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: P1444464

Luminaire Tested: EHBR1-36-UNV-TA-L830-UPL40

Issue Date: 5/1/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1444464
	REPORT IS A COMBINATION OF REPORTS P1444358 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	5/1/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-36-UNV-TA-L830-UPL40
Description:	Elevate Round Highbay at, 36000 lumens, 3000K 80CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	37357.9 lumens
Efficiency:	N/A
Efficacy:	168.3 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:	Semi-Direct

Input Watts (W):	222
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

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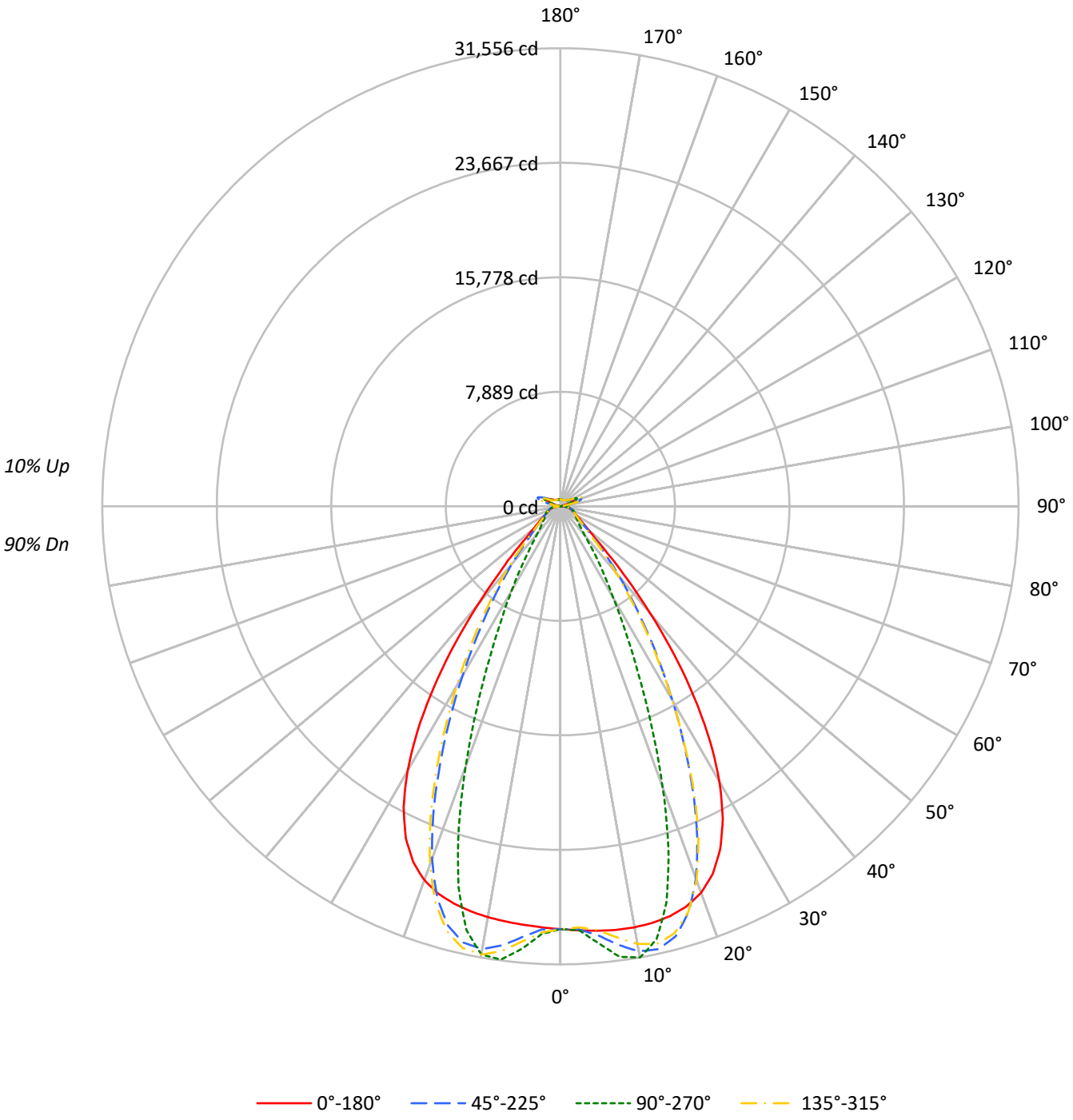
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90
1	109	106	103	100	106	103	100	97	97	95	93	91	90	88	86	85	84	81
2	103	97	92	88	99	94	90	86	89	85	82	84	82	79	80	78	76	74
3	96	89	83	78	93	86	81	77	82	78	74	78	75	72	75	72	69	67
4	90	82	75	70	88	80	74	69	76	71	67	73	69	65	70	66	63	61
5	85	75	69	64	83	74	68	63	71	65	61	68	63	60	65	61	58	57
6	80	70	63	58	78	69	62	58	66	61	56	64	59	55	61	57	54	52
7	76	65	58	54	74	64	58	53	62	56	52	60	55	51	58	53	50	48
8	72	61	54	50	70	60	54	49	58	52	48	56	51	48	54	50	47	45
9	68	57	51	46	66	56	50	46	54	49	45	53	48	44	51	47	44	42
10	64	54	47	43	63	53	47	43	51	46	42	50	45	42	48	44	41	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	136793	136793	136793	136793
5°	137455	141463	135531	143316
10°	138603	148526	135279	147543
15°	139282	134637	135042	129216
20°	137843	100300	133331	92802
25°	130474	63434	126161	57555
30°	113979	38120	109564	34837
35°	87719	23920	82673	21189
40°	55490	15005	50768	14099
45°	28600	11689	28127	11497
50°	16768	10398	16254	10235
55°	12846	9837	12371	9748
60°	10870	10049	10407	9918
65°	10209	10494	9819	10136
70°	9974	10989	9478	10575
75°	10664	11653	10089	11138
80°	11037	12903	10006	11778
85°	10396	12453	8400	10661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
Vertical Angle: 45°
Luminance: 43769 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2870.7	7.7
10°-20°	8075.7	21.6
20°-30°	9197.6	24.6
30°-40°	6610.8	17.7
40°-50°	3048.9	8.2
50°-60°	1459.0	3.9
60°-70°	1064.6	2.8
70°-80°	808.8	2.2
80°-90°	374.3	1.0
90°-100°	107.6	0.3
100°-110°	642.0	1.7
110°-120°	1186.5	3.2
120°-130°	719.7	1.9
130°-140°	454.6	1.2
140°-150°	330.8	0.9
150°-160°	226.4	0.6
160°-170°	134.5	0.4
170°-180°	45.6	0.1
0°-30°	20144.0	53.9
0°-40°	26754.8	71.6
0°-60°	31262.7	83.7
0°-90°	33510.3	89.7
90°-120°	1936.0	5.2
90°-150°	3441.1	9.2
90°-180°	3848.0	10.3
0°-180°	37357.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	29129	29129	29129	29129	29129	
5°	29349	30205	28938	30600	29349	2805
15°	29221	28246	28331	27109	29221	8233
25°	26056	12668	25194	11494	26056	11812
35°	16100	4390	15173	3889	16100	9881
45°	4627	1891	4551	1860	4627	3936
55°	1736	1329	1672	1317	1736	1602
65°	1066	1095	1025	1058	1066	1064
75°	751	821	711	785	751	781
85°	357	428	289	366	357	336
90°	107	133	38	45	107	65
95°	49	55	50	56	49	47
105°	229	297	152	298	229	304
115°	1032	1257	1082	1257	1032	953
125°	768	814	870	815	768	699
135°	592	533	638	536	592	462
145°	516	508	550	512	516	326
155°	475	480	507	484	475	221
165°	467	468	485	471	467	133
175°	474	479	483	480	474	45
180°	480	480	480	480	480	

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TEST NUMBER: P1444464
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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29240.4	29238.0	29237.6	29235.5	29235.0	29235.0	29234.0	29231.6	29230.1	29226.8	29223.0
5°	29348.9	29347.6	29348.3	29348.6	29346.5	29341.9	29334.8	29326.1	29315.1	29304.7	29295.5
7.5°	29432.8	29434.8	29437.4	29436.8	29430.5	29419.8	29405.3	29397.0	29401.9	29417.7	29454.1
10°	*29448.1*	*29460.6*	*29465.5*	*29464.0*	*29451.3*	*29442.1*	*29445.6*	*29476.4*	*29537.9*	*29619.9*	*29731.9*
12.5°	29388.4	29403.8	29403.2	29398.1	29385.8	29398.3	29443.0	29534.9	29666.6	29828.2	30017.8
15°	29220.7	29240.6	29235.0	29228.4	29220.2	29261.3	29350.6	29510.2	29713.5	29941.4	30174.8
17.5°	28895.2	28919.2	28907.6	28900.1	28893.2	28970.3	29123.7	29357.3	29613.5	29871.3	30092.3
20°	28330.7	28346.7	28319.0	28305.9	28316.9	28468.0	28693.9	28992.3	29262.3	29506.0	29657.2
22.5°	27409.2	27429.2	27377.1	27371.0	27435.4	27667.4	27953.3	28286.8	28540.5	28733.7	28791.9
25°	26055.5	26075.1	26013.2	26050.2	26159.7	26475.6	26816.1	27172.9	27389.4	27532.5	27493.0
27.5°	24228.2	24246.1	24187.4	24263.0	24436.0	24851.3	25252.0	25638.9	25831.9	25932.2	25805.1
30°	21923.7	21961.0	21891.5	21997.0	22261.2	22800.1	23259.3	23693.3	23885.7	23961.9	23764.2
32.5°	19186.5	19239.5	19163.0	19320.0	19688.6	20336.0	20857.6	21342.5	21555.4	21642.5	21419.1
35°	16099.5	16175.5	16087.7	16323.3	16777.9	17498.8	18076.4	18617.8	18869.8	18993.4	18768.3
37.5°	12828.8	12901.3	12853.8	13168.1	13667.2	14414.5	15004.1	15588.1	15872.7	16058.1	15880.6
40°	9617.8	9684.1	9720.0	10079.4	10548.9	11253.3	11819.6	12397.4	12715.8	12948.4	12839.0
42.5°	6788.2	6855.1	6977.3	7324.0	7715.6	8298.7	8783.7	9302.5	9606.7	9854.8	9812.7
45°	4627.4	4705.0	4858.1	5142.1	5425.2	5843.6	6199.7	6603.2	6851.7	7079.0	7081.7
47.5°	3242.7	3297.2	3434.0	3627.9	3812.5	4336.1	4357.7	4556.0	4723.0	4892.9	4914.9
50°	2499.0	2531.9	2604.4	2712.5	2817.2	2953.1	3077.5	3221.2	3324.0	3417.1	3439.4
52.5°	2054.1	2074.9	2111.8	2170.4	2231.1	2305.0	2371.6	2450.5	2506.4	2556.3	2566.8
55°	1736.0	1753.3	1808.2	1819.4	1888.8	1902.2	1931.8	1979.8	2012.3	2042.2	2049.6
57.5°	1496.0	1508.6	1520.3	1545.2	1566.6	1597.7	1622.7	1657.1	1677.6	1699.2	1701.1
60°	1306.7	1315.8	1324.0	1341.4	1355.9	1377.5	1394.8	1418.2	1432.9	1449.1	1451.0
62.5°	1165.8	1172.3	1177.8	1189.2	1199.6	1216.2	1229.9	1249.5	1263.2	1275.7	1278.5
65°	1065.6	1070.4	1073.9	1082.6	1091.6	1105.8	1118.2	1134.2	1144.2	1153.8	1155.9
67.5°	976.9	981.4	985.1	993.0	999.3	1009.8	1018.1	1030.1	1037.7	1045.4	1045.6
70°	875.2	879.4	882.2	889.6	894.7	903.7	910.4	921.2	928.9	937.5	939.6
72.5°	804.8	807.3	811.1	817.7	824.8	834.5	843.4	854.7	864.1	872.9	876.7
75°	751.2	754.1	756.7	762.4	767.3	775.4	782.2	792.4	800.6	810.1	814.7
77.5°	674.0	677.3	679.5	685.2	689.4	697.3	702.3	711.4	718.1	726.8	731.0
80°	580.6	583.8	585.3	590.6	594.0	601.2	606.1	614.9	620.6	629.2	634.2
82.5°	477.1	480.1	480.9	486.1	487.8	493.8	497.4	506.4	513.3	524.6	532.3
85°	357.3	358.3	360.1	358.8	366.0	366.4	374.6	376.1	387.0	389.8	402.0
87.5°	218.4	221.6	223.2	228.2	230.3	235.3	236.9	242.1	245.0	251.1	253.9
90°	107.1	113.1	115.7	122.7	125.2	131.4	133.6	140.6	143.2	150.2	154.6
92.5°	43.2	46.1	48.9	52.2	55.1	58.6	61.9	65.1	68.1	71.6	77.5
95°	49.4	52.7	56.1	59.5	62.9	66.1	69.5	72.9	76.2	79.6	89.4
97.5°	62.1	65.0	67.9	70.8	73.7	76.7	79.6	82.5	85.4	88.2	99.9
100°	81.0	83.5	86.0	88.4	90.9	93.4	95.8	98.3	100.8	103.2	124.9
102.5°	134.8	143.5	152.3	161.0	169.7	178.4	187.2	195.9	204.7	213.4	259.3
105°	229.0	252.7	276.6	300.2	324.0	347.8	371.6	395.0	418.8	442.5	517.4
107.5°	392.2	436.0	480.0	524.0	567.9	611.8	655.7	699.6	743.4	787.1	863.2
110°	725.6	760.8	796.2	831.6	866.9	902.3	937.6	972.8	1008.2	1043.4	1098.9

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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°	978.7	994.6	1010.7	1026.7	1042.7	1058.6	1074.6	1090.5	1106.6	1122.4	1162.1
115°	1032.3	1038.0	1043.8	1049.2	1054.9	1060.4	1066.1	1071.6	1077.2	1082.6	1109.5
117.5°	1001.9	1001.0	1000.1	999.1	998.1	997.0	996.1	994.9	993.8	992.7	1007.9
120°	933.6	928.7	924.0	918.9	914.0	909.2	904.3	899.2	894.3	889.1	895.7
122.5°	847.4	841.6	836.0	829.9	824.2	818.1	812.3	806.0	800.2	794.1	796.8
125°	767.6	761.8	756.1	750.1	744.0	738.0	732.0	725.9	719.9	713.6	715.0
127.5°	698.3	694.3	690.3	685.9	681.7	677.3	672.9	668.5	664.2	659.6	660.1
130°	653.4	649.8	646.1	642.2	638.5	634.4	630.5	626.3	622.4	618.2	619.0
132.5°	616.5	614.1	611.6	608.8	606.1	602.9	600.1	597.0	594.1	591.1	591.9
135°	591.9	589.6	587.3	584.7	582.2	579.3	576.5	573.5	570.8	567.8	569.1
137.5°	571.0	568.9	566.7	564.4	562.0	559.2	556.8	554.2	551.5	548.7	549.8
140°	551.8	549.9	547.9	545.7	543.7	541.3	538.9	536.5	534.0	531.5	532.9
142.5°	530.4	528.8	527.4	525.6	524.0	521.9	520.2	518.0	516.2	514.1	515.9
145°	516.3	515.1	513.9	512.4	510.9	509.1	507.6	505.6	504.1	502.5	504.3
147.5°	503.9	502.9	502.1	500.9	499.8	498.2	496.9	495.4	494.1	492.7	494.7
150°	493.2	492.2	491.3	490.3	489.1	487.7	486.4	485.2	483.9	482.4	484.4
152.5°	481.8	480.8	480.0	478.9	477.9	476.4	475.4	474.1	472.9	471.5	473.2
155°	475.0	474.1	473.0	472.1	471.0	469.8	468.5	467.4	466.3	465.0	466.4
157.5°	470.7	469.9	469.1	468.2	467.4	466.5	465.5	464.6	463.7	462.8	463.9
160°	468.5	467.8	467.0	466.2	465.4	464.3	463.6	462.6	461.9	461.0	461.7
162.5°	466.8	465.9	465.1	464.3	463.5	462.5	461.7	461.0	460.1	459.2	460.3
165°	466.8	466.3	465.7	465.3	464.7	464.1	463.6	462.9	462.5	461.8	462.5
167.5°	470.7	470.0	469.4	468.6	467.9	467.2	466.4	465.7	465.1	464.2	465.0
170°	471.9	471.4	471.1	470.7	470.3	469.9	469.6	469.1	468.6	468.3	468.8
172.5°	474.3	473.9	473.6	473.4	472.9	472.8	472.5	472.1	471.9	471.4	472.3
175°	474.2	473.8	473.7	473.5	473.3	473.0	472.9	472.8	472.8	472.4	472.9
177.5°	477.3	477.2	477.2	477.1	477.1	477.0	476.9	476.7	476.6	476.6	476.9
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

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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°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29220.2	29216.6	29211.7	29205.6	29200.3	29194.2	29179.6	29175.3	29180.2	29183.4	29190.1
5°	29289.6	29291.6	29292.4	29305.7	29317.1	29345.8	29569.8	29658.9	29727.8	29771.5	29837.9
7.5°	29498.9	29566.3	29632.9	29722.5	29799.8	29904.2	30296.3	30463.2	30581.9	30667.1	30772.1
10°	*29853.7*	*30000.7*	*30138.6*	*30300.1*	*30438.9*	*30598.0*	*30962.9*	*31125.5*	*31228.2*	*31302.8*	*31372.6*
12.5°	30211.0	30414.9	30599.2	30778.9	30929.3	31067.1	31195.5	31252.4	31257.2	31259.6	31222.6
15°	30397.1	30592.1	30754.5	30873.4	30961.6	31000.8	30779.7	30663.8	30517.3	30396.6	30198.1
17.5°	30279.7	30396.6	30466.7	30459.8	30423.4	30301.1	29675.2	29331.0	28989.2	28681.2	28277.3
20°	29757.5	29748.6	29687.5	29514.7	29306.4	28982.6	27909.5	27290.4	26691.8	26166.0	25528.2
22.5°	28786.0	28633.1	28420.0	28047.4	27633.4	27067.5	25529.7	24619.1	23785.7	23049.5	22224.8
25°	27378.3	27063.9	26670.8	26079.2	25435.8	24610.6	22715.2	21582.4	20581.9	19714.2	18762.7
27.5°	25576.9	25103.1	24527.2	23708.3	22836.7	21779.4	19678.1	18428.0	17353.9	16423.5	15410.8
30°	23444.1	22828.1	22084.2	21067.9	20016.5	18817.5	16686.2	15420.0	14332.9	13375.7	12362.2
32.5°	21033.9	20312.3	19440.6	18300.0	17163.0	15930.1	13871.9	12646.2	11607.7	10687.0	9769.7
35°	18375.6	17601.8	16679.6	15516.2	14386.0	13187.4	11298.8	10193.6	9276.5	8462.7	7721.9
37.5°	15524.1	14764.2	13887.7	12791.2	11743.2	10657.0	9027.4	8101.4	7331.8	6656.3	6084.4
40°	12559.3	11894.3	11136.0	10188.0	9293.6	8389.1	7051.4	6316.3	5709.0	5193.8	4765.1
42.5°	9630.8	9115.5	8533.9	7784.8	7100.3	6411.6	5382.0	4837.4	4387.5	4016.7	3713.7
45°	6987.5	6642.8	6252.7	5731.9	5258.3	4777.9	4045.1	3662.4	3369.4	3130.3	2928.1
47.5°	4884.6	4684.7	4672.4	4191.2	3843.9	3550.1	3078.0	2836.4	2656.8	2511.9	2383.9
50°	3430.3	3333.6	3213.4	3041.7	2880.5	2714.4	2426.8	2280.7	2175.5	2087.7	2006.8
52.5°	2564.4	2514.2	2450.1	2359.0	2271.7	2178.3	1996.3	1903.3	1870.2	1788.5	1724.4
55°	2048.2	2019.5	1983.0	1929.5	1876.4	1855.2	1699.1	1630.1	1586.3	1554.0	1519.6
57.5°	1701.3	1679.9	1658.3	1622.0	1591.3	1554.0	1471.2	1435.8	1409.8	1390.8	1366.9
60°	1451.2	1438.4	1426.3	1405.1	1388.4	1368.3	1315.8	1295.7	1282.2	1270.7	1255.6
62.5°	1280.9	1274.3	1268.0	1256.7	1248.3	1237.4	1201.4	1191.9	1185.0	1179.3	1170.0
65°	1158.0	1153.2	1149.7	1142.1	1138.0	1131.6	1100.7	1094.3	1090.0	1088.0	1082.6
67.5°	1046.2	1041.2	1039.0	1033.6	1031.9	1027.9	1002.6	999.0	997.6	998.3	996.3
70°	941.7	939.6	940.7	939.9	942.2	943.0	927.6	927.5	929.2	932.4	932.8
72.5°	879.1	879.1	880.2	880.8	883.0	884.2	871.4	870.8	871.5	873.9	874.0
75°	819.5	820.5	823.7	824.8	827.5	828.1	811.2	809.2	809.3	811.7	810.8
77.5°	737.0	740.6	746.7	749.9	755.2	756.1	737.2	734.9	735.0	737.4	735.4
80°	643.4	650.3	660.0	666.8	674.8	678.1	658.6	654.0	649.7	649.0	645.1
82.5°	543.9	552.3	564.1	570.3	578.8	580.7	548.2	542.1	538.4	538.7	535.1
85°	415.3	421.6	432.3	435.7	441.0	440.5	403.4	387.5	391.7	385.2	390.3
87.5°	260.5	264.2	270.9	271.7	274.2	273.7	236.3	228.9	226.8	227.0	224.2
90°	162.9	167.7	175.7	178.1	184.3	186.0	158.0	156.9	152.3	151.7	146.0
92.5°	83.7	89.6	95.7	101.6	107.8	113.9	116.4	121.4	115.5	108.9	103.1
95°	99.3	109.1	119.0	128.9	138.7	148.6	158.5	168.3	159.1	149.9	140.7
97.5°	111.6	123.3	134.8	146.5	158.1	169.8	181.4	193.1	183.3	173.1	163.3
100°	146.7	168.4	190.1	211.9	233.5	255.3	277.1	298.8	279.7	260.4	241.3
102.5°	305.4	351.6	397.7	443.8	489.9	536.2	582.4	628.6	584.8	540.8	496.9
105°	592.2	667.0	741.9	816.3	891.2	966.0	1041.1	1115.9	1045.8	975.8	905.7
107.5°	939.0	1014.9	1090.6	1166.4	1242.4	1318.2	1394.5	1470.4	1402.1	1333.5	1265.2
110°	1154.3	1209.6	1265.0	1320.3	1375.7	1430.9	1487.0	1542.5	1501.4	1460.2	1419.3

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1201.5	1241.3	1280.9	1320.4	1359.8	1399.5	1440.1	1479.9	1459.2	1438.5	1418.1
115°	1136.1	1163.0	1189.7	1216.3	1243.0	1269.7	1297.5	1324.6	1317.9	1311.4	1304.8
117.5°	1022.8	1037.8	1052.8	1067.8	1082.6	1097.5	1114.1	1129.2	1130.3	1131.5	1132.9
120°	902.0	908.5	914.8	921.2	927.3	933.7	941.9	948.5	954.1	959.7	965.3
122.5°	799.2	801.7	804.1	806.6	808.9	811.4	815.9	818.8	822.6	826.6	830.6
125°	716.2	717.5	718.7	720.0	721.1	722.4	726.0	727.7	728.1	728.3	728.7
127.5°	660.4	660.8	660.9	661.3	661.4	661.8	664.6	665.4	663.2	660.9	658.7
130°	619.6	620.3	620.9	621.7	622.3	623.0	626.5	627.8	623.8	619.6	615.5
132.5°	592.7	593.6	594.3	595.5	596.2	597.1	600.9	602.4	597.8	593.0	588.3
135°	570.0	571.1	572.1	573.3	574.2	575.5	579.7	581.6	577.3	572.6	568.1
137.5°	550.8	551.9	552.9	554.3	555.3	556.4	561.1	563.1	559.6	555.7	552.4
140°	534.2	535.5	536.8	538.2	539.5	541.1	546.2	548.4	545.7	542.9	540.0
142.5°	517.4	519.4	521.3	523.2	525.1	527.2	533.1	535.9	533.9	531.7	529.7
145°	506.3	508.5	510.6	512.9	515.1	517.4	524.0	527.3	526.1	524.7	523.3
147.5°	496.2	498.2	500.2	502.2	504.2	506.7	513.4	516.5	515.9	515.0	514.3
150°	486.2	488.2	490.2	492.2	494.6	496.8	504.3	507.8	507.1	506.5	505.7
152.5°	475.0	476.8	478.6	480.5	482.4	484.6	493.4	496.8	496.4	495.5	495.0
155°	467.7	469.1	470.4	472.1	473.5	475.3	484.5	487.7	487.5	487.1	486.7
157.5°	464.8	465.6	466.6	467.7	468.9	469.9	479.3	482.6	482.2	481.8	481.6
160°	462.5	463.3	464.0	464.9	465.6	466.6	476.1	479.1	478.8	478.5	478.1
162.5°	461.2	462.4	463.3	464.4	465.5	466.6	476.3	479.7	479.1	478.5	478.0
165°	463.0	463.7	464.2	464.9	465.5	466.3	475.2	477.9	477.7	477.3	477.0
167.5°	465.5	466.3	466.9	467.7	468.4	469.3	477.6	480.3	480.1	479.7	479.4
170°	469.3	469.9	470.4	471.1	471.7	472.6	479.5	481.7	481.4	480.7	480.3
172.5°	472.9	473.7	474.3	475.0	475.7	476.5	482.4	484.5	484.2	483.7	483.2
175°	473.4	473.9	474.4	475.2	475.7	476.2	480.9	482.4	482.3	482.1	481.8
177.5°	477.3	477.6	478.1	478.6	479.0	479.4	482.3	483.2	483.2	483.2	483.1
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

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TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	*29129.1*
2.5°	29191.6	29201.8	29203.4	29215.3	29214.4	29228.6	29226.3	29238.0	29231.2	29240.8	*29232.7*
5°	29877.2	29939.4	29971.9	30032.6	30051.8	30106.1	30121.4	30170.9	30173.0	30212.3	*30203.3*
7.5°	30846.6	30938.2	30992.6	31067.6	31105.7	31168.1	31195.7	31241.9	31256.8	31293.5	*31296.3*
10°	*31425.4*	*31469.9*	*31501.0*	*31521.9*	*31541.0*	*31549.9*	*31560.4*	*31557.6*	*31560.4*	*31556.3*	*31565.3*
12.5°	31197.7	31132.7	31089.7	31008.3	30961.2	30871.3	30827.1	30740.6	30709.3	30635.0	*30624.3*
15°	30044.7	29818.2	29658.2	29425.4	29279.2	29050.2	28916.2	28709.7	28615.3	28451.1	*28408.0*
17.5°	27943.0	27522.6	27197.2	26779.9	26490.2	26100.2	25854.9	25532.0	25355.1	25094.8	*25004.6*
20°	24996.5	24374.5	23886.5	23305.0	22889.0	22370.6	22038.8	21620.2	21377.2	21057.4	*20927.8*
22.5°	21537.3	20762.8	20153.3	19466.5	18964.5	18386.8	17989.2	17536.3	17272.0	16924.5	*16770.7*
25°	17971.9	17117.8	16440.2	15716.6	15186.1	14607.0	14209.4	13764.5	13490.9	13161.1	*13008.3*
27.5°	14561.8	13697.3	13042.5	12369.7	11883.1	11360.6	11001.7	10613.4	10370.6	10089.0	*9945.2*
30°	11552.5	10790.0	10232.8	9674.4	9269.8	8845.3	8547.2	8225.2	8012.2	7771.2	*7634.2*
32.5°	9100.9	8512.2	8075.8	7632.8	7301.6	6946.9	6689.2	6405.2	6213.0	5997.7	*5873.6*
35°	7207.8	6750.4	6402.3	6037.7	5753.1	5451.0	5224.0	4978.8	4806.3	4621.0	*4513.8*
37.5°	5694.9	5331.2	5044.7	4741.8	4508.1	4257.9	4173.6	3892.2	3713.5	3565.6	*3463.1*
40°	4469.4	4180.2	3943.2	3711.5	3520.9	3331.1	3178.7	3028.5	2913.1	2807.3	*2734.1*
42.5°	3490.2	3280.6	3107.6	2937.9	2798.9	2660.5	2550.3	2446.7	2368.9	2299.8	*2252.6*
45°	2774.5	2630.5	2510.2	2390.7	2292.6	2200.2	2126.0	2059.9	2009.7	1968.1	*1938.7*
47.5°	2279.4	2180.8	2095.9	2015.2	1948.6	1888.1	1838.4	1822.2	1768.2	1731.8	*1718.0*
50°	1937.1	1877.5	1813.1	1753.6	1709.1	1664.9	1632.6	1601.0	1580.8	1564.0	*1559.0*
52.5°	1681.8	1636.1	1600.4	1562.6	1533.3	1501.7	1479.5	1458.5	1447.4	1438.6	*1437.6*
55°	1491.8	1460.0	1436.3	1411.0	1393.4	1374.9	1363.4	1352.2	1347.4	1343.0	*1343.3*
57.5°	1348.1	1326.8	1311.5	1295.0	1285.5	1276.6	1273.7	1270.9	1272.5	1273.1	*1275.6*
60°	1243.5	1229.6	1219.9	1210.5	1206.5	1203.7	1205.8	1208.4	1213.4	1217.5	*1221.2*
62.5°	1163.2	1155.3	1150.6	1145.5	1145.1	1145.3	1149.6	1153.8	1160.2	1165.0	*1168.5*
65°	1080.7	1076.1	1074.6	1071.3	1073.0	1073.9	1079.1	1082.4	1088.7	1092.5	*1097.1*
67.5°	997.2	996.1	997.1	997.1	1000.0	1002.5	1007.4	1011.1	1016.5	1020.0	*1023.6*
70°	935.6	936.0	938.2	938.7	941.8	943.5	947.9	950.2	955.1	958.0	*962.5*
72.5°	875.6	874.7	875.2	873.8	874.9	874.4	876.9	878.0	882.1	884.3	*889.8*
75°	811.8	809.1	808.5	805.6	805.7	803.6	804.6	804.4	807.2	808.3	*812.1*
77.5°	734.8	730.3	728.0	723.2	723.0	721.3	723.2	724.4	729.1	731.4	*735.8*
80°	642.6	635.5	632.2	626.6	627.5	627.2	632.0	635.6	641.4	642.5	*648.0*
82.5°	534.0	526.8	523.3	517.9	519.1	519.3	523.6	524.4	529.4	531.6	*538.0*
85°	382.4	385.2	377.5	378.1	376.5	379.5	382.4	386.0	390.2	397.3	*402.7*
87.5°	225.2	224.2	227.0	227.2	231.2	233.1	239.4	243.0	250.0	255.5	*265.5*
90°	144.2	138.5	138.6	135.4	137.1	134.0	135.8	132.5	135.2	133.9	*137.8*
92.5°	96.4	90.4	83.7	77.7	71.2	65.4	62.0	59.5	56.2	53.8	*50.3*
95°	131.5	122.2	113.1	103.9	94.7	85.5	82.1	78.8	75.4	72.0	*68.8*
97.5°	153.4	143.5	133.7	123.7	113.8	104.0	101.7	99.5	97.2	95.0	*92.7*
100°	222.2	203.1	184.1	164.9	145.8	126.7	125.0	123.2	121.4	119.6	*117.7*
102.5°	453.2	409.4	365.7	321.9	278.1	234.3	226.7	219.0	211.4	203.7	*196.1*
105°	835.5	765.4	695.3	625.3	555.3	485.2	464.3	443.3	422.4	401.5	*380.7*
107.5°	1196.8	1128.5	1060.2	991.9	923.6	855.3	822.2	789.3	756.0	723.0	*690.2*
110°	1378.0	1337.0	1296.0	1254.9	1214.0	1173.0	1141.5	1110.1	1078.4	1047.0	*1015.5*

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	1397.5	1377.0	1356.4	1335.9	1315.6	1295.0	1279.6	1264.3	1249.0	1233.6	*1218.1*
115°	1298.3	1291.8	1285.3	1278.9	1272.6	1266.1	1264.9	1263.9	1262.7	1261.7	*1260.7*
117.5°	1134.1	1135.3	1136.4	1137.8	1139.2	1140.5	1148.8	1156.8	1165.2	1173.6	*1181.9*
120°	970.8	976.5	982.0	987.9	993.5	999.2	1010.1	1021.2	1032.2	1043.5	*1054.8*
122.5°	834.4	838.4	842.2	846.2	850.3	854.3	865.1	876.1	887.0	898.1	*909.4*
125°	728.8	728.9	729.2	729.4	729.7	730.2	739.1	748.1	757.1	766.5	*775.6*
127.5°	656.4	653.9	651.7	649.4	647.0	644.9	650.2	655.5	660.8	666.4	*671.8*
130°	611.4	607.3	603.0	598.9	594.6	590.6	592.7	594.7	596.9	599.1	*601.6*
132.5°	583.4	578.7	573.7	568.9	564.0	559.2	559.1	559.1	559.1	559.3	*559.6*
135°	563.5	559.0	554.3	549.7	545.0	540.6	539.4	538.1	537.1	536.0	*535.0*
137.5°	548.7	545.1	541.3	537.9	533.9	530.4	528.5	527.1	525.4	524.2	*522.6*
140°	537.0	534.2	531.2	528.2	525.3	522.5	520.9	519.7	518.4	517.3	*516.0*
142.5°	527.4	525.2	523.1	521.0	518.7	516.7	515.2	514.0	512.8	511.6	*510.4*
145°	521.9	520.5	519.1	517.7	516.3	515.0	513.8	512.8	511.9	511.0	*510.3*
147.5°	513.4	512.5	511.6	510.8	509.8	508.9	508.2	507.8	506.9	506.5	*505.8*
150°	504.9	504.0	503.2	502.6	501.6	500.9	500.4	500.1	499.6	499.5	*499.2*
152.5°	494.1	493.5	492.6	492.1	491.1	490.4	490.0	489.9	489.5	489.3	*488.9*
155°	486.2	485.7	485.2	484.7	484.1	483.8	483.2	482.7	482.3	481.8	*481.3*
157.5°	481.1	480.7	480.2	479.8	479.1	478.8	478.3	477.9	477.3	477.0	*476.5*
160°	477.7	477.3	476.9	476.4	475.9	475.6	474.8	474.3	473.5	472.9	*472.2*
162.5°	477.3	476.7	476.0	475.5	474.6	474.1	473.6	473.1	472.7	472.3	*471.7*
165°	476.5	476.1	475.7	475.3	474.9	474.5	473.8	473.1	472.5	471.9	*471.1*
167.5°	479.0	478.7	478.3	477.9	477.3	477.0	476.4	475.8	475.1	474.4	*473.7*
170°	479.9	479.1	478.8	478.1	477.5	476.9	476.4	475.7	475.1	474.5	*473.9*
172.5°	482.8	482.4	481.9	481.5	480.8	480.3	480.0	479.4	478.8	478.3	*477.8*
175°	481.7	481.7	481.6	481.2	481.1	480.9	480.7	480.6	480.3	480.3	*480.0*
177.5°	483.1	483.0	483.0	482.8	482.6	482.6	482.3	482.0	481.7	481.5	*481.2*
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	*480.2*

TEST NUMBER: P1444464
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CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29241.1	29233.7	29237.2	29223.5	29226.8	29210.2	29208.7	29190.1	29188.2	29170.6	29164.1
5°	30231.2	30214.9	30233.2	30204.6	30210.3	30173.0	30169.9	30121.7	30105.1	30044.8	30018.9
7.5°	31319.3	31313.1	31324.4	31300.4	31299.7	31266.4	31252.6	31209.5	31182.8	31119.4	31079.1
10°	*31557.6*	*31563.2*	*31554.1*	*31556.3*	*31543.4*	*31539.8*	*31526.5*	*31518.1*	*31496.5*	*31480.1*	*31455.8*
12.5°	30567.8	30573.7	30536.0	30559.9	30541.0	30585.2	30581.6	30633.7	30641.6	30707.5	30732.5
15°	28280.1	28273.0	28200.6	28246.2	28221.7	28318.7	28340.3	28470.8	28540.5	28708.0	28810.8
17.5°	24824.2	24805.5	24703.5	24759.1	24730.9	24873.7	24921.7	25130.3	25260.4	25530.2	25722.4
20°	20704.6	20668.9	20549.5	20614.6	20585.5	20747.8	20816.3	21068.4	21236.1	21593.5	21847.7
22.5°	16533.8	16477.4	16360.5	16421.3	16393.7	16561.9	16651.0	16903.9	17096.1	17463.0	17759.7
25°	12788.5	12738.2	12625.2	12667.8	12657.5	12799.8	12879.0	13118.2	13307.1	13656.6	13939.8
27.5°	9754.1	9701.8	9599.7	9629.7	9619.4	9740.6	9815.3	10015.2	10177.6	10471.8	10720.5
30°	7465.4	7402.2	7315.6	7332.3	7325.2	7423.3	7493.1	7661.4	7800.6	8049.3	8263.6
32.5°	5722.2	5658.8	5579.1	5586.9	5576.4	5653.5	5710.9	5857.3	5978.7	6190.1	6376.6
35°	4378.3	4452.5	4282.5	4390.2	4278.0	4442.6	4383.4	4474.8	4579.3	4757.4	4912.9
37.5°	3365.9	3314.2	3270.4	3265.7	3265.6	3303.7	3348.6	3436.8	3528.8	3661.4	3798.5
40°	2667.3	2631.0	2602.7	2600.7	2602.7	2629.8	2663.1	2723.9	2791.3	2886.7	2987.4
42.5°	2212.2	2188.2	2171.1	2169.9	2175.3	2194.5	2217.7	2253.8	2297.7	2359.4	2428.5
45°	1914.7	1901.3	1891.8	1891.3	1893.7	1903.8	1917.1	1939.6	1967.4	2006.0	2049.6
47.5°	1705.9	1702.7	1696.8	1696.9	1694.2	1698.3	1699.8	1712.5	1727.3	1756.3	1813.5
50°	1553.9	1553.9	1549.8	1549.6	1545.8	1545.5	1542.3	1547.3	1554.1	1572.2	1590.4
52.5°	1433.7	1433.4	1428.9	1428.0	1423.9	1423.7	1420.9	1422.9	1423.8	1432.9	1443.8
55°	1339.9	1337.1	1331.2	1329.4	1327.8	1330.1	1329.0	1329.2	1328.0	1331.7	1335.0
57.5°	1272.5	1268.8	1263.3	1261.7	1261.3	1264.1	1264.2	1263.2	1258.1	1254.6	1249.9
60°	1219.1	1215.5	1209.6	1208.0	1208.9	1212.8	1212.6	1209.3	1201.8	1195.1	1187.6
62.5°	1166.8	1165.3	1162.3	1161.8	1161.1	1161.7	1159.0	1155.5	1148.1	1141.1	1132.8
65°	1096.5	1097.3	1095.0	1095.3	1092.6	1092.2	1088.1	1084.7	1077.2	1070.8	1062.3
67.5°	1023.5	1024.1	1022.2	1022.2	1020.8	1021.0	1018.6	1015.4	1009.0	1003.9	997.3
70°	963.4	964.9	963.9	964.2	962.5	961.8	957.9	954.9	948.3	943.9	938.0
72.5°	891.4	894.7	894.6	895.3	892.7	891.4	886.8	882.9	877.0	873.6	868.8
75°	813.6	817.8	819.1	820.9	817.2	815.3	810.3	807.2	802.3	800.2	797.1
77.5°	737.8	742.4	746.8	751.0	745.0	739.7	733.3	728.5	721.5	718.9	714.1
80°	652.6	660.8	670.6	678.8	668.2	657.4	646.9	639.1	629.9	626.2	620.1
82.5°	541.4	549.8	555.5	560.7	553.3	545.4	535.2	528.4	518.5	514.8	507.8
85°	411.3	421.8	425.2	428.0	423.2	419.0	409.4	396.6	390.3	380.6	375.4
87.5°	270.5	276.8	278.0	279.0	276.0	274.0	267.8	261.8	251.1	243.4	233.8
90°	135.5	137.7	133.3	132.9	131.0	133.2	128.9	128.7	121.9	120.4	114.5
92.5°	47.7	44.4	41.6	38.6	42.1	44.5	47.9	50.3	53.7	56.2	59.5
95°	65.4	62.0	58.6	55.3	58.0	60.6	63.3	66.0	68.7	71.4	74.1
97.5°	90.5	88.2	86.0	83.7	85.3	86.9	88.4	90.0	91.6	93.2	94.8
100°	116.0	114.2	112.4	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
102.5°	188.5	180.9	173.2	165.6	170.8	175.9	181.1	186.2	191.5	196.6	201.9
105°	359.8	338.9	318.1	297.2	317.4	337.6	357.7	378.0	398.1	418.6	438.8
107.5°	657.1	624.1	591.2	558.2	595.1	631.8	668.6	705.4	742.2	779.0	816.1
110°	984.1	952.7	921.3	890.0	929.0	968.0	1007.1	1046.0	1085.2	1124.1	1163.5

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	1202.8	1187.7	1172.4	1157.1	1182.2	1207.3	1232.4	1257.8	1283.0	1308.2	1333.3
115°	1259.8	1258.8	1258.0	1257.1	1269.0	1280.9	1292.8	1304.7	1316.6	1328.5	1340.6
117.5°	1190.2	1198.6	1207.1	1215.7	1219.5	1223.3	1227.2	1231.0	1235.1	1239.1	1243.0
120°	1066.2	1077.2	1088.6	1100.1	1098.5	1096.9	1095.5	1093.9	1092.7	1091.2	1090.0
122.5°	920.6	931.8	943.3	954.6	951.2	947.9	944.6	941.3	938.2	935.1	932.0
125°	785.1	794.4	804.0	813.5	810.2	806.8	803.5	800.4	797.3	794.1	791.3
127.5°	677.7	683.5	689.2	695.2	693.6	692.0	690.8	689.3	688.1	687.0	686.0
130°	604.0	606.5	609.3	612.0	612.4	612.9	613.5	614.3	615.1	616.0	617.0
132.5°	560.1	560.5	561.1	561.7	563.5	565.3	567.5	569.5	571.8	573.9	576.6
135°	534.4	533.7	533.2	532.7	535.4	538.0	540.9	543.9	547.1	550.3	553.6
137.5°	521.5	520.2	519.4	518.4	521.1	523.7	526.6	529.5	532.6	535.9	539.4
140°	515.0	514.1	513.4	512.6	515.3	517.8	520.7	523.6	526.8	530.0	533.3
142.5°	509.6	508.5	507.8	507.1	509.4	511.9	514.6	517.2	520.2	522.9	526.0
145°	509.5	508.7	508.3	507.7	509.4	511.2	513.1	515.2	517.3	519.3	521.7
147.5°	505.4	505.0	504.7	504.4	505.7	507.0	508.4	509.8	511.4	513.0	514.7
150°	499.2	498.8	498.7	498.7	499.5	500.3	501.3	502.1	503.2	504.1	505.5
152.5°	489.0	488.6	488.8	488.7	489.3	490.1	491.0	491.8	492.8	493.6	495.0
155°	481.1	480.7	480.4	480.2	480.3	480.6	481.0	481.3	481.8	482.2	482.7
157.5°	476.2	475.8	475.6	475.2	475.2	475.1	475.2	475.3	475.5	475.4	475.6
160°	471.7	471.0	470.4	469.9	470.1	470.2	470.4	470.5	470.9	471.1	471.4
162.5°	471.4	471.0	470.6	470.2	469.9	469.6	469.4	468.9	468.7	468.4	468.4
165°	470.5	469.9	469.3	468.5	468.5	468.4	468.4	468.2	468.3	468.1	468.2
167.5°	473.1	472.5	471.8	471.3	470.8	470.1	469.9	469.3	468.8	468.4	468.2
170°	473.3	472.8	472.2	471.7	471.5	471.2	471.1	470.8	470.6	470.5	470.5
172.5°	477.3	476.9	476.3	475.9	475.8	475.5	475.4	475.3	475.1	475.1	475.0
175°	479.8	479.6	479.5	479.3	479.0	478.8	478.4	478.2	477.9	477.6	477.4
177.5°	480.8	480.4	480.2	480.0	479.9	479.9	479.9	479.9	479.9	479.8	479.7
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

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

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TEST NUMBER: P1444464
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CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29145.1	29137.5	29117.3	29107.4	29088.7	29079.3	29064.8	29055.3	29043.6	29034.8	29030.3
5°	29952.7	29915.4	29840.7	29794.7	29714.1	29661.0	29580.9	29522.2	29439.4	29378.5	29300.3
7.5°	31003.3	30946.1	30850.4	30777.9	30665.0	30578.9	30452.2	30351.0	30211.0	30094.9	29951.9
10°	*31431.0*	*31397.6*	*31354.7*	*31308.1*	*31245.5*	*31184.3*	*31097.8*	*31009.7*	*30892.2*	*30775.4*	*30622.8*
12.5°	30798.8	30830.3	30892.2	30921.1	30968.5	30984.6	31006.3	30996.2	30977.0	30929.3	30860.1
15°	29008.4	29139.5	29346.8	29490.2	29691.1	29832.2	30018.9	30139.0	30277.4	30360.1	30438.7
17.5°	26063.2	26316.8	26682.6	26974.4	27366.1	27684.6	28074.9	28381.5	28735.5	29007.1	29296.2
20°	22290.8	22646.0	23150.9	23579.7	24147.3	24628.7	25245.3	25761.9	26364.5	26866.9	27409.0
22.5°	18230.6	18648.5	19227.1	19744.2	20422.1	21027.5	21800.2	22483.2	23297.8	24027.6	24835.0
25°	14400.3	14809.9	15399.2	15934.8	16666.6	17333.5	18177.6	18961.1	19906.6	20788.1	21800.2
27.5°	11115.6	11479.5	11997.6	12479.6	13149.8	13804.6	14661.2	15496.7	16505.5	17452.9	18543.6
30°	8584.5	8879.6	9294.7	9682.5	10220.5	10755.9	11519.0	12291.8	13295.6	14277.2	15395.5
32.5°	6652.7	6904.3	7250.9	7565.6	7980.2	8383.9	8945.9	9563.4	10443.8	11384.3	12465.4
35°	5149.9	5365.2	5660.2	5931.3	6272.2	6592.7	7012.0	7452.8	8124.7	8915.8	9883.4
37.5°	4105.8	4193.6	4404.0	4626.2	4909.4	5172.8	5500.8	5826.7	6307.4	6931.6	7721.9
40°	3122.4	3261.8	3433.1	3608.1	3822.5	4033.7	4393.6	4566.8	4883.3	5331.4	5944.9
42.5°	2519.4	2617.4	2738.0	2859.7	3009.1	3156.2	3338.2	3523.5	3760.2	4063.6	4500.0
45°	2108.3	2172.1	2249.9	2331.0	2429.1	2529.5	2651.4	2778.7	2939.0	3125.5	3390.6
47.5°	1833.6	1868.9	1919.7	1975.1	2042.3	2111.8	2191.1	2272.2	2371.7	2482.5	2633.4
50°	1619.2	1648.7	1688.1	1725.1	1771.6	1842.8	1874.3	1919.0	1979.0	2044.0	2128.5
52.5°	1464.1	1483.7	1508.5	1529.7	1559.1	1585.8	1620.8	1651.6	1693.1	1732.2	1786.7
55°	1343.3	1350.5	1364.4	1378.2	1398.5	1416.7	1440.7	1460.9	1487.3	1510.7	1545.1
57.5°	1250.0	1250.7	1257.2	1264.3	1277.3	1288.8	1305.3	1318.6	1337.0	1351.9	1372.5
60°	1183.0	1179.4	1180.7	1183.2	1190.6	1198.0	1208.5	1217.2	1228.8	1237.2	1248.7
62.5°	1127.1	1121.5	1120.3	1119.6	1123.3	1126.0	1131.7	1135.9	1142.5	1146.2	1152.3
65°	1056.7	1050.1	1047.5	1044.4	1045.6	1044.7	1046.9	1047.0	1050.3	1051.1	1054.6
67.5°	992.7	987.3	983.9	979.8	978.0	975.0	973.8	971.0	970.5	968.2	967.6
70°	934.5	929.0	926.2	922.5	920.5	916.7	914.3	909.5	906.7	902.3	899.8
72.5°	867.0	863.9	863.1	860.6	859.9	857.7	856.7	853.4	851.5	847.6	845.5
75°	796.5	794.0	793.8	791.2	791.0	788.4	787.8	784.2	782.3	778.6	777.0
77.5°	712.6	708.8	707.8	704.8	705.5	704.2	705.2	702.5	701.4	697.6	696.4
80°	617.9	613.2	611.2	607.3	608.3	606.5	608.3	608.1	609.5	606.5	606.0
82.5°	505.9	500.7	499.7	496.9	498.8	499.0	503.0	500.8	501.7	498.9	500.0
85°	368.1	364.3	358.9	358.1	354.6	358.2	353.5	356.7	351.6	355.2	350.4
87.5°	228.2	220.2	216.0	210.3	208.1	202.6	200.4	196.3	197.6	195.7	196.8
90°	114.5	109.4	110.8	108.2	110.5	108.6	112.1	111.7	115.6	115.0	119.3
92.5°	62.0	64.9	70.3	76.0	81.1	86.5	91.8	97.5	102.7	108.3	113.4
95°	76.7	79.4	86.6	93.8	101.0	108.2	115.4	122.6	129.8	136.9	144.2
97.5°	96.4	98.0	105.2	112.3	119.5	126.7	133.9	141.3	148.6	155.7	162.9
100°	110.6	110.7	131.1	151.6	171.9	192.4	212.8	233.2	253.8	274.3	294.7
102.5°	207.0	212.2	263.8	315.4	367.0	418.6	470.2	521.9	573.5	625.3	677.1
105°	459.0	479.2	557.9	636.8	715.5	794.3	873.1	952.2	1030.9	1109.8	1188.6
107.5°	852.8	889.7	960.9	1032.1	1103.2	1174.4	1245.7	1316.9	1388.1	1459.4	1530.9
110°	1202.5	1241.6	1289.3	1337.0	1384.8	1432.4	1480.2	1527.9	1575.8	1623.5	1671.6

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TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	1358.5	1383.8	1411.5	1439.4	1467.3	1495.1	1523.0	1550.8	1578.9	1606.8	1634.8
115°	1352.7	1364.9	1375.6	1386.5	1397.3	1408.2	1419.1	1430.2	1441.2	1452.2	1463.3
117.5°	1246.9	1251.3	1252.8	1254.6	1256.2	1258.2	1260.1	1262.0	1264.0	1266.0	1267.7
120°	1088.7	1087.4	1085.6	1084.0	1082.1	1080.5	1078.9	1077.3	1075.8	1074.3	1072.7
122.5°	929.0	926.1	924.3	922.8	921.2	919.7	918.3	916.9	915.4	914.1	912.6
125°	788.3	785.6	787.2	788.8	790.5	792.4	794.0	795.9	797.7	799.6	801.4
127.5°	684.8	684.0	688.1	692.3	696.5	700.9	705.2	709.7	713.9	718.5	722.7
130°	618.1	619.4	624.6	630.1	635.5	641.1	646.5	652.2	657.6	663.2	668.6
132.5°	579.0	581.7	586.7	592.1	597.2	602.7	607.9	613.4	618.6	624.1	629.2
135°	557.1	560.7	565.4	570.2	575.0	580.0	584.8	589.8	594.5	599.4	604.2
137.5°	542.5	546.2	550.0	553.9	557.7	561.7	565.8	569.7	573.5	577.5	581.2
140°	536.6	540.2	542.3	544.8	546.9	549.3	551.4	553.8	555.8	558.4	560.4
142.5°	529.1	532.3	533.5	535.0	536.5	538.3	539.7	541.2	542.6	544.0	545.4
145°	524.0	526.5	526.6	526.9	527.2	527.5	527.6	527.8	527.8	528.0	528.1
147.5°	516.6	518.5	518.1	518.1	517.9	517.6	517.5	517.4	517.0	516.9	516.7
150°	506.6	508.0	507.2	506.9	506.2	505.8	505.1	504.7	503.9	503.6	502.8
152.5°	495.9	497.0	496.1	495.7	494.9	494.2	493.4	492.9	492.1	491.4	490.8
155°	483.1	483.6	483.2	482.8	482.4	482.0	481.6	481.5	481.2	480.8	480.5
157.5°	475.8	475.8	475.7	475.4	475.1	474.9	474.7	474.5	474.4	474.5	474.5
160°	471.5	471.9	471.5	471.3	471.1	470.8	470.6	470.6	470.5	470.7	470.7
162.5°	468.1	468.0	467.6	467.3	467.1	467.1	466.9	467.0	466.9	467.0	467.1
165°	468.4	468.5	467.9	467.6	467.2	466.9	466.5	466.3	466.2	466.1	465.9
167.5°	467.8	467.6	467.6	467.7	467.7	467.9	468.0	468.4	468.5	468.9	469.0
170°	470.4	470.5	470.2	470.0	469.9	469.8	469.7	469.6	469.6	469.5	469.5
172.5°	475.0	475.0	474.5	474.1	473.7	473.3	472.9	472.6	472.2	471.8	471.4
175°	477.1	476.9	476.7	476.4	476.2	475.8	475.7	475.2	475.0	474.7	474.5
177.5°	479.6	479.4	479.2	479.2	479.1	479.0	479.0	478.9	478.9	478.9	478.8
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

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TEST NUMBER: P1444464
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CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29024.5	29024.1	29021.3	29022.6	29023.2	29025.2	29027.7	29030.3	29030.9	29032.9	29033.3
5°	29241.7	29169.9	29116.8	29058.4	29014.5	28974.9	28948.6	28927.6	28919.6	28921.5	28926.4
7.5°	29830.7	29682.4	29560.2	29421.1	29305.1	29182.4	29080.6	28983.8	28913.4	28860.8	28831.4
10°	*30477.0*	*30296.5*	*30123.8*	*29922.5*	*29731.7*	*29528.0*	*29343.4*	*29157.7*	*29002.8*	*28868.2*	*28769.5*
12.5°	30763.9	30636.3	30487.0	30297.0	30092.8	29857.8	29620.4	29365.9	29129.3	28909.6	28732.4
15°	30460.2	30460.4	30405.9	30314.9	30173.0	29985.2	29759.0	29493.8	29214.5	28929.7	28669.4
17.5°	29496.1	29678.0	29779.2	29843.2	29823.6	29754.4	29610.5	29406.8	29146.4	28843.0	28525.4
20°	27840.6	28269.7	28575.5	28850.5	29004.7	29107.2	29096.9	29014.0	28828.6	28570.7	28239.8
22.5°	25521.5	26241.6	26809.7	27339.6	27711.2	28013.5	28157.2	28218.2	28134.1	27954.4	27643.8
25°	22704.7	23683.7	24519.3	25330.1	25938.3	26461.1	26775.2	26996.5	27014.1	26920.2	26643.1
27.5°	19574.8	20730.4	21787.8	22865.4	23720.8	24472.3	24965.4	25326.3	25440.9	25425.7	25174.1
30°	16448.8	17662.0	18827.6	20084.3	21142.6	22102.7	22754.0	23242.0	23430.1	23466.1	23224.1
32.5°	13496.7	14693.0	15855.4	17169.1	18333.8	19434.1	20203.6	20783.3	21002.0	21053.6	20788.1
35°	10817.4	11921.1	13025.8	14299.0	15457.0	16596.4	17407.2	18014.1	18218.4	18252.9	17945.5
37.5°	8494.0	9434.3	10396.9	11539.3	12602.8	13672.9	14443.2	15013.7	15162.4	15153.2	14805.4
40°	6537.7	7268.8	8042.2	8982.7	9866.8	10771.4	11421.9	11893.5	11971.7	11913.8	11548.4
42.5°	4915.9	5444.0	6004.7	6706.7	7362.8	8039.8	8513.1	8863.1	8874.3	8782.8	8454.7
45°	3662.4	4177.5	4412.7	4837.2	5259.7	5709.9	5998.9	6215.2	6181.6	6101.2	5851.8
47.5°	2792.0	2990.0	3199.9	3463.1	3709.3	4220.1	4182.2	4529.5	4279.4	4449.9	4074.5
50°	2217.1	2327.7	2440.9	2580.5	2709.1	2842.7	2926.2	2988.5	2980.3	2953.5	2881.7
52.5°	1886.3	1920.4	1976.2	2055.6	2127.4	2199.6	2247.1	2285.8	2286.5	2275.7	2239.3
55°	1576.5	1619.9	1659.9	1711.8	1800.3	1813.8	1882.0	1868.2	1873.6	1854.7	1874.0
57.5°	1389.9	1415.2	1437.8	1468.7	1494.2	1524.0	1541.6	1558.6	1556.9	1553.3	1534.7
60°	1257.8	1271.7	1284.2	1302.3	1316.3	1333.1	1341.3	1349.9	1347.1	1340.8	1324.3
62.5°	1155.9	1164.6	1171.7	1183.4	1192.0	1202.5	1206.7	1210.3	1206.7	1200.7	1186.2
65°	1055.4	1061.0	1065.5	1074.3	1080.3	1089.3	1092.9	1096.3	1093.0	1088.3	1077.2
67.5°	964.7	965.3	964.8	968.4	970.2	975.6	977.2	979.7	975.8	971.8	962.5
70°	896.0	894.6	892.8	894.2	894.6	897.1	897.6	897.1	892.5	885.6	875.3
72.5°	842.2	841.4	840.1	841.3	841.3	843.7	842.9	841.7	836.0	829.4	819.2
75°	773.1	772.5	770.0	770.1	767.9	768.7	765.9	764.3	757.9	752.3	743.2
77.5°	692.2	690.9	687.2	685.8	681.6	679.9	674.6	672.0	665.5	661.0	653.3
80°	601.9	600.5	595.7	593.0	586.6	582.4	574.7	570.3	562.8	558.4	550.8
82.5°	497.6	498.1	493.3	489.9	480.6	473.5	463.1	457.5	449.3	445.0	437.3
85°	353.9	348.8	351.5	351.3	345.5	339.3	330.8	324.9	318.0	313.9	308.5
87.5°	194.1	195.3	193.9	192.7	188.6	185.5	178.9	175.4	170.4	167.9	163.7
90°	111.1	107.8	99.9	96.8	88.9	84.0	75.3	71.2	63.0	61.0	56.2
92.5°	107.3	101.4	95.5	89.2	83.5	77.4	71.3	65.3	59.2	56.9	55.2
95°	135.4	126.7	118.0	109.2	100.5	91.7	83.1	74.3	65.6	63.8	62.0
97.5°	152.7	142.4	132.1	121.9	111.5	101.2	91.0	80.7	70.3	69.2	68.1
100°	271.0	247.3	223.6	199.8	176.1	152.3	128.7	104.9	81.2	79.9	78.5
102.5°	619.4	561.8	504.3	446.8	389.4	331.8	274.3	216.6	159.1	150.7	142.5
105°	1101.5	1014.3	927.4	840.2	753.1	665.9	579.0	491.7	404.6	376.7	348.6
107.5°	1449.0	1367.0	1285.3	1203.4	1121.4	1039.7	957.7	875.7	793.8	744.5	695.2
110°	1606.5	1541.4	1476.6	1411.5	1346.7	1281.6	1216.5	1151.6	1086.5	1044.0	1001.6

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	1587.3	1539.6	1492.2	1444.4	1396.8	1349.0	1301.6	1253.7	1205.9	1180.3	1154.4
115°	1434.8	1405.9	1377.3	1348.7	1319.8	1291.2	1262.4	1233.5	1204.6	1191.1	1177.4
117.5°	1253.2	1238.5	1224.0	1209.3	1194.5	1179.7	1165.1	1150.2	1135.4	1130.7	1125.8
120°	1068.5	1064.0	1059.4	1054.9	1050.4	1045.9	1041.3	1036.7	1032.0	1032.5	1033.0
122.5°	914.4	916.0	917.8	919.2	921.0	922.4	924.2	925.5	927.1	930.6	934.2
125°	805.7	809.8	814.1	818.2	822.2	826.4	830.6	834.5	838.7	842.2	845.9
127.5°	727.5	732.0	736.9	741.5	746.2	750.8	755.5	759.9	764.6	767.8	771.3
130°	672.9	676.8	681.0	684.8	689.0	693.0	697.0	700.9	705.1	707.6	710.1
132.5°	632.9	636.6	640.1	643.6	647.5	650.9	654.5	658.1	661.9	663.7	665.6
135°	607.0	609.5	612.3	614.9	617.8	620.3	623.1	625.8	628.6	629.8	631.2
137.5°	583.4	585.6	587.9	590.0	592.3	594.4	596.9	599.1	601.6	602.0	602.9
140°	562.8	565.1	567.4	569.7	572.1	574.5	577.1	579.5	582.3	582.7	583.5
142.5°	547.2	548.9	550.8	552.6	554.4	556.2	558.3	560.4	562.5	563.1	563.7
145°	530.4	532.4	534.7	536.7	538.9	541.2	543.9	546.2	548.7	549.1	549.5
147.5°	518.4	520.2	522.2	524.1	526.1	527.9	530.3	532.4	534.7	535.0	535.3
150°	505.0	506.9	508.8	510.8	513.0	515.3	517.5	519.9	522.6	523.2	523.8
152.5°	492.9	495.1	497.2	499.5	502.0	504.4	506.9	509.5	512.1	512.7	513.3
155°	482.8	484.7	487.1	489.4	491.9	494.1	496.6	499.1	501.6	502.5	503.2
157.5°	476.6	478.4	480.4	482.5	484.7	486.8	489.1	491.2	493.6	494.2	494.9
160°	472.4	474.2	476.0	477.8	479.8	481.7	483.6	485.6	487.6	488.1	488.8
162.5°	468.9	470.7	472.6	474.3	476.3	478.1	480.1	481.9	483.9	484.5	485.1
165°	467.3	468.5	470.0	471.3	472.7	473.9	475.5	476.7	478.3	478.8	479.8
167.5°	470.2	471.1	472.1	473.0	474.3	475.4	476.5	477.5	478.7	479.3	480.1
170°	470.4	471.3	472.2	473.1	474.3	475.2	476.1	477.1	478.3	478.8	479.5
172.5°	472.0	472.5	473.2	473.8	474.4	475.1	475.8	476.4	477.2	477.9	478.6
175°	474.9	475.2	475.5	475.8	476.0	476.4	476.9	477.3	477.6	478.2	478.8
177.5°	478.9	479.2	479.4	479.6	480.1	480.3	480.5	480.8	481.1	481.7	482.5
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29032.4	29032.0	29031.0	29029.7	29028.4	29029.3	29030.5	29033.9	29039.7	29048.1	29059.1
5°	28930.4	28936.3	28939.7	28940.2	28937.1	28935.3	28938.1	28946.1	28962.2	28989.2	29025.6
7.5°	28823.6	28830.9	28842.1	28850.5	28852.1	28850.2	28850.5	28863.1	28892.8	28945.3	29019.1
10°	*28709.5*	*28687.7*	*28699.2*	*28720.1*	*28736.7*	*28739.8*	*28741.9*	*28756.6*	*28800.1*	*28879.5*	*28997.9*
12.5°	28604.1	28535.4	28522.1	28541.1	28566.3	28574.4	28572.1	28578.5	28629.4	28734.5	28899.5
15°	28465.5	28336.3	28292.1	28296.9	28328.1	28339.4	28331.1	28318.7	28368.2	28496.6	28710.2
17.5°	28241.1	28032.8	27951.6	27948.0	27984.6	27994.2	27974.2	27935.3	27984.1	28144.3	28409.5
20°	27900.2	27592.5	27439.7	27415.4	27455.0	27443.4	27403.4	27344.7	27408.8	27603.6	27919.0
22.5°	27287.0	26897.3	26636.2	26551.9	26599.3	26567.7	26509.3	26434.3	26519.4	26740.8	27092.1
25°	26285.2	25834.9	25477.4	25276.8	25314.6	25257.9	25194.3	25103.4	25205.0	25459.0	25845.7
27.5°	24812.7	24292.5	23849.5	23517.4	23529.7	23455.4	23382.1	23264.5	23391.3	23692.0	24128.1
30°	22854.6	22252.7	21713.2	21261.9	21221.5	21149.5	21074.5	20920.1	21078.9	21438.7	21948.4
32.5°	20395.5	19727.3	19103.9	18533.3	18425.7	18355.4	18288.6	18110.9	18318.7	18738.3	19323.8
35°	17519.8	16807.9	16132.1	15480.4	15302.1	15231.8	15173.4	15003.2	15262.5	15719.1	16351.6
37.5°	14363.3	13636.1	12965.1	12296.8	12044.9	11949.5	11907.1	11795.6	12094.7	12546.4	13181.4
40°	11122.8	10446.6	9845.0	9254.9	8967.6	8821.7	8799.4	8779.2	9068.4	9460.3	10036.6
42.5°	8091.4	7545.9	7082.0	6630.9	6370.6	6171.4	6171.3	6231.7	6492.1	6785.7	7230.1
45°	5597.1	5231.0	4935.4	4634.0	4714.5	4317.5	4550.8	4431.0	4559.7	4749.0	5038.0
47.5°	3847.4	3647.6	3485.2	3316.8	3194.1	3076.8	3087.1	3162.7	3283.9	3396.2	3546.6
50°	2804.1	2702.3	2619.7	2532.2	2471.1	2419.4	2422.4	2455.1	2518.8	2578.0	2656.7
52.5°	2197.2	2141.1	2096.2	2047.8	2015.8	1990.0	1991.4	2007.4	2041.7	2075.6	2120.7
55°	1811.0	1804.3	1745.8	1702.5	1686.0	1668.7	1671.8	1678.0	1701.5	1721.2	1751.2
57.5°	1517.7	1491.4	1473.9	1451.1	1440.6	1428.5	1431.2	1433.5	1449.2	1462.5	1483.9
60°	1310.5	1291.9	1279.5	1263.9	1257.1	1249.4	1251.1	1252.5	1262.6	1271.2	1286.7
62.5°	1172.9	1156.2	1145.4	1133.4	1128.5	1123.4	1124.6	1125.0	1131.3	1137.6	1149.3
65°	1067.3	1054.1	1045.1	1034.8	1029.7	1024.3	1024.9	1024.9	1030.1	1034.8	1043.5
67.5°	955.6	945.7	939.9	931.7	928.2	922.7	922.6	920.9	924.3	926.1	932.1
70°	866.0	856.0	848.6	840.7	836.3	831.5	831.6	831.7	835.7	839.9	847.5
72.5°	810.6	801.1	794.4	787.5	783.5	779.3	778.6	778.1	781.0	783.4	788.4
75°	737.4	729.7	725.8	719.3	716.1	711.4	710.7	708.5	709.9	710.3	714.1
77.5°	648.4	641.2	638.0	631.4	628.7	623.5	623.0	620.7	621.7	620.9	623.8
80°	547.0	540.4	538.7	533.3	532.1	527.2	526.4	523.4	524.4	522.0	523.2
82.5°	433.9	427.8	426.6	421.6	421.6	417.1	416.9	412.5	412.5	408.7	402.7
85°	305.6	301.2	299.4	295.3	294.0	290.5	288.7	284.5	283.0	280.3	279.4
87.5°	161.3	158.5	156.0	154.1	150.5	144.2	143.6	139.2	139.5	136.4	136.6
90°	54.7	50.2	48.7	44.5	42.9	39.7	38.2	39.1	40.5	41.3	42.7
92.5°	53.1	51.1	49.1	47.1	45.1	43.1	41.0	43.1	45.1	47.1	49.1
95°	60.2	58.5	56.6	54.8	53.0	51.2	49.5	51.2	53.0	54.9	56.7
97.5°	67.0	65.9	64.7	63.6	62.5	61.4	60.2	61.4	62.6	63.7	64.8
100°	77.2	75.9	74.5	73.2	71.8	70.4	69.1	70.7	72.1	73.4	74.7
102.5°	134.2	126.0	117.7	109.4	101.1	92.8	84.5	92.8	101.1	109.5	117.7
105°	320.5	292.6	264.6	236.6	208.5	180.5	152.5	180.6	208.6	236.7	264.8
107.5°	646.0	596.9	547.5	498.2	448.9	399.6	350.2	399.7	449.1	498.3	547.7
110°	959.0	916.6	874.1	831.6	789.0	746.5	703.8	746.6	789.2	831.8	874.4

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TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	1128.5	1102.7	1076.8	1051.0	1025.0	999.2	973.1	999.4	1025.4	1051.5	1077.4
115°	1164.0	1150.2	1136.6	1122.9	1109.2	1095.4	1081.5	1095.8	1109.7	1123.6	1137.5
117.5°	1121.0	1116.3	1111.3	1106.5	1101.6	1096.8	1091.7	1097.0	1102.1	1107.5	1112.4
120°	1033.4	1034.0	1034.4	1034.8	1035.2	1035.5	1035.7	1036.0	1036.0	1036.0	1035.8
122.5°	937.6	941.1	944.6	948.0	951.3	954.7	957.8	955.1	952.2	949.4	946.3
125°	849.4	853.2	856.7	860.3	863.6	867.1	870.1	867.7	864.8	861.9	858.8
127.5°	774.5	777.7	780.8	784.1	787.0	790.1	792.8	790.8	788.2	785.8	783.1
130°	712.5	715.1	717.3	719.8	721.8	724.0	725.9	724.6	723.0	721.7	719.8
132.5°	667.4	669.4	671.2	672.8	674.3	675.9	677.1	676.6	675.7	674.9	673.8
135°	632.5	633.7	634.8	636.1	637.0	637.9	638.4	638.6	638.4	638.2	637.5
137.5°	603.3	604.1	604.6	604.9	605.2	605.4	605.4	606.1	606.6	607.4	607.5
140°	584.0	584.8	585.3	585.6	586.2	586.5	586.3	587.2	587.7	588.1	588.2
142.5°	564.5	565.0	565.6	566.1	566.3	566.6	566.6	567.4	567.8	568.2	568.5
145°	549.9	550.2	550.4	550.8	550.8	550.8	550.4	551.5	552.2	552.8	553.4
147.5°	535.6	536.1	536.1	536.3	536.3	536.3	536.0	536.9	537.7	538.3	538.9
150°	524.7	525.3	525.8	526.3	526.8	527.1	527.1	527.7	528.1	528.4	528.5
152.5°	513.9	514.5	515.0	515.5	515.8	516.0	516.1	516.7	517.3	517.7	517.9
155°	503.9	504.6	505.3	505.9	506.4	506.9	507.3	507.8	508.1	508.4	508.5
157.5°	495.5	496.3	496.7	497.4	497.9	498.5	498.9	499.5	499.8	500.2	500.5
160°	489.3	490.1	490.6	491.2	491.8	492.2	492.7	493.3	493.6	494.0	494.4
162.5°	485.6	486.2	486.6	487.3	487.7	488.3	488.8	489.2	489.7	490.2	490.5
165°	480.4	481.3	481.9	482.8	483.4	484.3	484.7	485.1	485.2	485.4	485.5
167.5°	480.6	481.5	482.0	482.8	483.3	484.2	484.7	485.0	485.0	485.2	485.2
170°	480.0	480.7	481.3	481.9	482.5	483.2	483.6	483.8	483.8	484.0	484.0
172.5°	479.2	480.1	480.8	481.7	482.3	483.1	483.7	483.7	483.4	483.3	483.0
175°	479.3	480.1	480.6	481.4	481.8	482.5	483.2	482.8	482.7	482.4	482.1
177.5°	483.4	484.3	485.0	485.7	486.5	487.2	487.9	487.3	486.7	486.2	485.5
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29074.7	29089.2	29111.5	29131.6	29162.0	29186.0	29221.9	29249.2	29289.9	29316.2	29360.3
5°	29077.2	29134.2	29208.9	29282.0	29369.8	29449.4	29548.4	29632.7	29732.3	29813.4	29915.2
7.5°	29118.3	29228.0	29359.5	29492.0	29641.9	29782.0	29939.9	30082.9	30239.1	30371.3	30515.7
10°	*29148.7*	*29317.9*	*29511.7*	*29706.6*	*29911.8*	*30102.5*	*30295.0*	*30461.4*	*30616.8*	*30744.8*	*30857.8*
12.5°	29107.6	29340.6	29589.3	29829.4	30057.6	30254.9	30420.6	30548.5	30636.7	30696.7	30710.7
15°	28967.8	29248.3	29518.6	29757.7	29947.1	30093.1	30168.7	30204.1	30166.1	30103.0	29964.5
17.5°	28706.7	29002.5	29244.1	29432.8	29532.8	29572.5	29509.8	29400.9	29188.0	28951.7	28610.5
20°	28227.8	28503.5	28678.7	28781.7	28754.9	28655.9	28419.5	28132.1	27707.1	27254.1	26656.4
22.5°	27388.1	27629.1	27722.4	27730.0	27566.8	27318.8	26892.4	26399.5	25729.1	25032.0	24174.7
25°	26127.4	26338.6	26353.3	26270.4	25971.5	25569.8	24943.6	24246.3	23335.2	22406.4	21332.0
27.5°	24417.8	24620.3	24570.7	24416.1	24001.1	23463.5	22661.9	21761.1	20637.9	19540.8	18352.4
30°	22268.8	22485.2	22427.1	22228.7	21735.1	21099.7	20156.5	19109.9	17862.9	16691.0	15486.8
32.5°	19697.0	19970.6	19930.4	19741.9	19226.8	18546.9	17523.4	16413.4	15137.5	13982.7	12811.4
35°	16773.7	17106.0	17123.2	17000.0	16521.8	15849.8	14839.1	13764.7	12542.5	11453.0	10370.9
37.5°	13624.3	14009.5	14088.7	14055.4	13659.1	13065.9	12145.0	11181.2	10098.5	9143.7	8218.1
40°	10457.5	10847.4	10982.6	11022.8	10730.4	10270.9	9515.1	8737.2	7854.6	7080.9	6345.9
42.5°	7569.5	7915.1	8045.9	8128.1	7945.5	7639.1	7087.8	6522.9	5876.3	5318.3	4783.2
45°	5257.1	5501.7	5601.1	5683.9	5584.5	5411.6	5063.5	4710.1	4283.3	3918.6	3573.4
47.5°	3675.6	3810.4	3876.0	3916.2	3877.7	3787.5	3598.1	3393.4	3152.4	2939.3	2734.4
50°	2724.4	2796.2	2830.5	2853.7	2825.7	2775.6	2673.0	2561.6	2429.3	2308.5	2190.5
52.5°	2159.0	2200.1	2220.6	2233.0	2217.0	2186.3	2126.6	2060.6	1981.2	1906.6	1867.4
55°	1818.8	1816.7	1863.9	1841.1	1863.9	1813.0	1802.3	1729.6	1663.8	1617.4	1567.2
57.5°	1500.0	1521.3	1530.4	1540.5	1534.0	1524.7	1499.3	1473.3	1438.5	1409.5	1378.5
60°	1298.4	1316.0	1325.9	1335.9	1335.3	1331.8	1317.2	1301.7	1279.9	1262.6	1243.8
62.5°	1159.6	1174.8	1184.6	1194.2	1195.1	1193.6	1182.6	1171.7	1156.9	1146.1	1133.1
65°	1050.3	1061.0	1067.7	1075.3	1074.9	1072.9	1062.8	1053.9	1041.6	1034.1	1024.6
67.5°	936.0	944.1	949.3	956.5	957.9	958.3	952.8	948.6	942.7	940.5	937.3
70°	854.7	864.5	872.8	882.0	887.0	889.3	887.0	884.8	881.3	879.9	877.3
72.5°	793.1	801.4	807.9	816.2	820.9	824.2	822.4	821.2	818.2	817.7	816.1
75°	716.7	722.5	726.1	732.4	734.8	738.0	736.6	737.4	736.3	738.8	738.6
77.5°	624.9	629.1	630.8	635.3	635.7	639.5	640.4	644.8	647.9	654.9	658.5
80°	521.5	524.1	524.1	528.8	530.8	537.2	540.2	547.4	550.8	557.0	557.5
82.5°	405.0	401.9	405.0	403.1	409.1	416.2	417.1	423.3	424.7	428.5	425.5
85°	276.9	276.7	274.2	274.6	272.8	273.7	272.6	273.8	272.7	272.8	270.0
87.5°	132.6	133.9	131.0	131.9	129.1	130.4	128.0	129.8	126.9	127.4	123.1
90°	43.9	45.3	46.4	47.9	49.6	53.4	57.3	61.1	65.4	69.1	73.2
92.5°	51.1	53.2	55.3	57.2	59.3	65.4	71.4	77.5	83.6	89.5	95.6
95°	58.5	60.3	62.1	64.2	65.9	74.7	83.5	92.2	101.0	109.7	118.5
97.5°	66.2	67.3	68.5	69.6	70.8	81.1	91.4	101.7	112.0	122.4	132.6
100°	76.2	77.6	78.9	80.4	81.7	105.5	129.3	153.0	176.8	200.5	224.2
102.5°	126.2	134.4	142.8	151.3	159.6	217.2	274.9	332.5	389.9	447.6	505.1
105°	292.8	320.8	349.2	377.2	405.2	492.4	579.7	666.9	754.0	841.1	928.4
107.5°	597.2	646.5	695.9	745.2	794.6	876.7	958.6	1040.7	1122.7	1204.7	1286.4
110°	917.2	959.6	1002.5	1045.1	1087.7	1152.7	1217.9	1283.0	1348.2	1413.1	1478.2

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	1103.6	1129.5	1155.4	1181.3	1207.3	1255.1	1303.1	1350.9	1398.7	1446.4	1494.1
115°	1151.4	1165.0	1178.8	1192.6	1206.5	1235.3	1264.3	1293.2	1322.1	1350.9	1379.8
117.5°	1117.6	1122.6	1127.7	1132.4	1137.4	1152.3	1167.3	1182.1	1197.1	1212.1	1226.9
120°	1035.7	1035.4	1035.2	1034.8	1034.6	1039.2	1044.1	1048.7	1053.5	1058.2	1062.8
122.5°	943.2	939.9	936.7	933.4	930.2	928.6	927.3	925.7	924.5	922.9	921.6
125°	855.5	852.2	848.9	845.6	842.1	838.2	834.2	830.2	826.2	822.3	818.3
127.5°	780.5	777.5	774.8	771.6	768.6	764.0	759.6	755.0	750.7	746.0	741.5
130°	718.0	715.8	714.1	711.6	709.6	705.4	701.8	697.8	693.9	690.0	686.1
132.5°	672.6	671.2	669.8	668.2	666.7	663.1	659.8	656.3	652.7	649.1	645.8
135°	637.1	636.3	635.7	634.7	633.9	631.1	628.7	626.0	623.5	620.9	618.3
137.5°	607.6	607.5	607.4	607.2	607.0	604.8	602.8	600.6	598.6	596.4	594.3
140°	588.4	588.3	588.3	588.2	588.0	585.6	583.4	581.1	578.9	576.5	574.3
142.5°	568.6	568.7	568.6	568.4	568.3	566.4	564.9	563.1	561.4	559.7	558.0
145°	553.8	554.1	554.3	554.3	554.7	552.5	550.5	548.3	546.4	544.2	542.2
147.5°	539.5	539.7	540.2	540.4	540.9	539.0	537.4	535.5	534.0	532.1	530.6
150°	528.8	528.9	528.9	528.9	528.9	526.9	525.2	523.4	521.7	519.7	518.0
152.5°	518.2	518.4	518.6	518.7	518.9	517.0	515.1	513.1	511.3	509.1	507.2
155°	508.7	508.8	509.0	509.0	509.0	507.2	505.4	503.5	501.7	499.7	498.0
157.5°	500.7	500.9	501.0	501.2	501.3	499.7	498.1	496.6	495.1	493.4	491.8
160°	494.7	495.0	495.1	495.3	495.5	494.2	493.0	491.5	490.4	488.8	487.4
162.5°	490.8	491.1	491.3	491.5	491.7	490.4	489.1	487.8	486.5	484.9	483.6
165°	485.7	485.6	485.7	485.5	485.5	484.6	483.9	483.0	482.1	481.0	480.2
167.5°	485.4	485.2	485.3	485.1	485.2	484.6	484.2	483.4	482.8	482.0	481.4
170°	484.0	484.0	484.0	483.8	483.8	483.2	482.7	482.0	481.6	480.6	480.0
172.5°	482.8	482.4	482.3	482.0	481.7	481.2	480.8	480.4	480.1	479.6	479.1
175°	481.7	481.5	481.3	480.9	480.5	480.4	480.2	480.2	479.9	479.7	479.4
177.5°	485.0	484.5	483.7	483.2	482.6	482.4	482.3	482.1	482.1	481.8	481.7
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29387.6	29206.1	29182.2	29195.0	29225.2	29236.5	29269.2	29278.1	29311.1	29319.2	29350.8
5°	29994.0	29754.2	29766.1	29823.8	29911.1	29963.2	30049.0	30093.8	30175.8	30213.1	30287.1
7.5°	30633.5	30445.1	30503.8	30601.1	30720.5	30803.1	30906.2	30973.4	31062.2	31117.4	31188.6
10°	*30947.4*	*30895.7*	*30960.5*	*31037.0*	*31105.1*	*31158.4*	*31202.1*	*31237.1*	*31260.0*	*31281.5*	*31290.9*
12.5°	30708.5	30788.4	30799.4	30792.0	30746.8	30712.3	30635.0	30582.4	30489.0	30432.1	30321.0
15°	29822.8	29998.5	29901.2	29753.9	29538.5	29358.8	29105.1	28916.2	28652.1	28472.9	28207.7
17.5°	28268.5	28490.2	28236.7	27896.0	27462.5	27091.8	26630.0	26263.5	25804.4	25470.4	25042.0
20°	26080.3	26287.4	25835.5	25270.6	24600.1	24035.9	23370.4	22839.5	22221.1	21761.1	21206.0
22.5°	23355.8	23503.4	22866.6	22105.1	21250.9	20546.0	19750.3	19113.8	18408.1	17882.2	17290.3
25°	20341.7	20381.6	19617.6	18740.4	17788.3	16996.0	16146.6	15477.4	14757.7	14224.7	13643.8
27.5°	17299.5	17241.1	16415.4	15485.3	14483.8	13660.3	12831.9	12204.8	11574.3	11094.3	10593.8
30°	14428.1	14286.7	13429.4	12473.3	11501.2	10763.1	10075.3	9571.7	9070.2	8689.4	8287.6
32.5°	11794.9	11595.4	10760.9	9865.2	9046.1	8476.5	7966.5	7585.4	7180.4	6858.8	6521.6
35°	9462.6	9250.1	8510.8	7751.5	7131.4	6711.6	6310.8	5998.1	5654.3	5382.9	5090.1
37.5°	7461.1	7286.8	6667.6	6070.1	5601.1	5275.7	4947.3	4691.8	4407.6	4288.3	3975.4
40°	5759.9	5638.1	5154.0	4713.4	4361.3	4208.4	3875.1	3636.4	3424.0	3249.0	3079.3
42.5°	4492.8	4449.7	3978.5	3635.0	3387.0	3194.5	3008.6	2857.8	2711.0	2590.3	2476.3
45°	3297.1	3262.9	3053.8	2855.5	2686.5	2551.9	2426.3	2322.6	2226.6	2147.0	2074.7
47.5°	2567.4	2556.5	2436.0	2313.0	2206.6	2120.1	2038.7	1969.8	1906.1	1853.0	1835.7
50°	2088.2	2086.8	2016.1	1940.2	1864.4	1814.4	1762.4	1721.7	1680.7	1648.9	1615.3
52.5°	1774.2	1766.6	1718.9	1672.0	1627.0	1594.2	1560.9	1534.9	1507.8	1488.1	1467.3
55°	1527.5	1535.5	1507.9	1480.0	1451.8	1431.4	1408.1	1390.9	1372.4	1359.9	1347.3
57.5°	1356.1	1366.8	1352.2	1336.4	1319.3	1305.9	1289.8	1277.9	1265.5	1257.5	1250.2
60°	1231.3	1243.0	1237.2	1229.1	1218.6	1210.6	1200.4	1193.7	1185.8	1181.4	1177.3
62.5°	1125.5	1140.2	1138.1	1134.3	1127.5	1123.0	1117.5	1114.5	1109.3	1107.3	1105.3
65°	1020.0	1036.4	1036.1	1034.2	1030.5	1029.2	1025.7	1025.0	1022.3	1023.4	1023.2
67.5°	937.0	951.2	954.3	956.6	956.5	957.3	957.0	958.4	958.4	960.5	961.8
70°	877.0	887.0	889.3	891.7	892.4	894.3	894.3	895.5	895.2	896.9	897.1
72.5°	816.4	829.5	831.9	833.9	833.9	835.7	834.7	834.4	831.8	831.2	829.5
75°	741.1	757.9	761.5	763.9	764.3	765.9	763.6	762.2	757.9	756.1	753.1
77.5°	662.4	679.8	682.4	683.2	681.8	682.2	677.4	674.1	668.7	666.4	663.5
80°	560.0	585.5	587.6	586.0	582.0	581.3	576.7	573.6	567.1	564.8	562.3
82.5°	426.1	456.1	460.3	462.2	458.9	459.6	455.2	453.6	447.5	446.4	442.4
85°	269.0	299.0	304.0	303.2	300.0	299.3	296.7	297.5	297.0	298.6	299.5
87.5°	123.6	152.7	159.7	157.4	157.1	155.0	150.3	152.1	154.9	156.7	156.9
90°	77.1	89.7	93.5	90.9	85.3	82.3	77.2	74.6	69.9	67.3	62.6
92.5°	101.7	107.7	113.8	108.4	103.0	97.6	92.3	86.7	81.5	76.0	70.7
95°	127.2	135.7	144.4	137.2	130.0	122.8	115.6	108.5	101.3	94.0	86.9
97.5°	142.9	153.0	163.2	156.0	148.8	141.5	134.3	127.2	120.0	112.7	105.6
100°	247.9	271.3	295.0	274.5	254.0	233.7	213.3	192.8	172.4	152.0	131.5
102.5°	562.6	620.0	677.3	625.6	574.0	522.3	470.7	419.1	367.5	315.6	264.1
105°	1015.4	1102.1	1189.2	1110.1	1031.2	952.4	873.6	794.8	715.9	637.0	558.2
107.5°	1368.4	1449.7	1531.2	1460.0	1388.7	1317.5	1246.0	1174.9	1103.6	1032.3	961.1
110°	1543.3	1607.3	1672.2	1624.2	1576.5	1528.4	1480.7	1432.8	1385.1	1337.4	1289.8

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	1541.7	1588.3	1635.6	1607.4	1579.6	1551.5	1523.7	1495.5	1467.8	1439.7	1412.1
115°	1408.4	1435.8	1464.2	1452.9	1442.1	1430.9	1419.9	1409.0	1397.9	1386.9	1376.2
117.5°	1241.6	1254.6	1269.0	1266.9	1264.9	1262.9	1261.0	1258.9	1257.3	1255.4	1253.5
120°	1067.4	1070.1	1074.1	1075.5	1077.1	1078.5	1080.1	1081.6	1083.2	1084.8	1086.5
122.5°	920.0	916.4	914.1	915.5	916.9	918.2	919.7	921.0	922.5	924.0	925.6
125°	814.3	807.7	802.9	801.1	799.4	797.4	795.5	793.8	792.1	790.2	788.6
127.5°	736.9	729.9	724.6	720.2	715.9	711.4	707.1	702.7	698.5	694.1	690.0
130°	682.1	675.5	670.8	665.3	659.9	654.2	648.9	643.3	637.8	632.3	626.8
132.5°	642.3	635.8	631.6	626.4	621.2	615.8	610.6	605.2	600.0	594.5	589.4
135°	615.7	610.0	606.7	601.8	597.3	592.4	587.6	582.7	578.0	573.0	568.5
137.5°	592.2	586.7	583.9	580.1	576.5	572.5	568.9	564.8	561.0	557.0	553.3
140°	572.0	566.2	563.2	561.2	559.1	556.8	554.7	552.5	550.4	548.3	546.0
142.5°	556.2	550.8	548.3	546.9	545.7	544.2	543.2	541.8	540.5	538.7	537.5
145°	540.2	534.0	531.1	530.9	531.1	530.9	530.8	530.8	530.7	530.5	530.4
147.5°	528.7	522.4	519.7	520.1	520.3	520.5	521.0	521.1	521.6	521.7	522.1
150°	516.0	508.9	505.7	506.5	506.9	507.7	508.4	508.9	509.7	510.3	510.9
152.5°	505.2	496.8	493.2	493.9	494.8	495.3	496.1	496.9	497.8	498.6	499.4
155°	495.9	486.9	483.1	483.2	483.5	483.8	484.2	484.7	485.1	485.5	486.1
157.5°	490.0	480.6	477.0	476.8	477.0	477.1	477.2	477.3	477.6	477.8	478.4
160°	486.0	476.6	473.1	472.9	473.1	473.0	473.1	473.2	473.5	473.7	474.1
162.5°	482.1	473.0	469.7	469.4	469.4	469.3	469.4	469.4	469.6	469.7	470.0
165°	479.0	471.3	468.3	468.4	468.6	468.6	468.9	469.2	469.5	469.8	470.2
167.5°	480.5	473.6	471.4	471.0	470.7	470.3	470.3	469.9	469.9	469.7	469.7
170°	479.1	473.7	471.6	471.5	471.8	471.8	471.8	472.0	472.0	472.0	472.3
172.5°	478.7	474.6	473.1	473.4	473.9	474.2	474.6	475.0	475.5	475.8	476.3
175°	479.2	476.8	476.1	476.1	476.4	476.6	476.9	477.1	477.3	477.5	478.0
177.5°	481.6	480.7	480.3	480.3	480.3	480.3	480.3	480.3	480.3	480.4	480.4
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29356.7	29391.0	29388.4	29420.3	29418.7	29448.8	29442.8	29468.9	29462.9	29485.2	29472.0
5°	30319.8	30384.8	30406.3	30465.1	30477.2	30529.8	30530.9	30572.7	30567.6	30600.3	30582.9
7.5°	31230.6	31291.4	31320.3	31365.9	31388.7	31426.5	31441.3	31472.4	31479.8	31498.1	31497.6
10°	*31307.5*	*31307.3*	*31321.6*	*31315.2*	*31327.9*	*31320.5*	*31336.1*	*31330.5*	*31353.5*	*31347.5*	*31364.9*
12.5°	30273.1	30170.5	30133.0	30040.7	30020.6	29941.4	29947.1	29896.3	29920.8	29889.6	29942.7
15°	28049.9	27811.8	27694.2	27487.1	27422.1	27258.4	27245.1	27136.5	27165.8	27108.9	27192.0
17.5°	24764.7	24389.8	24184.0	23881.7	23761.6	23530.1	23483.8	23343.8	23365.5	23295.0	23395.4
20°	20847.9	20394.8	20135.3	19785.6	19629.6	19353.7	19280.5	19123.9	19143.6	19073.5	19187.0
22.5°	16886.3	16412.1	16119.1	15752.6	15553.4	15293.9	15216.1	15058.7	15067.7	15001.9	15111.1
25°	13245.8	12791.1	12506.7	12173.8	12001.0	11763.1	11681.2	11540.1	11548.0	11493.7	11591.8
27.5°	10246.7	9873.6	9635.6	9356.5	9201.6	9006.0	8926.2	8807.5	8807.1	8767.3	8849.3
30°	8007.2	7695.8	7482.2	7239.2	7093.7	6917.1	6840.0	6733.8	6729.2	6700.9	6766.0
32.5°	6269.4	5992.5	5797.7	5583.8	5453.1	5301.7	5228.7	5143.4	5135.6	5110.0	5163.4
35°	4873.7	4640.5	4473.0	4292.8	4306.1	4082.6	4119.8	3946.3	3899.1	3888.9	3928.7
37.5°	3766.8	3586.2	3450.1	3315.2	3223.9	3129.5	3078.6	3032.9	3027.7	3023.3	3051.1
40°	2948.4	2821.9	2723.0	2630.5	2567.6	2510.0	2478.2	2453.1	2447.2	2443.8	2460.6
42.5°	2386.3	2300.9	2237.1	2180.8	2142.5	2111.2	2093.7	2079.8	2075.1	2075.3	2085.2
45°	2016.1	1964.4	1923.3	1888.1	1863.8	1874.4	1842.9	1859.5	1837.6	1860.2	1845.3
47.5°	1775.4	1731.4	1705.9	1681.1	1666.3	1654.4	1654.9	1655.1	1659.8	1660.5	1665.3
50°	1589.8	1564.3	1546.6	1530.7	1523.0	1516.8	1519.0	1520.6	1525.1	1525.4	1529.0
52.5°	1452.4	1435.6	1424.9	1415.1	1411.6	1408.1	1409.6	1408.9	1411.0	1409.9	1412.8
55°	1340.5	1332.6	1329.3	1325.6	1326.1	1325.2	1325.8	1322.3	1320.1	1317.4	1319.8
57.5°	1248.7	1247.6	1249.9	1251.4	1255.7	1257.2	1258.1	1254.0	1250.1	1246.6	1248.6
60°	1178.0	1179.8	1185.3	1189.9	1195.9	1198.7	1200.5	1198.1	1195.2	1192.3	1194.1
62.5°	1108.3	1110.9	1117.7	1122.7	1130.0	1133.9	1138.1	1138.3	1139.4	1138.3	1139.5
65°	1027.3	1030.7	1036.7	1040.9	1047.7	1051.1	1055.4	1056.1	1058.5	1058.0	1060.0
67.5°	965.7	968.8	973.9	977.8	983.9	987.4	991.1	991.3	992.3	992.0	993.9
70°	900.2	901.7	906.2	909.5	915.5	919.1	923.4	924.7	927.4	927.9	930.1
72.5°	830.2	829.5	832.3	833.8	838.3	841.1	846.6	849.6	854.2	855.3	857.0
75°	754.0	753.3	756.6	757.9	761.7	764.5	770.7	774.7	781.7	784.6	783.8
77.5°	665.7	667.3	673.3	676.7	681.8	685.4	693.4	699.8	712.6	718.3	712.6
80°	567.1	568.7	575.0	578.1	584.9	589.2	598.2	605.7	617.2	619.6	616.4
82.5°	445.9	446.2	451.9	454.3	463.1	469.5	480.8	486.8	493.9	492.8	492.0
85°	304.0	308.1	315.1	322.1	332.9	343.3	354.0	362.9	356.6	366.4	355.4
87.5°	162.5	162.1	171.5	170.0	185.2	193.9	203.2	207.6	212.5	211.6	211.7
90°	60.4	57.2	56.6	53.2	53.3	49.7	50.6	47.2	48.6	44.6	50.4
92.5°	65.2	62.4	59.4	56.6	53.6	50.7	47.7	44.8	41.9	39.0	41.9
95°	79.7	77.0	74.4	71.6	68.8	66.2	63.5	60.8	58.2	55.5	58.8
97.5°	98.4	96.8	95.2	93.7	92.1	90.5	88.9	87.4	85.7	84.1	86.4
100°	111.1	111.1	111.1	111.1	110.8	110.8	110.8	110.8	110.8	110.8	112.6
102.5°	212.4	207.2	202.0	196.8	191.7	186.4	181.3	176.1	170.9	165.8	173.4
105°	479.4	459.3	438.9	418.8	398.5	378.3	358.1	338.0	317.7	297.6	318.5
107.5°	890.0	853.1	816.2	779.4	742.5	705.8	669.0	632.2	595.5	558.7	591.6
110°	1241.9	1202.7	1163.7	1124.6	1085.6	1046.4	1007.4	968.4	929.4	890.3	921.7

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	1384.3	1358.8	1333.6	1308.4	1283.2	1258.0	1232.8	1207.7	1182.6	1157.5	1172.8
115°	1365.2	1353.2	1341.1	1329.1	1317.0	1305.0	1293.0	1281.1	1269.2	1257.3	1258.3
117.5°	1251.8	1247.6	1243.6	1239.5	1235.5	1231.6	1227.7	1223.9	1220.0	1216.2	1207.7
120°	1088.3	1089.5	1090.6	1091.9	1093.3	1094.7	1096.0	1097.5	1099.1	1100.7	1089.3
122.5°	927.2	930.0	932.9	936.0	939.1	942.1	945.3	948.7	952.1	955.4	944.0
125°	786.8	789.6	792.5	795.5	798.3	801.5	804.7	808.1	811.4	814.8	805.2
127.5°	685.7	686.6	687.5	688.6	689.6	691.0	692.3	693.7	695.3	697.0	690.9
130°	621.3	620.3	619.1	618.1	617.0	616.4	615.6	615.0	614.5	614.1	611.4
132.5°	584.1	581.6	579.1	576.5	574.2	572.0	569.9	568.0	566.1	564.5	563.6
135°	563.5	560.1	556.5	553.3	549.9	546.9	543.9	541.2	538.4	535.8	536.3
137.5°	549.4	546.0	542.5	539.3	535.9	533.1	530.0	527.1	524.5	521.9	522.9
140°	543.8	540.3	536.8	533.7	530.6	527.5	524.5	521.8	518.9	516.5	517.1
142.5°	536.0	533.2	529.9	527.0	524.0	521.3	518.7	516.2	513.4	511.3	512.0
145°	530.2	528.0	525.7	523.3	521.3	519.4	517.2	515.4	513.6	512.2	512.5
147.5°	522.2	520.7	518.7	517.3	515.5	514.1	512.6	511.3	509.9	508.8	508.9
150°	511.5	510.5	509.3	508.3	507.2	506.3	505.4	504.5	503.7	502.9	502.8
152.5°	500.1	499.2	498.1	497.2	496.3	495.4	494.6	493.8	493.2	492.4	492.3
155°	486.5	486.1	485.6	485.3	484.8	484.7	484.2	484.2	483.8	483.7	483.8
157.5°	478.6	478.6	478.3	478.4	478.3	478.3	478.1	478.4	478.2	478.4	478.7
160°	474.4	474.3	473.9	473.8	473.6	473.3	473.1	473.1	472.9	472.9	473.2
162.5°	470.2	470.5	470.6	470.9	471.2	471.4	471.7	472.2	472.4	472.8	473.1
165°	470.7	470.6	470.5	470.4	470.5	470.4	470.5	470.7	470.7	470.9	471.4
167.5°	469.6	469.9	470.0	470.3	470.6	471.2	471.4	471.9	472.5	473.0	473.5
170°	472.3	472.3	472.3	472.3	472.3	472.5	472.6	472.7	472.9	473.1	473.4
172.5°	476.7	476.7	476.5	476.7	476.5	476.7	476.7	476.8	476.8	476.9	477.1
175°	478.0	478.4	478.7	478.9	479.0	479.3	479.5	479.7	480.0	480.3	480.3
177.5°	480.4	480.5	480.5	480.5	480.5	480.6	480.6	480.6	480.6	480.5	480.7
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29493.8	29479.0	29494.1	29478.8	29494.1	29475.7	29488.2	29468.3	29473.4	29452.7	29458.0
5°	30608.9	30585.4	30598.0	30567.3	30570.6	30529.8	30529.0	30481.5	30469.0	30414.9	30391.1
7.5°	31510.7	31503.0	31507.3	31487.7	31485.4	31457.6	31444.3	31405.0	31380.3	31330.5	31296.5
10°	*31367.9*	*31391.0*	*31396.9*	*31420.3*	*31425.2*	*31448.4*	*31453.3*	*31476.5*	*31481.3*	*31498.5*	*31498.7*
12.5°	29940.2	30018.3	30037.0	30133.4	30174.0	30284.4	30343.5	30465.1	30537.3	30658.5	30732.9
15°	27189.8	27324.8	27378.7	27567.0	27671.1	27891.0	28029.0	28281.4	28459.6	28727.5	28918.8
17.5°	23404.3	23593.0	23678.1	23933.5	24100.0	24424.5	24658.3	25043.2	25337.8	25765.5	26104.5
20°	19206.5	19416.2	19531.8	19823.1	20019.6	20398.7	20690.6	21163.5	21557.9	22099.9	22563.3
22.5°	15145.4	15345.0	15473.3	15769.7	15990.9	16386.3	16712.6	17211.7	17653.6	18264.3	18820.0
25°	11628.8	11811.7	11927.7	12195.8	12403.6	12766.9	13078.4	13558.5	13990.9	14603.4	15173.2
27.5°	8890.0	9043.3	9155.1	9383.7	9567.0	9875.1	10142.7	10539.4	10912.0	11441.9	11949.3
30°	6806.0	6941.9	7050.7	7249.8	7419.7	7686.8	7922.1	8255.4	8563.7	8985.4	9389.0
32.5°	5201.0	5317.9	5414.8	5589.1	5743.2	5983.8	6195.8	6487.9	6752.5	7110.2	7442.2
35°	3965.6	4195.6	4179.3	4419.6	4458.3	4630.9	4820.0	5075.5	5309.8	5613.9	5896.6
37.5°	3077.9	3142.6	3211.9	3318.1	3429.8	3586.8	3746.6	4058.7	4173.1	4403.0	4636.9
40°	2482.0	2525.7	2571.5	2643.3	2721.4	2832.1	2948.5	3097.3	3249.9	3436.2	3626.6
42.5°	2098.3	2123.1	2152.2	2194.4	2242.6	2312.7	2390.6	2491.6	2597.6	2728.8	2862.7
45°	1874.7	1863.0	1871.6	1894.3	1923.3	1966.0	2015.1	2077.6	2146.7	2231.7	2322.1
47.5°	1666.3	1671.1	1673.6	1686.0	1701.5	1730.1	1759.9	1802.3	1884.3	1909.2	1958.6
50°	1528.6	1531.0	1530.2	1536.4	1544.4	1562.9	1582.2	1611.0	1639.6	1677.6	1713.9
52.5°	1413.2	1416.5	1416.0	1420.1	1424.4	1436.2	1448.3	1468.7	1487.4	1511.6	1532.5
55°	1322.2	1326.6	1328.3	1331.7	1333.8	1340.0	1344.8	1354.5	1362.5	1376.2	1388.9
57.5°	1252.1	1258.1	1260.9	1262.1	1259.6	1259.3	1257.7	1259.8	1261.4	1268.7	1275.8
60°	1196.9	1201.8	1202.5	1201.8	1197.2	1194.0	1188.8	1187.2	1186.3	1189.9	1193.7
62.5°	1139.1	1140.9	1139.7	1138.3	1133.1	1130.0	1124.6	1122.6	1120.8	1123.3	1125.4
65°	1059.2	1060.7	1059.2	1058.4	1053.8	1051.3	1046.8	1045.3	1042.7	1043.3	1042.8
67.5°	994.4	995.9	994.7	993.5	990.3	988.8	985.4	983.3	980.2	979.0	976.8
70°	929.7	930.9	929.0	927.9	924.3	922.8	919.7	919.0	916.6	916.0	913.5
72.5°	855.3	855.4	852.9	852.1	849.4	849.3	848.0	849.2	849.0	850.3	849.8
75°	779.2	778.1	774.9	774.4	772.3	773.3	771.8	773.7	773.9	776.7	777.1
77.5°	703.0	699.0	692.9	690.0	685.9	685.3	683.0	684.5	684.0	687.3	688.6
80°	606.7	601.8	594.0	590.2	585.3	584.6	582.4	584.6	583.5	587.3	589.9
82.5°	484.4	480.2	472.0	468.9	463.4	463.9	461.5	463.9	463.6	469.2	472.4
85°	358.3	355.5	347.1	339.7	331.3	326.4	321.7	320.8	319.4	321.7	323.6
87.5°	206.9	204.4	197.7	193.4	178.9	179.6	173.9	173.5	172.1	170.8	173.9
90°	50.6	55.6	56.0	60.8	61.6	66.9	68.1	73.2	74.1	79.3	80.9
92.5°	44.8	47.7	50.6	53.6	56.5	59.4	62.3	65.2	71.5	77.5	84.0
95°	62.2	65.6	68.9	72.2	75.6	79.0	82.3	85.7	94.9	104.1	113.2
97.5°	88.7	90.9	93.1	95.4	97.6	99.9	102.1	104.3	114.3	124.2	134.0
100°	114.4	116.2	117.9	119.8	121.6	123.4	125.1	126.9	146.3	165.3	184.4
102.5°	181.1	188.7	196.3	203.9	211.7	219.3	227.0	234.6	278.4	322.1	365.9
105°	339.3	360.2	381.1	401.9	422.8	443.7	464.6	485.5	555.6	625.5	695.8
107.5°	624.6	657.6	690.5	723.5	756.5	789.6	822.5	855.6	923.9	992.3	1060.6
110°	953.1	984.6	1016.0	1047.5	1078.9	1110.4	1141.8	1173.5	1214.5	1255.5	1296.4

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	1188.1	1203.3	1218.7	1234.0	1249.4	1264.8	1280.2	1295.7	1316.2	1336.6	1357.1
115°	1259.2	1260.2	1261.2	1262.3	1263.3	1264.4	1265.7	1266.8	1273.4	1279.6	1286.2
117.5°	1199.3	1190.8	1182.5	1174.3	1165.9	1157.9	1149.6	1141.6	1140.2	1138.9	1137.6
120°	1078.2	1066.9	1055.7	1044.2	1033.3	1022.1	1011.3	1000.4	994.8	989.1	983.6
122.5°	932.8	921.6	910.5	899.2	888.3	877.4	866.6	855.9	851.9	847.9	844.1
125°	795.7	786.4	777.1	767.9	758.8	749.8	740.9	732.1	731.9	731.5	731.4
127.5°	685.3	679.5	673.9	668.4	663.1	657.7	652.5	647.2	649.6	651.9	654.3
130°	608.9	606.3	604.1	601.6	599.6	597.4	595.4	593.4	597.7	601.7	606.1
132.5°	563.3	562.8	562.6	562.3	562.3	562.3	562.5	562.4	567.4	572.0	577.0
135°	536.9	537.5	538.5	539.4	540.7	541.6	542.9	543.9	548.7	553.1	558.0
137.5°	524.0	525.0	526.3	527.7	529.3	530.8	532.5	534.0	537.8	541.4	545.0
140°	518.1	518.8	520.1	521.2	522.4	523.5	525.0	526.2	529.4	532.1	535.0
142.5°	513.0	513.6	514.7	515.8	517.1	518.1	519.4	520.5	522.7	524.7	527.2
145°	513.1	513.7	514.6	515.2	516.1	517.0	518.0	518.8	520.2	521.5	522.9
147.5°	509.4	509.7	510.2	510.8	511.4	512.0	512.5	513.0	514.0	514.8	515.7
150°	503.0	503.1	503.4	503.4	503.9	504.2	504.6	504.8	505.5	506.3	507.1
152.5°	492.6	492.6	492.8	492.9	493.2	493.5	493.6	493.9	494.7	495.2	496.0
155°	484.1	484.6	484.9	485.3	485.9	486.1	486.6	486.9	487.5	487.8	488.4
157.5°	479.0	479.3	479.8	480.1	480.5	480.9	481.4	481.7	482.2	482.5	483.0
160°	474.0	474.5	475.1	475.8	476.4	476.9	477.6	478.3	478.7	479.0	479.4
162.5°	473.6	474.0	474.4	474.7	475.2	475.6	475.9	476.3	477.1	477.6	478.3
165°	472.1	472.7	473.4	473.9	474.6	475.2	475.8	476.4	476.8	477.2	477.5
167.5°	474.2	474.5	475.4	475.9	476.6	477.2	477.8	478.4	478.8	479.0	479.4
170°	474.1	474.5	475.2	475.7	476.2	476.7	477.3	477.8	478.4	478.9	479.5
172.5°	477.6	478.0	478.5	478.8	479.3	479.8	480.3	480.6	481.1	481.6	482.0
175°	480.3	480.3	480.3	480.4	480.6	480.6	480.7	480.9	481.0	481.1	481.2
177.5°	481.0	481.2	481.4	481.7	481.8	482.0	482.3	482.5	482.5	482.5	482.5
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29437.4	29438.7	29414.9	29413.7	29391.4	29388.6	29366.9	29360.3	29342.7	29336.3	29318.4
5°	30330.5	30301.6	30234.8	30195.5	30129.4	30085.7	30014.2	29967.6	29898.6	29846.5	29777.1
7.5°	31233.8	31188.8	31113.8	31053.0	30961.4	30888.3	30781.0	30693.1	30577.0	30476.5	30354.5
10°	*31498.7*	*31491.8*	*31472.7*	*31444.8*	*31402.2*	*31354.3*	*31281.3*	*31205.1*	*31103.4*	*30992.8*	*30857.3*
12.5°	30846.9	30917.3	31013.2	31070.2	31139.3	31169.6	31198.0	31190.9	31172.3	31116.3	31037.9
15°	29195.7	29393.5	29655.4	29858.3	30091.9	30261.5	30448.9	30565.7	30682.3	30736.0	30768.9
17.5°	26569.0	26943.5	27413.2	27802.3	28251.3	28612.0	29007.3	29304.9	29611.0	29830.2	30028.5
20°	23195.1	23737.7	24401.8	24988.6	25670.8	26263.7	26913.4	27446.8	27996.8	28427.0	28834.1
22.5°	19535.4	20179.9	20982.8	21726.7	22606.2	23396.6	24288.5	25064.6	25875.1	26552.1	27206.8
25°	15936.9	16643.5	17521.5	18351.4	19347.5	20267.0	21324.6	22292.0	23339.5	24249.0	25147.4
27.5°	12650.8	13344.6	14241.0	15124.4	16177.7	17157.4	18290.6	19356.5	20549.1	21649.0	22774.1
30°	9950.0	10538.4	11342.1	12197.8	13236.7	14233.7	15379.2	16475.4	17716.1	18917.0	20184.3
32.5°	7883.1	8331.4	8963.3	9686.8	10645.3	11594.4	12685.1	13743.3	14965.1	16178.3	17496.3
35°	6260.6	6610.3	7092.0	7656.7	8468.4	9286.4	10251.2	11213.6	12353.5	13504.6	14785.8
37.5°	4936.8	5220.6	5597.9	6022.0	6673.1	7344.5	8135.6	8933.4	9923.9	10944.2	12105.3
40°	3855.1	4084.8	4378.6	4694.9	5186.6	5703.8	6315.7	6934.4	7730.1	8564.0	9524.9
42.5°	3028.5	3198.0	3405.5	3636.6	4095.3	4369.9	4784.8	5232.3	5817.3	6422.7	7145.1
45°	2432.2	2547.8	2691.6	2846.7	3059.6	3292.5	3576.7	3874.6	4430.4	4703.0	5142.3
47.5°	2031.1	2108.7	2200.2	2297.9	2423.5	2559.0	2727.5	2899.8	3122.6	3353.5	3624.3
50°	1761.0	1839.9	1871.3	1921.9	1994.6	2072.0	2167.0	2262.0	2381.5	2502.6	2642.0
52.5°	1560.5	1586.2	1620.4	1652.5	1697.6	1785.7	1814.2	1863.9	1930.9	1996.4	2069.7
55°	1407.4	1424.2	1446.4	1465.9	1493.0	1519.1	1556.6	1589.7	1634.4	1673.9	1722.4
57.5°	1288.3	1298.9	1314.4	1327.1	1344.7	1359.4	1381.4	1399.3	1425.0	1447.4	1476.8
60°	1201.6	1208.8	1219.1	1227.5	1238.7	1246.4	1257.3	1265.7	1279.3	1290.6	1307.0
62.5°	1131.0	1134.6	1141.4	1146.3	1153.4	1157.3	1163.1	1166.8	1174.3	1180.0	1189.2
65°	1046.1	1047.0	1051.5	1053.5	1059.1	1061.2	1066.0	1067.7	1073.8	1078.1	1086.1
67.5°	976.6	974.6	974.7	973.1	973.9	972.2	972.7	971.0	973.4	974.7	980.9
70°	913.1	910.4	909.5	906.6	905.7	902.7	901.9	899.1	898.9	898.0	900.2
72.5°	851.2	850.4	850.7	848.7	848.5	846.4	846.5	845.2	846.6	847.3	850.1
75°	780.1	780.3	781.7	779.9	780.4	778.7	779.3	777.7	778.6	778.2	781.0
77.5°	693.5	695.6	699.3	698.6	699.8	697.8	698.7	696.4	697.1	695.6	696.6
80°	596.1	600.4	605.5	605.3	607.5	606.1	608.0	605.9	606.7	604.1	603.4
82.5°	480.5	484.2	489.6	489.8	494.6	495.4	500.7	500.5	503.9	501.7	500.2
85°	328.5	331.0	335.7	338.3	343.2	346.2	351.3	353.3	349.7	356.3	351.1
87.5°	171.5	177.9	174.3	182.7	180.7	189.1	187.3	195.1	193.5	200.3	199.4
90°	87.4	89.5	96.3	98.6	106.4	109.4	111.1	107.4	108.8	105.4	107.0
92.5°	90.0	96.7	102.9	109.2	115.5	121.9	116.0	110.2	104.3	98.5	92.6
95°	122.4	131.7	140.9	150.1	159.2	168.4	158.6	148.7	138.9	129.1	119.1
97.5°	143.9	153.8	163.6	173.5	183.5	193.3	181.6	170.0	158.3	146.8	135.1
100°	203.5	222.7	241.7	260.8	279.9	299.0	277.4	255.5	233.9	212.2	190.3
102.5°	409.9	453.6	497.4	541.2	585.0	628.8	582.7	536.8	490.6	444.5	398.3
105°	765.9	835.9	906.0	976.1	1046.1	1116.5	1041.6	966.9	892.0	817.4	742.5
107.5°	1129.0	1197.2	1265.8	1334.1	1402.4	1471.0	1395.1	1319.3	1243.5	1167.6	1091.7
110°	1337.6	1378.6	1419.8	1460.9	1501.9	1543.2	1487.8	1432.5	1377.1	1321.7	1266.3

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	1377.6	1398.3	1418.7	1439.5	1460.0	1480.7	1441.0	1401.6	1361.8	1322.4	1282.6
115°	1292.8	1299.2	1305.9	1312.5	1318.9	1325.5	1298.8	1272.1	1245.4	1218.7	1191.9
117.5°	1136.4	1135.4	1134.0	1132.9	1131.6	1130.5	1115.6	1100.6	1085.6	1070.6	1055.5
120°	977.9	972.4	966.9	961.3	955.7	950.1	943.7	937.5	930.9	924.5	918.0
122.5°	840.1	836.3	832.4	828.6	824.5	820.6	818.0	815.7	813.0	810.5	807.8
125°	731.2	730.9	730.6	730.4	730.1	729.9	728.5	727.3	725.9	724.6	723.0
127.5°	656.5	659.0	661.1	663.5	665.6	667.9	667.4	667.1	666.7	666.3	665.8
130°	610.0	614.4	618.3	622.4	626.3	630.5	629.6	628.8	628.1	627.2	626.5
132.5°	581.8	586.5	591.3	596.1	600.6	605.4	604.4	603.5	602.3	601.5	600.3
135°	562.4	567.0	571.3	576.0	580.2	584.6	583.3	582.3	580.9	579.8	578.5
137.5°	548.4	552.3	555.7	559.2	562.6	566.1	564.7	563.7	562.2	561.3	559.9
140°	537.8	540.7	543.3	546.2	548.8	551.6	550.0	548.5	546.9	545.4	543.9
142.5°	529.1	531.3	533.2	535.3	537.3	539.4	537.0	535.0	533.0	530.9	528.9
145°	524.2	525.7	526.9	528.2	529.1	530.6	528.1	525.9	523.2	521.0	518.5
147.5°	516.4	517.3	517.8	518.7	519.1	520.0	517.6	515.4	513.1	510.7	508.4
150°	507.6	508.5	509.1	509.7	510.3	511.0	508.5	506.2	503.7	501.3	499.0
152.5°	496.7	497.3	498.0	498.4	499.1	499.5	497.2	495.1	492.8	490.5	488.1
155°	488.7	489.1	489.4	489.8	489.9	490.3	488.2	486.5	484.6	482.8	480.7
157.5°	483.2	483.7	484.0	484.3	484.5	484.7	483.3	481.9	480.4	479.0	477.4
160°	479.8	480.1	480.4	480.6	480.9	481.1	479.9	478.8	477.5	476.2	474.8
162.5°	478.8	479.4	480.0	480.3	480.9	481.4	479.9	478.5	477.1	475.6	474.0
165°	477.8	478.2	478.5	478.8	478.9	479.2	478.2	477.3	476.2	475.3	474.3
167.5°	479.7	480.1	480.3	480.6	480.7	480.9	480.0	479.1	478.0	477.0	475.8
170°	479.8	480.3	480.8	481.2	481.7	481.9	481.2	480.4	479.5	478.8	477.8
172.5°	482.4	482.9	483.1	483.5	483.8	484.2	483.3	482.5	481.7	480.8	479.9
175°	481.2	481.4	481.6	481.6	481.6	481.7	481.0	480.3	479.7	479.0	478.3
177.5°	482.5	482.5	482.5	482.4	482.4	482.4	481.9	481.5	481.1	480.6	480.1
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1	29129.1
2.5°	29312.1	29299.3	29291.1	29280.7	29274.3	29266.2	29260.3	29255.2	29251.1	29247.3	29244.5
5°	29724.2	29658.7	29607.9	29552.8	29507.5	29462.5	29427.6	29398.9	29379.0	29364.1	29355.2
7.5°	30249.0	30129.1	30022.5	29910.1	29809.5	29710.5	29625.2	29551.8	29496.6	29460.8	29439.2
10°	*30717.7*	*30557.1*	*30398.4*	*30231.2*	*30072.8*	*29918.9*	*29777.1*	*29652.4*	*29553.5*	*29487.9*	*29449.6*
12.5°	30927.7	30790.9	30628.8	30447.3	30253.1	30056.6	29865.1	29692.4	29547.5	29450.1	29394.0
15°	30742.7	30686.6	30576.5	30435.6	30251.4	30048.2	29823.3	29612.0	29417.5	29291.4	29218.4
17.5°	30140.9	30219.3	30210.8	30157.0	30024.4	29853.5	29624.3	29386.9	29143.6	28975.1	28883.0
20°	29125.2	29371.5	29496.6	29560.7	29508.7	29397.8	29190.3	28949.4	28665.8	28445.8	28311.6
22.5°	27697.9	28132.8	28403.9	28602.2	28644.4	28606.5	28423.4	28194.2	27878.2	27613.7	27415.4
25°	25860.5	26497.8	26926.2	27262.0	27392.4	27426.1	27270.2	27042.3	26690.0	26381.9	26109.5
27.5°	23696.3	24524.3	25096.3	25547.5	25751.3	25839.6	25696.1	25463.6	25046.8	24679.0	24323.2
30°	21259.8	22242.2	22930.9	23472.0	23720.3	23837.0	23684.5	23425.0	22940.1	22497.5	22049.2
32.5°	18652.0	19727.1	20477.5	21065.1	21311.2	21420.9	21221.5	20930.0	20369.6	19848.1	19325.4
35°	15921.8	17006.8	17763.6	18335.5	18541.8	18607.9	18352.9	18016.0	17395.1	16822.7	16252.7
37.5°	13135.8	14145.3	14833.2	15346.5	15474.1	15485.5	15178.2	14806.2	14153.5	13589.1	13021.8
40°	10374.1	11225.3	11780.7	12191.5	12235.9	12196.3	11862.3	11487.8	10877.2	10371.6	9873.6
42.5°	7772.5	8415.1	8811.3	9092.9	9076.1	8998.1	8691.8	8370.0	7866.2	7481.1	7089.1
45°	5543.7	5967.5	6199.1	6363.9	6311.0	6236.6	5998.2	5772.7	5430.3	5181.6	4918.2
47.5°	3851.3	4357.3	4269.2	4591.4	4313.8	4497.1	4115.4	3905.0	3723.3	3591.2	3442.3
50°	2757.2	2873.2	2929.2	2967.4	2947.1	2918.9	2850.3	2789.1	2706.1	2645.5	2575.1
52.5°	2129.3	2187.3	2219.1	2242.0	2237.5	2227.2	2197.3	2170.0	2131.2	2105.5	2074.7
55°	1803.6	1804.5	1862.9	1837.8	1874.8	1831.5	1848.5	1800.4	1808.2	1767.0	1739.3
57.5°	1498.7	1522.5	1533.2	1543.5	1540.6	1538.8	1527.2	1521.4	1508.4	1504.4	1495.1
60°	1318.3	1330.8	1333.4	1338.1	1334.2	1332.6	1323.6	1320.3	1311.6	1309.9	1303.8
62.5°	1194.7	1201.0	1201.0	1201.0	1195.8	1190.8	1180.8	1175.6	1168.1	1166.5	1162.9
65°	1091.5	1098.0	1099.1	1100.5	1096.7	1092.9	1084.0	1078.2	1070.6	1067.7	1063.5
67.5°	984.9	991.9	994.3	997.9	995.7	994.9	988.9	986.6	981.6	980.4	976.6
70°	901.2	904.1	903.9	903.8	899.1	894.8	887.8	884.4	879.2	878.1	874.7
72.5°	851.5	853.5	852.2	850.3	844.3	838.0	829.7	823.7	816.8	812.5	807.6
75°	781.4	784.1	782.3	781.2	775.7	771.6	765.0	761.6	756.8	755.4	752.0
77.5°	695.3	696.6	693.8	693.5	689.3	686.7	681.7	680.9	677.3	677.4	674.1
80°	599.6	598.8	594.3	593.4	589.2	588.2	584.2	584.5	581.7	582.8	580.6
82.5°	493.4	490.6	484.7	483.0	478.1	477.7	475.1	477.3	475.6	478.1	476.6
85°	353.5	354.4	351.7	351.7	350.3	350.7	350.5	352.1	352.4	354.7	354.6
87.5°	197.1	199.9	199.4	202.0	201.9	204.8	205.8	210.1	210.7	214.6	214.6
90°	103.5	105.4	101.8	103.9	102.3	105.7	104.8	108.2	106.9	109.6	107.3
92.5°	86.8	80.9	75.2	69.3	66.4	63.2	60.7	57.3	54.7	51.5	48.5
95°	109.3	99.5	89.5	79.7	76.3	72.9	69.5	66.1	62.9	59.5	56.1
97.5°	123.5	111.7	100.1	88.4	85.5	82.6	79.6	76.7	73.7	70.8	67.9
100°	168.6	146.9	125.1	103.3	100.9	98.4	95.9	93.5	91.0	88.4	86.0
102.5°	352.2	305.9	259.7	213.6	204.9	196.1	187.3	178.5	169.7	161.0	152.3
105°	667.7	592.7	518.0	443.1	419.3	395.5	371.8	347.9	324.1	300.3	276.6
107.5°	1015.8	939.7	863.8	787.8	743.9	700.0	656.0	612.0	568.1	524.1	480.1
110°	1210.9	1155.4	1099.9	1044.2	1009.0	973.6	938.1	902.7	867.5	831.9	796.4

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

Scaled Data Report

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1242.9	1203.2	1163.5	1123.6	1107.7	1091.5	1075.5	1059.4	1043.4	1027.1	1011.2
115°	1165.0	1138.2	1111.3	1084.2	1078.8	1073.0	1067.4	1061.6	1055.9	1050.1	1044.2
117.5°	1040.5	1025.2	1010.1	995.0	995.9	996.8	997.8	998.5	999.4	1000.0	1000.9
120°	911.5	905.0	898.5	891.9	896.8	901.6	906.5	911.0	915.7	920.2	924.8
122.5°	805.4	802.6	800.1	797.3	803.3	809.0	814.8	820.5	826.1	831.4	837.0
125°	721.8	720.3	719.0	717.4	723.4	729.2	735.0	740.7	746.4	751.8	757.2
127.5°	665.4	665.0	664.6	664.0	668.3	672.4	676.4	680.2	684.3	687.8	691.5
130°	625.6	624.8	624.0	623.1	626.9	630.5	634.3	637.7	641.3	644.4	647.6
132.5°	599.4	598.3	597.4	596.2	599.1	601.6	604.3	606.4	609.0	610.9	613.1
135°	577.4	576.0	574.9	573.5	576.0	578.4	580.9	582.9	585.2	586.9	588.9
137.5°	558.7	557.3	556.1	554.7	557.1	559.2	561.2	563.1	565.0	566.9	568.4
140°	542.4	540.8	539.4	537.7	539.6	541.6	543.5	545.1	546.9	548.3	549.7
142.5°	526.8	524.5	522.8	520.4	521.9	523.2	524.6	525.8	527.0	527.9	528.9
145°	516.1	513.5	511.3	508.8	509.9	510.9	512.0	513.0	513.8	514.4	515.3
147.5°	506.2	503.8	501.4	499.1	500.0	500.8	501.3	501.9	502.7	503.2	503.6
150°	496.5	493.9	491.5	489.0	489.7	490.3	490.7	491.4	492.1	492.3	492.7
152.5°	485.9	483.5	481.1	478.7	479.2	479.7	480.1	480.4	480.9	481.3	481.6
155°	478.8	476.8	474.8	472.7	473.2	473.6	473.8	474.2	474.4	474.7	474.8
157.5°	475.8	474.2	472.8	471.0	471.1	471.3	471.3	471.2	471.3	471.2	471.1
160°	473.6	472.2	470.8	469.4	469.4	469.5	469.5	469.3	469.3	469.1	468.9
162.5°	472.4	470.9	469.2	467.5	467.5	467.7	467.6	467.5	467.4	467.3	467.1
165°	473.2	472.0	470.9	469.6	469.5	469.2	469.1	468.6	468.4	468.1	467.7
167.5°	474.7	473.6	472.4	471.1	471.2	471.3	471.3	471.3	471.2	471.1	471.0
170°	477.0	475.9	475.1	474.1	473.9	473.8	473.5	473.3	472.9	472.8	472.5
172.5°	478.9	478.0	477.1	475.9	475.9	475.8	475.6	475.5	475.2	474.9	474.8
175°	477.5	476.9	476.0	475.4	475.2	475.1	475.0	474.9	474.7	474.6	474.3
177.5°	479.6	479.2	478.6	478.1	477.9	477.9	477.8	477.7	477.7	477.6	477.5
180°	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2	480.2

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	29129.1	29129.1
2.5°	29241.9	29240.4
5°	29350.6	29348.9
7.5°	29433.3	29432.8
10°	*29443.0*	*29448.1*
12.5°	29384.3	29388.4
15°	29212.8	29220.7
17.5°	28884.7	28895.2
20°	28319.7	28330.7
22.5°	27404.7	27409.2
25°	26074.3	26055.5
27.5°	24260.7	24228.2
30°	21955.1	21923.7
32.5°	19206.2	19186.5
35°	16111.9	16099.5
37.5°	12854.1	12828.8
40°	9691.4	9617.8
42.5°	6917.5	6788.2
45°	4780.6	4627.4
47.5°	3337.3	3242.7
50°	2529.6	2499.0
52.5°	2061.2	2054.1
55°	1739.2	1736.0
57.5°	1497.1	1496.0
60°	1307.0	1306.7
62.5°	1165.3	1165.8
65°	1065.4	1065.6
67.5°	977.5	976.9
70°	875.9	875.2
72.5°	806.0	804.8
75°	752.0	751.2
77.5°	675.2	674.0
80°	582.1	580.6
82.5°	478.8	477.1
85°	357.1	357.3
87.5°	218.5	218.4
90°	109.9	107.1
92.5°	45.9	43.2
95°	52.7	49.4
97.5°	65.0	62.1
100°	83.5	81.0
102.5°	143.5	134.8
105°	252.8	229.0
107.5°	436.1	392.2
110°	761.0	725.6

TEST NUMBER: P1444464
CATALOG NUMBER: EHBR1-36-UNV-TA-L830-UPL40

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	994.8	978.7
115°	1038.2	1032.3
117.5°	1001.4	1001.9
120°	929.1	933.6
122.5°	842.1	847.4
125°	762.4	767.6
127.5°	694.9	698.3
130°	650.4	653.4
132.5°	614.9	616.5
135°	590.4	591.9
137.5°	569.6	571.0
140°	550.7	551.8
142.5°	529.6	530.4
145°	515.8	516.3
147.5°	503.6	503.9
150°	492.9	493.2
152.5°	481.6	481.8
155°	474.9	475.0
157.5°	470.8	470.7
160°	468.7	468.5
162.5°	466.9	466.8
165°	467.1	466.8
167.5°	470.8	470.7
170°	472.1	471.9
172.5°	474.5	474.3
175°	474.3	474.2
177.5°	477.5	477.3
180°	480.2	480.2

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: SP1-2506-472-2

Test Date: 07/31/2025

Luminaire Tested: EHBR-60-L830-N

Data in this report applies to families of products including EHBR-60-L830-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

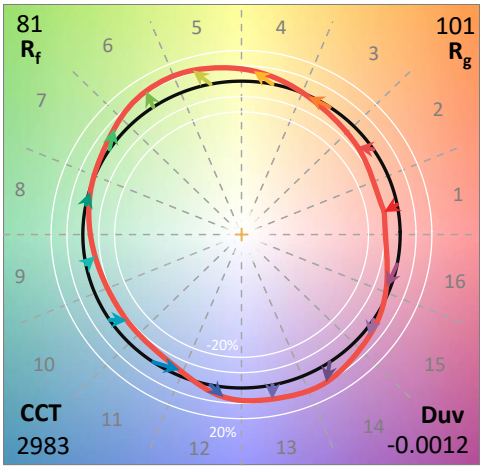
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-2
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-L830-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 80CRI LEDs with N lens

Spectral Parameters

CCT (K):	2983	CRI (Ra):	83.4		
CIE u':	0.2516	R1:	84.0	R9:	29.4
CIE v':	0.5201	R2:	87.5	R10:	68.6
Duv:	-0.0012	R3:	88.9	R11:	82.2
CIE x:	0.4364	R4:	83.8	R12:	61.6
CIE y:	0.4010	R5:	81.9	R13:	83.9
CIE z:	0.1626	R6:	83.1	R14:	92.5
Peak Wavelength (nm):	630	R7:	87.1	R15:	79.8
Dominant Wavelength (nm):	583	R8:	70.9		
Purity:	51.34918				

Rf:	81.2
Rg:	101.5



Test Conditions

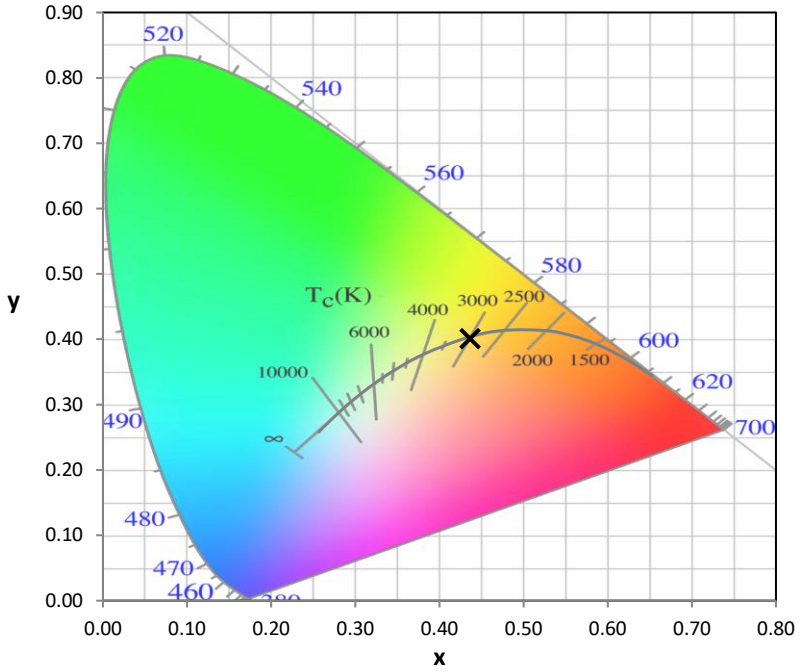
Stabilization Time:	38M
Operation Time:	1H 38M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-2

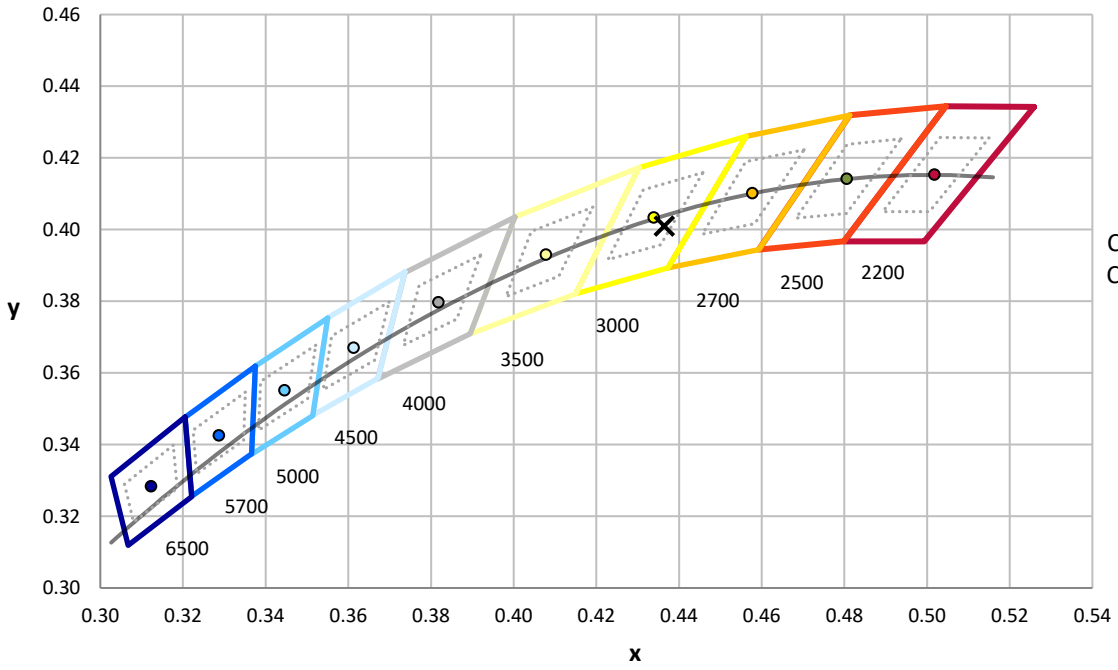
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-2

CIE 1931 Chromaticity Diagram



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

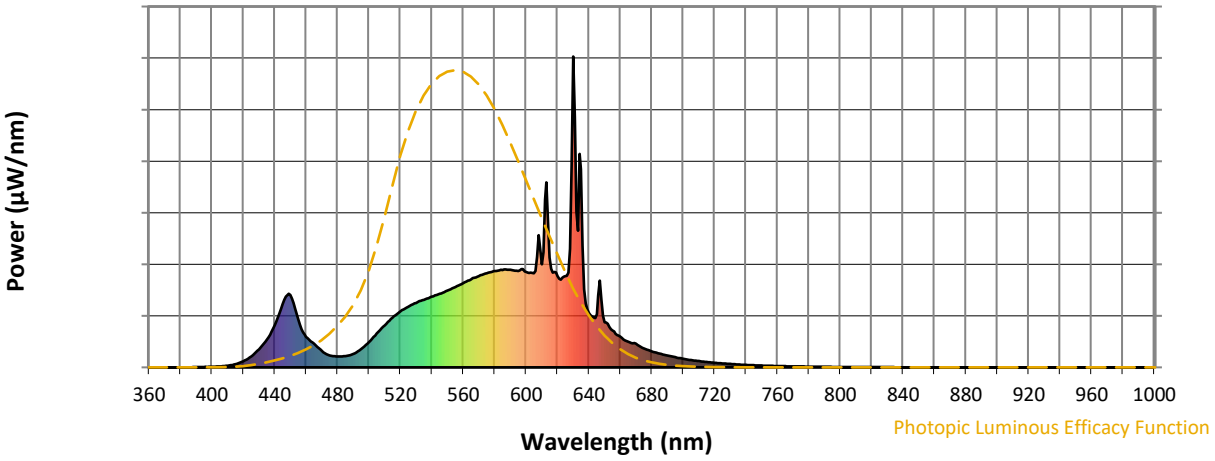


CCT = 2983K
CIE x = 0.4364
CIE y = 0.4010
Duv = -0.0012

Point lies inside the ANSI 3000K 4-step quadrangle

REPORT NUMBER: SP1-2506-472-2

Photopic Flux vs. Wavelength

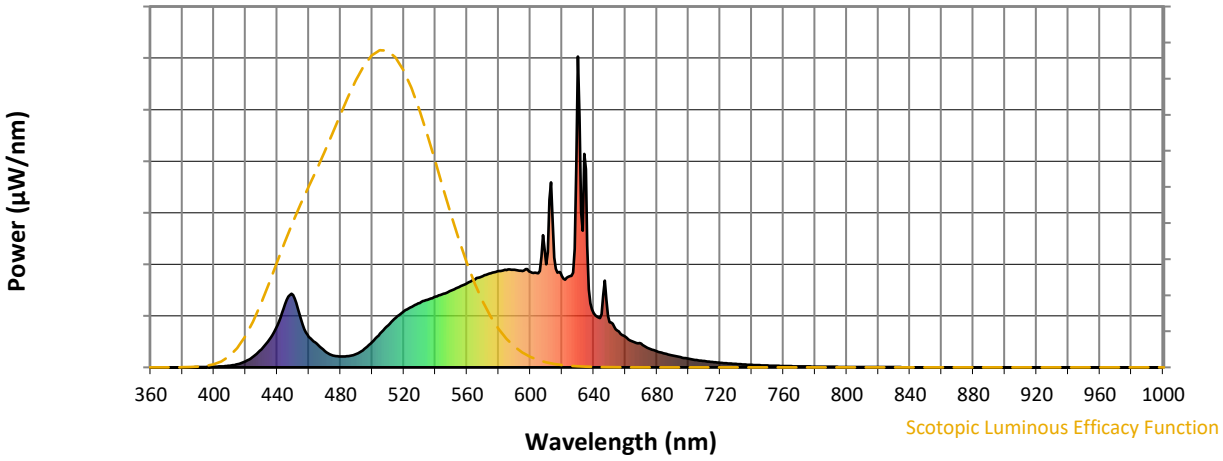


Photopic Lumens: NR

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Scotopic Flux vs. Wavelength

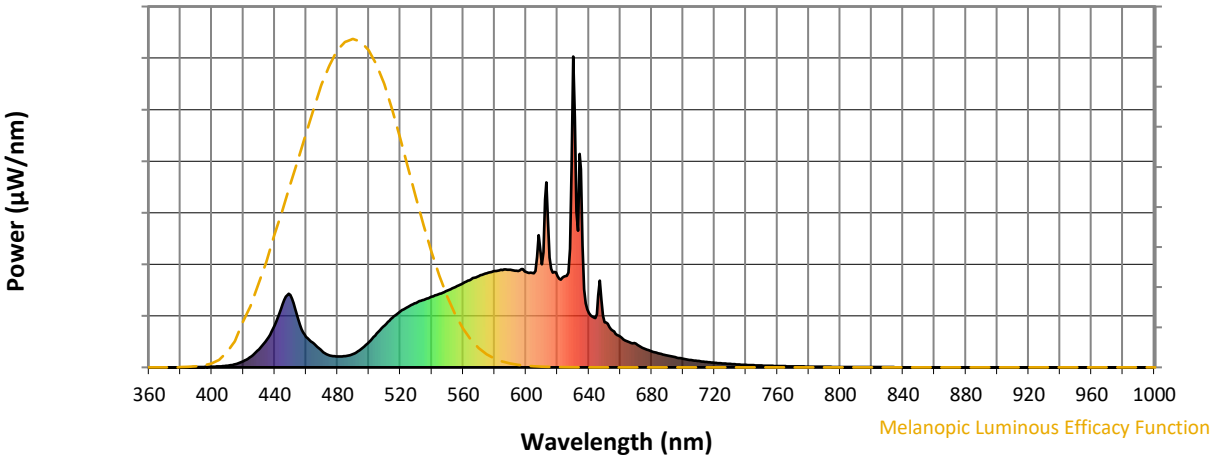


Scotopic Lumens: NR **S/P: 1.27**

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-2

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.34**

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	43	NR	620	294	NR	750	6	NR	880	0	NR
365	0	NR	495	59	NR	625	294	NR	755	5	NR	885	0	NR
370	0	NR	500	81	NR	630	1000	NR	760	4	NR	890	0	NR
375	0	NR	505	109	NR	635	637	NR	765	4	NR	895	0	NR
380	0	NR	510	135	NR	640	175	NR	770	3	NR	900	0	NR
385	0	NR	515	160	NR	645	171	NR	775	3	NR	905	0	NR
390	1	NR	520	180	NR	650	146	NR	780	2	NR	910	0	NR
395	1	NR	525	195	NR	655	119	NR	785	2	NR	915	0	NR
400	2	NR	530	207	NR	660	99	NR	790	2	NR	920	0	NR
405	3	NR	535	218	NR	665	82	NR	795	2	NR	925	0	NR
410	5	NR	540	227	NR	670	76	NR	800	1	NR	930	0	NR
415	10	NR	545	237	NR	675	61	NR	805	1	NR	935	0	NR
420	20	NR	550	247	NR	680	52	NR	810	1	NR	940	0	NR
425	35	NR	555	259	NR	685	44	NR	815	1	NR	945	0	NR
430	58	NR	560	271	NR	690	38	NR	820	1	NR	950	0	NR
435	90	NR	565	283	NR	695	33	NR	825	1	NR	955	0	NR
440	135	NR	570	293	NR	700	27	NR	830	1	NR	960	0	NR
445	204	NR	575	303	NR	705	24	NR	835	1	NR	965	0	NR
450	233	NR	580	310	NR	710	20	NR	840	0	NR	970	0	NR
455	153	NR	585	313	NR	715	17	NR	845	0	NR	975	0	NR
460	98	NR	590	314	NR	720	15	NR	850	0	NR	980	0	NR
465	76	NR	595	310	NR	725	13	NR	855	0	NR	985	0	NR
470	53	NR	600	307	NR	730	11	NR	860	0	NR	990	0	NR
475	39	NR	605	303	NR	735	9	NR	865	0	NR	995	0	NR
480	35	NR	610	331	NR	740	8	NR	870	0	NR	1000	0	NR
485	36	NR	615	353	NR	745	7	NR	875	0	NR			

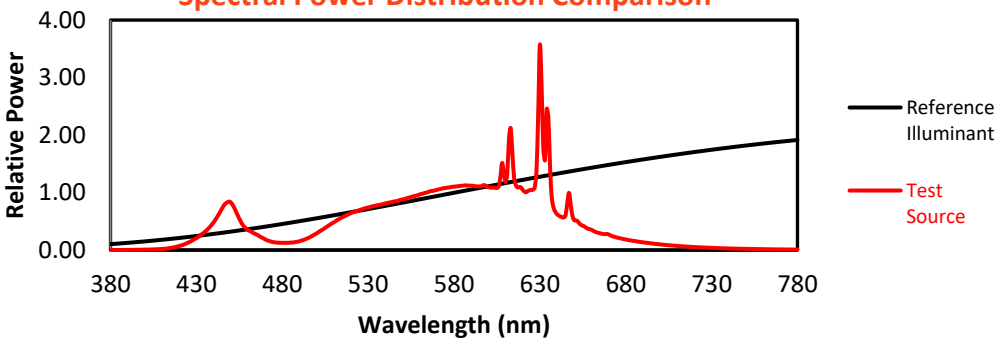
REPORT NUMBER: SP1-2506-472-2

TM-30-18

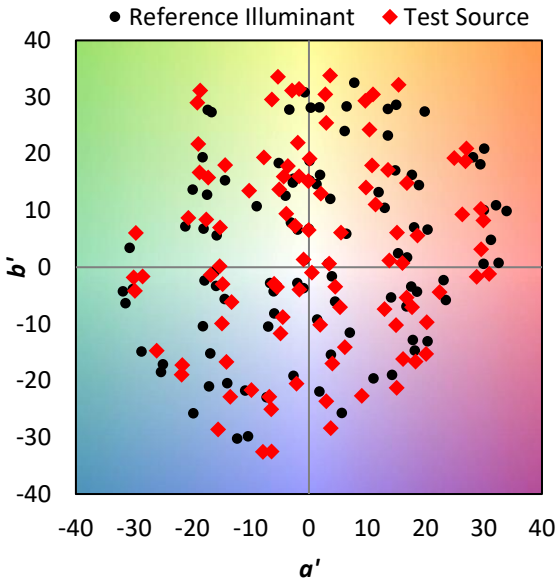
Summary

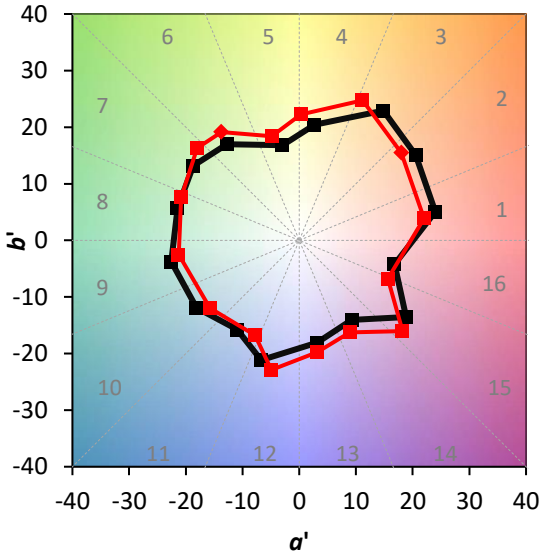
R_f = 81.2
R_g = 101.5
CIE R_a = 83.4
R_9 = 29.4

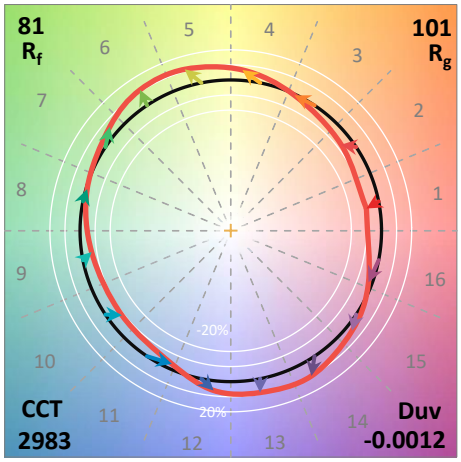
Spectral Power Distribution Comparison

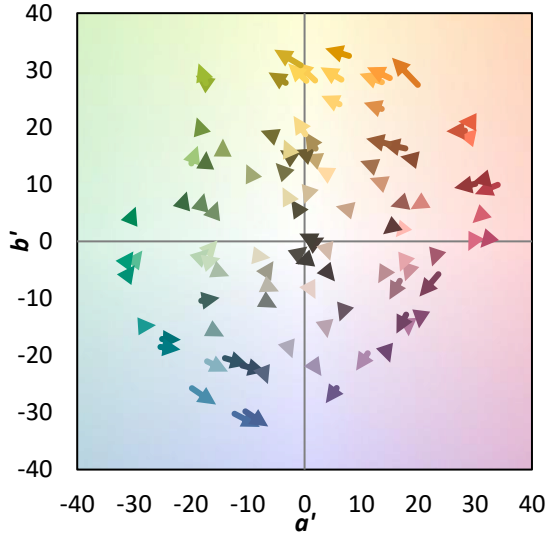


Color Vector Graphics









REPORT NUMBER: SP1-2506-472-2

TM-30-18

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

CES01 = 86	CES26 = 71	CES51 = 89	CES76 = 65
CES02 = 63	CES27 = 89	CES52 = 89	CES77 = 82
CES03 = 31	CES28 = 86	CES53 = 80	CES78 = 67
CES04 = 70	CES29 = 68	CES54 = 92	CES79 = 89
CES05 = 50	CES30 = 77	CES55 = 90	CES80 = 85
CES06 = 51	CES31 = 70	CES56 = 81	CES81 = 75
CES07 = 43	CES32 = 64	CES57 = 79	CES82 = 93
CES08 = 41	CES33 = 74	CES58 = 81	CES83 = 89
CES09 = 29	CES34 = 76	CES59 = 92	CES84 = 91
CES10 = 76	CES35 = 87	CES60 = 96	CES85 = 81
CES11 = 59	CES36 = 99	CES61 = 91	CES86 = 74
CES12 = 65	CES37 = 81	CES62 = 93	CES87 = 83
CES13 = 44	CES38 = 83	CES63 = 79	CES88 = 86
CES14 = 74	CES39 = 94	CES64 = 81	CES89 = 74
CES15 = 72	CES40 = 89	CES65 = 78	CES90 = 85
CES16 = 48	CES41 = 88	CES66 = 76	CES91 = 87
CES17 = 50	CES42 = 80	CES67 = 74	CES92 = 73
CES18 = 57	CES43 = 75	CES68 = 79	CES93 = 84
CES19 = 72	CES44 = 99	CES69 = 83	CES94 = 64
CES20 = 67	CES45 = 83	CES70 = 72	CES95 = 80
CES21 = 87	CES46 = 82	CES71 = 70	CES96 = 86
CES22 = 79	CES47 = 79	CES72 = 90	CES97 = 85
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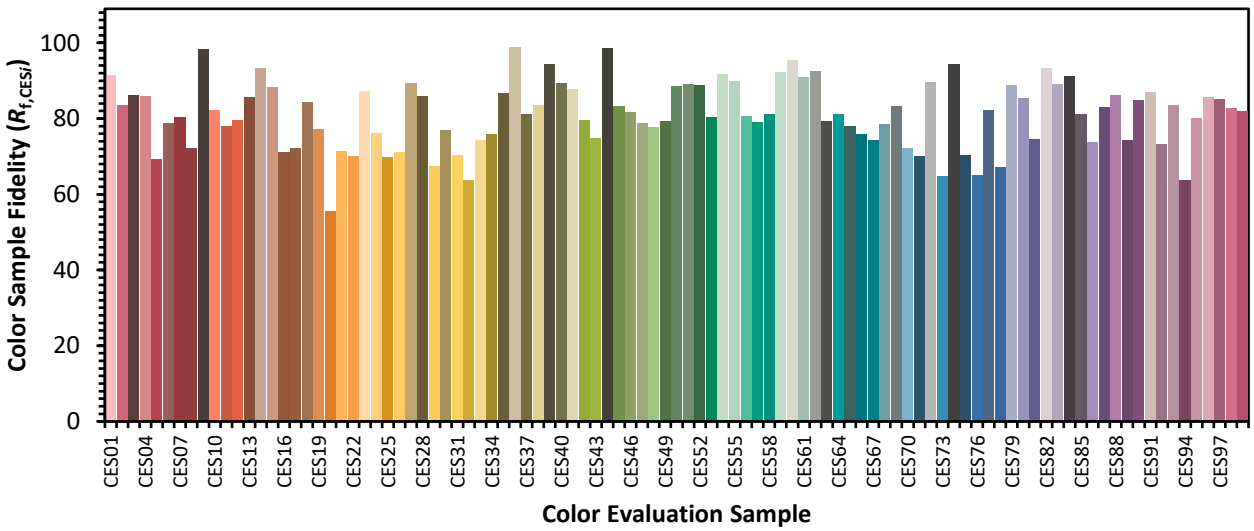

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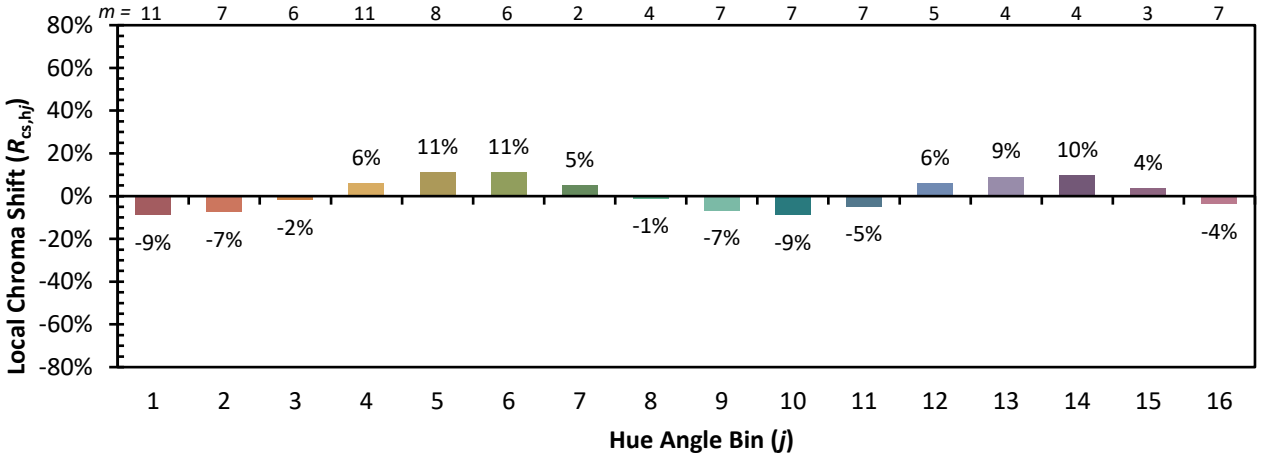
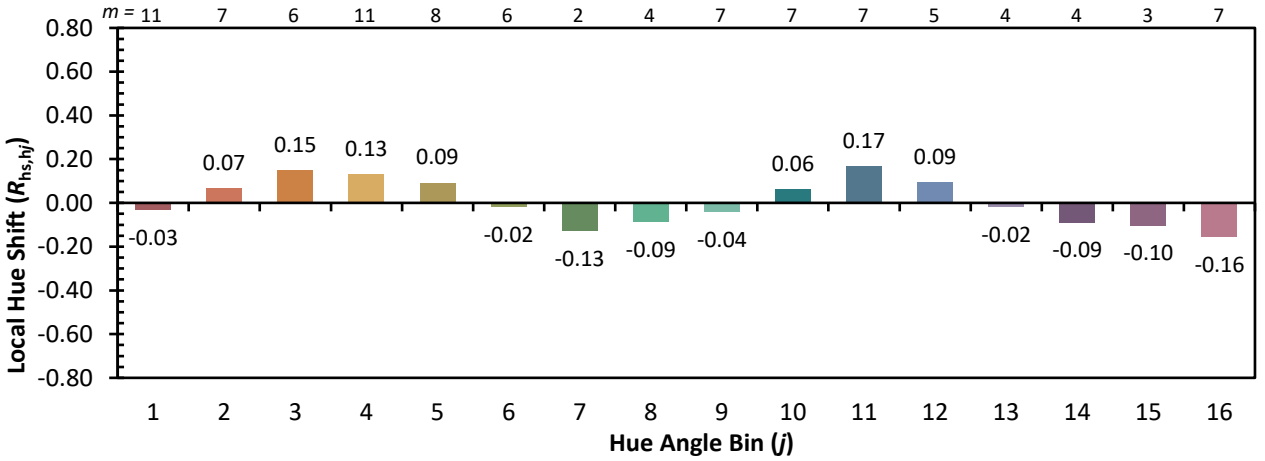
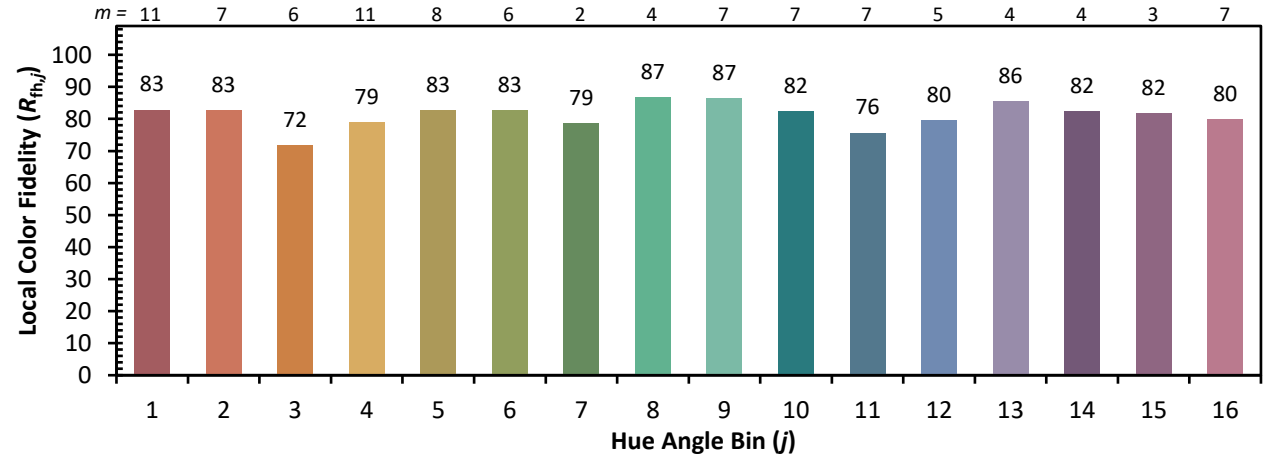
Color Rendition by Hue-Angle Bin







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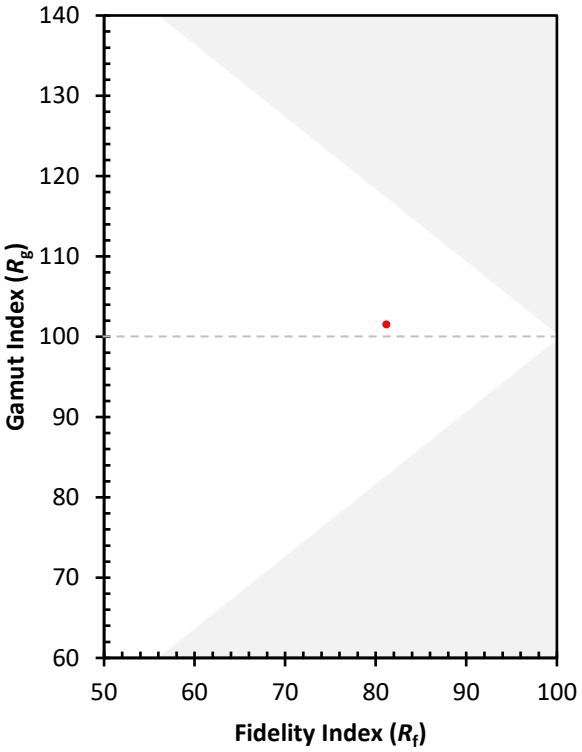
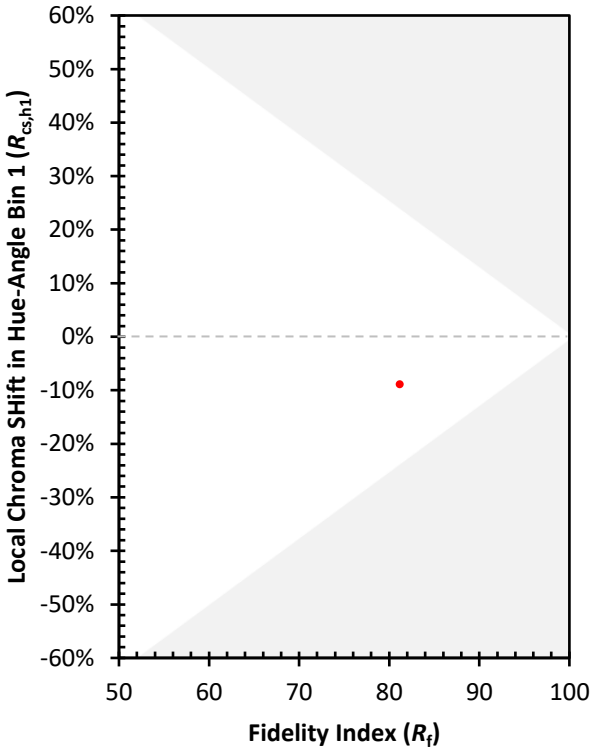
Measure Comparisons





(END OF REPORT)