CES72 = 87	CES97 = 85
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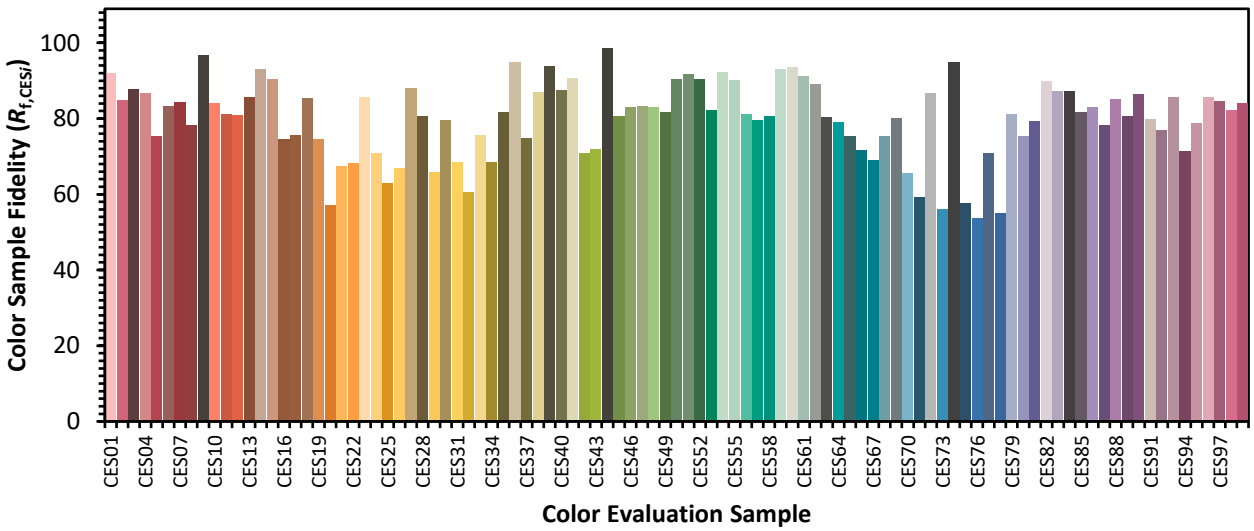

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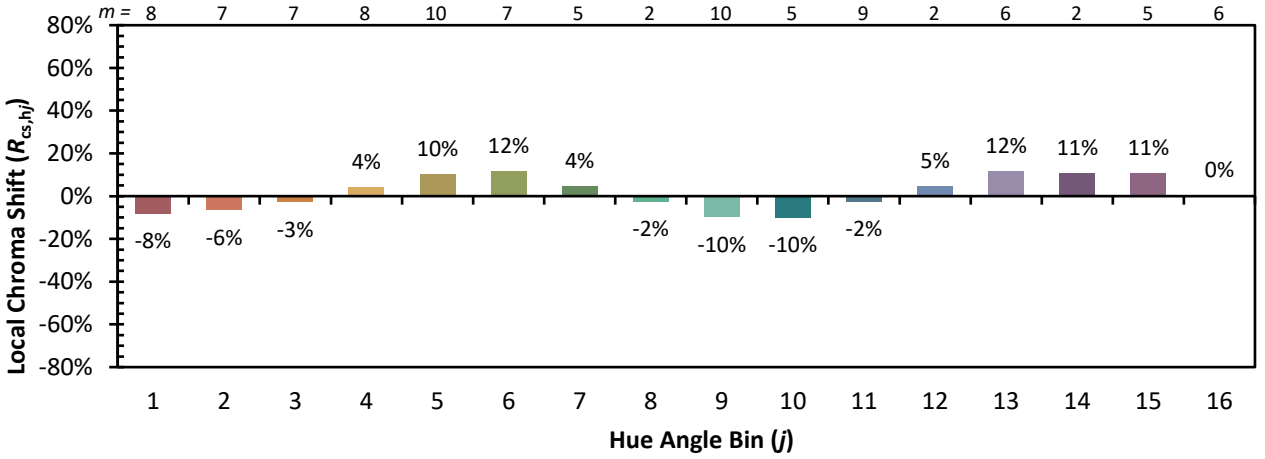
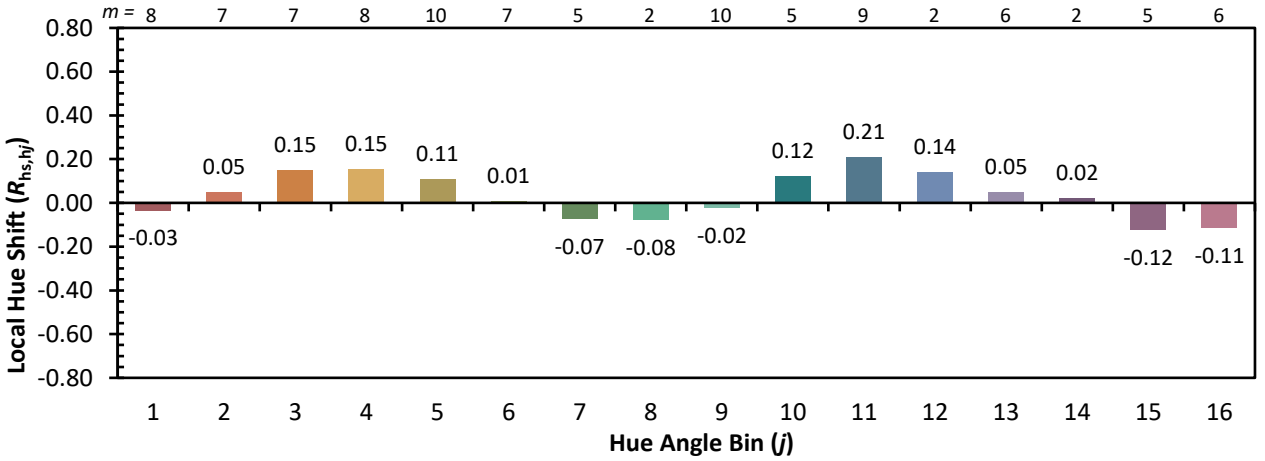
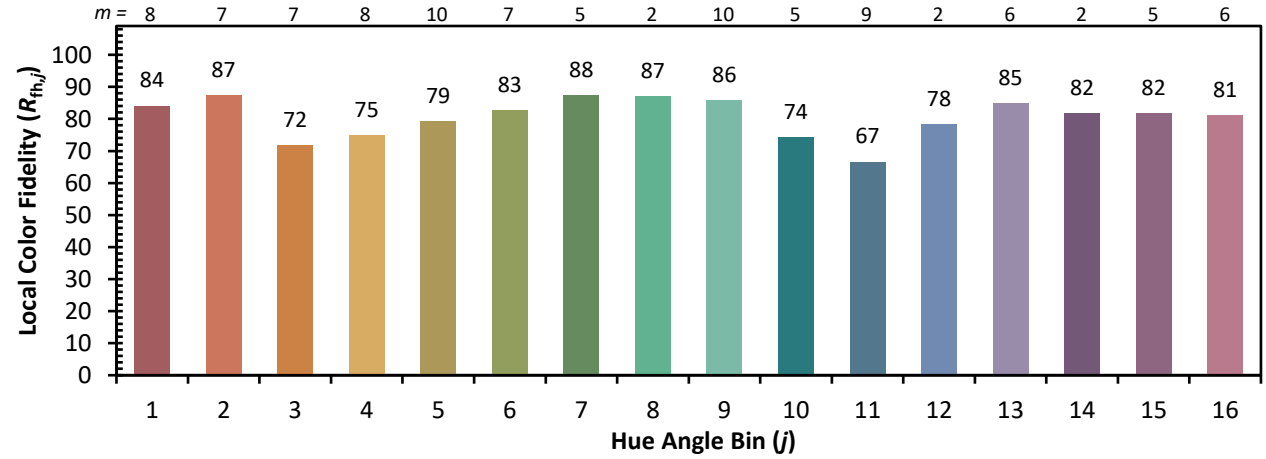
Color Rendition by Hue-Angle Bin







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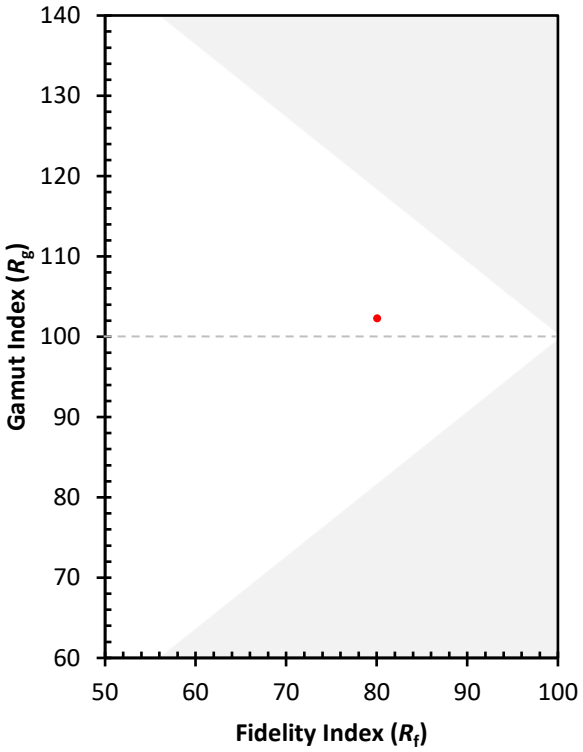
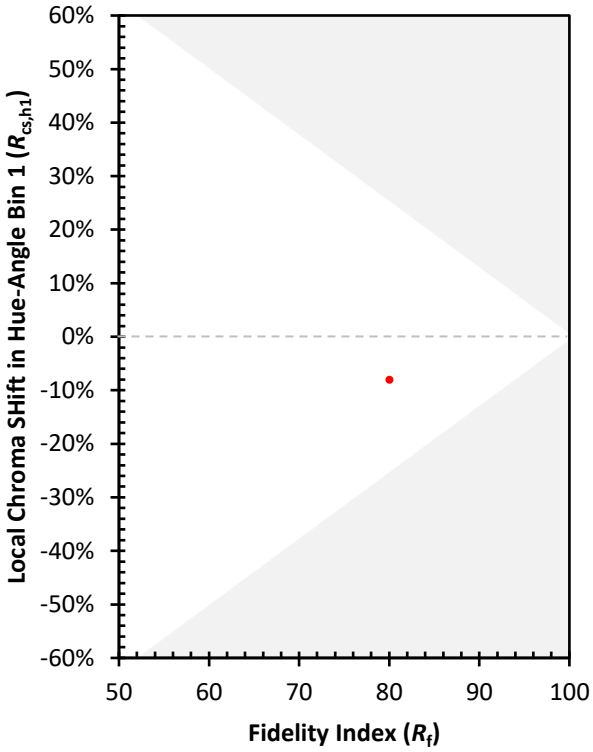
Measure Comparisons





(END OF REPORT)