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: P1444783

Luminaire Tested: EHBR1-60-UNV-TA-L935-UPL36

Issue Date: 5/1/2026

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1121 Highway 74 South
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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1444783
	REPORT IS A COMBINATION OF REPORTS P1444353 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	5/1/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-60-UNV-TA-L935-UPL36
Description:	Elevate Round Highbay at, 60000 lumens, 3500K 90CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	57066.1 lumens
Efficiency:	N/A
Efficacy:	159.0 lumens/watt
Spacing Criteria (0/90/45):	1.13 / 0.77 / 0.88
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

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

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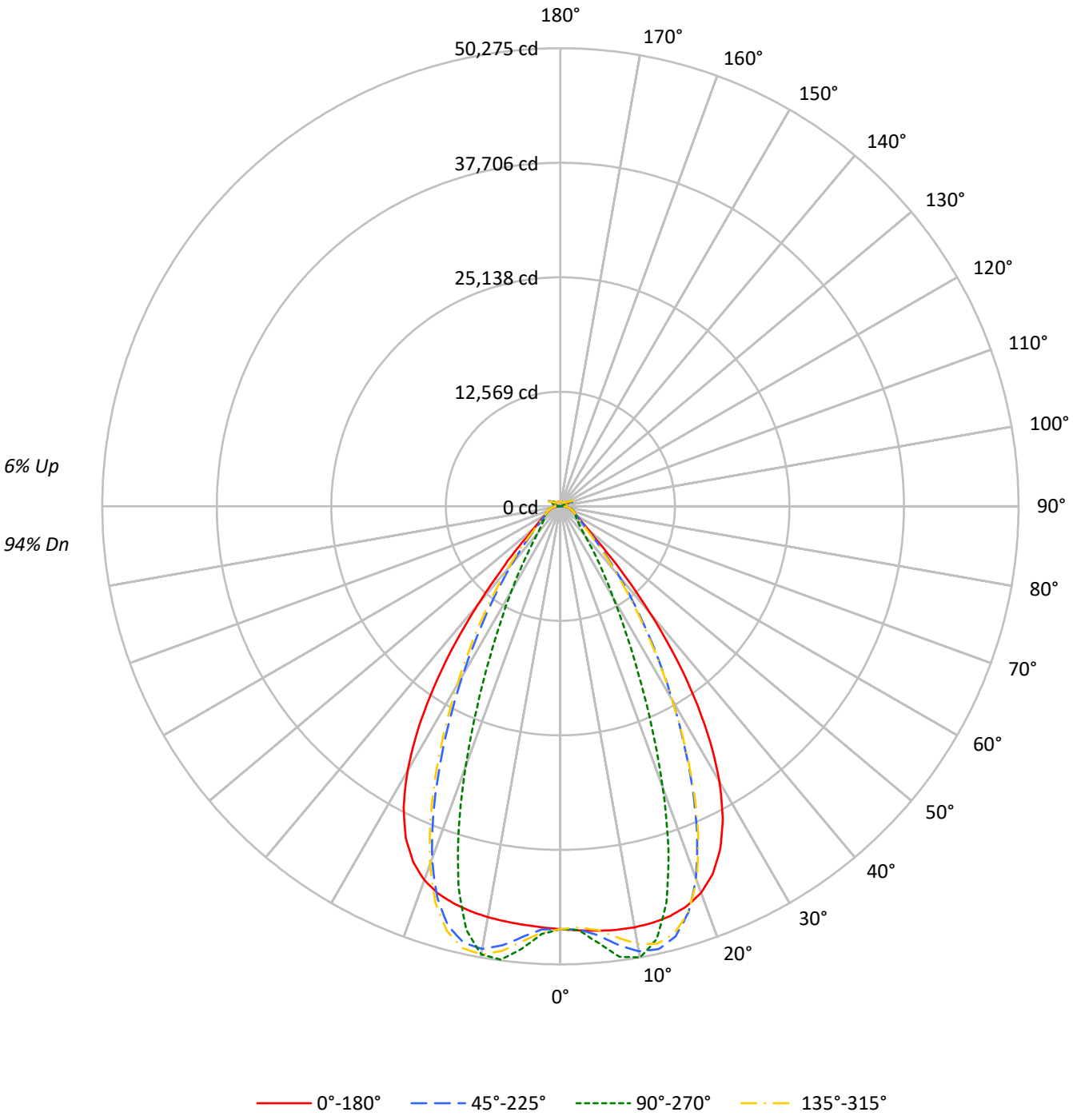
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	217936	217936	217936	217936
5°	218991	225377	215926	228329
10°	220819	236629	215524	235063
15°	221903	214502	215147	205865
20°	219608	159796	212421	147850
25°	207868	101062	200998	91696
30°	181588	60731	174555	55502
35°	139751	38109	131713	33758
40°	88405	23905	80884	22463
45°	45566	18623	44811	18317
50°	26715	16565	25895	16306
55°	20466	15672	19709	15531
60°	17317	16010	16580	15802
65°	16265	16718	15643	16148
70°	15892	17505	15100	16848
75°	16991	18565	16074	17745
80°	17583	20558	15941	18767
85°	16558	19834	13381	16986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
Vertical Angle: 45°
Luminance: 69732 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4573.6	8.0
10°-20°	12866.0	22.5
20°-30°	14653.4	25.7
30°-40°	10532.2	18.5
40°-50°	4857.4	8.5
50°-60°	2324.5	4.1
60°-70°	1696.1	3.0
70°-80°	1288.5	2.3
80°-90°	592.0	1.0
90°-100°	106.8	0.2
100°-110°	595.4	1.0
110°-120°	1099.6	1.9
120°-130°	677.6	1.2
130°-140°	441.9	0.8
140°-150°	332.9	0.6
150°-160°	235.2	0.4
160°-170°	143.5	0.3
170°-180°	49.4	0.1
0°-30°	32093.0	56.2
0°-40°	42625.2	74.7
0°-60°	49807.2	87.3
0°-90°	53383.7	93.5
90°-120°	1801.9	3.2
90°-150°	3254.3	5.7
90°-180°	3682.0	6.5
0°-180°	57066.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	46408	46408	46408	46408	46408	
5°	46758	48122	46104	48752	46758	4468
15°	46554	45001	45137	43189	46554	13117
25°	41511	20182	40139	18312	41511	18818
35°	25649	6994	24174	6196	25649	15742
45°	7372	3013	7250	2964	7372	6270
55°	2766	2118	2664	2099	2766	2553
65°	1698	1745	1633	1686	1698	1696
75°	1197	1308	1132	1250	1197	1245
85°	569	682	460	584	569	535
90°	153	194	43	53	153	95
95°	49	54	49	54	49	46
105°	216	277	146	278	216	286
115°	961	1161	1007	1162	961	888
125°	730	758	825	760	730	665
135°	584	511	628	516	584	455
145°	527	505	560	512	527	333
155°	498	497	529	502	498	232
165°	501	499	519	502	501	142
175°	516	520	525	521	516	49
180°	522	522	522	522	522	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46585.2	46581.5	46580.8	46577.5	46576.6	46576.6	46575.1	46571.4	46568.9	46563.6	46557.6
5°	46758.1	46756.1	46757.2	46757.6	46754.3	46747.1	46735.8	46721.8	46704.3	46687.7	46673.0
7.5°	46891.7	46895.0	46899.2	46898.3	46888.1	46871.1	46847.9	46834.8	46842.5	46867.8	46925.6
10°	*46916.1*	*46936.2*	*46943.9*	*46941.4*	*46921.2*	*46906.5*	*46912.2*	*46961.4*	*47059.2*	*47189.8*	*47368.4*
12.5°	46821.1	46845.5	46844.6	46836.6	46817.0	46836.9	46908.1	47054.4	47264.2	47521.7	47823.8
15°	46554.0	46585.6	46576.6	46566.2	46553.1	46618.6	46760.9	47015.1	47339.1	47702.2	48073.9
17.5°	46035.4	46073.6	46055.0	46043.2	46032.1	46154.9	46399.3	46771.6	47179.7	47590.3	47942.6
20°	45135.8	45161.5	45117.3	45096.5	45114.0	45354.6	45714.6	46190.0	46620.2	47008.6	47249.3
22.5°	43667.9	43699.7	43616.6	43607.0	43709.5	44079.1	44534.6	45066.0	45470.3	45778.0	45870.8
25°	41511.1	41542.4	41443.7	41502.7	41677.1	42180.5	42723.0	43291.4	43636.2	43864.3	43801.3
27.5°	38599.9	38628.5	38534.9	38655.3	38931.0	39592.5	40231.0	40847.5	41154.9	41314.7	41112.3
30°	34928.4	34987.7	34877.2	35045.2	35466.0	36324.9	37056.3	37747.7	38054.2	38175.9	37860.7
32.5°	30567.7	30652.1	30530.1	30780.3	31367.4	32399.1	33230.0	34002.6	34341.5	34480.4	34124.5
35°	25649.4	25770.5	25630.6	26005.9	26730.2	27879.0	28799.1	29661.6	30063.0	30259.8	29901.2
37.5°	20438.6	20554.1	20478.4	20979.1	21774.4	22965.1	23904.3	24834.8	25288.2	25583.5	25300.7
40°	15322.9	15428.5	15485.7	16058.3	16806.3	17928.5	18830.7	19751.4	20258.5	20629.2	20454.9
42.5°	10815.0	10921.4	11116.1	11668.5	12292.4	13221.3	13994.1	14820.7	15305.2	15700.6	15633.4
45°	7372.4	7496.0	7739.9	8192.2	8643.4	9309.8	9877.3	10520.1	10915.9	11278.1	11282.4
47.5°	5166.2	5253.0	5471.0	5779.8	6073.9	6908.3	6942.5	7258.4	7524.5	7795.2	7830.3
50°	3981.5	4033.8	4149.4	4321.5	4488.1	4704.7	4903.1	5131.9	5295.7	5444.1	5479.6
52.5°	3272.5	3305.7	3364.6	3457.7	3554.4	3672.3	3778.3	3904.1	3993.2	4072.6	4089.4
55°	2765.8	2793.3	2880.9	2898.6	3009.2	3030.5	3077.6	3154.2	3206.0	3253.6	3265.5
57.5°	2383.5	2403.4	2422.0	2461.8	2495.8	2545.3	2585.2	2640.1	2672.8	2707.2	2710.1
60°	2081.8	2096.2	2109.5	2137.0	2160.2	2194.7	2222.1	2259.5	2282.9	2308.7	2311.6
62.5°	1857.3	1867.7	1876.5	1894.7	1911.2	1937.6	1959.5	1990.7	2012.5	2032.4	2036.9
65°	1697.7	1705.3	1711.0	1724.7	1739.2	1761.7	1781.5	1806.9	1823.0	1838.3	1841.6
67.5°	1556.3	1563.6	1569.4	1582.0	1592.0	1608.8	1622.1	1641.2	1653.2	1665.4	1665.7
70°	1394.4	1401.1	1405.5	1417.2	1425.3	1439.8	1450.4	1467.6	1480.0	1493.6	1497.1
72.5°	1282.2	1286.2	1292.2	1302.8	1314.0	1329.5	1343.8	1361.7	1376.6	1390.8	1396.7
75°	1196.9	1201.5	1205.5	1214.6	1222.4	1235.4	1246.1	1262.4	1275.5	1290.6	1298.0
77.5°	1073.7	1079.1	1082.5	1091.7	1098.4	1110.9	1118.8	1133.5	1144.1	1157.8	1164.5
80°	925.0	930.0	932.3	941.0	946.3	957.8	965.6	979.7	988.6	1002.4	1010.5
82.5°	760.0	764.9	766.2	774.3	777.3	786.7	792.4	806.8	817.9	835.7	848.1
85°	569.1	570.8	573.6	571.5	583.0	583.8	596.8	599.3	616.4	620.9	640.5
87.5°	347.9	353.1	355.6	363.6	367.1	374.9	377.4	385.8	390.4	400.1	404.5
90°	152.9	161.2	164.3	174.1	176.9	185.6	187.9	197.8	200.8	210.8	215.3
92.5°	43.0	45.7	48.1	51.4	54.0	57.8	60.9	64.0	66.8	70.3	75.9
95°	48.7	51.8	54.8	57.9	61.0	64.2	67.2	70.3	73.4	76.5	85.4
97.5°	60.9	63.6	66.3	69.0	71.6	74.3	76.9	79.7	82.3	84.8	95.5
100°	78.8	81.0	83.3	85.6	87.8	90.1	92.4	94.6	96.9	99.2	118.9
102.5°	128.9	136.9	144.9	153.0	161.0	168.8	177.0	184.9	192.9	200.9	243.0
105°	216.3	238.0	260.0	281.7	303.5	325.4	347.2	368.7	390.5	412.2	481.0
107.5°	367.4	407.6	448.0	488.3	528.8	568.9	609.3	649.5	689.7	729.7	799.5
110°	675.2	707.4	739.9	772.3	804.6	837.3	869.6	901.6	934.2	966.4	1017.4

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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	909.6	924.1	938.7	953.4	968.0	982.4	997.0	1011.5	1026.1	1040.4	1076.8
115°	961.1	966.1	971.2	976.1	981.3	986.2	991.2	996.0	1001.0	1005.7	1030.2
117.5°	935.7	934.6	933.6	932.7	931.3	930.3	929.1	927.8	926.5	925.2	938.9
120°	875.9	871.2	866.6	861.6	857.0	852.0	847.3	842.4	837.4	832.3	838.1
122.5°	799.8	794.2	788.9	783.0	777.3	771.4	765.7	759.4	753.8	747.8	749.7
125°	730.0	724.2	719.0	712.9	707.0	701.0	695.1	688.9	682.9	676.6	677.5
127.5°	670.0	666.0	662.0	657.5	653.1	648.7	644.0	639.4	635.1	630.1	630.1
130°	632.3	628.7	625.0	620.9	617.0	612.8	608.5	604.1	600.0	595.4	595.5
132.5°	602.3	599.9	597.1	594.1	591.0	587.5	584.3	580.7	577.3	574.0	574.1
135°	583.5	580.9	578.5	575.6	572.7	569.4	566.2	562.7	559.6	556.1	556.5
137.5°	567.8	565.5	563.2	560.4	557.8	554.5	551.7	548.3	545.3	542.0	542.3
140°	553.7	551.6	549.3	546.7	544.3	541.5	538.5	535.5	532.6	529.5	530.2
142.5°	537.2	535.3	533.6	531.5	529.4	526.8	524.4	521.7	519.3	516.6	517.7
145°	527.0	525.5	524.0	522.2	520.1	517.9	515.9	513.3	511.4	509.0	510.2
147.5°	518.1	516.9	515.8	514.2	512.7	510.6	508.8	506.6	504.9	502.9	504.2
150°	510.5	509.4	508.4	506.9	505.3	503.5	501.7	499.9	498.1	496.1	497.4
152.5°	502.0	500.7	499.8	498.4	496.9	494.9	493.8	491.8	490.2	488.3	489.4
155°	498.0	496.8	495.5	494.2	492.8	491.1	489.6	488.0	486.5	484.7	485.5
157.5°	496.5	495.2	494.4	493.0	492.0	490.7	489.4	488.0	486.8	485.5	486.0
160°	497.3	496.2	495.2	493.9	492.7	491.3	490.2	488.8	488.0	486.5	487.0
162.5°	498.5	497.3	496.1	494.9	493.9	492.4	491.3	490.3	489.1	487.8	488.4
165°	501.1	500.5	499.6	498.8	497.8	497.0	496.1	495.1	494.2	493.2	493.5
167.5°	507.5	506.5	505.6	504.6	503.6	502.7	501.6	500.6	499.7	498.6	498.8
170°	510.7	509.9	509.4	508.8	508.2	507.5	507.0	506.3	505.6	504.9	505.2
172.5°	514.5	513.9	513.5	513.2	512.4	512.2	511.6	511.1	510.7	510.1	510.7
175°	515.6	515.2	515.0	514.6	514.3	513.9	513.7	513.4	513.4	512.9	513.2
177.5°	519.3	519.1	519.1	519.0	519.0	518.9	518.7	518.3	518.1	518.1	518.4
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

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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°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46553.1	46547.4	46539.6	46529.8	46521.4	46511.6	46488.4	46481.5	46489.2	46494.4	46505.1
5°	46663.7	46667.0	46668.2	46689.3	46707.6	46753.1	47110.2	47252.1	47361.8	47431.5	47537.2
7.5°	46997.2	47104.5	47210.6	47353.3	47476.5	47642.8	48267.6	48533.4	48722.4	48858.3	49025.5
10°	*47562.3*	*47796.6*	*48016.2*	*48273.5*	*48494.7*	*48748.1*	*49329.6*	*49588.6*	*49752.2*	*49871.2*	*49982.3*
12.5°	48131.6	48456.5	48750.2	49036.5	49275.9	49495.5	49700.1	49790.7	49798.4	49802.2	49743.2
15°	48428.2	48738.8	48997.4	49186.8	49327.5	49389.8	49037.7	48853.0	48619.6	48427.3	48111.0
17.5°	48241.0	48427.3	48539.1	48528.1	48469.9	48275.3	47278.0	46729.5	46185.0	45694.3	45050.9
20°	47409.1	47394.8	47297.7	47022.3	46690.5	46174.6	44465.0	43478.5	42524.9	41687.2	40671.1
22.5°	45861.3	45617.8	45278.3	44684.6	44024.9	43123.5	40673.5	39222.6	37895.0	36722.1	35408.3
25°	43618.7	43117.7	42491.4	41548.9	40523.9	39209.2	36189.4	34384.8	32790.7	31408.2	29892.3
27.5°	40748.6	39993.9	39076.2	37771.6	36383.0	34698.6	31350.7	29359.1	27647.9	26165.7	24552.2
30°	37350.7	36369.2	35184.1	33565.0	31890.0	29979.6	26584.2	24566.9	22834.9	21310.0	19695.3
32.5°	33510.8	32361.2	30972.5	29155.2	27343.9	25379.7	22100.5	20147.8	18493.3	17026.3	15564.8
35°	29275.7	28042.8	26573.7	24720.1	22919.5	21009.9	18001.0	16240.3	14779.2	13482.6	12302.5
37.5°	24732.6	23522.1	22125.8	20378.8	18709.1	16978.6	14382.4	12907.0	11681.0	10604.8	9693.6
40°	20009.2	18949.9	17741.7	16231.4	14806.4	13365.3	11234.1	10063.0	9095.4	8274.6	7591.8
42.5°	15343.5	14522.6	13596.1	12402.6	11312.2	10214.9	8574.6	7706.9	6990.2	6399.3	5916.6
45°	11132.3	10583.1	9961.6	9132.0	8377.5	7612.1	6444.6	5834.9	5368.1	4987.1	4665.0
47.5°	7782.0	7463.4	7444.0	6677.3	6124.0	5656.0	4903.9	4518.8	4232.7	4001.9	3798.0
50°	5465.1	5311.0	5119.6	4845.9	4589.1	4324.6	3866.4	3633.6	3466.0	3326.1	3197.2
52.5°	4085.6	4005.5	3903.6	3758.4	3619.2	3470.5	3180.5	3032.2	2979.6	2849.4	2747.3
55°	3263.2	3217.3	3159.4	3074.0	2989.4	2955.5	2707.0	2596.9	2527.3	2475.8	2421.0
57.5°	2710.6	2676.4	2641.9	2584.2	2535.2	2475.8	2343.9	2287.5	2246.1	2215.8	2177.8
60°	2312.1	2291.7	2272.3	2238.5	2212.0	2180.0	2096.2	2064.4	2042.8	2024.6	2000.3
62.5°	2040.7	2030.2	2020.2	2002.2	1988.8	1971.4	1914.1	1898.9	1888.0	1878.8	1864.0
65°	1844.8	1837.2	1831.7	1819.7	1813.0	1802.9	1753.7	1743.3	1736.6	1733.4	1724.7
67.5°	1666.8	1658.9	1655.2	1646.7	1643.9	1637.6	1597.3	1591.6	1589.4	1590.4	1587.3
70°	1500.3	1497.1	1498.7	1497.3	1501.2	1502.3	1478.0	1477.8	1480.3	1485.5	1486.0
72.5°	1400.6	1400.6	1402.5	1403.3	1406.9	1408.6	1388.3	1387.3	1388.5	1392.3	1392.5
75°	1305.6	1307.1	1312.3	1314.0	1318.3	1319.2	1292.3	1289.3	1289.4	1293.1	1291.9
77.5°	1174.2	1179.9	1189.6	1194.8	1203.1	1204.6	1174.5	1170.9	1171.1	1174.7	1171.6
80°	1025.1	1035.9	1051.5	1062.4	1075.1	1080.3	1049.3	1041.9	1035.0	1034.0	1027.9
82.5°	866.6	880.0	898.6	908.5	922.1	925.2	873.3	863.6	857.7	858.2	852.6
85°	661.6	671.6	688.6	694.2	702.6	701.9	642.8	617.5	624.2	613.7	621.9
87.5°	415.0	420.9	431.5	432.9	436.9	436.0	376.5	364.8	361.4	361.5	357.3
90°	226.2	231.6	242.2	243.7	251.3	251.8	205.0	200.8	195.4	196.6	189.3
92.5°	81.9	87.3	93.2	98.7	104.5	110.2	110.4	114.4	109.1	103.0	97.9
95°	94.4	103.5	112.6	121.6	130.7	139.8	148.8	157.9	149.5	140.8	132.3
97.5°	106.2	116.9	127.4	138.2	148.9	159.6	170.3	181.0	171.9	162.5	153.4
100°	138.9	158.9	178.7	198.7	218.5	238.5	258.5	278.4	260.9	243.1	225.5
102.5°	285.2	327.7	370.0	412.2	454.5	497.0	539.5	582.0	541.7	501.2	460.8
105°	549.6	618.2	686.8	755.2	823.8	892.4	961.5	1030.1	965.7	901.3	836.8
107.5°	869.1	938.7	1008.0	1077.4	1147.1	1216.7	1287.0	1356.6	1293.7	1230.5	1167.7
110°	1068.0	1118.6	1169.3	1219.9	1270.5	1321.2	1373.0	1423.8	1385.9	1348.0	1310.1

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1112.7	1149.0	1185.2	1221.2	1257.1	1293.3	1330.9	1367.5	1348.3	1328.9	1309.9
115°	1054.3	1078.9	1102.9	1127.2	1151.4	1175.5	1201.6	1226.4	1220.0	1213.5	1207.3
117.5°	952.3	965.6	979.1	992.4	1005.7	1019.0	1034.9	1048.6	1049.2	1050.0	1050.8
120°	843.5	849.0	854.4	859.9	865.1	870.4	878.8	884.8	889.6	894.0	898.8
122.5°	751.5	753.3	755.1	756.9	758.6	760.2	765.3	767.9	770.9	773.9	777.1
125°	678.1	678.7	679.4	680.1	680.4	681.0	685.6	686.8	686.6	686.4	686.1
127.5°	629.7	629.5	629.3	629.1	628.4	628.2	632.1	632.5	629.9	627.4	624.6
130°	595.5	595.6	595.5	595.5	595.5	595.6	600.0	601.2	596.8	592.2	588.0
132.5°	574.2	574.4	574.3	574.9	575.0	575.1	580.0	581.2	576.5	571.3	566.4
135°	556.7	557.1	557.5	557.8	558.1	558.8	564.2	565.7	561.2	556.1	551.5
137.5°	542.4	542.8	543.2	543.8	544.2	544.6	550.8	552.4	548.8	544.5	540.9
140°	530.7	531.2	531.8	532.6	533.2	534.3	540.7	542.8	540.0	536.6	533.5
142.5°	518.4	519.8	520.9	522.2	523.3	524.9	532.5	535.1	532.7	530.2	527.9
145°	511.3	513.0	514.2	515.9	517.3	519.1	527.7	530.9	529.4	527.6	525.9
147.5°	504.9	506.4	507.6	509.1	510.4	512.5	521.5	524.6	523.8	522.5	521.4
150°	498.5	500.0	501.2	502.8	504.6	506.5	516.6	520.2	519.4	518.5	517.4
152.5°	490.5	491.7	493.0	494.4	495.8	497.5	509.7	513.7	513.1	511.9	511.3
155°	486.3	487.2	488.0	489.1	490.1	491.7	504.9	508.8	508.3	507.7	507.1
157.5°	486.3	486.8	487.2	487.9	488.6	489.4	503.3	507.5	506.7	506.3	505.7
160°	487.1	487.5	487.7	488.2	488.5	489.1	503.4	507.3	506.9	506.2	505.6
162.5°	488.8	489.8	490.1	490.7	491.2	492.2	506.5	510.9	510.1	509.4	508.5
165°	493.8	493.9	494.0	494.6	494.8	495.2	508.7	512.3	511.9	511.3	510.7
167.5°	499.1	499.6	499.7	500.3	500.7	501.3	513.9	517.3	517.0	516.3	516.0
170°	505.4	505.8	505.9	506.5	507.0	507.6	518.1	521.0	520.6	519.7	519.1
172.5°	511.0	511.6	512.1	512.7	513.2	513.8	522.7	525.4	525.0	524.5	523.8
175°	513.6	513.9	514.3	515.0	515.4	515.8	522.8	524.8	524.6	524.3	523.9
177.5°	518.8	519.1	519.4	519.9	520.2	520.7	524.9	526.1	525.9	525.9	525.9
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	*46407.9*
2.5°	46507.6	46523.9	46526.2	46545.3	46543.8	46566.5	46562.9	46581.5	46570.6	46586.0	*46573.1*
5°	47599.9	47698.9	47750.7	47847.4	47877.9	47964.5	47988.9	48067.8	48071.1	48133.7	*48119.5*
7.5°	49144.2	49290.2	49376.9	49496.4	49557.0	49656.5	49700.4	49774.1	49797.7	49856.3	*49860.7*
10°	*50066.4*	*50137.2*	*50186.8*	*50220.1*	*50250.6*	*50264.9*	*50281.6*	*50277.1*	*50281.6*	*50275.0*	*50289.3*
12.5°	49703.6	49600.1	49531.7	49402.0	49326.9	49183.6	49113.2	48975.5	48925.4	48807.1	*48790.1*
15°	47866.6	47505.8	47250.8	46880.1	46647.0	46282.2	46068.8	45739.7	45589.4	45327.8	*45259.2*
17.5°	44518.3	43848.5	43330.1	42665.2	42203.8	41582.3	41191.6	40677.1	40395.4	39980.5	*39836.9*
20°	39824.0	38833.0	38055.4	37129.2	36466.3	35640.5	35111.7	34444.9	34057.8	33548.3	*33341.8*
22.5°	34312.8	33078.9	32107.9	31013.7	30213.9	29293.6	28660.1	27938.6	27517.4	26963.9	*26718.9*
25°	28632.4	27271.8	26192.2	25039.3	24194.3	23271.7	22638.1	21929.4	21493.5	20968.0	*20724.5*
27.5°	23199.7	21822.3	20779.0	19707.1	18932.0	18099.6	17527.9	16909.0	16522.2	16073.7	*15844.5*
30°	18405.4	17190.5	16302.8	15413.2	14768.4	14092.2	13617.2	13104.3	12765.0	12380.9	*12162.7*
32.5°	14499.4	13561.5	12866.3	12160.5	11632.7	11067.7	10657.3	10204.7	9898.4	9555.4	*9357.8*
35°	11483.3	10754.6	10200.1	9619.1	9165.7	8684.4	8322.7	7932.2	7657.3	7362.0	*7191.4*
37.5°	9073.0	8493.6	8037.2	7554.6	7182.3	6783.6	6649.3	6201.0	5916.2	5680.6	*5517.4*
40°	7120.5	6659.8	6282.2	5913.2	5609.4	5307.0	5064.4	4824.9	4641.0	4472.6	*4355.9*
42.5°	5560.5	5226.7	4951.0	4680.6	4459.1	4238.8	4063.0	3898.0	3774.2	3664.0	*3588.8*
45°	4420.4	4190.8	3999.2	3808.8	3652.4	3505.4	3387.0	3281.8	3201.8	3135.6	*3088.7*
47.5°	3631.5	3474.2	3339.1	3210.6	3104.4	3008.2	2928.9	2903.1	2817.1	2759.1	*2737.1*
50°	3086.2	2991.3	2888.7	2793.9	2723.0	2652.5	2601.1	2550.7	2518.5	2491.9	*2483.8*
52.5°	2679.3	2606.7	2549.6	2489.6	2442.8	2392.6	2357.2	2323.6	2305.9	2292.0	*2290.3*
55°	2376.8	2326.0	2288.2	2248.0	2220.0	2190.5	2172.1	2154.3	2146.6	2139.6	*2140.1*
57.5°	2147.8	2114.0	2089.4	2063.3	2048.1	2034.0	2029.4	2024.9	2027.3	2028.3	*2032.3*
60°	1981.1	1959.0	1943.5	1928.6	1922.2	1917.7	1921.1	1925.1	1933.2	1939.7	*1945.6*
62.5°	1853.3	1840.7	1833.1	1825.0	1824.3	1824.7	1831.6	1838.3	1848.4	1856.0	*1861.7*
65°	1721.7	1714.4	1712.1	1706.9	1709.4	1711.0	1719.2	1724.4	1734.5	1740.6	*1747.8*
67.5°	1588.7	1587.0	1588.5	1588.5	1593.1	1597.1	1605.0	1610.9	1619.5	1625.0	*1630.8*
70°	1490.5	1491.2	1494.8	1495.4	1500.4	1503.2	1510.1	1513.8	1521.6	1526.3	*1533.3*
72.5°	1395.0	1393.5	1394.4	1392.1	1393.8	1393.1	1396.9	1398.8	1405.4	1409.0	*1417.6*
75°	1293.4	1289.1	1288.1	1283.5	1283.5	1280.3	1281.8	1281.7	1286.0	1287.7	*1293.9*
77.5°	1170.6	1163.4	1159.9	1152.2	1152.0	1149.0	1152.2	1154.1	1161.6	1165.3	*1172.3*
80°	1023.7	1012.4	1007.2	998.2	999.8	999.3	1006.8	1012.6	1021.8	1023.5	*1032.5*
82.5°	850.9	839.4	833.8	825.0	827.1	827.3	834.2	835.4	843.4	846.9	*857.2*
85°	609.2	613.7	601.4	602.3	599.7	604.5	609.2	615.0	621.7	633.0	*641.5*
87.5°	358.8	357.3	361.5	362.1	368.2	371.5	381.5	387.2	398.3	407.1	*422.9*
90°	188.4	181.4	183.6	180.4	185.2	182.1	186.5	182.8	188.5	188.2	*195.8*
92.5°	91.5	86.2	80.0	74.6	68.5	63.4	60.0	57.8	54.7	52.7	*49.3*
95°	123.9	115.5	107.0	98.5	90.1	81.7	78.6	75.5	72.4	69.3	*66.2*
97.5°	144.4	135.3	126.3	117.0	107.9	98.9	96.8	94.8	92.7	90.6	*88.6*
100°	207.9	190.4	172.9	155.2	137.7	120.2	118.5	116.9	115.3	113.7	*111.9*
102.5°	420.6	380.3	340.1	299.7	259.6	219.2	212.3	205.3	198.2	191.2	*184.3*
105°	772.2	707.8	643.3	578.9	514.6	450.3	431.1	411.6	392.4	373.2	*354.1*
107.5°	1104.7	1041.8	979.1	916.3	853.5	790.7	760.2	730.0	699.3	669.1	*638.7*
110°	1271.9	1234.1	1196.4	1158.4	1120.8	1083.1	1053.9	1025.1	995.8	966.9	*938.1*

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	1290.8	1271.7	1252.5	1233.6	1214.8	1195.6	1181.4	1167.3	1153.1	1139.0	*1124.6*
115°	1200.8	1194.6	1188.3	1182.2	1176.1	1169.9	1168.7	1167.7	1166.4	1165.4	*1164.5*
117.5°	1051.4	1052.2	1052.8	1053.9	1054.8	1055.7	1063.0	1070.2	1077.6	1085.2	*1093.0*
120°	903.4	908.1	912.7	917.6	922.3	927.3	936.9	946.8	956.7	967.1	*977.1*
122.5°	780.1	783.1	786.1	789.4	792.5	795.8	805.3	815.1	824.8	834.7	*844.9*
125°	685.4	685.1	684.7	684.2	683.9	683.8	691.5	699.3	707.3	715.7	*723.6*
127.5°	621.7	618.8	615.9	613.3	610.4	608.0	612.1	616.7	621.0	625.7	*630.4*
130°	583.4	579.0	574.2	570.0	565.2	560.9	562.3	563.7	565.2	566.8	*568.4*
132.5°	561.1	556.1	550.9	545.6	540.4	535.4	534.6	534.1	533.4	533.2	*533.0*
135°	546.5	541.8	536.6	531.8	526.6	522.0	520.2	518.5	516.9	515.4	*514.1*
137.5°	536.9	532.8	528.8	524.9	520.6	516.7	514.2	512.3	510.1	508.6	*506.6*
140°	530.0	527.0	523.4	520.2	516.8	513.7	511.5	510.0	508.0	506.6	*504.9*
142.5°	525.2	522.7	520.1	517.7	515.2	512.6	510.6	509.1	507.3	505.9	*504.2*
145°	524.1	522.5	520.6	518.9	517.1	515.3	513.6	512.3	511.0	509.7	*508.6*
147.5°	520.2	519.0	517.8	516.4	515.1	513.9	512.6	512.0	510.6	509.9	*508.9*
150°	516.2	515.2	513.9	513.0	511.5	510.5	509.7	509.0	508.3	507.9	*507.1*
152.5°	510.0	509.1	508.0	507.1	505.8	504.8	504.1	503.6	503.0	502.5	*501.7*
155°	506.2	505.6	504.6	503.9	502.9	502.4	501.6	500.7	500.0	499.3	*498.5*
157.5°	505.0	504.4	503.5	503.0	501.9	501.3	500.6	499.8	499.0	498.5	*497.7*
160°	505.0	504.5	503.6	502.9	502.3	501.6	500.5	499.8	498.7	498.0	*496.9*
162.5°	507.7	506.8	506.1	505.2	504.1	503.5	502.6	501.8	501.2	500.5	*499.7*
165°	510.0	509.4	508.6	508.0	507.5	506.7	505.7	505.0	503.9	503.2	*502.2*
167.5°	515.2	514.8	514.1	513.5	512.7	512.0	511.3	510.4	509.4	508.6	*507.5*
170°	518.6	517.7	517.2	516.2	515.5	514.6	514.0	513.0	512.1	511.6	*510.4*
172.5°	523.2	522.9	522.1	521.5	520.7	520.1	519.6	518.9	518.1	517.4	*516.8*
175°	523.8	523.6	523.4	522.9	522.7	522.4	522.0	521.9	521.5	521.3	*520.9*
177.5°	525.9	525.7	525.7	525.3	525.1	525.1	524.8	524.6	524.1	523.8	*523.6*
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	*522.5*

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46586.5	46574.6	46580.2	46558.4	46563.6	46537.3	46534.8	46505.1	46502.2	46474.1	46463.7
5°	48163.8	48137.9	48167.0	48121.5	48130.4	48071.1	48066.1	47989.4	47962.9	47867.0	47825.5
7.5°	49897.3	49887.5	49905.4	49867.2	49866.0	49813.0	49791.2	49722.4	49679.8	49579.0	49514.7
10°	*50277.1*	*50286.0*	*50271.4*	*50275.0*	*50254.4*	*50248.7*	*50227.6*	*50214.2*	*50179.5*	*50153.4*	*50114.9*
12.5°	48700.1	48709.6	48649.4	48687.5	48657.5	48727.8	48722.1	48805.0	48817.7	48922.6	48962.3
15°	45055.3	45044.0	44928.6	45001.3	44962.4	45116.8	45151.3	45359.1	45470.3	45737.0	45900.9
17.5°	39549.5	39519.8	39357.3	39445.8	39400.8	39628.4	39704.8	40037.1	40244.4	40674.1	40980.5
20°	32986.3	32929.3	32739.1	32842.8	32796.3	33055.1	33164.1	33565.7	33833.0	34402.3	34807.3
22.5°	26341.5	26251.6	26065.2	26162.1	26118.2	26386.1	26528.1	26931.0	27237.2	27821.7	28294.4
25°	20374.5	20294.3	20114.3	20182.0	20165.7	20392.4	20518.7	20899.8	21200.6	21757.3	22208.6
27.5°	15540.1	15456.7	15294.0	15342.0	15325.5	15518.6	15637.6	15956.0	16214.9	16683.5	17079.8
30°	11893.7	11793.1	11655.1	11681.6	11670.3	11826.8	11937.9	12206.0	12427.9	12824.0	13165.4
32.5°	9116.5	9015.3	8888.6	8901.0	8884.3	9007.1	9098.6	9331.8	9525.2	9861.9	10159.1
35°	6975.4	7093.6	6822.8	6994.3	6815.8	7077.9	6983.6	7129.3	7295.6	7579.4	7827.2
37.5°	5362.4	5280.0	5210.4	5203.0	5202.6	5263.3	5335.1	5475.4	5622.0	5833.3	6051.7
40°	4249.4	4191.7	4146.5	4143.3	4146.5	4189.8	4242.7	4339.8	4447.1	4598.9	4759.4
42.5°	3524.5	3486.1	3458.9	3457.1	3465.6	3496.3	3533.1	3590.7	3660.6	3758.9	3869.0
45°	3050.4	3029.1	3014.0	3013.2	3017.1	3033.1	3054.2	3090.2	3134.4	3195.8	3265.5
47.5°	2717.8	2712.6	2703.2	2703.6	2699.2	2705.8	2708.2	2728.3	2751.9	2798.2	2889.1
50°	2475.6	2475.6	2469.1	2468.7	2462.6	2462.2	2457.1	2465.0	2476.0	2504.7	2533.8
52.5°	2284.2	2283.6	2276.5	2275.2	2268.6	2268.3	2263.7	2266.9	2268.5	2282.9	2300.3
55°	2134.6	2130.1	2120.8	2117.9	2115.4	2119.1	2117.4	2117.5	2115.7	2121.7	2126.9
57.5°	2027.3	2021.5	2012.7	2010.1	2009.4	2013.9	2014.0	2012.5	2004.4	1998.9	1991.2
60°	1942.4	1936.5	1927.0	1924.6	1925.9	1932.2	1931.8	1926.7	1914.6	1904.1	1892.0
62.5°	1858.9	1856.5	1851.7	1851.0	1849.8	1850.8	1846.6	1841.0	1829.2	1818.0	1804.7
65°	1746.9	1748.1	1744.5	1745.0	1740.8	1740.1	1733.5	1728.2	1716.1	1706.0	1692.4
67.5°	1630.7	1631.6	1628.6	1628.6	1626.4	1626.7	1622.8	1617.8	1607.6	1599.4	1588.9
70°	1534.9	1537.3	1535.6	1536.0	1533.3	1532.3	1526.1	1521.3	1510.8	1503.9	1494.4
72.5°	1420.1	1425.3	1425.1	1426.4	1422.2	1420.1	1412.8	1406.7	1397.3	1391.8	1384.2
75°	1296.3	1303.0	1304.9	1307.8	1302.0	1298.9	1290.8	1286.0	1278.3	1275.0	1270.0
77.5°	1175.4	1182.8	1189.8	1196.4	1186.9	1178.5	1168.3	1160.6	1149.6	1145.3	1137.5
80°	1039.7	1052.8	1068.4	1081.5	1064.5	1047.3	1030.6	1018.2	1003.6	997.6	987.9
82.5°	862.6	876.0	884.9	893.4	881.5	868.9	852.8	841.9	826.1	820.2	809.1
85°	655.3	672.0	677.3	681.7	674.2	667.5	652.4	631.9	621.9	606.2	598.2
87.5°	431.1	441.0	442.9	444.5	439.8	436.5	426.7	417.1	400.1	387.6	372.5
90°	193.7	198.7	193.2	194.0	189.7	191.9	183.5	182.0	169.6	165.9	155.1
92.5°	47.0	43.8	41.3	38.4	42.0	44.0	47.3	49.3	52.5	54.7	57.8
95°	63.1	60.0	56.9	53.8	56.3	58.8	61.3	63.7	66.3	68.7	71.1
97.5°	86.6	84.5	82.5	80.4	81.8	83.3	84.7	86.2	87.6	89.0	90.6
100°	110.3	108.7	107.0	105.4	105.4	105.4	105.4	105.4	105.4	105.4	105.4
102.5°	177.3	170.2	163.2	156.3	161.0	165.7	170.5	175.2	179.9	184.6	189.6
105°	334.9	315.8	296.6	277.4	296.0	314.5	333.1	351.6	370.1	389.0	407.6
107.5°	608.2	578.0	547.7	517.4	551.4	585.1	618.9	652.7	686.5	720.3	754.4
110°	909.2	880.3	851.5	822.7	858.5	894.4	930.2	966.1	1001.9	1037.8	1074.0

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	1110.6	1096.6	1082.6	1068.6	1091.7	1114.7	1137.8	1161.2	1184.3	1207.5	1230.6
115°	1163.5	1162.6	1161.8	1161.0	1171.9	1182.9	1193.7	1204.9	1215.9	1226.9	1238.0
117.5°	1100.5	1108.1	1116.0	1123.8	1127.3	1130.7	1134.5	1138.0	1141.8	1145.4	1149.3
120°	987.4	997.5	1008.0	1018.5	1017.1	1015.6	1014.3	1012.8	1012.0	1010.7	1010.0
122.5°	855.0	865.3	875.8	886.1	883.0	880.0	877.1	874.2	871.4	868.7	866.2
125°	732.3	740.7	749.4	758.1	755.0	751.9	749.0	746.4	743.6	740.9	738.7
127.5°	635.6	640.9	645.9	651.3	649.8	648.4	647.5	646.2	645.3	644.6	643.9
130°	570.4	572.6	575.1	577.3	577.7	578.1	579.0	579.8	580.9	581.8	583.2
132.5°	533.4	533.3	533.7	534.1	535.7	537.4	539.5	541.5	544.1	546.2	549.2
135°	513.3	512.3	511.5	511.1	513.5	515.8	518.6	521.4	524.8	528.0	531.7
137.5°	505.3	503.8	502.9	501.6	504.0	506.5	509.4	512.2	515.2	518.6	522.3
140°	503.7	502.4	501.7	500.6	503.0	505.4	508.2	511.0	514.2	517.5	521.0
142.5°	503.2	501.7	501.0	500.2	502.1	504.4	507.2	509.6	512.5	515.3	518.6
145°	507.5	506.5	505.9	505.2	506.6	508.3	510.2	512.2	514.3	516.3	519.1
147.5°	508.2	507.5	507.2	506.6	507.9	508.9	510.4	511.6	513.3	515.0	516.9
150°	506.9	506.3	506.0	505.8	506.5	507.1	508.1	508.7	510.0	511.0	512.4
152.5°	501.6	500.9	501.0	500.7	501.1	501.7	502.6	503.3	504.2	505.0	506.4
155°	498.1	497.6	497.1	496.6	496.7	496.7	497.1	497.1	497.8	497.9	498.6
157.5°	497.3	496.6	496.3	495.6	495.4	495.1	495.2	495.0	495.3	494.9	495.1
160°	496.4	495.3	494.6	493.9	494.0	493.7	493.9	493.7	493.9	493.9	494.2
162.5°	499.1	498.5	497.9	497.2	496.8	496.2	495.9	495.1	494.9	494.5	494.3
165°	501.3	500.3	499.7	498.6	498.4	498.1	497.8	497.5	497.3	497.0	497.1
167.5°	506.9	505.9	505.1	504.3	503.7	502.8	502.4	501.7	501.2	500.7	500.4
170°	509.9	509.1	508.5	507.7	507.5	506.9	506.7	506.2	506.0	505.8	505.8
172.5°	516.3	515.6	515.0	514.4	514.2	513.8	513.6	513.4	513.1	513.1	512.9
175°	520.7	520.3	520.1	519.8	519.4	519.2	518.8	518.6	518.4	518.1	517.8
177.5°	523.1	522.7	522.5	522.3	522.1	522.1	522.1	522.1	522.1	522.0	521.8
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46433.6	46421.4	46389.2	46373.3	46343.6	46328.6	46305.4	46290.5	46271.7	46257.8	46250.5
5°	47720.0	47660.8	47541.7	47468.4	47339.9	47255.4	47127.8	47034.1	46902.4	46805.2	46680.8
7.5°	49393.9	49302.8	49150.3	49034.8	48855.0	48717.6	48515.9	48354.6	48131.6	47946.6	47718.9
10°	*50075.3*	*50022.2*	*49953.8*	*49879.5*	*49779.9*	*49682.2*	*49544.4*	*49404.1*	*49216.9*	*49030.9*	*48787.6*
12.5°	49068.1	49118.2	49216.9	49263.0	49338.6	49364.1	49398.7	49382.5	49352.0	49275.9	49165.6
15°	46215.6	46424.6	46754.8	46983.3	47303.3	47528.1	47825.5	48017.0	48237.5	48369.2	48494.4
17.5°	41523.3	41927.5	42510.2	42975.1	43599.2	44106.7	44728.4	45216.9	45780.9	46213.5	46674.1
20°	35513.1	36079.2	36883.6	37566.8	38471.1	39238.1	40220.4	41043.5	42003.6	42803.8	43667.6
22.5°	29044.7	29710.5	30632.2	31456.2	32536.1	33500.7	34731.6	35819.8	37117.7	38280.4	39566.5
25°	22942.4	23594.9	24533.8	25387.1	26552.8	27615.4	28960.2	30208.6	31714.7	33119.2	34731.6
27.5°	17709.3	18288.9	19114.3	19882.2	20950.0	21993.2	23357.9	24689.1	26296.2	27805.6	29543.3
30°	13676.6	14146.8	14808.1	15425.9	16283.1	17136.2	18351.9	19583.0	21182.2	22746.3	24527.8
32.5°	10598.9	10999.8	11551.9	12053.5	12713.9	13357.2	14252.4	15236.2	16639.0	18137.2	19859.8
35°	8204.7	8547.7	9017.6	9449.7	9992.8	10503.4	11171.5	11873.7	12944.2	14204.4	15746.0
37.5°	6541.2	6681.1	7016.4	7370.4	7821.5	8241.3	8763.7	9283.0	10048.9	11043.2	12302.5
40°	4974.6	5196.6	5469.5	5748.4	6089.9	6426.5	6999.8	7275.8	7780.1	8493.9	9471.3
42.5°	4013.8	4170.0	4362.1	4555.9	4793.9	5028.4	5318.3	5613.7	5990.7	6474.2	7169.3
45°	3358.9	3460.6	3584.5	3713.7	3870.0	4030.0	4224.1	4427.0	4682.4	4979.6	5401.8
47.5°	2921.3	2977.6	3058.4	3146.6	3253.8	3364.6	3490.8	3620.0	3778.7	3954.9	4195.4
50°	2579.7	2626.7	2689.4	2748.4	2822.4	2936.0	2986.0	3057.3	3152.8	3256.5	3391.0
52.5°	2332.5	2363.9	2403.2	2437.1	2483.9	2526.4	2582.1	2631.3	2697.4	2759.6	2846.5
55°	2140.1	2151.4	2173.8	2195.7	2228.0	2257.0	2295.3	2327.5	2369.5	2406.8	2461.6
57.5°	1991.5	1992.6	2002.9	2014.2	2035.0	2053.3	2079.6	2100.7	2130.0	2153.7	2186.5
60°	1884.7	1879.0	1881.1	1885.1	1896.8	1908.6	1925.5	1939.2	1957.7	1971.1	1989.5
62.5°	1795.8	1786.8	1784.7	1783.7	1789.5	1793.9	1803.1	1809.8	1820.2	1826.1	1835.9
65°	1683.5	1673.0	1668.8	1664.0	1665.7	1664.4	1667.8	1668.0	1673.4	1674.5	1680.2
67.5°	1581.6	1572.8	1567.6	1561.0	1558.1	1553.4	1551.4	1546.9	1546.2	1542.5	1541.6
70°	1488.7	1480.2	1475.7	1469.7	1466.6	1460.4	1456.7	1449.0	1444.6	1437.5	1433.5
72.5°	1381.2	1376.4	1375.1	1371.0	1369.9	1366.5	1364.9	1359.6	1356.5	1350.5	1347.1
75°	1269.0	1265.1	1264.7	1260.5	1260.2	1256.1	1255.0	1249.4	1246.5	1240.4	1237.9
77.5°	1135.2	1129.3	1127.6	1122.8	1123.9	1121.9	1123.7	1119.3	1117.4	1111.4	1109.5
80°	984.5	976.9	973.9	967.5	969.1	966.2	969.1	968.9	971.0	966.2	965.4
82.5°	806.0	797.7	796.1	791.7	794.6	794.9	801.3	797.8	799.3	794.8	796.7
85°	586.5	580.3	571.7	570.5	565.0	570.7	563.3	568.3	560.2	565.8	558.3
87.5°	363.6	350.8	344.1	335.1	331.6	322.8	319.2	312.9	314.8	311.9	313.5
90°	153.9	144.3	144.1	137.5	138.9	133.4	136.6	133.3	137.2	133.9	138.4
92.5°	60.0	62.7	67.5	73.0	77.6	82.5	87.3	92.7	97.3	102.6	107.2
95°	73.7	76.1	82.7	89.3	95.9	102.5	109.2	115.8	122.4	129.0	135.6
97.5°	92.1	93.5	100.1	106.7	113.3	119.9	126.4	133.4	140.0	146.6	153.2
100°	105.4	105.6	124.3	143.1	161.8	180.6	199.4	218.2	237.2	255.9	274.7
102.5°	194.3	199.0	246.4	294.0	341.3	388.7	436.3	483.9	531.2	579.0	626.5
105°	426.1	444.7	517.1	589.6	661.8	734.3	806.8	879.5	951.9	1024.4	1096.9
107.5°	788.1	822.1	887.6	953.1	1018.4	1084.0	1149.6	1215.1	1280.6	1346.3	1412.1
110°	1109.9	1145.9	1189.7	1233.8	1277.8	1321.7	1365.6	1409.6	1453.8	1497.9	1542.2

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	1253.7	1277.2	1302.8	1328.6	1354.3	1380.1	1405.8	1431.6	1457.6	1483.7	1509.6
115°	1249.4	1260.6	1270.5	1280.9	1290.8	1301.2	1311.5	1322.0	1332.5	1342.8	1353.4
117.5°	1152.9	1157.2	1158.8	1160.6	1162.5	1164.6	1166.6	1168.8	1171.2	1173.3	1175.3
120°	1008.8	1007.9	1006.6	1005.3	1004.0	1002.9	1001.9	1000.9	1000.0	999.2	998.1
122.5°	863.6	861.4	860.0	858.9	857.9	857.1	856.2	855.7	854.8	854.1	853.3
125°	736.3	734.2	736.1	738.1	740.1	742.3	744.4	746.9	749.1	751.4	753.8
127.5°	643.2	642.9	647.3	651.7	656.2	660.8	665.5	670.3	674.8	679.7	684.2
130°	584.7	586.2	591.7	597.5	603.0	608.8	614.7	620.7	626.2	632.0	637.7
132.5°	551.8	554.9	560.0	565.6	571.2	576.8	582.4	588.0	593.7	599.5	604.8
135°	535.3	539.1	544.0	549.1	554.2	559.7	564.6	570.1	575.0	580.3	585.2
137.5°	525.8	529.7	533.9	538.1	542.2	546.7	551.0	555.3	559.4	563.7	567.8
140°	524.6	528.4	530.8	533.7	536.4	539.1	541.6	544.5	547.0	549.9	552.3
142.5°	521.8	525.4	526.8	528.9	530.7	533.0	534.8	536.8	538.5	540.3	541.9
145°	521.4	524.2	524.6	525.5	526.0	526.8	527.3	528.1	528.4	529.0	529.5
147.5°	518.8	520.9	520.8	521.1	521.4	521.4	521.8	522.0	521.9	522.0	522.1
150°	513.6	515.2	514.7	514.7	514.3	514.1	513.5	513.4	513.0	512.8	512.3
152.5°	507.4	508.5	507.7	507.5	506.9	506.5	505.8	505.6	504.9	504.4	504.1
155°	498.8	499.4	498.9	498.8	498.3	498.1	497.7	497.8	497.6	497.4	497.2
157.5°	495.2	495.2	495.0	494.8	494.4	494.4	494.1	494.1	494.1	494.4	494.6
160°	494.0	494.3	493.9	493.7	493.5	493.3	493.0	493.2	493.2	493.7	493.9
162.5°	493.8	493.6	493.2	493.0	492.8	492.8	492.8	493.1	493.0	493.4	493.7
165°	497.1	497.3	496.5	496.5	496.0	495.9	495.6	495.6	495.6	495.8	495.9
167.5°	500.0	499.8	499.8	500.0	500.0	500.2	500.4	501.0	501.2	501.9	502.1
170°	505.7	505.8	505.6	505.5	505.2	505.2	505.2	505.2	505.3	505.5	505.5
172.5°	512.9	512.9	512.4	512.1	511.6	511.4	511.0	511.0	510.5	510.4	509.9
175°	517.5	517.3	517.2	516.9	516.7	516.3	516.1	515.5	515.3	515.1	514.9
177.5°	521.6	521.2	521.0	521.0	520.9	520.8	520.8	520.6	520.6	520.6	520.2
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46241.3	46240.7	46236.3	46238.4	46239.2	46242.5	46246.4	46250.5	46251.4	46254.7	46255.4
5°	46587.3	46472.9	46388.3	46295.3	46225.2	46162.3	46120.4	46087.0	46074.1	46077.3	46085.1
7.5°	47525.7	47289.5	47094.7	46873.2	46688.5	46492.9	46330.7	46176.6	46064.3	45980.5	45933.8
10°	*48555.4*	*48267.8*	*47992.7*	*47672.1*	*47368.0*	*47043.5*	*46749.5*	*46453.5*	*46206.7*	*45992.4*	*45835.1*
12.5°	49012.5	48809.1	48571.3	48268.7	47943.3	47568.9	47190.7	46785.3	46408.3	46058.3	45776.1
15°	48528.6	48528.9	48442.3	48297.1	48071.1	47771.8	47411.5	46988.9	46544.2	46090.3	45675.5
17.5°	46992.7	47282.6	47443.7	47545.7	47514.4	47404.1	47174.9	46850.3	46435.6	45952.2	45446.2
20°	44355.2	45038.7	45525.9	45964.2	46209.8	46373.1	46356.6	46224.6	45929.3	45518.2	44991.3
22.5°	40660.5	41807.6	42712.8	43557.0	44149.0	44630.5	44859.5	44956.6	44822.9	44536.5	44041.6
25°	36172.8	37732.6	39063.6	40355.5	41324.5	42157.3	42657.8	43010.4	43038.4	42888.8	42447.3
27.5°	31186.2	33027.4	34712.0	36428.9	37791.6	38988.8	39774.3	40349.3	40531.9	40507.8	40107.0
30°	26206.0	28138.8	29995.8	31997.8	33684.0	35213.6	36251.2	37028.8	37328.4	37385.8	37000.3
32.5°	21502.6	23408.7	25260.5	27353.5	29209.1	30962.1	32188.0	33111.6	33460.1	33542.2	33119.2
35°	17234.1	18992.6	20752.4	22780.9	24625.9	26441.1	27732.9	28699.8	29025.3	29080.1	28590.4
37.5°	13532.4	15030.7	16564.2	18384.2	20078.5	21783.3	23010.6	23919.5	24156.5	24141.9	23587.7
40°	10415.7	11580.4	12812.7	14311.0	15719.6	17160.8	18197.3	18948.5	19073.1	18980.8	18398.7
42.5°	7832.0	8673.3	9566.6	10685.1	11730.3	12808.9	13562.9	14120.6	14138.4	13992.5	13470.0
45°	5834.9	6655.6	7030.2	7706.5	8379.6	9096.9	9557.3	9901.8	9848.5	9720.2	9323.0
47.5°	4448.1	4763.5	5098.0	5517.4	5909.5	6723.4	6663.1	7216.3	6817.9	7089.6	6491.4
50°	3532.2	3708.5	3888.8	4111.3	4316.2	4528.9	4661.9	4761.1	4748.3	4705.6	4591.0
52.5°	3005.0	3059.6	3148.3	3274.9	3389.3	3504.3	3580.0	3641.6	3642.8	3625.6	3567.7
55°	2511.6	2580.8	2644.6	2727.3	2868.2	2889.8	2998.3	2976.4	2984.9	2954.8	2985.6
57.5°	2214.4	2254.7	2290.6	2339.8	2380.6	2428.1	2456.1	2483.1	2480.5	2474.6	2445.1
60°	2003.9	2026.1	2046.0	2074.8	2097.2	2124.0	2136.9	2150.6	2146.1	2136.1	2109.8
62.5°	1841.6	1855.4	1866.9	1885.3	1898.9	1915.6	1922.4	1928.2	1922.4	1912.9	1889.7
65°	1681.4	1690.4	1697.6	1711.5	1721.1	1735.4	1741.1	1746.6	1741.2	1733.9	1716.1
67.5°	1537.0	1537.8	1537.1	1542.8	1545.7	1554.3	1556.9	1560.9	1554.6	1548.3	1533.3
70°	1427.4	1425.1	1422.4	1424.7	1425.1	1429.3	1429.9	1429.3	1421.8	1410.9	1394.5
72.5°	1341.7	1340.6	1338.5	1340.4	1340.4	1344.1	1342.9	1341.0	1331.9	1321.2	1305.1
75°	1231.6	1230.8	1226.6	1226.8	1223.4	1224.6	1220.1	1217.6	1207.4	1198.4	1184.0
77.5°	1102.8	1100.7	1094.8	1092.5	1086.0	1083.2	1074.8	1070.6	1060.3	1053.2	1040.7
80°	959.1	956.8	949.0	944.8	934.4	927.9	915.5	908.5	896.6	889.6	877.5
82.5°	792.7	793.6	785.9	780.5	765.8	754.3	737.8	728.9	715.8	708.9	696.6
85°	563.8	555.7	560.0	559.7	550.4	540.5	527.1	517.7	506.7	500.1	491.4
87.5°	309.2	311.1	308.9	307.0	300.4	295.5	284.9	279.5	271.4	267.5	260.9
90°	128.0	125.4	115.6	113.2	103.5	98.4	87.4	83.5	73.2	71.1	64.4
92.5°	101.7	96.1	90.9	84.9	79.8	74.1	68.6	63.0	57.5	55.3	53.7
95°	127.5	119.7	111.7	103.7	95.6	87.6	79.8	71.8	63.7	62.1	60.5
97.5°	143.9	134.4	125.0	115.6	106.2	96.7	87.5	77.9	68.5	67.5	66.4
100°	253.0	231.4	209.5	187.7	166.1	144.3	122.6	100.8	79.1	77.9	76.7
102.5°	573.5	520.8	468.0	415.3	362.6	309.7	256.9	204.0	151.3	143.7	136.0
105°	1017.0	937.0	857.4	777.4	697.4	617.5	537.7	457.6	377.7	352.0	326.3
107.5°	1336.9	1261.7	1186.9	1111.9	1036.7	961.7	886.6	811.3	736.1	691.0	645.9
110°	1482.7	1423.0	1363.8	1304.2	1244.8	1185.2	1125.6	1065.9	1006.4	967.4	928.8

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	1466.2	1422.6	1379.3	1335.7	1292.2	1248.6	1205.1	1161.4	1117.7	1094.2	1070.7
115°	1327.5	1301.4	1275.5	1249.4	1223.3	1197.2	1171.2	1144.6	1118.4	1106.2	1093.9
117.5°	1162.5	1149.3	1136.4	1123.2	1110.2	1096.7	1083.7	1070.3	1057.1	1053.1	1048.7
120°	995.0	991.3	987.4	983.6	980.0	976.3	972.3	968.5	964.5	965.3	966.2
122.5°	855.5	857.5	859.7	861.4	863.6	865.4	867.5	869.0	870.9	874.6	878.2
125°	758.2	762.6	767.0	771.3	775.6	780.0	784.4	788.3	792.8	796.4	800.4
127.5°	689.4	694.2	699.2	703.9	708.9	713.6	718.4	723.0	727.9	731.3	735.1
130°	642.3	646.4	650.9	655.0	659.5	663.8	668.0	672.2	676.5	679.5	682.5
132.5°	608.8	612.8	616.8	620.6	624.7	628.4	632.4	636.2	640.4	642.6	645.1
135°	588.6	591.5	594.6	597.5	600.9	603.7	606.9	610.1	613.4	615.1	617.1
137.5°	570.4	572.9	575.7	578.1	580.9	583.3	586.3	588.9	592.0	593.0	594.6
140°	554.9	557.7	560.3	562.9	565.7	568.4	571.6	574.4	577.6	578.7	580.2
142.5°	544.2	546.1	548.2	550.3	552.8	554.8	557.3	559.9	562.6	563.8	565.1
145°	531.9	534.2	536.7	539.0	541.4	544.1	547.1	549.9	552.9	553.8	554.9
147.5°	524.1	525.9	528.3	530.4	532.6	534.7	537.5	539.9	542.7	543.7	544.6
150°	514.6	516.6	518.8	520.9	523.3	525.8	528.4	531.1	534.3	535.5	536.6
152.5°	506.3	508.4	510.7	513.3	515.8	518.4	521.3	524.1	527.1	528.1	529.6
155°	499.6	501.6	504.1	506.6	509.3	511.6	514.5	517.2	520.1	521.4	522.6
157.5°	496.7	498.5	500.7	503.1	505.3	507.6	510.3	512.6	515.2	516.2	517.3
160°	495.8	497.5	499.6	501.7	503.7	505.9	508.2	510.3	512.5	513.5	514.6
162.5°	495.7	497.5	499.7	501.4	503.6	505.6	508.0	509.8	512.2	513.0	514.1
165°	497.3	498.8	500.5	501.8	503.6	504.9	506.8	508.3	510.2	510.8	512.1
167.5°	503.6	504.6	505.6	506.8	508.3	509.4	510.8	512.0	513.4	514.3	515.3
170°	506.5	507.5	508.5	509.6	510.7	511.9	513.0	513.9	515.4	516.2	517.1
172.5°	510.7	511.1	512.0	512.5	513.3	513.9	514.9	515.5	516.3	517.3	518.1
175°	515.4	515.7	516.1	516.2	516.6	517.0	517.5	518.1	518.5	519.1	519.7
177.5°	520.4	520.6	520.9	521.0	521.6	521.8	522.2	522.4	522.7	523.3	524.1
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

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TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46253.8	46253.3	46251.8	46249.7	46247.6	46248.8	46250.9	46256.2	46265.6	46279.0	46296.5
5°	46091.5	46100.9	46106.2	46107.0	46102.2	46099.2	46103.7	46116.4	46142.0	46185.0	46243.2
7.5°	45921.2	45932.9	45950.8	45964.2	45966.7	45963.5	45964.2	45984.1	46031.5	46115.2	46232.7
10°	*45739.3*	*45704.8*	*45723.0*	*45756.4*	*45782.9*	*45787.7*	*45791.0*	*45814.6*	*45883.7*	*46010.3*	*46198.9*
12.5°	45571.5	45462.1	45441.0	45471.1	45511.3	45524.2	45520.7	45530.8	45611.7	45779.3	46042.2
15°	45350.7	45144.8	45074.5	45082.2	45131.9	45149.8	45136.7	45116.8	45195.7	45400.2	45740.6
17.5°	44993.3	44661.4	44532.0	44526.3	44584.4	44599.9	44567.9	44506.0	44583.8	44839.0	45261.6
20°	44449.9	43960.0	43716.4	43677.7	43740.8	43722.4	43658.6	43565.1	43667.2	43977.5	44480.1
22.5°	43473.2	42852.3	42436.2	42302.1	42377.6	42327.2	42234.2	42114.7	42250.3	42602.9	43162.6
25°	41877.1	41159.8	40590.0	40270.6	40330.7	40240.4	40139.1	39994.3	40156.2	40560.9	41176.9
27.5°	39531.1	38702.4	37996.6	37467.6	37487.0	37368.7	37252.0	37064.6	37266.6	37745.6	38440.5
30°	36411.5	35452.6	34593.0	33874.1	33809.8	33695.1	33575.5	33329.5	33582.4	34155.8	34967.8
32.5°	32493.8	31429.2	30436.0	29526.9	29355.5	29243.5	29137.0	28854.0	29185.1	29853.6	30786.5
35°	27912.3	26778.1	25701.3	24663.1	24379.0	24267.1	24174.0	23902.8	24315.9	25043.4	26051.0
37.5°	22883.4	21724.8	20655.7	19591.0	19189.6	19037.8	18970.2	18792.5	19269.1	19988.7	21000.4
40°	17720.6	16643.5	15684.9	14744.6	14287.0	14054.6	14019.2	13986.8	14447.6	15072.0	15990.2
42.5°	12891.1	12022.0	11282.9	10564.2	10149.5	9832.1	9832.0	9928.3	10343.1	10810.8	11518.9
45°	8917.2	8334.0	7863.0	7382.8	7511.1	6878.5	7250.2	7059.5	7264.5	7565.9	8026.5
47.5°	6129.7	5811.3	5552.6	5284.4	5088.8	4902.0	4918.3	5038.7	5231.9	5410.7	5650.3
50°	4467.6	4305.3	4173.6	4034.3	3936.9	3854.5	3859.3	3911.4	4013.0	4107.2	4232.6
52.5°	3500.6	3411.2	3339.6	3262.5	3211.5	3170.5	3172.8	3198.1	3252.9	3306.7	3378.6
55°	2885.4	2874.5	2781.4	2712.4	2686.0	2658.5	2663.5	2673.5	2710.8	2742.3	2789.9
57.5°	2417.9	2376.1	2348.2	2311.8	2295.1	2275.8	2280.1	2283.9	2308.9	2330.0	2364.3
60°	2087.8	2058.3	2038.4	2013.7	2002.7	1990.5	1993.2	1995.5	2011.5	2025.2	2049.8
62.5°	1868.6	1842.0	1824.9	1805.8	1798.0	1789.7	1791.6	1792.4	1802.3	1812.5	1831.1
65°	1700.4	1679.3	1665.1	1648.5	1640.5	1631.8	1632.8	1632.8	1641.2	1648.5	1662.5
67.5°	1522.5	1506.7	1497.3	1484.3	1478.8	1470.1	1469.9	1467.1	1472.6	1475.5	1485.0
70°	1379.7	1363.8	1351.9	1339.3	1332.4	1324.7	1324.9	1325.1	1331.4	1338.1	1350.3
72.5°	1291.5	1276.2	1265.7	1254.7	1248.2	1241.6	1240.4	1239.8	1244.4	1248.0	1256.1
75°	1174.7	1162.5	1156.3	1146.0	1140.8	1133.5	1132.3	1128.8	1131.0	1131.7	1137.7
77.5°	1033.0	1021.4	1016.4	1006.0	1001.7	993.2	992.6	988.8	990.5	989.3	994.0
80°	871.5	861.0	858.2	849.7	847.6	839.8	838.6	834.0	835.4	831.7	833.5
82.5°	691.3	681.7	679.6	671.6	671.6	664.6	664.2	657.2	657.2	651.2	641.5
85°	486.9	479.9	476.9	470.4	468.5	462.9	459.9	453.2	450.8	446.5	445.1
87.5°	256.9	252.5	248.5	245.4	239.7	229.6	228.8	221.7	222.2	217.2	217.6
90°	63.0	56.9	55.7	50.1	48.5	44.5	43.2	43.4	44.6	45.0	46.2
92.5°	51.9	50.0	48.2	46.3	44.5	42.6	40.8	42.6	44.5	46.3	48.2
95°	58.7	57.1	55.5	53.8	52.1	50.5	48.9	50.5	52.1	54.0	55.6
97.5°	65.4	64.3	63.4	62.3	61.3	60.2	59.2	60.3	61.4	62.4	63.4
100°	75.4	74.1	73.0	71.7	70.4	69.2	68.0	69.6	70.8	72.1	73.3
102.5°	128.6	121.0	113.3	105.7	98.1	90.5	82.8	90.5	98.1	105.9	113.5
105°	300.5	275.0	249.1	223.4	197.7	171.9	146.2	172.1	197.9	223.6	249.5
107.5°	600.5	555.6	510.3	465.0	419.6	374.4	329.1	374.6	419.9	465.2	510.5
110°	889.7	850.7	811.7	772.7	733.6	694.6	655.5	694.8	733.9	773.1	812.3

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Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	1047.0	1023.4	999.8	976.2	952.3	928.7	904.8	929.1	952.9	977.0	1000.8
115°	1081.6	1069.2	1057.1	1044.5	1031.9	1019.5	1006.8	1020.1	1032.9	1045.6	1058.4
117.5°	1044.5	1040.6	1036.2	1032.0	1027.7	1023.3	1018.8	1023.7	1028.5	1033.6	1037.9
120°	966.7	967.8	968.4	969.0	969.7	970.1	970.5	970.9	970.9	970.9	970.7
122.5°	881.9	885.5	888.9	892.4	895.8	899.2	902.2	899.8	897.2	894.6	891.6
125°	804.0	808.0	811.5	815.2	818.6	822.3	825.1	823.1	820.5	817.8	814.8
127.5°	738.7	742.1	745.4	749.0	752.0	755.2	757.9	756.2	753.9	751.6	749.0
130°	685.2	688.4	690.7	693.5	695.9	698.1	700.1	699.2	697.8	696.6	694.7
132.5°	647.4	649.9	652.2	654.4	656.0	658.1	659.3	659.1	658.3	657.6	656.3
135°	619.0	620.7	622.5	624.4	625.5	626.8	627.5	628.1	627.8	627.6	626.9
137.5°	595.7	597.3	598.3	599.3	600.0	600.6	600.9	601.9	602.3	603.0	602.9
140°	581.3	582.9	583.9	584.9	585.9	586.7	586.8	587.9	588.3	588.8	588.6
142.5°	566.4	567.7	568.9	570.1	570.6	571.4	571.7	572.7	573.1	573.5	573.5
145°	556.0	556.9	557.9	558.8	559.3	559.7	559.6	560.9	561.6	562.1	562.6
147.5°	545.6	546.7	547.2	548.0	548.5	548.9	549.0	549.9	550.7	551.2	551.7
150°	537.9	539.1	540.2	541.2	541.9	542.6	542.8	543.6	544.0	544.4	544.4
152.5°	530.5	531.5	532.5	533.4	534.1	534.6	534.9	535.6	536.4	537.0	537.2
155°	523.7	524.9	525.9	526.9	527.6	528.5	529.1	529.8	530.4	530.7	531.0
157.5°	518.3	519.5	520.4	521.4	522.1	523.1	523.9	524.7	525.2	525.9	526.2
160°	515.4	516.7	517.3	518.4	519.2	520.1	520.8	521.7	522.3	522.9	523.6
162.5°	514.9	516.0	516.4	517.5	518.3	519.2	519.9	520.8	521.4	522.1	522.7
165°	513.2	514.3	515.1	516.2	517.2	518.3	519.0	519.7	520.1	520.4	520.8
167.5°	516.2	517.2	518.0	519.1	519.7	520.9	521.8	522.2	522.5	522.9	523.1
170°	517.8	518.7	519.6	520.3	521.1	522.1	522.7	523.0	523.2	523.6	523.9
172.5°	518.9	519.9	520.7	521.7	522.5	523.4	524.2	524.4	524.4	524.3	524.1
175°	520.3	521.1	521.8	522.5	523.1	523.9	524.6	524.3	524.5	524.2	524.2
177.5°	524.9	525.9	526.7	527.3	528.1	528.8	529.6	528.9	528.5	528.0	527.4
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46321.2	46344.5	46379.9	46412.0	46460.4	46498.6	46555.9	46599.4	46664.0	46705.9	46776.4
5°	46325.4	46416.0	46535.2	46651.5	46791.3	46918.2	47075.9	47210.3	47368.8	47498.2	47660.4
7.5°	46390.9	46565.6	46775.1	46986.2	47224.9	47448.1	47699.7	47927.5	48176.4	48387.1	48617.2
10°	*46439.2*	*46708.8*	*47017.5*	*47328.1*	*47655.1*	*47958.8*	*48265.5*	*48530.5*	*48778.2*	*48982.0*	*49162.1*
12.5°	46373.7	46745.0	47141.2	47523.6	47887.3	48201.7	48465.5	48669.3	48810.0	48905.4	48927.8
15°	46151.0	46597.8	47028.5	47409.4	47711.2	47943.8	48064.3	48120.6	48060.1	47959.7	47738.8
17.5°	45734.9	46206.2	46591.3	46891.7	47051.2	47114.3	47014.6	46841.0	46501.8	46125.4	45581.6
20°	44972.1	45411.3	45690.6	45854.5	45811.8	45654.1	45277.4	44819.6	44142.4	43420.8	42468.4
22.5°	43634.2	44018.0	44166.9	44179.1	43918.8	43523.9	42844.5	42059.3	40991.0	39880.5	38514.6
25°	41625.8	41962.0	41985.6	41853.6	41377.3	40737.3	39739.7	38628.8	37177.3	35697.4	33985.9
27.5°	38902.2	39224.7	39145.7	38899.2	38238.1	37381.7	36104.5	34669.4	32879.8	31132.0	29238.7
30°	35478.3	35823.1	35730.4	35414.3	34627.9	33615.7	32112.9	30445.6	28458.7	26591.9	24673.3
32.5°	31380.8	31816.9	31752.9	31452.4	30631.8	29548.6	27917.9	26149.5	24116.7	22277.1	20410.8
35°	26723.7	27253.0	27280.4	27083.9	26322.2	25251.5	23641.3	21929.6	19982.6	18246.8	16522.7
37.5°	21706.0	22319.7	22445.8	22392.9	21761.4	20816.4	19349.2	17813.7	16088.8	14567.5	13093.0
40°	16660.7	17281.9	17497.4	17561.4	17095.5	16363.4	15159.4	13919.9	12513.7	11281.1	10110.3
42.5°	12059.5	12610.2	12818.5	12949.5	12658.7	12170.5	11292.2	10392.2	9361.9	8472.9	7620.5
45°	8375.6	8765.1	8923.5	9055.4	8897.1	8621.6	8067.0	7504.0	6824.0	6243.0	5693.0
47.5°	5855.9	6070.7	6175.3	6239.3	6177.8	6034.2	5732.4	5406.3	5022.3	4682.8	4356.5
50°	4340.4	4454.8	4509.5	4546.5	4501.7	4422.0	4258.6	4081.0	3870.2	3677.9	3489.9
52.5°	3439.7	3505.2	3537.8	3557.7	3532.1	3483.2	3388.1	3282.8	3156.4	3037.6	2975.1
55°	2897.7	2894.3	2969.5	2933.2	2969.5	2888.5	2871.4	2755.7	2650.7	2576.8	2496.8
57.5°	2389.7	2423.7	2438.2	2454.3	2443.8	2429.1	2388.6	2347.2	2291.8	2245.5	2196.2
60°	2068.6	2096.6	2112.4	2128.4	2127.4	2121.9	2098.5	2073.7	2039.1	2011.5	1981.5
62.5°	1847.4	1871.7	1887.2	1902.6	1903.9	1901.8	1884.0	1866.9	1843.3	1825.9	1805.2
65°	1673.4	1690.4	1701.0	1713.2	1712.5	1709.2	1693.3	1679.0	1659.6	1647.5	1632.4
67.5°	1491.2	1504.1	1512.3	1523.9	1526.1	1526.8	1518.0	1511.3	1501.9	1498.4	1493.3
70°	1361.7	1377.3	1390.6	1405.2	1413.1	1416.9	1413.1	1409.6	1404.2	1401.7	1397.8
72.5°	1263.6	1276.8	1287.2	1300.4	1307.8	1313.2	1310.3	1308.4	1303.6	1302.8	1300.1
75°	1141.9	1150.9	1156.8	1166.8	1170.8	1175.8	1173.5	1174.7	1173.2	1177.0	1176.8
77.5°	995.5	1002.2	1004.9	1012.2	1012.9	1018.9	1020.3	1027.3	1032.3	1043.3	1049.2
80°	830.7	835.0	835.0	842.4	845.7	855.8	860.7	872.2	877.5	887.3	888.2
82.5°	645.3	640.3	645.3	642.2	651.7	663.1	664.6	674.4	676.7	682.8	678.0
85°	441.2	440.8	436.9	437.6	434.6	436.0	434.3	436.2	434.5	434.6	430.1
87.5°	211.4	213.3	208.6	210.2	205.7	207.7	203.8	206.9	202.3	202.9	196.0
90°	46.9	48.0	48.8	50.0	51.8	55.1	58.6	62.0	66.1	69.2	72.9
92.5°	50.0	52.0	53.8	55.7	57.6	63.1	68.7	74.2	80.0	85.4	91.0
95°	57.3	58.9	60.6	62.6	64.3	72.3	80.3	88.4	96.3	104.4	112.4
97.5°	64.8	65.9	66.9	68.0	69.2	78.6	88.1	97.5	107.0	116.5	125.8
100°	74.6	75.9	77.1	78.5	79.8	101.6	123.4	145.3	167.1	188.7	210.5
102.5°	121.3	128.9	136.5	144.5	152.1	205.0	257.9	310.9	363.4	416.5	469.3
105°	275.3	301.1	327.2	352.9	378.7	458.8	538.9	619.0	698.8	778.8	858.9
107.5°	556.0	601.3	646.8	692.2	737.5	812.9	888.1	963.2	1038.7	1113.9	1188.8
110°	851.7	890.5	930.0	969.1	1008.3	1067.8	1127.8	1187.4	1247.1	1306.8	1366.4

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	1024.8	1048.5	1072.5	1095.9	1119.9	1163.6	1207.8	1251.5	1295.3	1338.7	1382.5
115°	1071.1	1083.3	1096.1	1108.5	1121.3	1147.8	1174.1	1200.4	1226.9	1253.0	1279.5
117.5°	1042.6	1047.1	1051.6	1055.8	1060.3	1073.7	1087.3	1100.7	1114.2	1127.7	1141.1
120°	970.5	970.0	969.7	969.0	968.6	972.5	976.8	980.7	985.0	988.8	992.7
122.5°	888.7	885.5	882.4	879.0	875.9	874.0	872.5	870.6	869.4	867.4	865.7
125°	811.7	808.4	805.2	801.7	798.1	794.2	790.2	786.1	782.0	777.8	773.7
127.5°	746.5	743.5	740.7	737.4	734.2	729.5	725.1	720.3	716.0	711.1	706.6
130°	693.0	690.6	688.7	685.9	683.7	679.3	675.5	671.3	667.2	663.2	659.0
132.5°	655.1	653.4	651.8	649.7	648.0	644.2	640.9	636.8	633.2	629.4	625.8
135°	626.3	625.3	624.4	622.9	621.7	618.5	615.9	612.9	610.1	607.1	604.2
137.5°	603.0	602.3	601.9	601.3	600.6	598.0	595.8	593.2	590.8	588.3	586.0
140°	588.7	588.2	587.9	587.3	586.7	584.0	581.6	578.9	576.4	573.8	571.3
142.5°	573.4	573.1	572.9	572.3	571.8	569.6	567.8	565.8	563.7	561.7	559.7
145°	562.6	562.6	562.6	562.2	562.4	559.8	557.8	555.2	553.3	550.9	548.8
147.5°	552.1	552.1	552.3	552.2	552.6	550.4	548.9	546.8	545.2	543.2	541.5
150°	544.6	544.6	544.7	544.4	544.3	542.3	540.6	538.6	537.1	535.0	533.4
152.5°	537.4	537.5	537.8	537.8	538.0	536.2	534.4	532.4	530.6	528.5	526.8
155°	531.4	531.6	531.7	531.7	531.7	530.1	528.5	526.6	524.9	523.1	521.5
157.5°	526.6	526.9	527.3	527.5	527.7	526.2	524.8	523.3	521.9	520.3	518.9
160°	523.9	524.4	524.8	524.9	525.2	523.9	523.1	521.5	520.6	519.1	517.7
162.5°	523.1	523.7	524.0	524.2	524.5	523.2	522.4	521.1	520.0	518.3	517.2
165°	521.2	521.2	521.5	521.5	521.7	520.9	520.2	519.4	518.6	517.5	516.7
167.5°	523.4	523.4	523.8	523.6	523.8	523.1	523.0	522.3	521.7	521.0	520.4
170°	523.9	524.1	524.3	524.2	524.4	523.8	523.3	522.8	522.4	521.5	520.9
172.5°	524.2	523.9	523.9	523.9	523.6	523.1	523.0	522.5	522.3	521.9	521.5
175°	523.9	523.8	523.6	523.4	523.1	523.1	522.9	522.9	522.7	522.4	522.2
177.5°	527.1	526.7	526.0	525.6	525.1	524.9	524.9	524.7	524.9	524.7	524.5
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46819.9	46530.8	46492.5	46512.8	46561.2	46579.1	46631.2	46645.5	46697.9	46710.8	46761.2
5°	47785.9	47403.7	47422.9	47514.7	47653.9	47736.7	47873.5	47945.0	48075.6	48135.0	48252.9
7.5°	48804.6	48504.6	48598.1	48753.1	48943.3	49075.0	49239.3	49346.3	49487.8	49575.7	49689.0
10°	*49304.8*	*49222.6*	*49325.6*	*49447.6*	*49556.1*	*49641.1*	*49710.7*	*49766.4*	*49802.9*	*49837.1*	*49852.1*
12.5°	48924.2	49051.4	49069.0	49057.1	48985.3	48930.4	48807.1	48723.3	48574.5	48483.9	48306.9
15°	47513.1	47793.0	47638.0	47403.5	47060.1	46773.9	46369.8	46068.8	45647.9	45362.4	44940.0
17.5°	45036.8	45390.0	44986.2	44443.4	43752.9	43162.1	42426.4	41842.5	41111.1	40579.1	39896.4
20°	41550.7	41880.7	41160.6	40260.7	39192.5	38293.5	37233.3	36387.4	35402.2	34669.4	33785.0
22.5°	37210.1	37445.2	36430.6	35217.5	33856.6	32733.4	31465.8	30451.8	29327.5	28489.6	27546.6
25°	32408.0	32471.5	31254.5	29856.8	28340.0	27077.8	25724.5	24658.3	23511.6	22662.5	21737.0
27.5°	27561.3	27468.2	26152.8	24670.9	23075.3	21763.3	20443.4	19444.4	18440.1	17675.2	16877.8
30°	22986.6	22761.3	21395.4	19872.3	18323.4	17147.6	16051.8	15249.4	14450.5	13843.7	13203.8
32.5°	18791.5	18473.6	17144.1	15717.1	14412.0	13504.6	12692.1	12084.9	11439.8	10927.2	10390.2
35°	15075.7	14737.1	13559.2	12349.5	11361.7	10692.8	10054.2	9556.2	9008.4	8576.0	8109.5
37.5°	11886.8	11609.2	10622.6	9670.7	8923.5	8405.1	7882.0	7474.9	7022.1	6831.9	6333.5
40°	9176.5	8982.5	8211.2	7509.4	6948.4	6704.8	6173.7	5793.4	5455.1	5176.1	4906.0
42.5°	7157.8	7089.2	6338.5	5791.2	5396.1	5089.3	4793.3	4553.0	4319.1	4126.8	3945.2
45°	5252.8	5198.5	4865.2	4549.2	4280.0	4065.6	3865.6	3700.3	3547.4	3420.6	3305.4
47.5°	4090.4	4073.0	3881.0	3685.1	3515.6	3377.8	3247.9	3138.2	3036.7	2952.1	2924.5
50°	3326.9	3324.6	3211.9	3091.0	2970.3	2890.7	2807.8	2742.9	2677.7	2627.0	2573.3
52.5°	2826.7	2814.5	2738.5	2663.8	2592.1	2539.8	2486.9	2445.4	2402.2	2371.0	2337.6
55°	2433.5	2446.5	2402.4	2357.8	2313.0	2280.4	2243.3	2216.0	2186.3	2166.6	2146.5
57.5°	2160.4	2177.5	2154.3	2129.1	2101.8	2080.4	2054.8	2035.9	2016.1	2003.5	1991.8
60°	1961.7	1980.3	1971.1	1958.3	1941.4	1928.8	1912.4	1901.9	1889.2	1882.1	1875.6
62.5°	1793.2	1816.5	1813.1	1807.1	1796.3	1789.3	1780.3	1775.7	1767.3	1764.2	1761.0
65°	1625.0	1651.2	1650.6	1647.7	1641.6	1639.6	1634.1	1633.1	1628.8	1630.5	1630.1
67.5°	1492.7	1515.5	1520.5	1524.0	1523.9	1525.3	1524.7	1527.0	1527.0	1530.2	1532.3
70°	1397.3	1413.1	1416.9	1420.7	1421.7	1424.7	1424.7	1426.7	1426.2	1428.9	1429.3
72.5°	1300.8	1321.6	1325.4	1328.5	1328.5	1331.4	1329.9	1329.3	1325.2	1324.3	1321.4
75°	1180.8	1207.4	1213.2	1217.0	1217.6	1220.1	1216.5	1214.3	1207.4	1204.6	1199.8
77.5°	1055.3	1083.1	1087.1	1088.5	1086.3	1086.9	1079.3	1074.1	1065.3	1061.7	1057.1
80°	892.1	932.9	936.1	933.6	927.2	926.2	918.7	913.9	903.5	899.9	895.9
82.5°	678.8	726.7	733.4	736.3	731.1	732.3	725.3	722.5	712.9	711.2	704.9
85°	428.6	476.5	484.3	483.2	478.0	476.7	472.7	474.0	473.2	475.7	477.1
87.5°	196.9	243.2	254.4	250.8	250.2	247.0	239.5	242.4	246.8	249.7	249.9
90°	76.4	93.9	97.1	95.3	89.1	86.6	80.8	79.2	74.0	72.3	67.2
92.5°	96.5	102.1	107.7	102.7	97.8	92.8	87.9	82.8	78.0	73.0	68.2
95°	120.5	128.1	136.1	129.5	122.8	116.2	109.6	103.0	96.4	89.8	83.3
97.5°	135.2	144.4	153.7	147.1	140.6	133.8	127.2	120.6	114.0	107.2	100.7
100°	232.4	253.6	275.3	256.5	237.5	218.9	200.1	181.2	162.4	143.7	124.8
102.5°	522.0	574.4	627.0	579.4	531.8	484.3	436.9	389.4	342.0	294.4	247.0
105°	938.7	1018.0	1097.7	1024.9	952.5	880.0	807.5	735.0	662.5	589.9	517.6
107.5°	1264.0	1338.0	1412.7	1347.1	1281.5	1216.0	1150.1	1084.7	1019.0	953.4	887.9
110°	1425.9	1484.0	1543.3	1498.9	1454.8	1410.5	1366.5	1322.3	1278.3	1234.4	1190.5

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	1426.0	1467.7	1510.8	1484.5	1458.7	1432.6	1406.8	1380.8	1355.1	1329.0	1303.7
115°	1305.3	1329.2	1354.8	1344.0	1333.7	1323.1	1312.6	1302.4	1291.9	1281.5	1271.5
117.5°	1154.3	1164.8	1177.1	1174.7	1172.7	1170.2	1168.2	1165.8	1164.0	1161.8	1160.0
120°	996.6	997.4	1000.4	1001.0	1002.1	1002.8	1003.8	1004.7	1005.8	1006.7	1007.9
122.5°	863.8	858.6	855.7	856.4	857.1	857.6	858.5	859.1	860.0	860.8	861.8
125°	769.6	761.5	756.2	753.9	751.6	749.3	746.9	744.5	742.6	740.4	738.3
127.5°	701.9	693.1	687.3	682.6	678.0	673.2	668.6	663.7	659.3	654.5	650.2
130°	655.0	646.4	641.1	635.2	629.8	623.7	618.3	612.4	606.6	600.9	595.3
132.5°	621.9	613.5	608.6	603.2	597.9	592.0	586.8	581.0	575.5	569.6	564.4
135°	601.3	593.4	589.4	584.1	579.5	574.3	569.2	564.0	559.0	553.7	549.0
137.5°	583.3	575.6	572.2	567.9	564.0	559.7	555.9	551.5	547.5	542.9	539.1
140°	568.6	560.5	556.8	554.3	552.1	549.3	546.9	544.3	541.9	539.3	536.7
142.5°	557.8	549.8	546.6	544.9	543.4	541.6	540.4	538.5	536.8	534.7	533.1
145°	546.6	537.7	534.3	533.6	533.6	533.1	532.6	532.2	531.7	531.1	530.7
147.5°	539.4	530.5	526.9	527.1	527.2	526.9	527.3	526.9	527.2	527.0	527.1
150°	531.2	521.0	517.0	517.4	517.8	518.2	518.7	519.1	519.8	520.1	520.5
152.5°	524.6	512.4	507.9	508.4	509.2	509.4	510.1	510.8	511.6	512.3	512.9
155°	519.2	506.1	501.2	501.1	501.3	501.7	501.8	502.3	502.7	503.1	503.6
157.5°	517.1	503.2	498.5	498.0	498.1	498.1	498.1	498.4	498.6	498.8	499.4
160°	516.2	502.5	497.8	497.3	497.4	497.2	497.0	497.1	497.3	497.5	497.9
162.5°	515.6	502.2	497.7	497.1	496.8	496.8	496.8	496.4	496.6	496.7	497.0
165°	515.5	503.6	499.6	499.4	499.4	499.3	499.4	499.5	499.7	499.9	500.3
167.5°	519.5	508.9	505.7	505.2	504.6	504.2	504.2	503.5	503.5	503.1	503.1
170°	520.1	511.7	508.9	508.7	508.9	508.8	508.6	508.6	508.6	508.6	508.8
172.5°	520.9	514.8	512.6	512.9	513.3	513.5	513.9	514.3	514.6	515.1	515.4
175°	522.0	518.3	517.4	517.3	517.6	517.8	518.0	518.2	518.4	518.6	519.1
177.5°	524.4	523.3	522.8	522.8	522.8	522.8	522.8	522.8	522.8	523.0	523.0
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46770.7	46825.2	46821.1	46872.0	46869.4	46917.4	46907.7	46949.2	46939.7	46975.1	46954.4
5°	48304.8	48408.6	48442.7	48536.4	48555.8	48639.5	48641.2	48707.8	48699.8	48751.9	48724.2
7.5°	49756.1	49853.0	49898.9	49971.6	50007.9	50068.2	50091.7	50141.2	50153.1	50182.4	50181.4
10°	*49878.6*	*49878.3*	*49900.9*	*49890.8*	*49911.1*	*49899.4*	*49924.1*	*49915.3*	*49951.9*	*49942.4*	*49970.1*
12.5°	48230.6	48067.0	48007.3	47860.4	47828.3	47702.2	47711.2	47630.3	47669.3	47619.6	47704.3
15°	44688.6	44309.3	44121.8	43791.9	43688.3	43427.7	43406.5	43233.3	43280.0	43189.4	43321.9
17.5°	39454.8	38857.4	38529.6	38047.9	37856.6	37487.9	37413.9	37190.9	37225.6	37113.3	37273.1
20°	33214.5	32492.6	32079.2	31522.0	31273.5	30834.0	30717.3	30468.0	30499.2	30387.4	30568.4
22.5°	26903.0	26147.4	25680.7	25096.7	24779.4	24365.9	24241.9	23991.3	24005.7	23900.7	24074.7
25°	21103.1	20378.6	19925.6	19395.2	19119.8	18740.7	18610.4	18385.4	18398.1	18311.7	18467.8
27.5°	16324.7	15730.3	15351.2	14906.7	14659.9	14348.2	14221.1	14031.9	14031.4	13967.9	14098.5
30°	12756.9	12260.9	11920.5	11533.4	11301.5	11020.3	10897.5	10728.2	10720.9	10675.8	10779.5
32.5°	9988.4	9547.2	9236.8	8896.0	8687.9	8446.6	8330.3	8194.3	8181.9	8141.1	8226.3
35°	7764.6	7393.1	7126.2	6839.3	6860.5	6504.5	6563.6	6287.0	6212.1	6195.8	6259.0
37.5°	6001.2	5713.4	5496.5	5281.7	5136.3	4985.7	4904.7	4832.0	4823.8	4816.7	4861.0
40°	4697.3	4495.9	4338.1	4190.8	4090.7	3998.8	3948.2	3908.2	3898.8	3893.4	3920.2
42.5°	3801.8	3665.8	3564.2	3474.2	3413.4	3363.5	3335.7	3313.4	3306.0	3306.2	3322.1
45°	3211.9	3129.6	3064.0	3008.2	2969.3	2986.4	2936.1	2962.4	2927.7	2963.6	2939.9
47.5°	2828.6	2758.4	2717.8	2678.3	2654.7	2635.8	2636.5	2636.9	2644.2	2645.4	2653.2
50°	2532.7	2492.2	2463.9	2438.7	2426.5	2416.5	2420.0	2422.5	2429.8	2430.2	2435.9
52.5°	2313.9	2287.2	2270.2	2254.5	2249.0	2243.3	2245.7	2244.7	2248.0	2246.2	2250.9
55°	2135.7	2123.1	2117.7	2111.9	2112.7	2111.2	2112.3	2106.6	2103.1	2098.9	2102.8
57.5°	1989.5	1987.8	1991.3	1993.7	2000.4	2002.9	2004.4	1997.9	1991.7	1986.0	1989.3
60°	1876.8	1879.5	1888.5	1895.7	1905.4	1909.8	1912.5	1908.8	1904.3	1899.7	1902.4
62.5°	1765.7	1770.0	1780.7	1788.7	1800.4	1806.4	1813.1	1813.5	1815.2	1813.5	1815.4
65°	1636.6	1642.0	1651.7	1658.4	1669.2	1674.5	1681.4	1682.6	1686.4	1685.5	1688.8
67.5°	1538.7	1543.5	1551.5	1557.9	1567.6	1573.0	1579.1	1579.5	1580.8	1580.5	1583.5
70°	1434.1	1436.5	1443.7	1449.0	1458.6	1464.4	1471.2	1473.3	1477.6	1478.3	1481.8
72.5°	1322.6	1321.6	1325.9	1328.3	1335.6	1340.0	1348.8	1353.6	1360.9	1362.7	1365.3
75°	1201.2	1200.2	1205.3	1207.4	1213.6	1218.0	1227.9	1234.2	1245.4	1250.0	1248.8
77.5°	1060.7	1063.1	1072.7	1078.1	1086.3	1091.9	1104.7	1114.9	1135.4	1144.2	1135.2
80°	903.5	906.1	916.0	921.0	931.9	938.8	953.0	964.9	983.3	987.3	982.1
82.5°	710.3	711.0	720.0	723.7	737.8	748.0	766.0	775.5	786.9	785.2	783.8
85°	484.3	490.9	502.0	513.3	530.4	547.0	564.0	578.1	568.1	583.8	566.2
87.5°	258.8	258.1	273.3	270.9	295.0	308.9	323.7	330.7	338.7	337.1	337.2
90°	66.3	62.7	62.9	59.0	60.4	56.1	58.7	54.8	58.3	53.4	61.1
92.5°	63.1	60.5	57.7	55.1	52.4	49.8	47.0	44.3	41.7	39.0	41.7
95°	76.7	74.2	71.7	69.1	66.6	64.1	61.6	59.2	56.6	54.2	57.3
97.5°	94.1	92.6	91.2	89.7	88.3	86.9	85.5	84.0	82.4	80.9	83.0
100°	106.0	106.0	106.0	106.0	105.7	105.7	105.7	105.7	105.7	105.7	107.3
102.5°	199.4	194.7	190.0	185.0	180.3	175.6	170.8	166.0	161.3	156.6	163.6
105°	445.1	426.5	407.8	389.3	370.6	352.0	333.5	314.9	296.5	277.9	297.0
107.5°	822.7	788.7	754.8	721.0	687.0	653.3	619.5	585.7	552.0	518.1	548.4
110°	1146.4	1110.4	1074.4	1038.6	1002.5	966.5	930.6	894.8	858.9	823.1	851.9

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	1277.9	1254.3	1231.1	1207.8	1184.6	1161.5	1138.3	1115.2	1092.2	1069.1	1083.2
115°	1261.2	1250.1	1238.8	1227.7	1216.6	1205.3	1194.3	1183.4	1172.4	1161.6	1162.4
117.5°	1158.0	1154.0	1150.2	1146.3	1142.4	1138.8	1135.1	1131.6	1127.9	1124.6	1116.8
120°	1009.3	1010.1	1010.8	1011.9	1013.1	1014.3	1015.2	1016.6	1018.1	1019.5	1009.0
122.5°	862.9	865.2	867.5	870.1	872.7	875.5	878.2	881.3	884.4	887.5	877.0
125°	736.1	738.4	740.6	743.0	745.2	748.1	750.8	753.9	756.9	760.0	751.2
127.5°	645.8	646.1	646.4	647.1	647.8	648.8	649.8	651.1	652.6	654.2	648.7
130°	589.6	588.1	586.5	585.2	583.8	583.0	582.2	581.6	581.0	580.8	578.3
132.5°	558.8	555.9	553.0	550.3	547.8	545.7	543.3	541.6	539.8	538.4	537.7
135°	543.5	539.9	536.3	532.6	529.2	526.4	523.3	520.8	518.1	515.9	516.5
137.5°	534.8	531.3	527.5	524.0	520.6	517.8	514.7	512.0	509.5	507.3	508.4
140°	534.0	530.4	526.7	523.3	520.2	517.2	514.2	511.7	508.9	506.9	507.5
142.5°	531.2	528.3	524.8	521.9	518.7	516.2	513.5	511.3	508.6	506.9	507.7
145°	530.0	527.8	525.2	522.9	520.7	518.9	516.6	515.0	513.3	512.3	512.6
147.5°	526.9	525.3	523.2	521.7	519.7	518.5	516.9	515.8	514.6	513.7	513.9
150°	520.8	519.8	518.5	517.5	516.3	515.4	514.4	513.8	513.0	512.5	512.5
152.5°	513.5	512.7	511.5	510.7	509.7	509.1	508.3	507.8	507.2	506.7	506.6
155°	504.1	503.6	503.3	502.9	502.6	502.7	502.3	502.4	502.2	502.2	502.4
157.5°	499.6	499.7	499.4	499.7	499.7	499.8	499.8	500.3	500.2	500.7	501.1
160°	498.5	498.4	498.2	498.2	498.2	498.1	498.3	498.3	498.5	498.6	499.0
162.5°	497.2	497.8	497.9	498.3	498.8	499.1	499.7	500.3	500.7	501.4	501.8
165°	500.7	500.7	500.7	500.7	500.9	501.1	501.3	501.7	501.8	502.4	503.1
167.5°	502.9	503.3	503.3	503.7	504.1	504.6	505.0	505.8	506.3	507.2	507.7
170°	508.6	508.6	508.6	508.6	508.6	509.0	509.2	509.3	509.4	510.0	510.4
172.5°	515.7	515.7	515.3	515.7	515.3	515.7	515.7	515.9	515.9	516.0	516.2
175°	519.1	519.5	519.7	520.1	520.1	520.3	520.5	520.8	521.0	521.3	521.3
177.5°	523.0	523.1	523.1	523.1	523.1	523.3	523.3	523.3	523.3	523.1	523.3
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46988.9	46965.3	46989.4	46965.0	46989.4	46960.2	46980.0	46948.3	46956.5	46923.6	46932.0
5°	48765.6	48728.2	48748.1	48699.4	48704.6	48639.5	48638.3	48562.7	48542.7	48456.5	48418.7
7.5°	50202.3	50190.1	50196.9	50165.7	50162.1	50117.6	50096.5	50033.9	49994.5	49915.3	49861.1
10°	*49974.9*	*50011.5*	*50021.0*	*50058.3*	*50066.1*	*50103.1*	*50110.8*	*50147.7*	*50155.5*	*50182.8*	*50183.2*
12.5°	47700.3	47824.6	47854.4	48008.0	48072.7	48248.4	48342.7	48536.4	48651.4	48844.5	48963.3
15°	43318.3	43533.4	43619.3	43919.2	44085.1	44435.3	44655.3	45057.4	45341.2	45768.3	46072.9
17.5°	37287.3	37587.9	37723.7	38130.4	38395.8	38912.6	39285.2	39898.3	40367.7	41049.1	41589.2
20°	30599.3	30933.6	31117.7	31581.8	31895.0	32498.8	32963.9	33717.4	34345.7	35209.1	35947.5
22.5°	24129.3	24447.3	24651.8	25123.9	25476.5	26106.4	26626.1	27421.4	28125.4	29098.3	29983.6
25°	18526.8	18818.1	19003.0	19430.1	19761.1	20339.9	20836.3	21601.2	22290.0	23265.9	24173.7
27.5°	14163.5	14407.6	14585.7	14949.8	15241.9	15732.8	16159.1	16791.2	17384.8	18229.1	19037.4
30°	10843.3	11059.7	11233.0	11550.2	11820.9	12246.4	12621.4	13152.3	13643.5	14315.4	14958.4
32.5°	8286.1	8472.4	8626.8	8904.4	9150.0	9533.2	9871.0	10336.4	10758.0	11327.8	11856.9
35°	6317.8	6684.4	6658.3	7041.3	7102.8	7377.8	7679.1	8086.1	8459.5	8944.0	9394.3
37.5°	4903.7	5006.7	5117.1	5286.3	5464.3	5714.5	5969.0	6466.3	6648.6	7014.7	7387.5
40°	3954.3	4023.9	4096.9	4211.3	4335.8	4512.1	4697.5	4934.7	5177.7	5474.6	5777.8
42.5°	3343.0	3382.4	3428.8	3496.1	3572.8	3684.6	3808.6	3969.4	4138.5	4347.5	4560.7
45°	2986.8	2968.0	2981.8	3018.0	3064.2	3132.2	3210.4	3310.0	3420.1	3555.4	3699.5
47.5°	2654.7	2662.3	2666.4	2686.0	2710.8	2756.3	2803.8	2871.4	3001.9	3041.7	3120.3
50°	2435.4	2439.0	2437.8	2447.8	2460.3	2490.0	2520.8	2566.5	2612.2	2672.8	2730.6
52.5°	2251.6	2256.8	2256.0	2262.6	2269.3	2288.0	2307.4	2339.8	2369.7	2408.2	2441.5
55°	2106.4	2113.5	2116.2	2121.7	2125.0	2134.8	2142.6	2158.0	2170.7	2192.6	2212.7
57.5°	1994.7	2004.4	2008.9	2010.8	2006.8	2006.3	2003.7	2007.0	2009.6	2021.3	2032.6
60°	1906.9	1914.6	1915.8	1914.6	1907.4	1902.2	1894.0	1891.4	1890.1	1895.7	1901.9
62.5°	1814.8	1817.6	1815.7	1813.5	1805.2	1800.2	1791.6	1788.5	1785.6	1789.5	1792.9
65°	1687.6	1690.0	1687.6	1686.2	1678.8	1674.9	1667.6	1665.2	1661.1	1662.1	1661.5
67.5°	1584.3	1586.6	1584.7	1582.8	1577.7	1575.3	1569.9	1566.5	1561.5	1559.6	1556.2
70°	1481.2	1483.1	1480.2	1478.3	1472.4	1470.2	1465.2	1464.2	1460.2	1459.4	1455.4
72.5°	1362.7	1362.8	1358.8	1357.5	1353.2	1353.1	1351.0	1352.9	1352.7	1354.8	1354.0
75°	1241.5	1239.8	1234.6	1233.7	1230.4	1232.0	1229.7	1232.7	1233.1	1237.5	1238.0
77.5°	1120.0	1113.7	1103.8	1099.2	1092.7	1091.9	1088.0	1090.6	1089.8	1094.9	1096.9
80°	966.6	958.9	946.3	940.3	932.5	931.3	927.9	931.3	929.6	935.6	940.0
82.5°	771.7	765.0	752.0	747.2	738.2	739.0	735.3	739.0	738.6	747.4	752.6
85°	570.8	566.4	553.0	541.1	527.8	520.1	512.5	511.2	508.9	512.5	515.6
87.5°	329.7	325.6	315.1	308.2	284.9	286.0	276.9	276.4	274.2	272.1	276.9
90°	59.8	66.4	65.5	71.5	71.3	78.2	78.5	85.1	84.7	91.1	91.8
92.5°	44.3	47.0	49.7	52.4	55.0	57.7	60.4	63.1	68.9	74.2	80.4
95°	60.4	63.4	66.5	69.7	72.8	75.9	78.9	82.0	90.5	98.9	107.4
97.5°	85.2	87.1	89.2	91.2	93.3	95.3	97.3	99.4	108.7	117.7	126.8
100°	108.9	110.6	112.2	113.9	115.6	117.2	118.8	120.5	138.3	155.8	173.4
102.5°	170.6	177.6	184.6	191.6	198.8	205.8	212.8	219.8	260.1	300.3	340.5
105°	316.2	335.3	354.7	373.9	393.1	412.2	431.6	450.7	515.2	579.4	644.0
107.5°	578.7	609.0	639.2	669.8	700.0	730.5	760.8	791.2	853.9	916.9	979.7
110°	880.8	909.9	938.7	967.7	996.5	1025.6	1054.6	1083.8	1121.6	1159.2	1197.1

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	1097.2	1111.3	1125.4	1139.6	1153.8	1168.2	1182.3	1196.7	1215.7	1234.6	1253.7
115°	1163.3	1164.1	1165.3	1166.3	1167.4	1168.4	1169.9	1171.1	1177.3	1183.5	1189.6
117.5°	1109.1	1101.5	1094.0	1086.3	1078.9	1071.7	1064.4	1057.3	1056.3	1055.4	1054.7
120°	999.0	988.7	978.5	968.2	958.4	948.4	938.8	929.1	924.4	919.7	915.1
122.5°	866.8	856.7	846.6	836.6	826.8	817.1	807.6	798.2	795.0	792.0	789.1
125°	742.7	734.4	726.1	717.9	710.1	702.2	694.6	687.0	687.4	687.5	688.2
127.5°	643.6	638.6	633.7	629.0	624.6	620.1	615.9	611.6	614.6	617.3	620.3
130°	576.2	574.3	572.6	570.6	569.5	568.0	566.7	565.4	570.2	574.4	579.1
132.5°	537.7	537.6	537.8	538.0	538.5	539.1	540.0	540.5	545.8	550.8	556.0
135°	517.2	518.2	519.6	520.8	522.5	524.0	525.9	527.5	532.6	537.4	542.5
137.5°	509.7	511.0	512.6	514.3	516.4	518.2	520.6	522.6	526.6	530.7	534.6
140°	508.8	509.7	511.4	512.8	514.3	516.1	518.1	519.8	523.3	526.4	529.6
142.5°	508.9	509.7	511.1	512.6	514.2	515.6	517.3	518.9	521.5	523.7	526.7
145°	513.6	514.3	515.5	516.4	517.7	518.9	520.3	521.6	523.4	524.9	526.7
147.5°	514.5	515.1	515.9	516.8	517.8	518.7	519.5	520.4	521.8	522.9	524.1
150°	513.0	513.3	513.8	514.1	515.0	515.5	516.4	516.9	518.0	518.8	520.1
152.5°	507.3	507.5	507.9	508.2	508.9	509.4	509.8	510.4	511.5	512.3	513.3
155°	502.9	503.6	504.3	504.8	505.6	506.0	506.9	507.4	508.3	508.9	509.8
157.5°	501.7	502.1	503.0	503.3	504.2	504.7	505.4	505.9	506.7	507.3	508.0
160°	499.9	500.9	501.6	502.5	503.4	504.1	505.0	505.8	506.5	507.1	507.7
162.5°	502.6	503.3	503.9	504.5	505.2	505.8	506.4	507.0	508.1	508.6	509.7
165°	503.9	504.7	505.7	506.3	507.4	508.3	509.0	509.9	510.4	511.1	511.5
167.5°	508.6	509.2	510.3	511.0	511.9	512.6	513.5	514.3	514.9	515.2	516.0
170°	511.2	511.8	512.5	513.3	514.0	514.5	515.5	516.1	516.9	517.4	518.4
172.5°	516.8	517.3	517.9	518.3	518.9	519.5	520.1	520.5	521.2	521.7	522.3
175°	521.3	521.3	521.5	521.7	521.9	521.9	522.0	522.4	522.6	522.7	522.9
177.5°	523.5	523.8	523.9	524.1	524.3	524.6	524.8	524.9	524.9	524.9	524.9
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46899.2	46901.2	46863.4	46861.3	46825.9	46821.4	46786.8	46776.4	46748.3	46738.1	46709.6
5°	48322.0	48276.0	48169.5	48106.9	48001.6	47931.9	47818.1	47743.8	47633.9	47551.0	47440.4
7.5°	49761.1	49689.6	49570.0	49473.2	49327.1	49210.6	49039.7	48899.8	48714.7	48554.6	48360.2
10°	*50183.2*	*50172.2*	*50141.8*	*50097.3*	*50029.5*	*49953.1*	*49836.8*	*49715.5*	*49553.4*	*49377.3*	*49161.2*
12.5°	49144.7	49256.8	49409.7	49500.3	49610.6	49659.0	49704.2	49692.8	49663.1	49574.0	49449.1
15°	46514.1	46829.1	47246.4	47569.8	47941.7	48212.2	48510.7	48696.8	48882.4	48968.1	49020.5
17.5°	42329.3	42925.9	43674.1	44294.1	45009.5	45584.1	46213.9	46688.1	47175.7	47525.0	47840.9
20°	36953.9	37818.4	38876.5	39811.3	40898.3	41842.9	42878.0	43727.8	44604.1	45289.3	45937.8
22.5°	31123.6	32150.2	33429.5	34614.5	36015.7	37275.1	38695.9	39932.6	41223.7	42302.5	43345.4
25°	25390.4	26516.2	27915.0	29237.2	30824.2	32289.0	33974.0	35515.2	37184.1	38633.0	40064.3
27.5°	20155.0	21260.4	22688.5	24095.9	25774.1	27334.9	29140.3	30838.4	32738.6	34490.9	36283.3
30°	15852.1	16789.7	18070.1	19433.3	21088.5	22676.8	24501.8	26248.3	28225.0	30138.3	32157.3
32.5°	12559.1	13273.4	14280.1	15432.8	16960.0	18471.9	20209.7	21895.6	23842.3	25774.9	27874.8
35°	9974.2	10531.4	11298.9	12198.5	13491.7	14795.0	16332.1	17865.3	19681.4	21515.3	23556.4
37.5°	7865.2	8317.3	8918.4	9594.1	10631.4	11701.1	12961.4	14232.4	15810.5	17436.1	19286.0
40°	6141.9	6507.9	6975.8	7479.8	8263.1	9087.3	10062.0	11047.6	12315.4	13644.1	15174.9
42.5°	4824.9	5094.9	5425.6	5793.8	6524.6	6962.1	7623.0	8336.0	9268.0	10232.5	11383.6
45°	3874.8	4059.1	4288.3	4535.3	4874.4	5245.7	5698.3	6173.0	7058.4	7492.7	8192.8
47.5°	3235.9	3359.6	3505.4	3661.0	3861.1	4076.9	4345.4	4619.9	4974.9	5342.8	5774.1
50°	2805.5	2931.2	2981.4	3062.0	3177.8	3301.0	3452.4	3603.7	3794.2	3987.1	4209.2
52.5°	2486.2	2527.1	2581.6	2632.9	2704.6	2845.0	2890.4	2969.5	3076.3	3180.7	3297.3
55°	2242.3	2268.9	2304.3	2335.3	2378.7	2420.1	2480.0	2532.6	2603.8	2666.8	2744.2
57.5°	2052.4	2069.4	2094.0	2114.3	2142.4	2165.8	2200.8	2229.4	2270.4	2305.9	2352.8
60°	1914.4	1925.8	1942.4	1955.6	1973.4	1985.7	2003.1	2016.5	2038.2	2056.2	2082.3
62.5°	1801.8	1807.7	1818.5	1826.3	1837.6	1843.7	1853.1	1858.9	1870.8	1879.9	1894.5
65°	1666.6	1668.0	1675.3	1678.5	1687.4	1690.7	1698.3	1701.0	1710.8	1717.5	1730.5
67.5°	1555.9	1552.7	1552.9	1550.4	1551.5	1549.0	1549.6	1546.9	1550.8	1552.9	1562.7
70°	1454.7	1450.4	1449.0	1444.4	1443.1	1438.2	1436.8	1432.5	1432.0	1430.6	1434.1
72.5°	1356.1	1355.0	1355.3	1352.1	1351.7	1348.4	1348.6	1346.5	1348.8	1349.8	1354.2
75°	1242.8	1243.2	1245.4	1242.5	1243.3	1240.6	1241.6	1239.0	1240.4	1239.9	1244.4
77.5°	1104.9	1108.2	1114.2	1113.0	1114.9	1111.8	1113.2	1109.5	1110.5	1108.2	1109.9
80°	949.7	956.6	964.7	964.3	967.8	965.6	968.7	965.2	966.6	962.4	961.4
82.5°	765.6	771.4	780.0	780.3	787.9	789.3	797.7	797.4	802.7	799.3	796.8
85°	523.4	527.3	534.9	539.0	546.8	551.6	559.7	562.9	557.1	567.7	559.3
87.5°	273.3	283.4	277.8	291.0	287.9	301.4	298.4	310.8	308.4	319.0	317.7
90°	100.1	101.4	110.0	111.9	122.3	125.2	130.1	126.6	131.2	128.0	132.7
92.5°	85.7	91.9	97.6	103.4	109.1	115.0	109.6	104.2	98.9	93.6	88.2
95°	115.8	124.3	132.7	141.2	149.6	158.1	149.0	140.1	131.1	122.0	112.9
97.5°	135.9	144.9	154.0	163.0	172.3	181.4	170.7	160.0	149.3	138.8	128.0
100°	190.9	208.5	226.0	243.6	261.3	278.8	259.0	239.0	219.2	199.2	179.3
102.5°	381.0	421.2	461.4	501.8	542.0	582.3	540.1	498.0	455.5	413.3	370.9
105°	708.5	772.9	837.4	901.8	966.1	1030.9	962.3	893.7	825.1	756.7	687.9
107.5°	1042.7	1105.4	1168.6	1231.3	1294.3	1357.5	1288.1	1218.4	1149.0	1079.3	1009.7
110°	1235.1	1272.9	1310.9	1349.0	1386.8	1424.9	1374.2	1323.7	1272.9	1222.1	1171.4

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	1272.7	1292.2	1311.0	1330.4	1349.4	1368.7	1332.5	1296.6	1260.3	1224.3	1187.9
115°	1196.2	1202.3	1208.9	1215.2	1221.6	1227.9	1203.7	1179.4	1155.2	1131.0	1106.4
117.5°	1054.0	1053.5	1052.5	1052.2	1051.3	1050.7	1037.3	1024.0	1010.5	997.0	983.4
120°	910.3	905.8	901.2	896.6	891.9	887.2	881.9	876.4	870.8	865.2	859.6
122.5°	785.9	783.2	780.0	777.0	773.8	770.7	768.7	767.1	765.1	763.3	761.0
125°	688.5	688.8	689.3	689.8	689.9	690.3	689.4	688.8	687.9	687.3	686.3
127.5°	622.9	625.8	628.4	631.3	633.7	636.5	636.5	636.8	636.9	637.0	637.0
130°	583.4	588.2	592.6	596.7	600.8	605.4	605.0	605.0	604.7	604.4	604.2
132.5°	561.1	566.1	571.1	576.3	581.0	585.9	585.4	585.3	584.6	584.5	583.9
135°	547.2	552.0	556.5	561.5	565.9	570.5	569.9	569.4	568.6	568.3	567.6
137.5°	538.3	542.5	546.2	550.1	553.6	557.4	556.7	556.1	555.3	554.9	554.2
140°	532.7	535.9	538.8	542.0	545.0	548.0	546.9	546.2	545.1	544.2	543.1
142.5°	528.9	531.4	533.5	536.1	538.1	540.5	538.8	537.4	535.9	534.5	532.9
145°	528.3	530.1	531.7	533.2	534.4	536.2	534.2	532.6	530.4	528.8	526.8
147.5°	525.1	526.4	527.1	528.4	528.9	530.1	528.2	526.4	524.6	522.7	520.7
150°	520.8	522.0	522.7	523.7	524.4	525.4	523.3	521.4	519.2	517.2	515.3
152.5°	514.2	515.2	515.9	516.5	517.3	518.1	516.0	514.3	512.3	510.2	508.3
155°	510.2	511.0	511.4	512.1	512.3	512.7	510.9	509.5	507.9	506.2	504.4
157.5°	508.5	509.2	509.7	510.0	510.4	510.9	509.6	508.5	507.1	505.9	504.6
160°	508.3	508.8	509.3	509.6	510.2	510.4	509.3	508.5	507.5	506.3	505.0
162.5°	510.3	511.2	511.6	512.3	513.0	513.5	512.3	511.1	509.8	508.5	507.2
165°	512.1	512.6	513.2	513.6	513.8	514.3	513.5	512.8	511.8	511.1	510.0
167.5°	516.3	517.0	517.3	517.9	518.1	518.3	517.5	517.0	516.0	515.1	514.1
170°	518.7	519.2	520.0	520.6	521.0	521.3	520.8	520.1	519.3	518.7	517.8
172.5°	522.9	523.4	523.6	524.2	524.4	524.9	524.2	523.4	522.8	522.0	521.0
175°	522.9	523.0	523.4	523.4	523.4	523.6	523.0	522.3	521.8	521.1	520.5
177.5°	524.9	524.9	524.9	524.8	524.8	524.8	524.3	523.9	523.5	523.1	522.5
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

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

Scaled Data Report

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9	46407.9
2.5°	46699.4	46679.1	46666.1	46649.4	46639.2	46626.4	46616.9	46608.8	46602.3	46596.3	46591.8
5°	47356.1	47251.7	47170.7	47083.0	47010.9	46939.1	46883.7	46837.7	46806.1	46782.4	46768.2
7.5°	48192.1	48001.1	47831.2	47652.3	47492.0	47334.3	47198.4	47081.3	46993.4	46936.4	46901.9
10°	*48938.8*	*48683.0*	*48430.1*	*48163.8*	*47911.4*	*47666.4*	*47440.4*	*47241.6*	*47084.3*	*46979.7*	*46918.6*
12.5°	49273.5	49055.6	48797.3	48508.2	48198.8	47885.7	47580.6	47305.4	47074.4	46919.5	46830.0
15°	48978.8	48889.3	48714.0	48489.6	48196.0	47872.3	47514.0	47177.2	46867.5	46666.6	46550.2
17.5°	48019.9	48144.7	48131.3	48045.5	47834.4	47562.0	47196.9	46818.6	46431.1	46162.7	46016.0
20°	46401.7	46794.2	46993.4	47095.6	47012.7	46836.0	46505.5	46121.5	45669.9	45319.4	45105.5
22.5°	44127.8	44820.8	45252.7	45568.6	45635.7	45575.5	45283.6	44918.5	44415.0	43993.7	43677.7
25°	41200.5	42215.7	42898.2	43433.3	43641.1	43694.8	43446.3	43083.3	42522.1	42031.2	41597.2
27.5°	37752.5	39071.8	39983.0	40701.9	41026.4	41167.1	40938.5	40568.1	39904.1	39318.2	38751.3
30°	33870.8	35435.9	36533.1	37395.1	37790.8	37976.6	37733.8	37320.3	36547.7	35842.5	35128.4
32.5°	29716.2	31428.9	32624.4	33560.6	33952.5	34127.5	33809.8	33345.4	32452.4	31621.6	30788.9
35°	25366.2	27095.0	28300.7	29211.9	29540.3	29645.8	29239.5	28702.8	27713.5	26801.7	25893.6
37.5°	20927.8	22536.1	23631.9	24449.7	24653.0	24671.3	24181.8	23588.8	22549.0	21650.0	20746.0
40°	16527.7	17884.0	18768.8	19423.4	19493.9	19431.0	18898.8	18302.1	17329.4	16523.9	15730.3
42.5°	12383.0	13406.9	14038.1	14486.7	14460.0	14335.7	13847.7	13334.8	12532.3	11918.8	11294.3
45°	8832.2	9507.3	9876.4	10138.8	10054.5	9936.1	9556.3	9196.8	8651.5	8255.2	7835.5
47.5°	6135.8	6942.0	6801.6	7314.9	6872.7	7164.7	6556.6	6221.3	5931.8	5721.4	5484.2
50°	4392.7	4577.4	4666.7	4727.6	4695.2	4650.4	4541.2	4443.5	4311.2	4214.9	4102.6
52.5°	3392.4	3484.7	3535.3	3571.9	3564.8	3548.4	3500.8	3457.3	3395.3	3354.6	3305.4
55°	2873.5	2874.9	2968.0	2928.0	2987.0	2917.8	2945.0	2868.5	2880.9	2815.1	2771.0
57.5°	2387.8	2425.6	2442.6	2459.1	2454.5	2451.6	2433.2	2423.9	2403.1	2396.7	2381.9
60°	2100.4	2120.2	2124.3	2131.9	2125.5	2123.1	2108.7	2103.5	2089.5	2087.0	2077.1
62.5°	1903.3	1913.4	1913.4	1913.4	1905.2	1897.2	1881.3	1872.8	1861.0	1858.4	1852.7
65°	1738.9	1749.3	1751.0	1753.3	1747.3	1741.1	1727.0	1717.9	1705.6	1701.0	1694.5
67.5°	1569.1	1580.3	1584.1	1589.7	1586.3	1585.1	1575.5	1571.8	1563.8	1561.9	1555.9
70°	1435.8	1440.4	1440.1	1439.9	1432.4	1425.7	1414.5	1409.2	1400.7	1399.0	1393.5
72.5°	1356.5	1359.8	1357.7	1354.8	1345.0	1335.0	1322.0	1312.3	1301.3	1294.4	1286.7
75°	1244.8	1249.2	1246.5	1244.6	1235.8	1229.3	1218.7	1213.4	1205.7	1203.4	1198.1
77.5°	1107.8	1109.9	1105.4	1104.9	1098.2	1094.0	1086.1	1084.8	1079.1	1079.3	1074.1
80°	955.3	954.0	946.8	945.5	938.8	937.1	930.8	931.2	926.7	928.6	925.0
82.5°	786.0	781.7	772.3	769.5	761.8	761.0	757.0	760.4	757.6	761.8	759.3
85°	563.3	564.5	560.4	560.4	558.1	558.8	558.5	561.0	561.4	565.2	565.0
87.5°	314.0	318.6	317.7	321.8	321.7	326.3	327.8	334.7	335.5	342.0	342.0
90°	129.4	134.8	131.3	136.9	135.6	142.2	142.0	148.6	147.6	153.3	150.9
92.5°	82.8	77.5	72.2	66.8	64.1	61.1	59.0	55.7	53.4	50.4	47.7
95°	103.9	94.8	85.7	76.7	73.6	70.3	67.2	64.2	61.0	57.9	54.8
97.5°	117.3	106.6	95.9	85.2	82.5	79.8	76.9	74.3	71.6	69.0	66.3
100°	159.2	139.3	119.5	99.3	97.1	94.8	92.5	90.3	88.0	85.6	83.3
102.5°	328.6	286.1	243.7	201.3	193.2	185.3	177.2	169.0	161.0	153.0	144.9
105°	619.3	550.5	481.8	413.0	391.2	369.3	347.5	325.6	303.7	281.9	260.0
107.5°	940.0	870.3	800.6	730.8	690.6	650.2	609.9	569.3	529.1	488.5	448.2
110°	1120.7	1069.7	1018.9	967.8	935.6	903.1	870.5	838.0	805.5	772.8	740.3

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1151.7	1115.3	1079.0	1042.3	1027.8	1013.0	998.5	983.7	969.0	954.1	939.4
115°	1082.0	1057.6	1033.0	1008.3	1003.4	998.2	993.2	987.9	982.8	977.5	972.1
117.5°	969.9	956.3	942.5	928.8	929.8	930.8	931.8	932.6	933.4	934.1	934.8
120°	853.9	848.1	842.6	836.7	841.5	846.1	850.8	855.1	859.6	863.7	868.0
122.5°	759.2	757.1	755.2	752.8	758.6	764.2	769.7	775.2	780.4	785.4	790.4
125°	685.6	684.6	683.8	682.6	688.6	694.2	699.9	705.1	710.7	715.5	720.7
127.5°	637.1	637.1	637.2	637.1	641.6	645.5	649.6	653.3	657.3	660.6	664.0
130°	604.1	603.6	603.5	603.2	607.1	610.8	614.7	617.9	621.5	624.4	627.4
132.5°	583.7	583.1	582.9	582.2	585.3	588.0	590.9	593.1	595.6	597.5	599.5
135°	567.1	566.4	565.8	565.0	567.8	570.5	573.1	575.2	577.6	579.2	581.1
137.5°	553.7	552.9	552.2	551.4	554.0	556.4	558.7	560.7	562.6	564.4	565.8
140°	542.3	541.1	540.5	539.3	541.6	543.6	545.8	547.5	549.4	550.7	552.1
142.5°	531.5	529.7	528.6	526.8	528.5	530.0	531.5	532.8	534.3	535.2	536.0
145°	524.9	522.8	521.2	519.1	520.5	521.6	523.0	524.1	524.9	525.5	526.3
147.5°	519.1	517.0	515.0	513.1	514.4	515.1	515.9	516.4	517.4	517.8	518.2
150°	513.3	510.9	508.7	506.6	507.5	508.0	508.6	509.4	509.9	510.2	510.6
152.5°	506.2	504.1	502.0	499.7	500.3	500.7	501.1	501.4	501.8	502.0	502.3
155°	502.7	500.8	498.9	496.9	497.6	497.8	498.0	498.2	498.3	498.3	498.5
157.5°	503.1	501.4	500.2	498.5	498.5	498.5	498.6	498.0	498.0	497.8	497.5
160°	504.0	502.6	501.4	499.9	499.8	499.7	499.7	499.2	499.0	498.6	498.3
162.5°	505.7	504.3	502.7	501.0	500.9	501.0	500.8	500.3	500.2	499.7	499.4
165°	509.2	508.0	506.9	505.6	505.5	505.1	504.9	504.2	503.9	503.2	502.7
167.5°	513.0	512.0	510.7	509.4	509.4	509.4	509.4	509.0	508.9	508.4	508.3
170°	517.0	516.0	515.2	514.2	513.9	513.7	513.3	513.0	512.4	512.2	511.6
172.5°	520.1	519.2	518.2	517.2	517.2	517.0	516.6	516.4	515.9	515.5	515.4
175°	519.7	519.1	518.1	517.5	517.3	517.2	517.1	516.9	516.5	516.3	516.0
177.5°	522.1	521.7	521.0	520.6	520.4	520.4	520.2	520.1	520.1	519.9	519.7
180°	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5	522.5

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	46407.9	46407.9
2.5°	46587.7	46585.2
5°	46760.9	46758.1
7.5°	46892.6	46891.7
10°	*46908.1*	*46916.1*
12.5°	46814.5	46821.1
15°	46541.3	46554.0
17.5°	46018.7	46035.4
20°	45118.5	45135.8
22.5°	43660.7	43667.9
25°	41541.2	41511.1
27.5°	38651.7	38599.9
30°	34978.4	34928.4
32.5°	30599.0	30567.7
35°	25669.1	25649.4
37.5°	20478.9	20438.6
40°	15440.2	15322.9
42.5°	11020.8	10815.0
45°	7616.3	7372.4
47.5°	5317.0	5166.2
50°	4030.2	3981.5
52.5°	3283.9	3272.5
55°	2770.8	2765.8
57.5°	2385.2	2383.5
60°	2082.3	2081.8
62.5°	1856.5	1857.3
65°	1697.4	1697.7
67.5°	1557.4	1556.3
70°	1395.6	1394.4
72.5°	1284.1	1282.2
75°	1198.1	1196.9
77.5°	1075.6	1073.7
80°	927.4	925.0
82.5°	762.8	760.0
85°	569.0	569.1
87.5°	348.1	347.9
90°	156.1	152.9
92.5°	45.4	43.0
95°	51.8	48.7
97.5°	63.6	60.9
100°	81.0	78.8
102.5°	136.9	128.9
105°	238.2	216.3
107.5°	407.8	367.4
110°	707.8	675.2

TEST NUMBER: P1444783
CATALOG NUMBER: EHBR1-60-UNV-TA-L935-UPL36

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	924.5	909.6
115°	966.4	961.1
117.5°	935.2	935.7
120°	871.8	875.9
122.5°	795.1	799.8
125°	725.2	730.0
127.5°	667.1	670.0
130°	629.6	632.3
132.5°	601.1	602.3
135°	582.2	583.5
137.5°	566.7	567.8
140°	552.8	553.7
142.5°	536.7	537.2
145°	526.8	527.0
147.5°	517.9	518.1
150°	510.4	510.5
152.5°	501.9	502.0
155°	498.1	498.0
157.5°	496.8	496.5
160°	497.7	497.3
162.5°	498.8	498.5
165°	501.8	501.1
167.5°	507.6	507.5
170°	511.1	510.7
172.5°	514.9	514.5
175°	515.8	515.6
177.5°	519.7	519.3
180°	522.5	522.5

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: SP1-2506-472-6

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L935-N

Data in this report applies to families of products including EHBR-60-L935-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

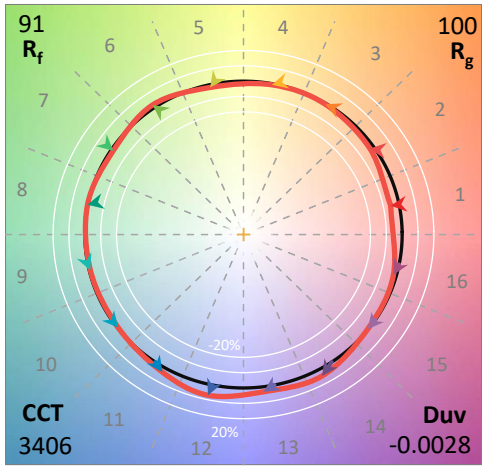
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-6
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-L935-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3500K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	3406
CIE u':	0.2394
CIE v':	0.5094
Duv:	-0.0028
CIE x:	0.4076
CIE y:	0.3856
CIE z:	0.2068
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	582
Purity:	38.0517
Rf:	91.3
Rg:	100

CRI (Ra):	94.6
R1:	96.6
R2:	98.4
R3:	98.1
R4:	95.8
R5:	96.2
R6:	95.4
R7:	91.8
R8:	84.4
R9:	63.8
R10:	94.7
R11:	96.6
R12:	80.9
R13:	97.4
R14:	98.3
R15:	93.1



Test Conditions

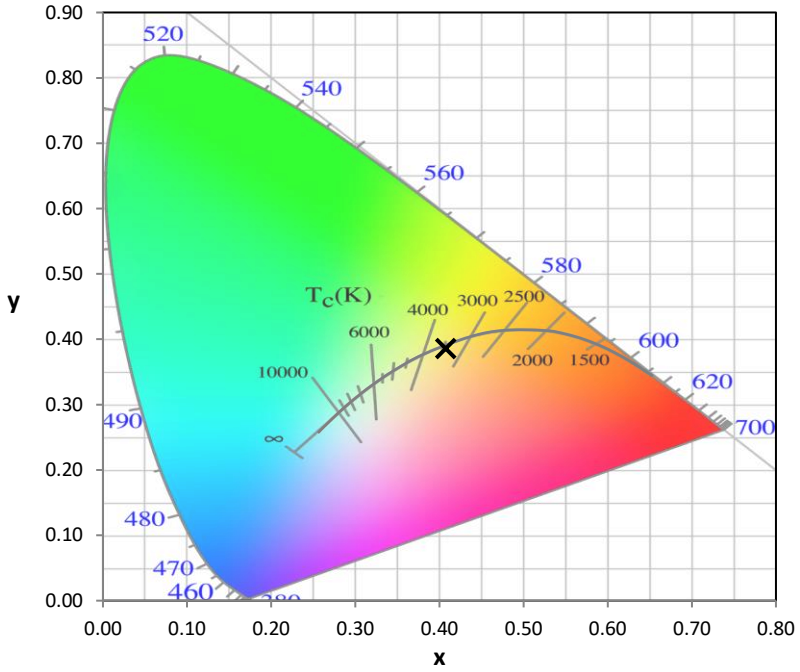
Stabilization Time:	35M
Operation Time:	1H 35M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-6

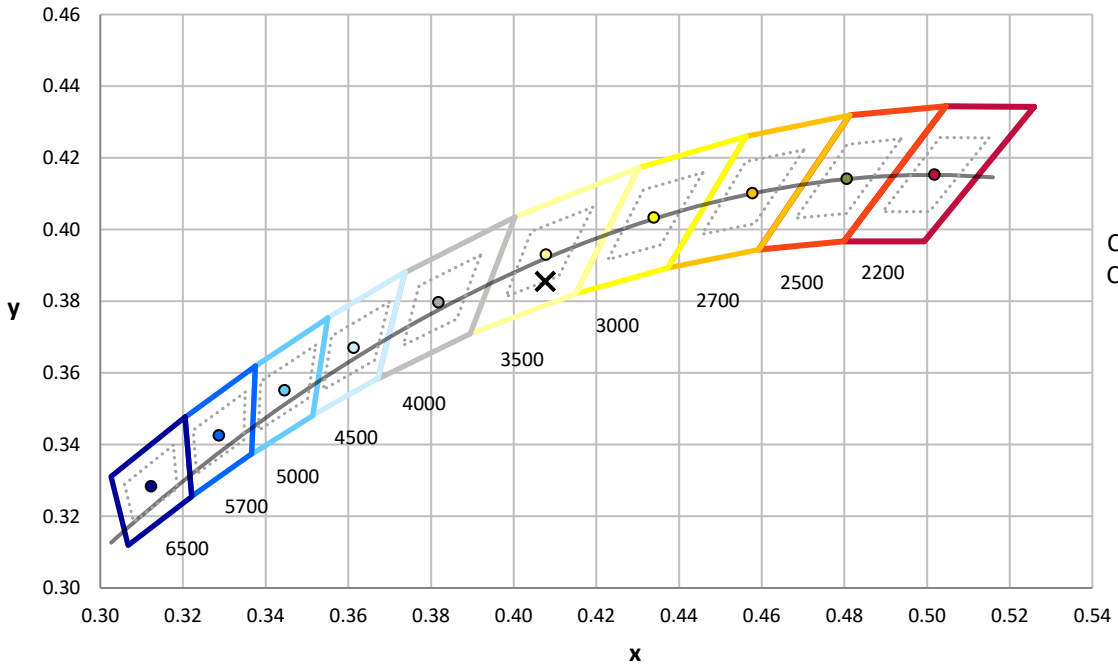
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

CIE 1931 Chromaticity Diagram



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

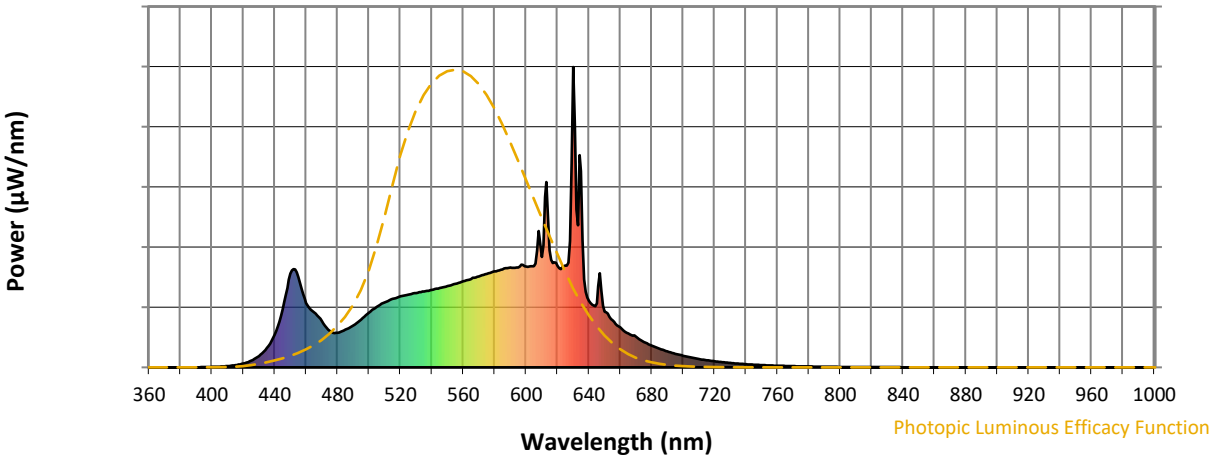


CCT = 3406K
CIE x = 0.4076
CIE y = 0.3856
Duv = -0.0028

Point lies inside the ANSI 3500K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-6

Photopic Flux vs. Wavelength

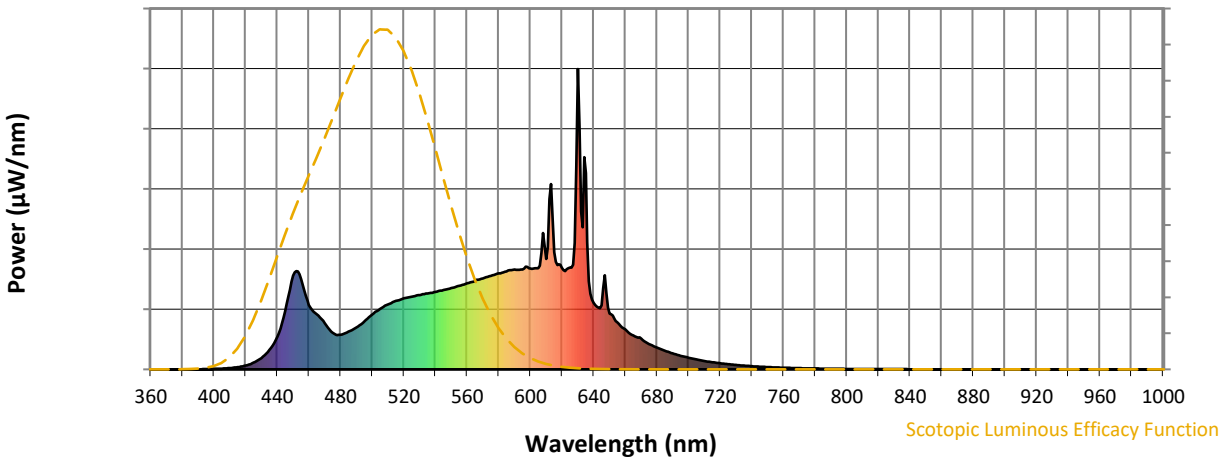


Photopic Lumens: NR

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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-6

Scotopic Flux vs. Wavelength

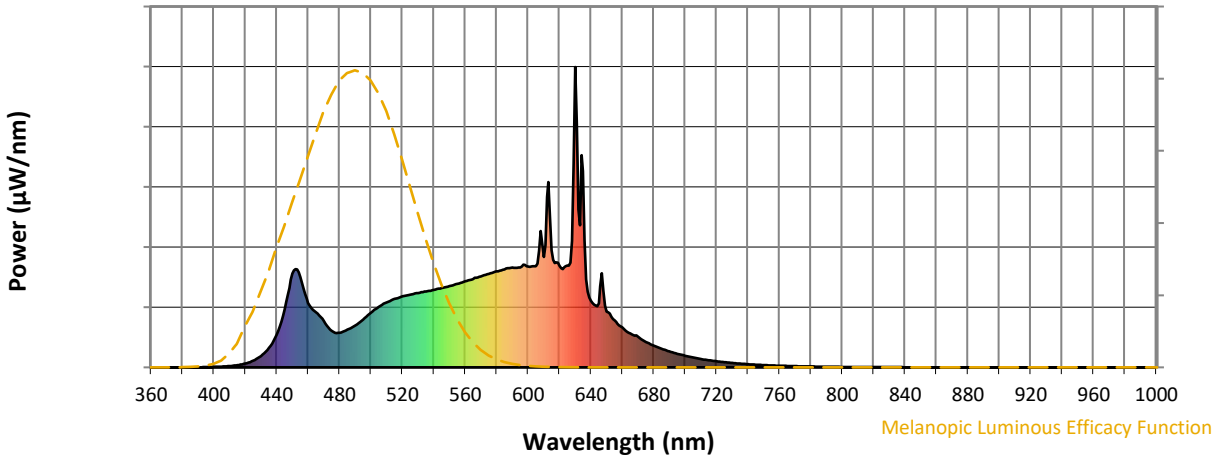


Scotopic Lumens: NR **S/P: 1.62**

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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 3.3**

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	140	NR	620	338	NR	750	8	NR	880	0	NR
365	0	NR	495	159	NR	625	339	NR	755	7	NR	885	0	NR
370	0	NR	500	182	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	202	NR	635	653	NR	765	5	NR	895	0	NR
380	0	NR	510	216	NR	640	222	NR	770	4	NR	900	0	NR
385	0	NR	515	228	NR	645	214	NR	775	3	NR	905	0	NR
390	0	NR	520	236	NR	650	185	NR	780	3	NR	910	0	NR
395	1	NR	525	242	NR	655	157	NR	785	3	NR	915	0	NR
400	2	NR	530	248	NR	660	133	NR	790	2	NR	920	0	NR
405	3	NR	535	253	NR	665	113	NR	795	2	NR	925	0	NR
410	4	NR	540	258	NR	670	103	NR	800	2	NR	930	0	NR
415	7	NR	545	264	NR	675	85	NR	805	1	NR	935	0	NR
420	13	NR	550	270	NR	680	72	NR	810	1	NR	940	0	NR
425	22	NR	555	278	NR	685	62	NR	815	1	NR	945	0	NR
430	38	NR	560	286	NR	690	53	NR	820	1	NR	950	0	NR
435	65	NR	565	295	NR	695	45	NR	825	1	NR	955	0	NR
440	108	NR	570	303	NR	700	39	NR	830	1	NR	960	0	NR
445	193	NR	575	311	NR	705	33	NR	835	1	NR	965	0	NR
450	312	NR	580	319	NR	710	28	NR	840	1	NR	970	0	NR
455	300	NR	585	326	NR	715	24	NR	845	0	NR	975	0	NR
460	214	NR	590	332	NR	720	20	NR	850	0	NR	980	0	NR
465	184	NR	595	333	NR	725	17	NR	855	0	NR	985	0	NR
470	153	NR	600	336	NR	730	15	NR	860	0	NR	990	0	NR
475	122	NR	605	337	NR	735	12	NR	865	0	NR	995	0	NR
480	115	NR	610	367	NR	740	10	NR	870	0	NR	1000	0	NR
485	125	NR	615	390	NR	745	9	NR	875	0	NR			

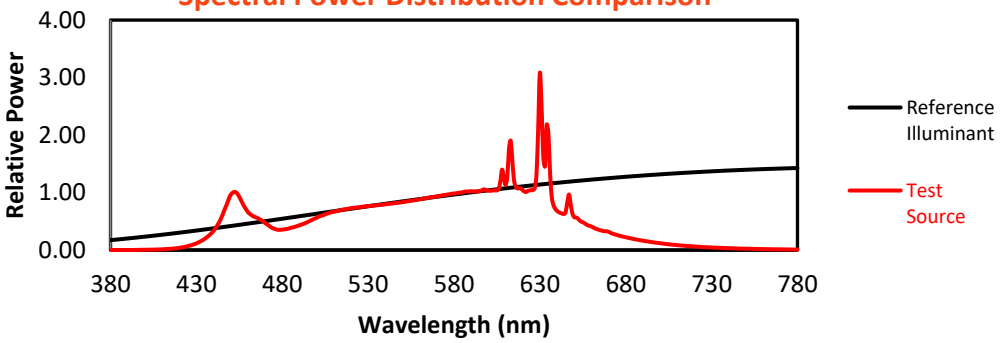
REPORT NUMBER: SP1-2506-472-6

TM-30-18

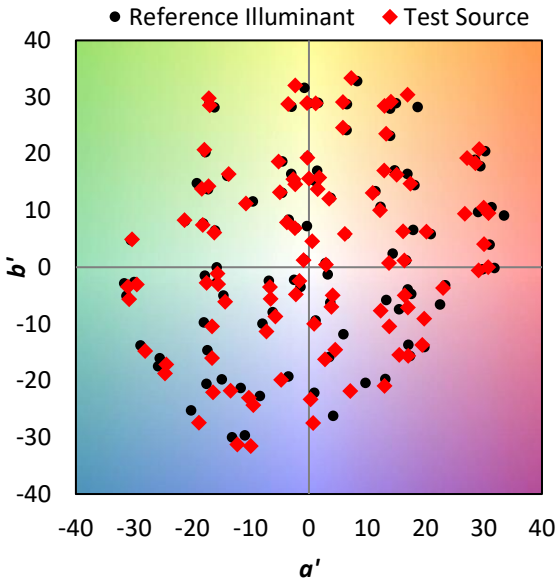
Summary

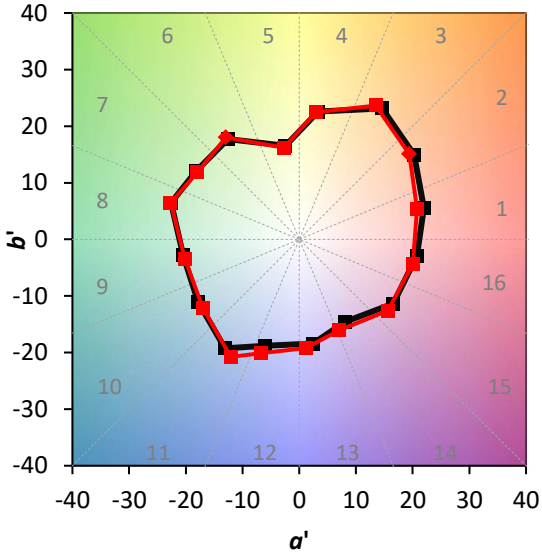
R_f = 91.3
R_g = 100
CIE R_a = 94.6
R_9 = 63.8

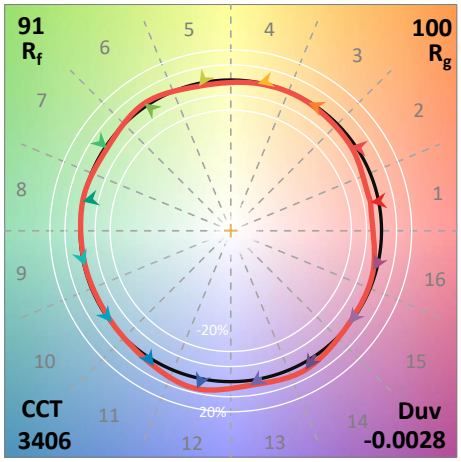
Spectral Power Distribution Comparison

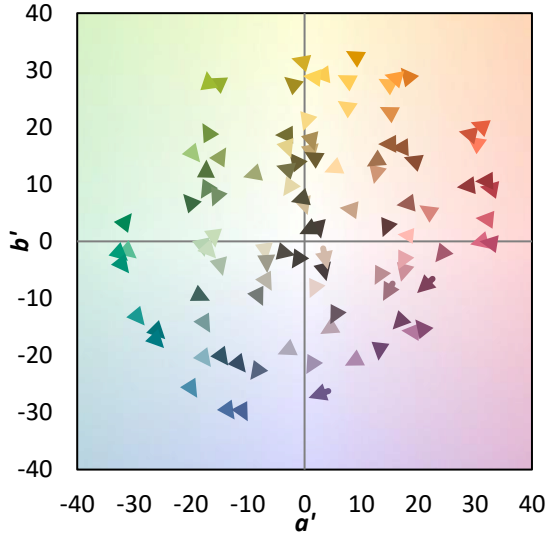


Color Vector Graphics







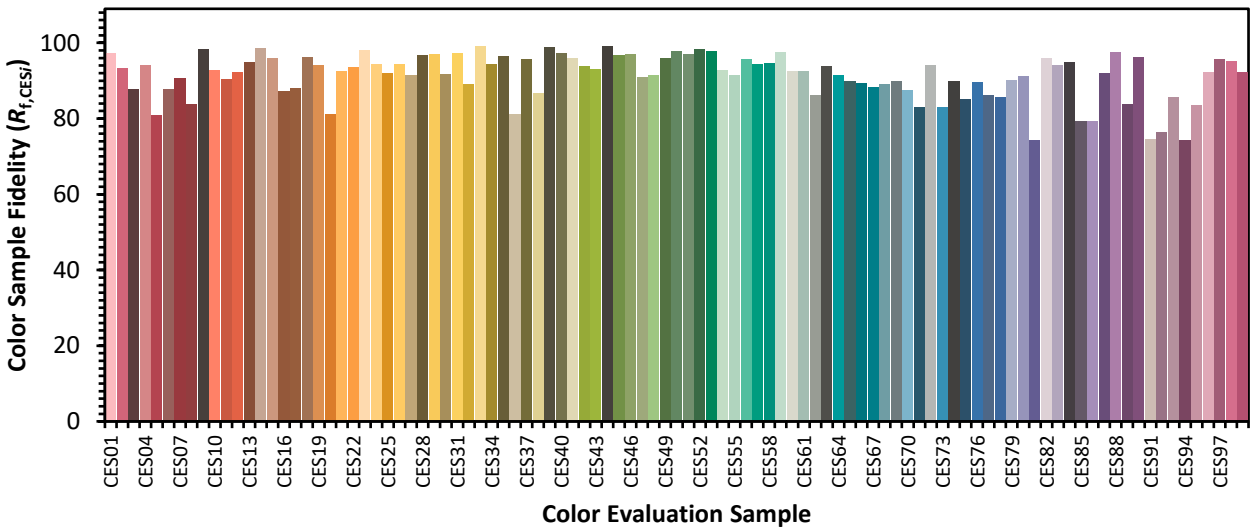


REPORT NUMBER: SP1-2506-472-6

TM-30-18

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

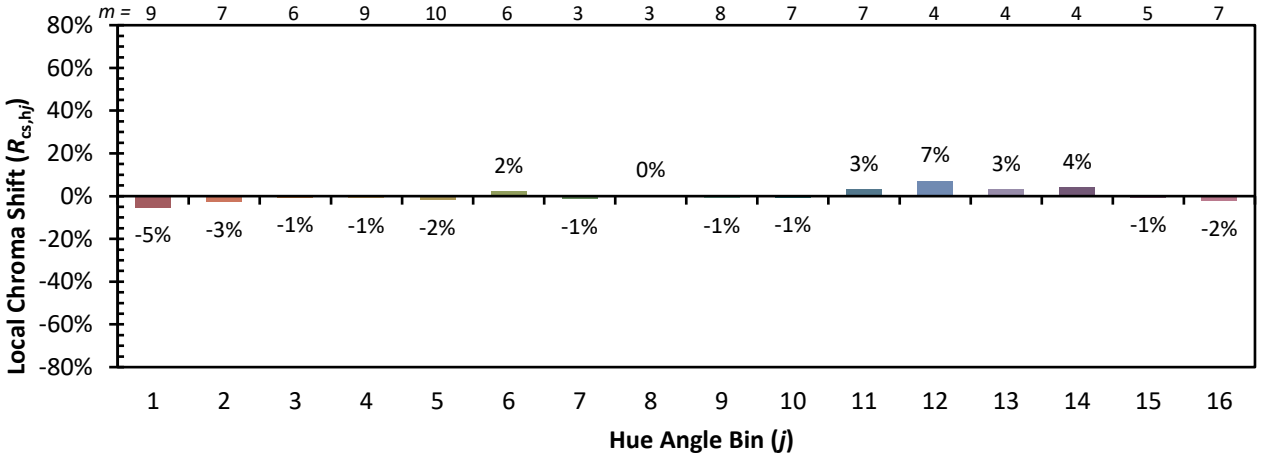
CES01 = 86	CES26 = 94	CES51 = 97	CES76 = 90
CES02 = 63	CES27 = 92	CES52 = 98	CES77 = 86
CES03 = 31	CES28 = 97	CES53 = 98	CES78 = 86
CES04 = 70	CES29 = 97	CES54 = 93	CES79 = 90
CES05 = 50	CES30 = 92	CES55 = 92	CES80 = 91
CES06 = 51	CES31 = 97	CES56 = 96	CES81 = 74
CES07 = 43	CES32 = 89	CES57 = 94	CES82 = 96
CES08 = 41	CES33 = 99	CES58 = 95	CES83 = 94
CES09 = 29	CES34 = 94	CES59 = 98	CES84 = 95
CES10 = 75	CES35 = 97	CES60 = 92	CES85 = 79
CES11 = 58	CES36 = 81	CES61 = 93	CES86 = 79
CES12 = 64	CES37 = 96	CES62 = 86	CES87 = 92
CES13 = 44	CES38 = 87	CES63 = 94	CES88 = 98
CES14 = 74	CES39 = 99	CES64 = 91	CES89 = 84
CES15 = 72	CES40 = 97	CES65 = 90	CES90 = 96
CES16 = 48	CES41 = 96	CES66 = 89	CES91 = 75
CES17 = 49	CES42 = 94	CES67 = 88	CES92 = 76
CES18 = 56	CES43 = 93	CES68 = 89	CES93 = 86
CES19 = 71	CES44 = 99	CES69 = 90	CES94 = 74
CES20 = 67	CES45 = 97	CES70 = 88	CES95 = 83
CES21 = 86	CES46 = 97	CES71 = 83	CES96 = 92
CES22 = 78	CES47 = 91	CES72 = 94	CES97 = 96
CES23 = 91	CES48 = 91	CES73 = 83	CES98 = 95
CES24 = 90	CES49 = 96	CES74 = 90	CES99 = 92
CES25 = 71	CES50 = 98	CES75 = 85	

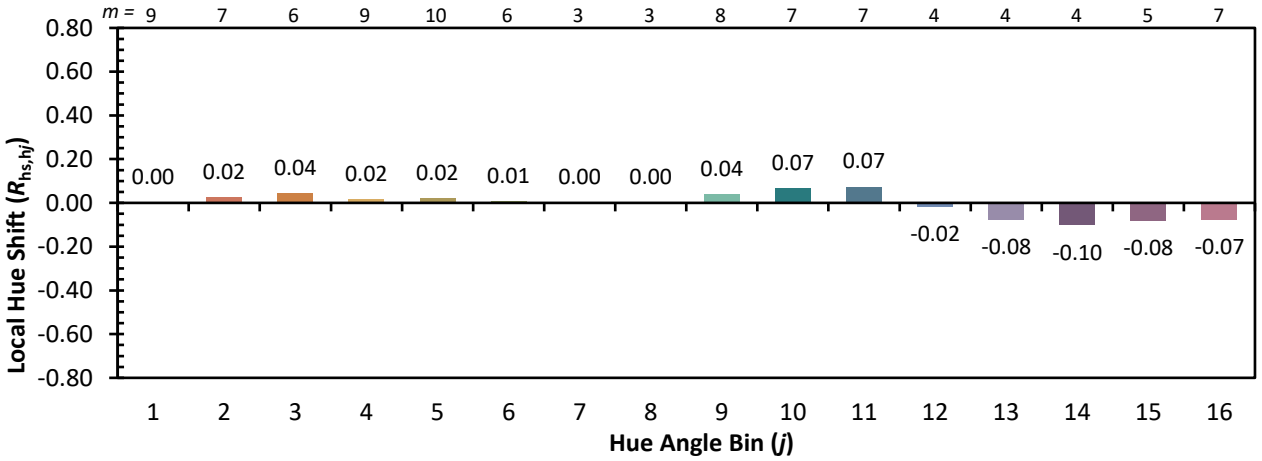


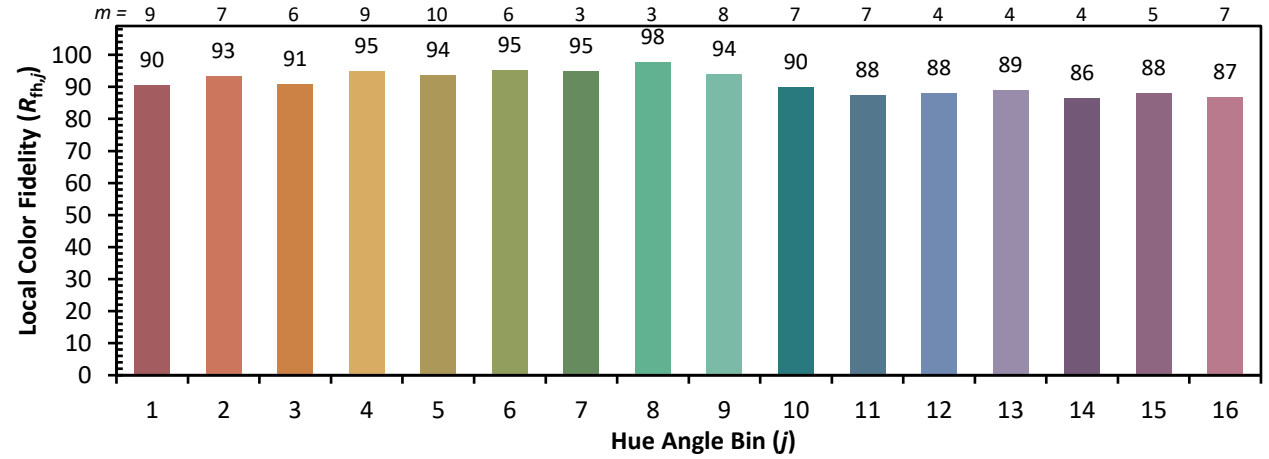
REPORT NUMBER: SP1-2506-472-6

TM-30-18

Color Rendition by Hue-Angle Bin



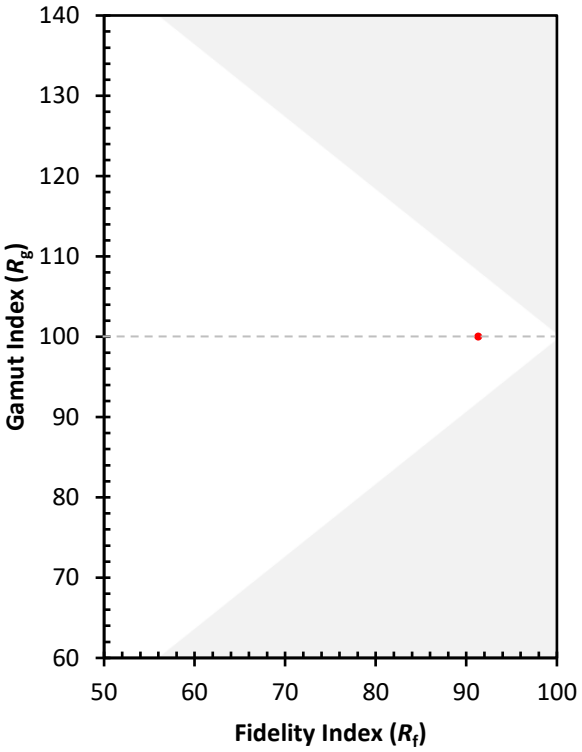


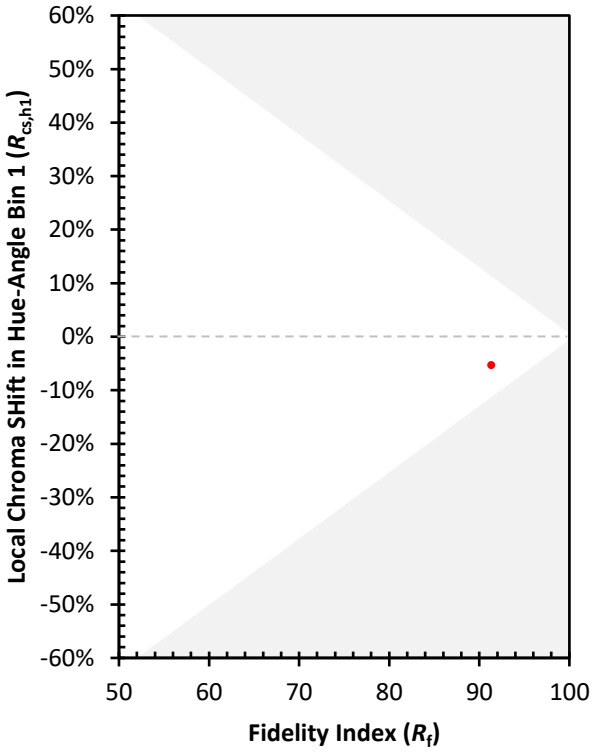


REPORT NUMBER: SP1-2506-472-6

TM-30-18

Measure Comparisons





(END OF REPORT)