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: P1444696

Luminaire Tested: EHBR1-48-UNV-TA-L930-UPL40

Issue Date: 5/1/2026

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1444696
	REPORT IS A COMBINATION OF REPORTS P1444360 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	5/1/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-48-UNV-TA-L930-UPL40
Description:	Elevate Round Highbay at, 48000 lumens, 3000K 90CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	45682.5 lumens
Efficiency:	N/A
Efficacy:	158.0 lumens/watt
Spacing Criteria (0/90/45):	1.13 / 0.77 / 0.88
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Direct

Input Watts (W):	289.2
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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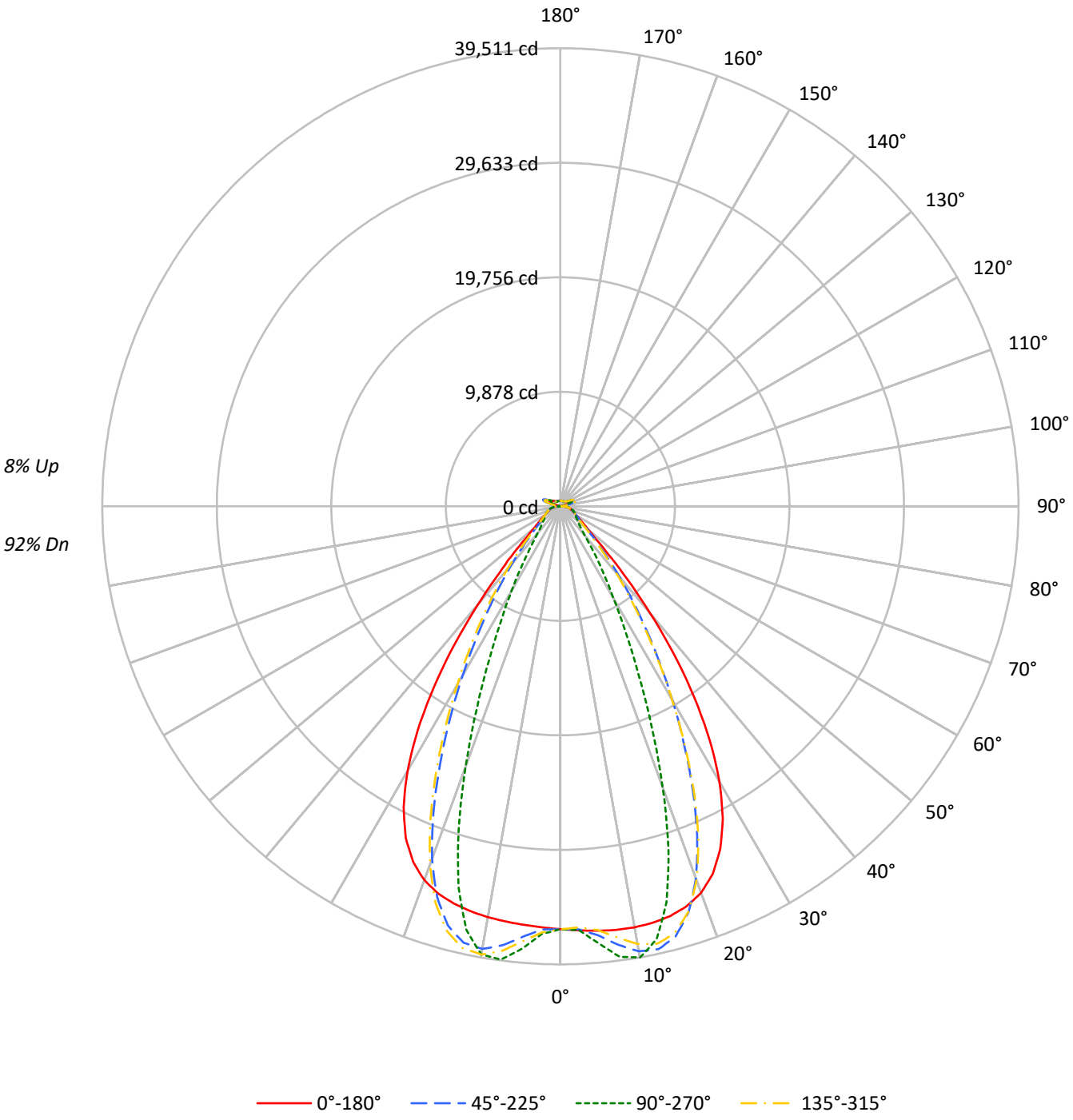
Luminous Intensity Polar Plot



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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	107	107	107	100	100	100	95	95	95	92
1	110	106	103	101	107	103	101	98	98	96	94	93	91	89	88	87	85	83
2	103	97	92	88	100	95	90	87	90	86	83	86	83	80	82	80	78	75
3	97	89	83	79	94	87	82	77	83	79	75	80	76	73	76	73	71	69
4	91	82	76	71	88	80	74	70	77	72	68	74	70	66	71	68	65	63
5	86	76	69	64	83	75	68	64	72	66	62	69	65	61	67	63	60	58
6	81	71	64	59	79	69	63	58	67	61	57	65	60	56	63	58	55	54
7	76	66	59	54	74	65	58	54	63	57	53	61	56	52	59	55	51	50
8	72	62	55	50	70	61	54	50	59	53	49	57	52	49	55	51	48	46
9	68	58	51	47	67	57	51	47	55	50	46	54	49	45	52	48	45	43
10	65	54	48	44	63	54	48	43	52	47	43	51	46	42	50	45	42	40

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	171276	171276	171276	171276
5°	172106	177124	169697	179444
10°	173543	185967	169380	184737
15°	174394	168577	169084	161790
20°	172591	125584	166942	116196
25°	163364	79425	157965	72064
30°	142711	47729	137183	43620
35°	109831	29949	103513	26530
40°	69478	18787	63567	17654
45°	35810	14636	35217	14395
50°	20996	13018	20352	12816
55°	16085	12317	15490	12206
60°	13610	12582	13030	12418
65°	12783	13140	12294	12691
70°	12489	13758	11866	13241
75°	13354	14590	12631	13946
80°	13818	16158	12529	14749
85°	13014	15589	10515	13349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
Vertical Angle: 45°
Luminance: 54802 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3594.4	7.9
10°-20°	10111.4	22.1
20°-30°	11516.1	25.2
30°-40°	8277.3	18.1
40°-50°	3817.5	8.4
50°-60°	1826.8	4.0
60°-70°	1332.9	2.9
70°-80°	1012.7	2.2
80°-90°	466.7	1.0
90°-100°	105.9	0.2
100°-110°	613.3	1.3
110°-120°	1133.2	2.5
120°-130°	692.1	1.5
130°-140°	443.4	1.0
140°-150°	327.6	0.7
150°-160°	227.5	0.5
160°-170°	136.8	0.3
170°-180°	46.8	0.1
0°-30°	25222.0	55.2
0°-40°	33499.3	73.3
0°-60°	39143.5	85.7
0°-90°	41955.9	91.8
90°-120°	1852.4	4.1
90°-150°	3315.5	7.3
90°-180°	3727.0	8.2
0°-180°	45682.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	36472	36472	36472	36472	36472	
5°	36747	37819	36233	38314	36747	3512
15°	36587	35367	35473	33943	36587	10309
25°	32624	15861	31545	14391	32624	14789
35°	20158	5497	18998	4869	20158	12371
45°	5794	2368	5698	2329	5794	4928
55°	2174	1664	2093	1650	2174	2006
65°	1334	1372	1283	1325	1334	1333
75°	941	1028	890	982	941	978
85°	447	536	361	459	447	420
90°	126	158	40	48	126	78
95°	48	54	49	54	48	46
105°	221	285	148	285	221	292
115°	988	1199	1035	1199	988	912
125°	741	779	840	780	741	675
135°	581	516	626	520	581	453
145°	515	500	548	506	515	325
155°	479	482	511	486	479	223
165°	476	476	494	479	476	135
175°	487	492	496	493	487	46
180°	493	493	493	493	493	

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TEST NUMBER: P1444696
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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36611.5	36608.4	36607.9	36605.4	36604.7	36604.7	36603.5	36600.5	36598.6	36594.5	36589.7
5°	36747.3	36745.7	36746.7	36746.9	36744.3	36738.6	36729.7	36718.8	36705.0	36692.0	36680.4
7.5°	36852.4	36854.9	36858.1	36857.4	36849.5	36836.1	36817.9	36807.6	36813.7	36833.5	36879.0
10°	*36871.5*	*36887.2*	*36893.3*	*36891.4*	*36875.4*	*36863.9*	*36868.4*	*36907.1*	*36984.0*	*37086.5*	*37226.9*
12.5°	36796.7	36816.0	36815.3	36809.0	36793.5	36809.2	36865.2	36980.2	37145.1	37347.5	37584.8
15°	36586.9	36611.7	36604.7	36596.4	36586.2	36637.7	36749.4	36949.2	37203.9	37489.2	37781.4
17.5°	36179.3	36209.3	36194.7	36185.4	36176.8	36273.3	36465.3	36757.8	37078.6	37401.4	37678.3
20°	35472.4	35492.6	35457.8	35441.4	35455.2	35644.3	35927.3	36300.8	36638.9	36944.1	37133.3
22.5°	34318.7	34343.7	34278.4	34270.8	34351.5	34641.9	34999.9	35417.5	35735.1	35977.1	36050.0
25°	32623.6	32648.3	32570.7	32617.0	32754.1	33149.8	33576.1	34022.8	34293.8	34473.1	34423.6
27.5°	30335.8	30358.3	30284.7	30379.3	30596.0	31115.8	31617.6	32102.2	32343.7	32469.3	32310.2
30°	27450.3	27496.9	27410.0	27542.1	27872.9	28547.7	29122.6	29666.0	29906.9	30002.4	29754.8
32.5°	24023.2	24089.5	23993.7	24190.2	24651.8	25462.5	26115.5	26722.7	26989.1	27098.2	26818.6
35°	20157.9	20253.0	20143.1	20438.1	21007.3	21910.1	22633.2	23311.1	23626.6	23781.3	23499.4
37.5°	16062.8	16153.5	16094.0	16487.5	17112.5	18048.3	18786.5	19517.7	19874.0	20106.2	19883.9
40°	12042.3	12125.3	12170.3	12620.3	13208.1	14090.2	14799.1	15522.7	15921.3	16212.6	16075.5
42.5°	8499.5	8583.2	8736.2	9170.4	9660.6	10390.7	10998.0	11647.6	12028.3	12339.2	12286.3
45°	5793.9	5891.1	6082.7	6438.3	6792.8	7316.6	7762.5	8267.8	8578.8	8863.5	8866.8
47.5°	4060.1	4128.4	4299.7	4542.4	4773.6	5429.3	5456.2	5704.4	5913.5	6126.3	6153.9
50°	3129.1	3170.1	3260.9	3396.3	3527.2	3697.4	3853.3	4033.2	4161.9	4278.5	4306.3
52.5°	2571.9	2597.9	2644.2	2717.4	2793.5	2886.0	2969.5	3068.2	3138.2	3200.7	3213.8
55°	2173.7	2195.3	2264.1	2278.0	2364.9	2381.7	2418.7	2478.9	2519.6	2557.0	2566.3
57.5°	1873.2	1888.9	1903.5	1934.7	1961.5	2000.3	2031.7	2074.8	2100.5	2127.6	2129.9
60°	1636.1	1647.4	1657.9	1679.5	1697.7	1724.8	1746.4	1775.7	1794.1	1814.4	1816.7
62.5°	1459.7	1467.8	1474.7	1489.0	1502.0	1522.9	1540.0	1564.5	1581.6	1597.3	1600.8
65°	1334.3	1340.2	1344.6	1355.5	1366.8	1384.6	1400.1	1420.1	1432.7	1444.7	1447.3
67.5°	1223.2	1228.8	1233.4	1243.3	1251.2	1264.3	1274.8	1289.8	1299.3	1308.8	1309.1
70°	1095.8	1101.1	1104.6	1113.8	1120.2	1131.5	1139.9	1153.4	1163.1	1173.8	1176.5
72.5°	1007.7	1010.8	1015.5	1023.9	1032.7	1044.9	1056.1	1070.2	1081.9	1093.0	1097.7
75°	940.7	944.3	947.4	954.6	960.6	970.9	979.3	992.1	1002.4	1014.3	1020.1
77.5°	843.9	848.1	850.8	857.9	863.2	873.0	879.3	890.8	899.2	909.9	915.2
80°	726.9	730.8	732.8	739.6	743.7	752.7	758.8	769.9	777.0	787.8	794.1
82.5°	597.3	601.1	602.1	608.6	610.9	618.3	622.7	634.0	642.7	656.8	666.5
85°	447.3	448.6	450.8	449.1	458.2	458.8	469.0	471.0	484.4	488.0	503.4
87.5°	273.5	277.5	279.6	285.8	288.5	294.7	296.6	303.2	306.8	314.4	318.0
90°	126.2	133.1	135.9	144.1	146.7	153.9	156.2	164.3	167.1	175.4	179.7
92.5°	42.5	45.3	47.9	51.2	53.9	57.5	60.7	63.8	66.7	70.1	75.8
95°	48.5	51.7	54.9	58.1	61.3	64.4	67.6	70.8	74.1	77.3	86.4
97.5°	60.8	63.5	66.3	69.1	71.8	74.7	77.4	80.2	83.0	85.5	96.7
100°	79.0	81.3	83.7	86.0	88.3	90.7	93.0	95.4	97.8	100.1	120.7
102.5°	130.5	138.8	147.1	155.4	163.7	172.0	180.4	188.6	196.9	205.2	248.9
105°	220.6	243.0	265.8	288.2	310.8	333.5	356.1	378.4	401.0	423.6	494.8
107.5°	376.3	418.0	459.8	501.7	543.5	585.1	626.9	668.7	710.3	751.9	824.2
110°	694.3	727.7	761.4	795.0	828.5	862.2	895.8	929.1	962.8	996.2	1049.0

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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°	935.9	950.9	966.2	981.4	996.6	1011.6	1026.8	1041.8	1057.2	1072.0	1109.7
115°	987.8	993.1	998.6	1003.7	1009.1	1014.3	1019.6	1024.7	1030.1	1035.1	1060.6
117.5°	960.1	959.1	958.2	957.2	956.0	955.0	954.0	952.7	951.6	950.4	964.7
120°	896.4	891.6	887.0	882.0	877.4	872.5	867.8	862.9	857.9	852.8	859.1
122.5°	815.8	810.1	804.8	798.8	793.2	787.2	781.6	775.3	769.7	763.7	765.9
125°	741.4	735.7	730.3	724.4	718.3	712.5	706.5	700.5	694.6	688.3	689.5
127.5°	677.1	673.2	669.1	664.8	660.6	656.1	651.9	647.3	643.0	638.3	638.6
130°	636.0	632.4	628.8	624.9	621.1	616.9	612.9	608.7	604.8	600.4	600.9
132.5°	602.7	600.2	597.6	594.7	591.9	588.6	585.7	582.3	579.3	576.2	576.7
135°	580.9	578.4	576.2	573.4	570.8	567.7	564.8	561.7	558.8	555.6	556.5
137.5°	562.6	560.3	558.2	555.7	553.2	550.2	547.6	544.8	542.0	539.0	539.8
140°	545.8	544.0	541.8	539.4	537.3	534.7	532.1	529.5	526.8	524.1	525.1
142.5°	526.8	525.1	523.6	521.7	520.0	517.7	515.7	513.3	511.2	508.9	510.4
145°	514.7	513.4	512.1	510.4	508.8	506.8	505.0	502.9	501.2	499.1	500.7
147.5°	504.1	503.0	502.0	500.7	499.4	497.6	496.1	494.4	492.9	491.2	492.9
150°	494.8	493.9	492.9	491.7	490.3	488.8	487.3	485.8	484.2	482.6	484.2
152.5°	484.9	483.8	482.9	481.7	480.5	478.8	477.7	476.1	474.7	473.2	474.6
155°	479.4	478.4	477.2	476.2	474.9	473.6	472.1	470.9	469.5	468.0	469.2
157.5°	476.4	475.4	474.6	473.5	472.7	471.5	470.4	469.4	468.3	467.2	467.9
160°	475.6	474.7	473.8	472.8	471.9	470.6	469.7	468.7	467.8	466.7	467.3
162.5°	475.2	474.2	473.2	472.2	471.3	470.2	469.3	468.4	467.4	466.3	467.1
165°	476.3	475.8	475.2	474.4	473.7	473.1	472.4	471.6	471.0	470.1	470.6
167.5°	481.3	480.5	479.8	479.0	478.0	477.3	476.3	475.5	474.8	473.8	474.4
170°	483.4	482.7	482.4	481.9	481.4	480.9	480.4	479.9	479.3	478.8	479.3
172.5°	486.4	485.8	485.6	485.3	484.8	484.5	484.1	483.7	483.4	482.9	483.6
175°	486.8	486.4	486.3	486.0	485.8	485.5	485.3	485.0	485.0	484.7	485.0
177.5°	490.2	490.0	490.0	489.9	489.9	489.8	489.7	489.4	489.2	489.2	489.6
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

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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°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36586.2	36581.7	36575.7	36567.9	36561.3	36553.6	36535.4	36529.9	36536.0	36540.1	36548.5
5°	36673.1	36675.6	36676.6	36693.2	36707.5	36743.4	37024.0	37135.5	37221.7	37276.5	37359.6
7.5°	36935.2	37019.5	37102.9	37215.1	37311.9	37442.6	37933.6	38142.5	38291.1	38397.9	38529.2
10°	*37379.4*	*37563.5*	*37736.1*	*37938.3*	*38112.2*	*38311.2*	*38768.2*	*38971.8*	*39100.3*	*39193.9*	*39281.2*
12.5°	37826.8	38082.1	38312.8	38537.9	38726.1	38898.7	39059.3	39130.6	39136.7	39139.6	39093.3
15°	38059.8	38303.9	38507.2	38656.0	38766.6	38815.5	38538.8	38393.7	38210.3	38059.1	37810.5
17.5°	37912.7	38059.1	38147.0	38138.4	38092.6	37939.6	37156.0	36724.8	36296.9	35911.3	35405.6
20°	37258.9	37247.7	37171.3	36954.9	36694.2	36288.7	34945.0	34169.8	33420.4	32762.1	31963.5
22.5°	36042.5	35851.2	35584.3	35117.7	34599.3	33890.9	31965.4	30825.1	29781.7	28860.0	27827.4
25°	34280.1	33886.3	33394.1	32653.4	31847.8	30814.5	28441.4	27023.0	25770.3	24683.8	23492.4
27.5°	32024.4	31431.4	30710.1	29684.8	28593.5	27269.8	24638.7	23073.4	21728.6	20563.7	19295.7
30°	29354.0	28582.7	27651.3	26378.8	25062.4	23561.1	20892.6	19307.2	17945.9	16747.5	15478.6
32.5°	26336.3	25432.8	24341.4	22913.2	21489.6	19945.9	17368.8	15834.2	14533.9	13381.0	12232.5
35°	23007.8	22038.9	20884.3	19427.5	18012.5	16511.7	14147.0	12763.3	11615.0	10596.0	9668.6
37.5°	19437.4	18486.1	17388.7	16015.7	14703.5	13343.6	11303.2	10143.7	9180.1	8334.3	7618.2
40°	15725.2	14892.7	13943.2	12756.3	11636.4	10503.8	8828.9	7908.5	7148.1	6503.0	5966.4
42.5°	12058.5	11413.4	10685.2	9747.3	8890.3	8027.9	6738.8	6056.8	5493.6	5029.2	4649.9
45°	8748.8	8317.3	7828.9	7176.9	6583.8	5982.3	5064.8	4585.6	4218.8	3919.4	3666.2
47.5°	6115.9	5865.6	5850.3	5247.7	4812.9	4445.1	3854.0	3551.3	3326.5	3145.1	2984.8
50°	4295.0	4173.9	4023.5	3808.4	3606.6	3398.7	3038.6	2855.6	2723.9	2614.1	2512.7
52.5°	3210.9	3147.9	3067.8	2953.8	2844.3	2727.4	2499.6	2383.1	2341.6	2239.3	2159.1
55°	2564.6	2528.5	2482.9	2415.9	2349.4	2322.8	2127.4	2040.9	1986.2	1945.8	1902.7
57.5°	2130.3	2103.4	2076.4	2030.9	1992.4	1945.8	1842.1	1797.8	1765.2	1741.4	1711.5
60°	1817.1	1801.0	1785.8	1759.2	1738.4	1713.3	1647.4	1622.4	1605.4	1591.1	1572.1
62.5°	1603.8	1595.6	1587.7	1573.5	1563.0	1549.3	1504.3	1492.3	1483.7	1476.6	1464.9
65°	1449.8	1443.9	1439.5	1430.1	1424.8	1416.8	1378.2	1370.1	1364.8	1362.3	1355.5
67.5°	1310.0	1303.7	1300.9	1294.1	1292.0	1287.0	1255.3	1250.9	1249.1	1249.9	1247.5
70°	1179.1	1176.5	1177.9	1176.7	1179.8	1180.7	1161.5	1161.4	1163.4	1167.5	1167.8
72.5°	1100.6	1100.6	1102.2	1102.9	1105.7	1107.1	1091.1	1090.3	1091.2	1094.2	1094.3
75°	1026.1	1027.3	1031.3	1032.7	1036.0	1036.8	1015.6	1013.2	1013.4	1016.2	1015.3
77.5°	922.8	927.2	935.0	939.0	945.5	946.7	923.0	920.3	920.4	923.2	920.8
80°	805.6	814.1	826.4	834.9	845.0	849.0	824.7	818.9	813.4	812.6	807.8
82.5°	681.1	691.5	706.2	714.0	724.7	727.1	686.4	678.7	674.1	674.5	670.0
85°	520.0	527.8	541.2	545.6	552.1	551.6	505.1	485.2	490.6	482.3	488.8
87.5°	326.2	330.8	339.2	340.2	343.4	342.6	295.9	286.7	284.0	284.1	280.7
90°	189.1	194.1	203.3	205.1	211.8	213.1	177.1	174.6	169.7	169.9	163.6
92.5°	81.9	87.5	93.4	99.1	105.0	110.9	112.4	116.8	111.2	105.0	99.5
95°	95.9	105.2	114.6	124.0	133.4	142.8	152.2	161.6	152.8	144.0	135.3
97.5°	107.7	118.9	129.8	141.0	152.0	163.2	174.2	185.4	176.0	166.3	156.9
100°	141.4	162.1	182.6	203.4	223.9	244.6	265.4	286.1	267.9	249.5	231.3
102.5°	292.7	336.7	380.5	424.3	468.1	512.1	556.2	600.1	558.4	516.5	474.7
105°	565.9	637.1	708.2	779.0	850.1	921.3	992.8	1063.9	997.3	930.5	863.9
107.5°	896.2	968.5	1040.4	1112.4	1184.6	1256.7	1329.4	1401.6	1336.4	1271.2	1206.2
110°	1101.7	1154.1	1206.8	1259.4	1311.8	1364.4	1417.9	1470.6	1431.4	1392.2	1353.2

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	1147.2	1184.9	1222.6	1259.9	1297.3	1335.0	1373.8	1411.6	1391.8	1372.0	1352.5
115°	1085.7	1111.3	1136.4	1161.6	1186.9	1212.1	1238.8	1264.5	1258.0	1251.7	1245.4
117.5°	978.7	992.8	1007.0	1021.1	1035.0	1049.0	1065.1	1079.4	1080.3	1081.3	1082.4
120°	864.8	870.8	876.6	882.5	888.2	894.0	902.1	908.4	913.6	918.6	923.8
122.5°	768.1	770.3	772.3	774.5	776.5	778.6	783.3	786.1	789.5	793.0	796.5
125°	690.5	691.4	692.3	693.4	694.0	695.1	699.1	700.5	700.6	700.6	700.7
127.5°	638.6	638.7	638.7	638.8	638.5	638.7	641.9	642.5	640.2	637.8	635.4
130°	601.3	601.6	602.0	602.4	602.9	603.1	607.0	608.2	604.1	599.8	595.7
132.5°	577.1	577.7	578.1	578.9	579.4	579.9	584.1	585.6	580.9	576.0	571.3
135°	557.1	557.9	558.6	559.3	560.0	561.0	565.7	567.4	563.0	558.3	553.8
137.5°	540.2	541.1	541.8	542.8	543.4	544.3	549.6	551.4	547.9	544.0	540.5
140°	526.0	527.0	528.0	529.2	530.0	531.4	537.1	539.2	536.4	533.4	530.4
142.5°	511.5	513.2	514.7	516.4	517.8	519.6	526.2	528.9	526.8	524.4	522.4
145°	502.2	504.2	505.9	507.9	509.7	511.9	519.2	522.4	521.0	519.5	518.0
147.5°	494.0	495.7	497.4	499.1	500.8	503.0	510.7	513.8	513.1	512.0	511.2
150°	485.7	487.5	489.1	490.9	493.0	495.0	503.6	507.1	506.3	505.5	504.7
152.5°	476.0	477.6	479.1	480.8	482.5	484.3	494.6	498.2	497.7	496.7	496.2
155°	470.3	471.4	472.5	473.9	475.1	476.8	487.5	491.2	490.8	490.3	489.8
157.5°	468.7	469.3	470.0	471.0	471.9	472.8	484.1	487.7	487.2	486.8	486.4
160°	467.8	468.4	468.8	469.6	470.2	470.9	482.5	485.8	485.5	485.0	484.5
162.5°	467.8	468.9	469.5	470.4	471.2	472.3	483.9	487.7	487.0	486.4	485.8
165°	471.1	471.4	471.9	472.4	472.8	473.5	484.2	487.4	487.1	486.6	486.1
167.5°	474.8	475.4	475.8	476.5	477.0	477.8	487.9	490.9	490.7	490.0	489.8
170°	479.6	480.2	480.5	481.1	481.7	482.4	490.8	493.2	493.0	492.2	491.7
172.5°	484.1	484.8	485.3	485.9	486.5	487.3	494.4	496.8	496.5	495.9	495.3
175°	485.5	485.8	486.4	487.1	487.5	488.1	493.7	495.4	495.2	494.9	494.7
177.5°	490.0	490.2	490.7	491.1	491.6	491.9	495.3	496.5	496.3	496.3	496.2
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	*36472.1*
2.5°	36550.3	36563.2	36565.0	36580.1	36578.9	36596.7	36593.9	36608.4	36600.0	36612.0	*36601.9*
5°	37408.8	37486.7	37527.4	37603.3	37627.4	37695.4	37714.6	37776.6	37779.2	37828.4	*37817.2*
7.5°	38622.5	38737.3	38805.4	38899.3	38946.9	39025.2	39059.6	39117.5	39136.2	39182.1	*39185.6*
10°	*39347.3*	*39403.0*	*39441.9*	*39468.1*	*39492.1*	*39503.3*	*39516.4*	*39512.8*	*39516.4*	*39511.2*	*39522.5*
12.5°	39062.2	38980.8	38927.0	38825.2	38766.1	38653.4	38598.2	38489.9	38450.6	38357.6	*38344.2*
15°	37618.5	37334.9	37134.6	36843.2	36660.0	36373.3	36205.6	35947.0	35828.8	35623.2	*35569.3*
17.5°	34987.0	34460.6	34053.2	33530.6	33168.0	32679.6	32372.5	31968.2	31746.8	31420.8	*31307.9*
20°	31297.8	30518.9	29907.9	29179.9	28659.0	28009.9	27594.4	27070.3	26766.1	26365.7	*26203.3*
22.5°	26966.5	25996.8	25233.7	24373.7	23745.2	23021.9	22524.1	21957.0	21626.0	21191.0	*20998.4*
25°	22502.2	21433.0	20584.5	19678.4	19014.3	18289.3	17791.3	17234.3	16891.8	16478.9	*16287.4*
27.5°	18232.7	17150.2	16330.3	15487.9	14878.7	14224.5	13775.1	13288.8	12984.8	12632.3	*12452.2*
30°	14464.8	13510.1	12812.4	12113.3	11606.5	11075.2	10701.8	10298.7	10032.0	9730.2	*9558.7*
32.5°	11395.1	10658.0	10111.7	9556.9	9142.2	8698.1	8375.6	8019.9	7779.2	7509.6	*7354.3*
35°	9024.7	8452.0	8016.2	7559.6	7203.3	6825.1	6540.9	6233.9	6017.9	5785.8	*5651.7*
37.5°	7130.5	6675.1	6316.5	5937.2	5644.6	5331.2	5225.6	4873.4	4649.6	4464.4	*4336.1*
40°	5596.0	5233.9	4937.2	4647.1	4408.5	4170.8	3980.1	3791.9	3647.4	3514.9	*3423.3*
42.5°	4370.1	4107.7	3891.0	3678.5	3504.4	3331.3	3193.1	3063.5	2966.2	2879.5	*2820.5*
45°	3474.0	3293.6	3143.0	2993.3	2870.4	2754.9	2661.9	2579.1	2516.3	2464.3	*2427.4*
47.5°	2854.0	2730.5	2624.2	2523.3	2439.9	2364.1	2301.8	2281.5	2213.9	2168.4	*2151.1*
50°	2425.5	2350.9	2270.2	2195.7	2140.0	2084.6	2044.2	2004.5	1979.3	1958.4	*1952.0*
52.5°	2105.7	2048.6	2003.7	1956.6	1919.8	1880.4	1852.5	1826.1	1812.2	1801.3	*1799.9*
55°	1867.9	1828.0	1798.3	1766.7	1744.7	1721.5	1707.1	1693.2	1687.0	1681.5	*1681.9*
57.5°	1688.0	1661.4	1642.0	1621.5	1609.6	1598.5	1594.9	1591.4	1593.3	1594.1	*1597.2*
60°	1556.9	1539.6	1527.4	1515.6	1510.7	1507.2	1509.9	1513.0	1519.3	1524.5	*1529.0*
62.5°	1456.5	1446.6	1440.6	1434.3	1433.8	1434.0	1439.5	1444.7	1452.6	1458.6	*1463.1*
65°	1353.0	1347.4	1345.4	1341.4	1343.5	1344.6	1351.1	1355.2	1363.2	1367.9	*1373.6*
67.5°	1248.6	1247.2	1248.4	1248.4	1252.1	1255.2	1261.4	1266.0	1272.7	1277.1	*1281.7*
70°	1171.4	1171.9	1174.8	1175.3	1179.2	1181.4	1186.8	1189.8	1195.8	1199.5	*1205.0*
72.5°	1096.4	1095.1	1095.8	1094.1	1095.4	1094.9	1097.9	1099.3	1104.5	1107.3	*1114.1*
75°	1016.4	1013.1	1012.2	1008.7	1008.8	1006.2	1007.4	1007.3	1010.6	1012.0	*1016.9*
77.5°	919.9	914.3	911.5	905.5	905.4	903.1	905.5	907.0	913.0	915.7	*921.3*
80°	804.5	795.6	791.6	784.6	785.7	785.4	791.2	795.8	803.0	804.4	*811.4*
82.5°	668.7	659.6	655.3	648.4	650.0	650.2	655.6	656.5	662.8	665.6	*673.7*
85°	478.8	482.3	472.7	473.4	471.3	475.2	478.8	483.4	488.6	497.4	*504.2*
87.5°	282.0	280.7	284.1	284.5	289.4	291.9	299.8	304.2	313.1	319.9	*332.4*
90°	162.2	155.9	157.0	153.8	156.8	153.8	156.8	153.4	157.3	156.5	*161.9*
92.5°	93.0	87.4	81.0	75.3	69.1	63.6	60.3	58.0	54.8	52.6	*49.2*
95°	126.5	117.7	109.0	100.3	91.5	82.8	79.6	76.4	73.2	70.0	*66.8*
97.5°	147.6	138.1	128.8	119.2	109.8	100.4	98.3	96.2	94.0	91.9	*89.7*
100°	213.1	194.9	176.8	158.5	140.4	122.3	120.6	118.9	117.2	115.5	*113.7*
102.5°	433.1	391.4	349.8	308.1	266.5	224.7	217.4	210.1	202.9	195.6	*188.4*
105°	797.0	730.3	663.6	596.9	530.3	463.7	443.8	423.7	403.9	384.0	*364.2*
107.5°	1141.0	1076.0	1011.0	945.9	881.0	815.9	784.5	753.1	721.5	690.1	*658.8*
110°	1313.7	1274.6	1235.7	1196.4	1157.5	1118.5	1088.3	1058.5	1028.4	998.4	*968.5*

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	1332.8	1313.1	1293.4	1273.9	1254.5	1234.8	1220.1	1205.4	1190.9	1176.2	*1161.4*
115°	1238.9	1232.6	1226.3	1220.1	1214.0	1207.7	1206.5	1205.5	1204.3	1203.3	*1202.3*
117.5°	1083.3	1084.3	1085.2	1086.5	1087.5	1088.7	1096.5	1104.0	1111.9	1119.8	*1127.7*
120°	928.8	934.1	939.1	944.3	949.5	954.9	965.0	975.5	985.9	996.6	*1007.3*
122.5°	799.9	803.5	806.8	810.5	814.1	817.8	827.8	838.1	848.4	858.8	*869.5*
125°	700.4	700.4	700.4	700.3	700.3	700.5	708.7	717.1	725.7	734.4	*742.9*
127.5°	632.9	630.2	627.7	625.4	622.7	620.5	625.2	630.1	634.9	640.1	*645.1*
130°	591.4	587.2	582.7	578.6	574.2	570.1	571.8	573.6	575.4	577.4	*579.4*
132.5°	566.3	561.5	556.5	551.5	546.6	541.7	541.4	541.1	540.8	540.8	*540.8*
135°	549.0	544.6	539.7	535.0	530.1	525.6	524.3	522.7	521.5	520.2	*519.2*
137.5°	536.7	532.9	529.1	525.5	521.4	517.8	515.7	514.1	512.1	510.8	*509.0*
140°	527.4	524.4	521.2	518.2	515.1	512.1	510.4	509.0	507.4	506.2	*504.7*
142.5°	519.9	517.7	515.3	513.1	510.7	508.5	506.9	505.5	504.0	502.8	*501.4*
145°	516.5	515.0	513.4	511.9	510.3	508.8	507.4	506.3	505.2	504.1	*503.3*
147.5°	510.2	509.1	508.1	507.1	505.9	504.9	503.9	503.4	502.3	501.8	*501.0*
150°	503.8	502.8	501.8	501.1	499.8	499.0	498.4	498.0	497.3	497.1	*496.5*
152.5°	495.0	494.3	493.4	492.7	491.6	490.8	490.2	489.9	489.5	489.2	*488.6*
155°	489.1	488.6	487.9	487.4	486.6	486.1	485.5	484.8	484.2	483.7	*483.1*
157.5°	485.8	485.3	484.6	484.2	483.4	482.9	482.4	481.8	481.1	480.7	*480.1*
160°	484.0	483.6	482.9	482.4	481.8	481.3	480.4	479.8	478.9	478.4	*477.4*
162.5°	485.0	484.2	483.5	482.8	481.9	481.3	480.7	480.1	479.5	479.0	*478.4*
165°	485.6	485.0	484.5	484.0	483.5	483.0	482.2	481.5	480.7	480.1	*479.2*
167.5°	489.2	488.9	488.3	487.9	487.3	486.7	486.1	485.3	484.6	483.8	*482.9*
170°	491.2	490.4	489.9	489.2	488.6	487.9	487.3	486.5	485.8	485.2	*484.3*
172.5°	494.8	494.5	493.9	493.4	492.6	492.2	491.7	491.1	490.5	489.9	*489.4*
175°	494.6	494.4	494.3	493.9	493.8	493.5	493.2	493.1	492.8	492.7	*492.3*
177.5°	496.2	496.0	496.0	495.7	495.7	495.7	495.3	495.0	494.8	494.4	*494.1*
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	*493.1*

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36612.4	36603.1	36607.6	36590.4	36594.5	36573.8	36571.8	36548.5	36546.2	36524.1	36515.9
5°	37852.0	37831.6	37854.6	37818.8	37825.8	37779.2	37775.3	37715.0	37694.2	37618.7	37586.2
7.5°	39214.4	39206.7	39220.7	39190.8	39189.8	39148.2	39131.0	39077.0	39043.4	38964.3	38913.6
10°	*39512.8*	*39519.9*	*39508.4*	*39511.2*	*39495.0*	*39490.6*	*39473.9*	*39463.4*	*39436.2*	*39415.7*	*39385.4*
12.5°	38273.5	38280.9	38233.6	38263.6	38239.9	38295.3	38290.8	38356.0	38366.0	38448.4	38479.7
15°	35409.2	35400.2	35309.5	35366.6	35336.0	35457.4	35484.5	35647.8	35735.1	35944.8	36073.6
17.5°	31082.0	31058.7	30930.9	31000.5	30965.1	31144.1	31204.1	31465.2	31628.1	31966.0	32206.7
20°	25924.0	25879.2	25729.8	25811.2	25774.8	25978.0	26063.8	26379.3	26589.5	27036.8	27355.1
22.5°	20701.8	20631.1	20484.7	20560.8	20526.3	20737.0	20848.5	21165.2	21405.8	21865.1	22236.7
25°	16012.3	15949.3	15807.8	15861.1	15848.3	16026.4	16125.6	16425.2	16661.6	17099.1	17453.9
27.5°	12213.0	12147.5	12019.6	12057.3	12044.3	12196.1	12289.6	12539.8	12743.3	13111.6	13423.1
30°	9347.2	9268.2	9159.8	9180.6	9171.7	9294.7	9382.0	9592.8	9767.2	10078.4	10346.8
32.5°	7164.7	7085.2	6985.6	6995.4	6982.2	7078.7	7150.6	7333.9	7485.8	7750.5	7984.1
35°	5481.9	5574.8	5362.1	5496.8	5356.5	5562.5	5488.4	5602.9	5733.7	5956.6	6151.4
37.5°	4214.3	4149.6	4094.9	4089.0	4088.7	4136.5	4192.8	4303.1	4418.3	4584.5	4756.1
40°	3339.6	3294.2	3258.8	3256.2	3258.8	3292.8	3334.4	3410.6	3495.0	3614.3	3740.4
42.5°	2769.9	2739.7	2718.4	2716.9	2723.7	2747.7	2776.7	2822.0	2876.9	2954.1	3040.7
45°	2397.3	2380.6	2368.7	2368.0	2371.1	2383.7	2400.4	2428.6	2463.4	2511.6	2566.3
47.5°	2136.0	2131.9	2124.5	2124.7	2121.4	2126.5	2128.4	2144.2	2162.7	2199.1	2270.6
50°	1945.6	1945.6	1940.5	1940.2	1935.4	1935.1	1931.0	1937.2	1945.9	1968.4	1991.3
52.5°	1795.2	1794.7	1789.1	1788.1	1782.9	1782.6	1779.1	1781.6	1782.7	1794.1	1807.8
55°	1677.6	1674.1	1666.8	1664.5	1662.4	1665.5	1664.1	1664.2	1662.7	1667.5	1671.5
57.5°	1593.3	1588.6	1581.8	1579.7	1579.2	1582.7	1582.8	1581.6	1575.3	1571.0	1564.8
60°	1526.4	1521.9	1514.4	1512.5	1513.6	1518.5	1518.2	1514.1	1504.7	1496.5	1486.9
62.5°	1460.9	1459.1	1455.2	1454.7	1453.7	1454.6	1451.2	1446.9	1437.5	1428.8	1418.3
65°	1372.9	1373.9	1371.0	1371.5	1368.1	1367.5	1362.4	1358.2	1348.7	1340.7	1330.1
67.5°	1281.5	1282.3	1279.9	1279.9	1278.2	1278.4	1275.3	1271.4	1263.5	1257.0	1248.7
70°	1206.2	1208.1	1206.8	1207.2	1205.0	1204.2	1199.4	1195.6	1187.4	1181.9	1174.5
72.5°	1116.1	1120.2	1120.0	1121.0	1117.8	1116.1	1110.3	1105.5	1098.2	1093.8	1087.8
75°	1018.8	1024.0	1025.5	1027.8	1023.2	1020.8	1014.5	1010.6	1004.6	1002.0	998.1
77.5°	923.8	929.5	935.1	940.2	932.8	926.2	918.2	912.2	903.4	900.1	894.0
80°	817.1	827.3	839.6	850.0	836.6	823.1	810.0	800.2	788.7	784.0	776.4
82.5°	677.9	688.4	695.4	702.0	692.8	682.9	670.1	661.7	649.2	644.7	635.8
85°	515.0	528.1	532.3	535.8	529.9	524.6	512.7	496.6	488.8	476.5	470.2
87.5°	338.7	346.6	348.1	349.2	345.7	343.1	335.3	327.8	314.4	304.7	292.7
90°	159.8	163.2	158.4	158.5	155.6	157.7	151.8	150.9	141.6	139.2	131.2
92.5°	46.7	43.6	40.9	38.1	41.4	43.7	47.0	49.2	52.5	54.8	58.0
95°	63.6	60.4	57.2	54.0	56.6	59.1	61.7	64.3	66.7	69.3	71.9
97.5°	87.6	85.5	83.3	81.2	82.7	84.2	85.6	87.2	88.7	90.2	91.8
100°	112.0	110.3	108.6	106.9	106.9	106.9	106.9	106.9	106.9	106.9	106.9
102.5°	181.1	173.9	166.6	159.3	164.2	169.1	174.0	178.9	183.9	188.8	193.9
105°	344.3	324.5	304.7	284.8	304.0	323.2	342.4	361.6	380.8	400.3	419.5
107.5°	627.3	595.9	564.5	533.2	568.4	603.3	638.3	673.3	708.3	743.3	778.6
110°	938.6	908.8	878.9	849.1	886.2	923.3	960.5	997.5	1034.8	1071.9	1109.3

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	1146.9	1132.5	1117.9	1103.4	1127.3	1151.2	1175.1	1199.2	1223.2	1247.2	1271.1
115°	1201.3	1200.5	1199.7	1198.8	1210.1	1221.4	1232.7	1244.2	1255.5	1266.8	1278.4
117.5°	1135.6	1143.5	1151.6	1159.7	1163.4	1167.0	1170.8	1174.4	1178.4	1182.1	1185.9
120°	1017.9	1028.5	1039.3	1050.2	1048.7	1047.2	1045.8	1044.3	1043.3	1041.8	1041.0
122.5°	880.1	890.7	901.6	912.3	909.1	905.9	902.8	899.8	896.9	894.0	891.2
125°	751.9	760.8	769.8	778.9	775.6	772.4	769.3	766.6	763.6	760.7	758.1
127.5°	650.6	656.1	661.4	667.1	665.6	664.1	663.1	661.7	660.6	659.6	658.8
130°	581.6	584.0	586.6	589.0	589.4	589.8	590.6	591.4	592.3	593.1	594.3
132.5°	541.3	541.5	542.0	542.5	544.2	545.9	548.1	550.0	552.4	554.5	557.4
135°	518.4	517.7	516.9	516.5	519.1	521.5	524.3	527.2	530.4	533.7	537.0
137.5°	507.9	506.6	505.6	504.5	507.1	509.6	512.4	515.3	518.4	521.6	525.1
140°	503.7	502.6	501.9	500.9	503.5	505.9	508.7	511.5	514.7	517.9	521.2
142.5°	500.4	499.2	498.5	497.8	499.8	502.2	504.9	507.4	510.4	513.1	516.2
145°	502.3	501.5	501.0	500.4	501.9	503.6	505.5	507.5	509.6	511.6	514.2
147.5°	500.5	499.9	499.7	499.2	500.5	501.7	503.0	504.3	506.1	507.6	509.4
150°	496.5	496.0	495.8	495.7	496.5	497.2	498.2	498.9	500.0	501.0	502.4
152.5°	488.6	488.1	488.3	488.0	488.6	489.2	490.1	490.8	491.8	492.6	494.0
155°	482.8	482.4	481.9	481.6	481.7	481.9	482.3	482.5	483.0	483.4	483.8
157.5°	479.8	479.3	479.0	478.5	478.4	478.2	478.3	478.3	478.5	478.3	478.5
160°	476.9	476.1	475.4	474.8	475.0	474.9	475.2	475.1	475.3	475.5	475.8
162.5°	477.9	477.4	477.0	476.5	476.2	475.6	475.3	474.8	474.5	474.3	474.2
165°	478.4	477.7	477.0	476.1	476.0	476.0	475.7	475.5	475.5	475.2	475.2
167.5°	482.4	481.6	480.9	480.1	479.7	478.9	478.5	478.0	477.5	477.0	476.8
170°	483.8	483.1	482.6	482.0	481.7	481.3	481.2	480.8	480.7	480.5	480.5
172.5°	488.8	488.3	487.7	487.3	487.0	486.7	486.6	486.5	486.2	486.2	486.0
175°	492.1	491.8	491.7	491.5	491.1	490.8	490.6	490.4	490.1	489.8	489.6
177.5°	493.7	493.4	493.2	493.0	492.8	492.8	492.8	492.8	492.8	492.7	492.5
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36492.2	36482.6	36457.4	36444.9	36421.6	36409.8	36391.5	36379.8	36365.1	36354.1	36348.4
5°	37503.3	37456.6	37363.2	37305.6	37204.6	37138.0	37037.8	36964.3	36860.7	36784.4	36686.5
7.5°	38818.7	38747.2	38627.4	38536.5	38395.3	38287.3	38128.7	38001.9	37826.8	37681.3	37502.3
10°	*39354.3*	*39312.5*	*39258.8*	*39200.3*	*39122.1*	*39045.4*	*38937.1*	*38826.8*	*38679.7*	*38533.4*	*38342.3*
12.5°	38562.8	38602.1	38679.7	38715.9	38775.3	38795.4	38822.6	38809.8	38785.8	38726.1	38639.4
15°	36321.0	36485.2	36744.7	36924.3	37175.7	37352.5	37586.2	37736.6	37909.9	38013.4	38111.8
17.5°	32633.3	32950.9	33408.9	33774.3	34264.7	34663.5	35152.1	35536.0	35979.3	36319.4	36681.3
20°	27909.9	28354.7	28986.9	29523.8	30234.6	30837.2	31609.3	32256.1	33010.6	33639.6	34318.4
22.5°	22826.3	23349.5	24073.9	24721.5	25570.3	26328.3	27295.7	28150.9	29170.9	30084.7	31095.4
25°	18030.4	18543.3	19281.2	19951.7	20867.9	21703.0	22759.9	23741.0	24924.6	26028.5	27295.7
27.5°	13917.8	14373.3	15021.9	15625.5	16464.7	17284.4	18357.0	19403.2	20666.2	21852.5	23218.1
30°	10748.5	11118.0	11637.7	12123.2	12796.9	13467.4	14422.7	15390.3	16647.1	17876.3	19276.4
32.5°	8329.7	8644.8	9078.7	9472.8	9991.9	10497.4	11201.0	11974.1	13076.6	14254.0	15607.8
35°	6448.1	6717.7	7087.0	7426.5	7853.3	8254.7	8779.7	9331.6	10172.9	11163.3	12374.8
37.5°	5140.8	5250.7	5514.3	5792.4	6147.0	6476.8	6887.4	7295.5	7897.5	8678.9	9668.6
40°	3909.5	4084.0	4298.5	4517.6	4786.1	5050.6	5501.2	5718.1	6114.4	6675.3	7443.5
42.5°	3154.5	3277.2	3428.2	3580.5	3767.6	3951.8	4179.7	4411.9	4708.1	5088.0	5634.4
45°	2639.7	2719.8	2817.1	2918.6	3041.5	3167.2	3319.8	3479.1	3679.9	3913.4	4245.3
47.5°	2295.8	2340.0	2403.6	2472.9	2557.1	2644.2	2743.4	2845.0	2969.7	3108.2	3297.2
50°	2027.4	2064.3	2113.7	2160.0	2218.1	2307.3	2346.7	2402.8	2477.8	2559.4	2665.0
52.5°	1833.2	1857.8	1888.8	1915.3	1952.1	1985.5	2029.3	2068.0	2119.8	2168.8	2237.0
55°	1681.9	1690.8	1708.4	1725.6	1751.0	1773.8	1803.8	1829.2	1862.2	1891.5	1934.6
57.5°	1565.1	1565.9	1574.0	1582.9	1599.3	1613.7	1634.3	1650.9	1673.9	1692.6	1718.4
60°	1481.2	1476.7	1478.3	1481.4	1490.7	1500.0	1513.2	1524.0	1538.5	1549.1	1563.5
62.5°	1411.3	1404.3	1402.7	1401.9	1406.5	1409.8	1417.0	1422.3	1430.5	1435.1	1442.8
65°	1323.1	1314.8	1311.6	1307.7	1309.1	1308.0	1310.8	1310.9	1315.1	1316.0	1320.5
67.5°	1243.1	1236.1	1231.9	1226.8	1224.5	1220.9	1219.3	1215.7	1215.2	1212.2	1211.5
70°	1170.1	1163.3	1159.7	1155.0	1152.6	1147.7	1144.8	1138.8	1135.3	1129.8	1126.7
72.5°	1085.6	1081.8	1080.7	1077.5	1076.6	1073.9	1072.7	1068.5	1066.1	1061.3	1058.7
75°	997.3	994.2	993.9	990.7	990.4	987.1	986.3	981.9	979.5	974.8	972.9
77.5°	892.1	887.5	886.1	882.4	883.3	881.7	883.0	879.6	878.2	873.5	872.0
80°	773.7	767.8	765.3	760.3	761.7	759.4	761.7	761.4	763.2	759.4	758.7
82.5°	633.4	626.9	625.7	622.2	624.5	624.8	629.8	627.1	628.2	624.6	626.1
85°	460.9	456.1	449.3	448.3	444.1	448.5	442.7	446.6	440.2	444.7	438.8
87.5°	285.8	275.7	270.5	263.3	260.6	253.7	250.9	245.9	247.4	245.1	246.4
90°	130.6	123.6	124.3	119.9	121.8	118.3	121.6	119.9	123.9	122.1	126.4
92.5°	60.3	63.1	68.2	73.6	78.5	83.6	88.7	94.1	99.0	104.4	109.3
95°	74.4	77.0	83.9	90.6	97.5	104.4	111.2	118.1	124.9	131.7	138.6
97.5°	93.3	94.8	101.7	108.5	115.3	122.2	128.9	136.1	142.9	149.7	156.6
100°	106.9	107.0	126.5	145.9	165.2	184.8	204.2	223.7	243.3	262.7	282.1
102.5°	198.8	203.7	252.8	301.9	351.0	400.1	449.3	498.6	547.7	597.0	646.2
105°	438.7	458.0	532.8	607.9	682.8	757.8	832.9	908.1	983.0	1058.1	1133.1
107.5°	813.5	848.6	916.4	984.2	1051.8	1119.7	1187.5	1255.3	1323.1	1391.0	1459.1
110°	1146.4	1183.7	1229.1	1274.5	1320.0	1365.4	1410.9	1456.4	1502.1	1547.6	1593.4

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	1295.1	1319.2	1345.7	1372.4	1398.9	1425.5	1452.0	1478.7	1505.5	1532.2	1558.9
115°	1290.0	1301.6	1311.8	1322.4	1332.7	1343.2	1353.6	1364.3	1375.1	1385.6	1396.3
117.5°	1189.8	1193.9	1195.5	1197.3	1199.0	1201.1	1202.9	1205.0	1207.0	1209.2	1211.0
120°	1039.8	1038.6	1037.0	1035.6	1034.0	1032.7	1031.3	1030.0	1028.8	1027.6	1026.2
122.5°	888.4	885.9	884.3	882.9	881.6	880.4	879.3	878.4	877.2	876.2	874.9
125°	755.4	753.0	754.8	756.5	758.4	760.3	762.0	764.3	766.3	768.3	770.4
127.5°	657.8	657.3	661.5	665.8	670.0	674.4	678.8	683.3	687.6	692.3	696.6
130°	595.5	597.0	602.2	607.8	613.2	618.8	624.3	630.1	635.5	641.1	646.6
132.5°	559.7	562.7	567.6	573.1	578.3	583.7	589.1	594.6	599.9	605.5	610.6
135°	540.5	544.2	548.9	553.8	558.7	563.8	568.6	573.8	578.5	583.5	588.3
137.5°	528.4	532.1	536.1	540.0	543.9	548.1	552.2	556.3	560.2	564.3	568.1
140°	524.6	528.3	530.5	533.2	535.5	538.0	540.3	542.9	545.0	547.8	549.9
142.5°	519.3	522.7	524.0	525.7	527.4	529.3	530.9	532.6	534.1	535.7	537.1
145°	516.4	519.0	519.3	519.8	520.2	520.7	521.0	521.5	521.7	522.0	522.2
147.5°	511.2	513.1	512.9	513.1	513.1	513.0	513.0	513.1	512.8	512.9	512.8
150°	503.5	504.9	504.3	504.1	503.5	503.2	502.6	502.4	501.8	501.5	500.9
152.5°	494.8	496.1	495.2	494.9	494.1	493.6	492.9	492.4	491.7	491.2	490.7
155°	484.2	484.7	484.2	484.0	483.6	483.3	482.8	482.8	482.6	482.3	482.1
157.5°	478.5	478.6	478.5	478.2	477.8	477.7	477.6	477.4	477.4	477.6	477.7
160°	475.8	476.1	475.8	475.5	475.3	475.1	474.9	474.9	474.9	475.2	475.2
162.5°	473.7	473.6	473.3	473.0	472.8	472.8	472.7	472.9	472.8	473.0	473.2
165°	475.4	475.6	474.9	474.7	474.4	474.0	473.7	473.6	473.6	473.6	473.6
167.5°	476.4	476.2	476.2	476.4	476.4	476.5	476.7	477.2	477.3	477.8	478.0
170°	480.4	480.5	480.2	480.1	479.9	479.9	479.7	479.7	479.8	479.8	479.7
172.5°	486.0	486.0	485.6	485.1	484.8	484.5	484.1	483.9	483.5	483.2	482.7
175°	489.2	489.1	488.9	488.6	488.4	488.0	487.8	487.3	487.1	486.8	486.7
177.5°	492.4	492.2	492.0	492.0	491.9	491.7	491.7	491.6	491.6	491.6	491.4
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

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Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36341.1	36340.7	36337.2	36338.8	36339.5	36342.1	36345.2	36348.4	36349.1	36351.6	36352.2
5°	36613.1	36523.2	36456.7	36383.5	36328.5	36279.1	36246.1	36219.9	36209.7	36212.3	36218.4
7.5°	37350.6	37165.0	37011.9	36837.7	36692.6	36538.8	36411.4	36290.3	36202.0	36136.2	36099.4
10°	*38159.8*	*37933.8*	*37717.6*	*37465.6*	*37226.6*	*36971.6*	*36740.5*	*36507.9*	*36313.9*	*36145.5*	*36021.8*
12.5°	38519.0	38359.2	38172.3	37934.5	37678.8	37384.4	37087.3	36768.7	36472.4	36197.3	35975.5
15°	38138.7	38139.0	38070.9	37956.8	37779.2	37544.0	37260.8	36928.7	36579.1	36222.4	35896.5
17.5°	36931.7	37159.4	37286.1	37366.3	37341.7	37255.0	37074.8	36819.7	36493.8	36113.9	35716.2
20°	34858.9	35396.0	35779.0	36123.4	36316.4	36444.7	36431.8	36328.0	36096.0	35772.8	35358.7
22.5°	31955.1	32856.7	33568.1	34231.5	34696.8	35075.2	35255.2	35331.5	35226.4	35001.3	34612.4
25°	28428.2	29654.1	30700.2	31715.5	32477.0	33131.5	33524.8	33802.0	33824.0	33706.4	33359.4
27.5°	24509.3	25956.3	27280.3	28629.5	29700.5	30641.4	31258.8	31710.6	31854.1	31835.2	31520.1
30°	20595.3	22114.3	23573.8	25147.1	26472.4	27674.4	28489.9	29101.0	29336.5	29381.7	29078.6
32.5°	16898.9	18396.9	19852.3	21497.1	22955.5	24333.2	25296.7	26022.5	26296.4	26360.9	26028.5
35°	13544.3	14926.3	16309.4	17903.5	19353.5	20780.1	21795.3	22555.3	22811.0	22854.2	22469.3
37.5°	10635.2	11812.7	13017.9	14448.2	15779.8	17119.6	18084.2	18798.3	18984.7	18973.2	18537.6
40°	8185.7	9101.1	10069.5	11247.1	12354.1	13486.7	14301.3	14891.6	14989.5	14917.0	14459.5
42.5°	6155.3	6816.3	7518.5	8397.5	9218.8	10066.5	10659.1	11097.4	11111.3	10996.7	10586.1
45°	4585.6	5230.6	5525.1	6056.5	6585.6	7149.3	7511.1	7781.9	7740.0	7639.1	7327.0
47.5°	3495.8	3743.7	4006.6	4336.1	4644.3	5283.9	5236.5	5671.3	5358.2	5571.7	5101.6
50°	2776.0	2914.6	3056.2	3231.1	3392.1	3559.3	3663.7	3741.8	3731.6	3698.1	3608.1
52.5°	2361.7	2404.6	2474.2	2573.8	2663.6	2754.1	2813.6	2862.0	2862.9	2849.4	2803.8
55°	1973.9	2028.2	2078.4	2143.4	2254.1	2271.2	2356.4	2339.2	2345.8	2322.2	2346.5
57.5°	1740.3	1771.9	1800.2	1838.9	1870.9	1908.2	1930.2	1951.4	1949.5	1944.8	1921.6
60°	1574.8	1592.3	1608.0	1630.5	1648.2	1669.2	1679.4	1690.1	1686.7	1678.8	1658.1
62.5°	1447.3	1458.2	1467.2	1481.7	1492.4	1505.5	1510.8	1515.4	1510.8	1503.4	1485.1
65°	1321.4	1328.4	1334.1	1345.1	1352.7	1363.9	1368.3	1372.6	1368.4	1362.6	1348.7
67.5°	1207.9	1208.6	1208.0	1212.5	1214.8	1221.6	1223.5	1226.7	1221.8	1216.8	1205.0
70°	1121.8	1120.0	1117.8	1119.6	1120.0	1123.3	1123.8	1123.3	1117.5	1108.8	1095.9
72.5°	1054.5	1053.5	1051.9	1053.4	1053.4	1056.4	1055.4	1054.0	1046.7	1038.4	1025.7
75°	968.0	967.2	964.0	964.1	961.5	962.4	958.9	956.9	948.9	941.8	930.5
77.5°	866.7	865.1	860.4	858.6	853.4	851.3	844.7	841.4	833.3	827.6	817.9
80°	753.7	751.9	745.9	742.5	734.4	729.2	719.5	714.0	704.6	699.1	689.7
82.5°	623.0	623.7	617.6	613.4	601.8	592.9	579.9	572.8	562.6	557.1	547.4
85°	443.1	436.7	440.1	439.9	432.6	424.8	414.3	406.9	398.3	393.1	386.2
87.5°	243.0	244.5	242.7	241.3	236.2	232.2	223.9	219.7	213.3	210.2	205.1
90°	117.3	114.4	105.7	102.9	94.3	89.4	79.8	75.7	66.8	64.7	59.2
92.5°	103.5	97.8	92.2	86.2	80.7	74.9	69.2	63.4	57.7	55.4	53.8
95°	130.3	122.1	113.8	105.4	97.1	88.8	80.6	72.2	63.9	62.2	60.5
97.5°	146.9	137.1	127.3	117.6	107.7	97.9	88.2	78.4	68.6	67.5	66.5
100°	259.6	237.1	214.6	192.0	169.4	146.8	124.4	101.8	79.3	78.1	76.7
102.5°	591.4	536.6	481.9	427.3	372.7	317.9	263.2	208.3	153.6	145.7	137.9
105°	1050.3	967.3	884.8	801.8	719.1	636.1	553.4	470.3	387.6	361.0	334.4
107.5°	1381.3	1303.3	1225.6	1147.8	1069.9	992.2	914.2	836.2	758.4	711.5	664.7
110°	1531.5	1469.8	1408.2	1346.3	1284.7	1222.8	1161.0	1099.2	1037.4	997.0	956.9

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	1513.8	1468.5	1423.6	1378.2	1333.1	1287.7	1242.6	1197.2	1151.8	1127.4	1102.9
115°	1369.3	1342.1	1315.0	1287.8	1260.6	1233.4	1206.2	1178.7	1151.4	1138.6	1125.7
117.5°	1197.4	1183.5	1169.9	1156.1	1142.3	1128.3	1114.5	1100.5	1086.5	1082.1	1077.7
120°	1022.6	1018.5	1014.3	1010.2	1006.1	1002.0	997.8	993.5	989.2	989.9	990.6
122.5°	877.0	878.7	880.6	882.1	884.1	885.6	887.6	888.9	890.6	894.2	897.7
125°	774.7	778.9	783.1	787.3	791.3	795.5	799.8	803.7	808.0	811.4	815.2
127.5°	701.6	706.1	711.0	715.6	720.4	725.0	729.8	734.1	738.8	742.1	745.7
130°	651.0	654.9	659.3	663.2	667.4	671.4	675.5	679.6	683.7	686.4	689.1
132.5°	614.4	618.2	621.9	625.4	629.3	632.9	636.6	640.3	644.2	646.2	648.3
135°	591.4	593.9	596.9	599.6	602.7	605.3	608.2	611.1	614.2	615.5	617.2
137.5°	570.4	572.7	575.2	577.5	580.0	582.3	584.9	587.3	590.0	590.6	591.8
140°	552.4	554.8	557.2	559.7	562.3	564.7	567.6	570.2	573.0	573.8	574.8
142.5°	539.1	540.9	542.9	544.8	546.9	548.8	551.0	553.3	555.6	556.5	557.4
145°	524.5	526.7	529.0	531.2	533.4	535.8	538.6	541.1	543.9	544.4	545.2
147.5°	514.5	516.4	518.5	520.4	522.6	524.5	526.9	529.2	531.7	532.3	532.9
150°	503.0	505.0	507.0	509.0	511.3	513.7	516.1	518.5	521.4	522.3	523.1
152.5°	492.8	494.8	497.1	499.5	502.0	504.5	507.1	509.7	512.5	513.3	514.2
155°	484.3	486.3	488.7	491.0	493.6	495.8	498.5	501.0	503.7	504.7	505.6
157.5°	479.7	481.5	483.5	485.8	487.9	490.1	492.5	494.7	497.2	498.0	498.8
160°	477.0	478.7	480.7	482.6	484.6	486.6	488.6	490.6	492.6	493.5	494.3
162.5°	475.0	476.9	478.8	480.5	482.6	484.5	486.6	488.5	490.6	491.2	492.0
165°	475.0	476.3	477.8	479.1	480.7	481.8	483.5	484.9	486.6	487.2	488.3
167.5°	479.3	480.2	481.2	482.3	483.6	484.7	485.9	487.0	488.3	489.1	489.9
170°	480.8	481.7	482.6	483.5	484.7	485.7	486.7	487.6	489.0	489.5	490.3
172.5°	483.4	483.9	484.7	485.2	485.9	486.6	487.3	488.1	488.8	489.6	490.3
175°	487.1	487.4	487.7	488.0	488.3	488.7	489.1	489.7	489.9	490.6	491.1
177.5°	491.6	491.8	492.0	492.2	492.7	492.9	493.2	493.4	493.8	494.4	495.1
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36351.0	36350.5	36349.4	36347.7	36346.1	36347.1	36348.7	36352.9	36360.2	36370.7	36384.5
5°	36223.4	36230.8	36235.0	36235.5	36231.8	36229.4	36233.0	36243.0	36263.1	36296.9	36342.6
7.5°	36089.5	36098.7	36112.8	36123.4	36125.4	36122.8	36123.4	36139.0	36176.2	36242.0	36334.3
10°	*35946.7*	*35919.5*	*35933.9*	*35960.1*	*35980.9*	*35984.6*	*35987.2*	*36005.8*	*36060.1*	*36159.6*	*36307.9*
12.5°	35814.8	35728.8	35712.1	35735.8	35767.5	35777.5	35774.8	35782.7	35846.4	35978.1	36184.7
15°	35641.2	35479.4	35424.1	35430.2	35469.3	35483.3	35473.0	35457.4	35519.4	35680.1	35947.7
17.5°	35360.3	35099.5	34997.8	34993.3	35039.1	35051.2	35026.0	34977.4	35038.5	35239.0	35571.2
20°	34933.3	34548.2	34356.8	34326.4	34376.1	34361.5	34311.4	34237.8	34318.1	34562.0	34957.0
22.5°	34165.7	33677.8	33350.7	33245.3	33304.6	33265.1	33191.9	33098.0	33204.7	33481.7	33921.6
25°	32911.3	32347.6	31899.8	31648.7	31696.0	31625.0	31545.4	31431.6	31558.8	31876.9	32361.0
27.5°	31067.6	30416.4	29861.6	29445.8	29461.1	29368.1	29276.4	29129.1	29287.9	29664.4	30210.5
30°	28615.9	27862.3	27186.7	26621.7	26571.2	26481.0	26387.1	26193.8	26392.5	26843.2	27481.3
32.5°	25537.0	24700.2	23919.7	23205.3	23070.5	22982.6	22898.9	22676.4	22936.6	23462.0	24195.1
35°	21936.3	21045.1	20198.7	19382.8	19159.5	19071.5	18998.4	18785.2	19109.9	19681.7	20473.5
37.5°	17984.1	17073.6	16233.3	15396.7	15081.2	14961.8	14908.7	14769.0	15143.7	15709.2	16504.3
40°	13926.7	13080.1	12326.9	11587.8	11228.2	11045.6	11017.7	10992.3	11354.5	11845.1	12566.8
42.5°	10131.1	9448.1	8867.3	8302.4	7976.5	7727.2	7727.0	7802.7	8128.7	8496.2	9052.7
45°	7008.0	6549.7	6179.6	5802.2	5903.0	5405.8	5697.9	5548.1	5709.2	5946.1	6308.0
47.5°	4817.3	4567.1	4363.8	4153.0	3999.3	3852.5	3865.3	3960.0	4111.7	4252.3	4440.6
50°	3511.0	3383.6	3280.0	3170.6	3094.0	3029.2	3033.1	3074.1	3153.7	3227.9	3326.4
52.5°	2751.1	2680.8	2624.6	2564.1	2523.9	2491.7	2493.5	2513.4	2556.5	2598.7	2655.2
55°	2267.6	2259.1	2186.0	2131.6	2110.9	2089.4	2093.3	2101.0	2130.4	2155.1	2192.6
57.5°	1900.2	1867.4	1845.5	1816.9	1803.7	1788.6	1792.0	1794.9	1814.5	1831.1	1858.0
60°	1640.9	1617.6	1602.0	1582.6	1573.9	1564.3	1566.4	1568.2	1580.8	1591.7	1610.9
62.5°	1468.5	1447.7	1434.1	1419.1	1413.1	1406.6	1408.1	1408.6	1416.5	1424.4	1439.0
65°	1336.3	1319.8	1308.5	1295.6	1289.2	1282.5	1283.2	1283.2	1289.8	1295.6	1306.6
67.5°	1196.5	1184.1	1176.7	1166.5	1162.2	1155.3	1155.2	1153.0	1157.3	1159.6	1167.0
70°	1084.3	1071.8	1062.4	1052.5	1047.2	1041.1	1041.2	1041.4	1046.4	1051.6	1061.3
72.5°	1015.0	1003.0	994.7	986.0	981.0	975.8	974.8	974.3	977.9	980.8	987.1
75°	923.2	913.6	908.8	900.7	896.6	890.8	889.8	887.1	888.9	889.4	894.2
77.5°	811.8	802.7	798.8	790.6	787.2	780.6	780.1	777.1	778.4	777.5	781.2
80°	684.9	676.6	674.5	667.7	666.1	660.1	659.1	655.4	656.5	653.7	655.1
82.5°	543.2	535.7	534.1	527.8	527.8	522.3	522.0	516.5	516.5	511.8	504.2
85°	382.7	377.1	374.8	369.7	368.2	363.8	361.4	356.2	354.3	350.9	349.9
87.5°	201.9	198.5	195.3	192.9	188.4	180.5	179.7	174.2	174.7	170.7	171.0
90°	57.7	52.6	51.2	46.4	44.9	41.3	39.9	40.5	41.8	42.4	43.8
92.5°	51.9	50.0	48.0	46.2	44.2	42.3	40.4	42.3	44.2	46.2	48.0
95°	58.8	57.1	55.3	53.6	52.0	50.3	48.6	50.3	52.0	53.8	55.5
97.5°	65.4	64.3	63.3	62.2	61.1	60.1	59.0	60.2	61.3	62.4	63.4
100°	75.5	74.2	72.9	71.6	70.4	69.1	67.8	69.3	70.7	71.9	73.2
102.5°	130.0	122.2	114.2	106.4	98.5	90.6	82.7	90.6	98.5	106.6	114.4
105°	307.6	281.2	254.5	227.9	201.1	174.5	147.8	174.6	201.2	228.0	254.8
107.5°	617.8	571.1	524.2	477.3	430.3	383.5	336.5	383.6	430.6	477.5	524.4
110°	916.4	875.9	835.6	795.2	754.6	714.2	673.7	714.3	754.9	795.4	836.0

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Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	1078.4	1053.9	1029.2	1004.8	980.1	955.6	930.8	955.8	980.6	1005.4	1030.1
115°	1112.9	1099.9	1087.2	1074.2	1061.1	1048.1	1034.9	1048.5	1061.8	1075.0	1088.3
117.5°	1073.1	1068.8	1064.2	1059.7	1055.1	1050.6	1045.8	1050.8	1055.7	1060.9	1065.5
120°	990.9	991.7	992.3	992.7	993.3	993.6	993.9	994.2	994.2	994.2	994.1
122.5°	901.2	904.8	908.2	911.6	914.9	918.2	921.3	918.8	916.0	913.3	910.3
125°	818.7	822.5	826.1	829.7	832.9	836.5	839.5	837.2	834.5	831.7	828.7
127.5°	749.0	752.2	755.5	758.9	761.7	764.8	767.5	765.6	763.2	760.9	758.3
130°	691.5	694.4	696.7	699.3	701.4	703.6	705.5	704.4	702.8	701.7	699.8
132.5°	650.3	652.5	654.5	656.3	657.8	659.6	660.8	660.4	659.6	658.9	657.7
135°	618.7	620.1	621.5	623.1	624.1	625.1	625.8	626.1	625.8	625.7	625.0
137.5°	592.6	593.6	594.3	595.0	595.5	595.8	595.9	596.8	597.2	598.0	598.0
140°	575.7	576.7	577.5	578.1	578.8	579.3	579.3	580.3	580.8	581.1	581.1
142.5°	558.4	559.3	560.1	560.9	561.3	561.8	561.9	562.8	563.2	563.6	563.7
145°	545.9	546.4	547.0	547.6	547.8	548.0	547.7	548.9	549.6	550.2	550.6
147.5°	533.4	534.2	534.4	534.9	535.0	535.3	535.2	536.1	536.8	537.4	538.0
150°	524.1	525.1	525.7	526.5	527.1	527.6	527.6	528.4	528.7	529.1	529.1
152.5°	515.0	515.8	516.4	517.0	517.7	518.0	518.2	518.8	519.4	519.9	520.1
155°	506.5	507.4	508.2	509.0	509.6	510.3	510.8	511.3	511.8	512.0	512.3
157.5°	499.6	500.6	501.2	502.0	502.5	503.4	503.9	504.6	505.0	505.5	505.8
160°	494.9	495.9	496.5	497.3	498.0	498.6	499.1	499.8	500.4	500.7	501.4
162.5°	492.7	493.5	494.0	494.8	495.4	496.1	496.6	497.3	497.9	498.4	498.8
165°	489.1	490.0	490.8	491.7	492.5	493.5	494.1	494.6	494.8	495.1	495.2
167.5°	490.6	491.5	492.1	493.0	493.6	494.6	495.3	495.7	495.7	496.0	496.1
170°	490.9	491.7	492.4	493.1	493.9	494.7	495.1	495.3	495.5	495.7	495.8
172.5°	490.9	491.9	492.6	493.6	494.2	495.1	495.8	495.9	495.7	495.7	495.4
175°	491.6	492.5	493.1	493.8	494.3	495.0	495.7	495.4	495.4	495.1	494.9
177.5°	496.0	496.9	497.6	498.2	499.1	499.8	500.5	499.8	499.4	498.8	498.1
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36403.9	36422.2	36450.1	36475.3	36513.4	36543.3	36588.3	36622.5	36673.3	36706.4	36761.6
5°	36407.2	36478.4	36572.1	36663.5	36773.4	36873.1	36997.1	37102.7	37227.3	37328.9	37456.4
7.5°	36458.7	36596.1	36760.7	36926.5	37114.2	37289.6	37487.4	37666.3	37861.9	38027.5	38208.3
10°	*36496.7*	*36708.5*	*36951.2*	*37195.3*	*37452.2*	*37690.9*	*37932.0*	*38140.2*	*38334.8*	*38495.1*	*38636.6*
12.5°	36445.2	36737.0	37048.3	37349.0	37634.7	37881.8	38089.2	38249.3	38359.9	38434.9	38452.5
15°	36270.2	36621.3	36959.8	37259.2	37496.3	37679.1	37773.8	37818.1	37770.6	37691.6	37518.0
17.5°	35943.2	36313.6	36616.2	36852.4	36977.6	37027.3	36948.9	36812.4	36545.9	36250.0	35822.7
20°	35343.7	35688.8	35908.3	36037.1	36003.6	35879.7	35583.6	35223.8	34691.6	34124.5	33376.0
22.5°	34292.2	34593.9	34710.9	34720.4	34515.9	34205.6	33671.6	33054.5	32215.0	31342.1	30268.7
25°	32713.8	32978.1	32996.6	32892.8	32518.5	32015.5	31231.6	30358.5	29217.7	28054.7	26709.6
27.5°	30573.3	30826.7	30764.7	30571.0	30051.4	29378.4	28374.6	27246.8	25840.3	24466.7	22978.7
30°	27882.4	28153.5	28080.6	27832.1	27214.1	26418.7	25237.6	23927.3	22365.7	20898.6	19390.8
32.5°	24662.3	25004.9	24954.7	24718.5	24073.6	23222.3	21940.8	20551.0	18953.4	17507.6	16040.9
35°	21002.2	21418.2	21439.7	21285.3	20686.6	19845.2	18579.8	17234.5	15704.3	14340.2	12985.2
37.5°	17058.8	17541.1	17640.2	17598.6	17102.4	16359.6	15206.6	13999.8	12644.2	11448.6	10289.8
40°	13093.6	13581.9	13751.3	13801.5	13435.3	12860.0	11913.7	10939.7	9834.5	8865.8	7945.7
42.5°	9477.5	9910.4	10074.1	10177.1	9948.5	9564.9	8874.6	8167.2	7357.6	6658.9	5989.0
45°	6582.4	6888.5	7013.0	7116.7	6992.2	6775.8	6339.8	5897.5	5363.0	4906.4	4474.1
47.5°	4602.1	4771.0	4853.1	4903.4	4855.2	4742.3	4505.1	4248.8	3947.1	3680.3	3423.8
50°	3411.2	3501.0	3544.1	3573.1	3537.9	3475.2	3346.9	3207.3	3041.6	2890.5	2742.7
52.5°	2703.3	2754.8	2780.4	2795.9	2775.8	2737.5	2662.7	2580.0	2480.7	2387.3	2338.2
55°	2277.3	2274.6	2333.7	2305.2	2333.7	2270.1	2256.6	2165.7	2083.2	2025.1	1962.3
57.5°	1878.1	1904.8	1916.1	1928.9	1920.7	1909.0	1877.3	1844.7	1801.2	1764.8	1726.0
60°	1625.7	1647.7	1660.2	1672.8	1672.0	1667.6	1649.2	1629.7	1602.5	1580.8	1557.3
62.5°	1451.8	1470.9	1483.2	1495.2	1496.3	1494.5	1480.6	1467.2	1448.6	1435.0	1418.8
65°	1315.1	1328.4	1336.8	1346.4	1345.9	1343.3	1330.7	1319.5	1304.3	1294.8	1282.9
67.5°	1171.9	1182.1	1188.5	1197.6	1199.4	1199.9	1193.0	1187.7	1180.3	1177.6	1173.5
70°	1070.2	1082.5	1092.9	1104.3	1110.5	1113.6	1110.5	1107.9	1103.5	1101.6	1098.5
72.5°	993.1	1003.5	1011.6	1022.0	1027.8	1032.0	1029.7	1028.2	1024.5	1023.9	1021.8
75°	897.4	904.6	909.1	917.0	920.1	924.0	922.2	923.2	922.0	925.0	924.8
77.5°	782.3	787.7	789.8	795.4	796.1	800.8	801.8	807.4	811.3	819.9	824.6
80°	652.8	656.2	656.2	662.0	664.6	672.6	676.4	685.5	689.7	697.3	698.0
82.5°	507.1	503.2	507.1	504.7	512.1	521.0	522.3	530.0	531.7	536.6	532.8
85°	346.7	346.5	343.4	343.9	341.6	342.6	341.3	342.8	341.4	341.6	338.1
87.5°	166.1	167.6	164.0	165.2	161.7	163.3	160.1	162.6	159.0	159.5	154.1
90°	44.7	46.0	46.9	48.2	50.0	53.5	57.1	60.7	64.8	68.4	72.2
92.5°	50.0	52.0	54.0	55.9	57.8	63.6	69.3	75.1	81.0	86.6	92.4
95°	57.3	59.0	60.7	62.6	64.3	72.6	81.0	89.3	97.7	106.0	114.3
97.5°	64.8	65.9	66.9	68.0	69.2	79.0	88.8	98.6	108.4	118.3	128.0
100°	74.6	75.8	77.1	78.6	79.8	102.5	125.1	147.7	170.3	192.8	215.4
102.5°	122.4	130.3	138.2	146.3	154.3	209.1	264.0	318.8	373.3	428.2	482.9
105°	281.4	308.1	335.1	361.7	388.4	471.3	554.4	637.3	720.1	802.9	886.0
107.5°	571.5	618.5	665.5	712.5	759.4	837.5	915.4	993.4	1071.5	1149.4	1227.1
110°	876.7	917.0	957.8	998.3	1038.9	1100.7	1162.8	1224.6	1286.6	1348.4	1410.2

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	1054.9	1079.6	1104.3	1128.8	1153.6	1198.9	1244.7	1289.9	1335.5	1380.6	1426.0
115°	1101.4	1114.3	1127.5	1140.5	1153.7	1181.1	1208.5	1235.9	1263.4	1290.6	1318.1
117.5°	1070.4	1075.2	1080.0	1084.3	1089.1	1103.2	1117.3	1131.3	1145.5	1159.6	1173.5
120°	993.9	993.5	993.3	992.7	992.5	996.7	1001.3	1005.6	1010.0	1014.2	1018.5
122.5°	907.4	904.1	901.0	897.7	894.5	892.8	891.5	889.8	888.6	886.9	885.3
125°	825.6	822.2	819.0	815.6	812.2	808.3	804.4	800.3	796.3	792.4	788.4
127.5°	755.8	752.7	750.1	746.9	743.8	739.2	734.8	730.3	725.9	721.3	716.8
130°	698.0	695.8	694.0	691.3	689.3	685.1	681.5	677.4	673.4	669.5	665.6
132.5°	656.5	655.1	653.6	651.7	650.2	646.5	643.2	639.5	636.0	632.4	629.0
135°	624.5	623.5	622.8	621.7	620.7	617.7	615.2	612.5	609.8	607.1	604.5
137.5°	598.0	597.7	597.5	597.2	596.7	594.4	592.3	589.9	587.8	585.5	583.3
140°	581.3	581.1	580.8	580.5	580.1	577.7	575.4	573.0	570.7	568.2	565.9
142.5°	563.7	563.6	563.5	563.1	562.9	560.9	559.3	557.4	555.5	553.8	552.0
145°	550.9	551.0	551.3	551.1	551.3	548.9	547.0	544.7	542.7	540.5	538.4
147.5°	538.5	538.6	539.0	539.1	539.4	537.4	535.8	534.0	532.5	530.4	528.9
150°	529.3	529.4	529.4	529.3	529.2	527.3	525.6	523.8	522.1	520.1	518.5
152.5°	520.3	520.5	520.7	520.9	521.0	519.2	517.4	515.4	513.6	511.5	509.7
155°	512.6	512.7	512.9	512.9	512.9	511.2	509.5	507.6	505.9	504.0	502.3
157.5°	506.1	506.3	506.6	506.8	506.9	505.4	503.9	502.4	500.9	499.3	497.8
160°	501.6	502.0	502.2	502.4	502.7	501.4	500.4	498.9	497.9	496.3	494.8
162.5°	499.2	499.6	499.8	500.0	500.3	499.0	498.0	496.7	495.5	493.9	492.6
165°	495.6	495.5	495.7	495.6	495.7	494.8	494.0	493.2	492.4	491.4	490.6
167.5°	496.4	496.2	496.5	496.4	496.5	495.8	495.6	494.8	494.2	493.5	492.9
170°	495.9	495.9	496.0	495.8	495.9	495.3	494.8	494.2	493.9	492.9	492.3
172.5°	495.3	495.0	494.9	494.8	494.4	494.0	493.7	493.3	493.0	492.5	492.1
175°	494.7	494.3	494.2	494.0	493.6	493.6	493.3	493.2	493.0	492.8	492.5
177.5°	497.8	497.3	496.6	496.1	495.7	495.5	495.3	495.1	495.2	494.9	494.8
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36795.9	36568.6	36538.6	36554.5	36592.5	36606.6	36647.6	36658.8	36700.0	36710.1	36749.7
5°	37555.1	37254.7	37269.8	37341.9	37451.3	37516.4	37623.9	37680.1	37782.7	37829.3	37922.1
7.5°	38355.7	38119.8	38193.3	38315.2	38464.6	38568.1	38697.3	38781.3	38892.6	38961.7	39050.7
10°	*38748.8*	*38684.2*	*38765.1*	*38861.0*	*38946.3*	*39013.0*	*39067.7*	*39111.6*	*39140.2*	*39167.1*	*39178.8*
12.5°	38449.6	38549.6	38563.4	38554.2	38497.6	38454.5	38357.6	38291.7	38174.8	38103.6	37964.5
15°	37340.7	37560.6	37438.8	37254.4	36984.7	36759.8	36442.1	36205.6	35874.8	35650.4	35318.4
17.5°	35394.5	35672.1	35354.8	34928.2	34385.5	33921.1	33343.0	32884.1	32309.2	31891.2	31354.7
20°	32654.7	32914.1	32348.2	31641.0	30801.4	30094.9	29261.7	28596.9	27822.7	27246.8	26551.7
22.5°	29243.4	29428.3	28630.9	27677.5	26607.9	25725.2	24729.1	23932.1	23048.5	22390.1	21649.0
25°	25469.6	25519.4	24562.9	23464.6	22272.5	21280.5	20216.9	19379.1	18477.9	17810.6	17083.1
27.5°	21660.5	21587.3	20553.5	19388.9	18135.0	17103.9	16066.5	15281.3	14492.2	13891.0	13264.3
30°	18065.2	17888.1	16814.7	15617.7	14400.5	13476.3	12615.1	11984.6	11356.7	10879.8	10376.9
32.5°	14768.2	14518.4	13473.6	12352.1	11326.5	10613.3	9974.7	9497.6	8990.5	8587.7	8165.6
35°	11848.1	11581.9	10656.2	9705.5	8929.2	8403.5	7901.6	7510.2	7079.7	6739.9	6373.2
37.5°	9341.9	9123.7	8348.4	7600.2	7013.0	6605.7	6194.4	5874.5	5518.7	5369.2	4977.5
40°	7211.9	7059.4	6453.2	5901.7	5460.7	5269.3	4851.9	4553.1	4287.2	4068.0	3855.6
42.5°	5625.4	5571.4	4981.4	4551.3	4240.8	3999.7	3767.0	3578.2	3394.3	3243.3	3100.5
45°	4128.2	4085.5	3823.5	3575.3	3363.7	3195.2	3038.0	2908.1	2787.8	2688.3	2597.7
47.5°	3214.6	3201.0	3050.1	2896.1	2762.9	2654.6	2552.6	2466.3	2386.6	2320.1	2298.4
50°	2614.6	2612.8	2524.3	2429.2	2334.4	2271.8	2206.6	2155.7	2104.4	2064.6	2022.4
52.5°	2221.5	2211.9	2152.2	2093.6	2037.1	1996.1	1954.4	1921.8	1887.9	1863.3	1837.1
55°	1912.6	1922.6	1888.1	1853.0	1817.7	1792.3	1763.0	1741.6	1718.3	1702.7	1686.9
57.5°	1697.9	1711.3	1693.2	1673.3	1651.8	1635.0	1614.8	1600.0	1584.4	1574.6	1565.4
60°	1541.8	1556.4	1549.1	1539.1	1525.8	1515.8	1503.0	1494.7	1484.7	1479.2	1474.0
62.5°	1409.2	1427.5	1424.9	1420.2	1411.7	1406.1	1399.2	1395.5	1388.8	1386.4	1384.0
65°	1277.1	1297.6	1297.2	1294.9	1290.2	1288.6	1284.2	1283.4	1280.0	1281.4	1281.1
67.5°	1173.1	1191.0	1194.9	1197.8	1197.6	1198.7	1198.3	1200.0	1200.0	1202.6	1204.2
70°	1098.2	1110.5	1113.6	1116.5	1117.3	1119.7	1119.7	1121.2	1120.8	1123.0	1123.3
72.5°	1022.3	1038.6	1041.7	1044.1	1044.1	1046.4	1045.1	1044.8	1041.5	1040.9	1038.5
75°	927.9	948.9	953.5	956.5	956.9	958.9	956.0	954.3	948.9	946.7	942.9
77.5°	829.4	851.1	854.4	855.5	853.7	854.2	848.2	844.2	837.2	834.4	830.7
80°	701.1	733.1	735.7	733.7	728.7	727.9	722.1	718.3	710.1	707.2	704.1
82.5°	533.5	571.1	576.4	578.7	574.6	575.6	570.0	567.8	560.3	558.9	553.9
85°	336.9	374.5	380.6	379.7	375.6	374.7	371.4	372.5	371.9	373.9	375.0
87.5°	154.8	191.1	199.9	197.1	196.7	194.1	188.3	190.4	194.0	196.2	196.4
90°	75.8	90.5	93.9	91.8	86.0	83.3	77.9	75.7	70.8	68.7	63.9
92.5°	98.2	103.9	109.7	104.5	99.5	94.3	89.2	83.9	79.0	73.6	68.7
95°	122.6	130.7	139.0	132.2	125.2	118.3	111.5	104.7	97.8	91.0	84.2
97.5°	137.8	147.3	156.9	150.1	143.3	136.3	129.5	122.7	115.8	108.8	102.0
100°	237.9	260.0	282.5	263.1	243.5	224.2	204.8	185.2	165.8	146.4	126.9
102.5°	537.5	592.1	646.6	597.3	548.2	498.9	449.8	400.7	351.6	302.3	253.3
105°	968.7	1051.1	1133.8	1058.5	983.5	908.4	833.4	758.4	683.3	608.2	533.3
107.5°	1305.1	1382.1	1459.6	1391.7	1323.8	1256.0	1188.0	1120.3	1052.3	984.4	916.7
110°	1472.0	1532.6	1594.2	1548.4	1502.9	1457.1	1411.7	1365.9	1320.5	1275.0	1229.6

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	1471.2	1515.0	1559.9	1532.8	1506.3	1479.5	1452.8	1426.0	1399.5	1372.7	1346.4
115°	1345.2	1370.7	1397.4	1386.5	1376.0	1365.3	1354.6	1344.1	1333.5	1322.9	1312.6
117.5°	1187.4	1199.1	1212.5	1210.3	1208.3	1206.1	1204.1	1202.0	1200.2	1198.3	1196.4
120°	1022.7	1024.5	1028.0	1029.1	1030.4	1031.5	1032.8	1034.0	1035.3	1036.7	1038.1
122.5°	883.7	879.4	876.9	878.0	878.9	879.9	881.1	882.0	883.2	884.5	885.8
125°	784.4	777.3	772.3	770.2	768.3	766.2	764.1	762.1	760.2	758.3	756.5
127.5°	712.2	704.4	699.1	694.6	690.2	685.6	681.2	676.7	672.5	667.9	663.7
130°	661.7	654.3	649.3	643.7	638.3	632.5	627.2	621.7	616.0	610.5	605.1
132.5°	625.3	618.0	613.5	608.3	603.1	597.7	592.4	587.0	581.6	576.1	571.0
135°	601.7	595.1	591.5	586.5	582.0	577.0	572.1	567.2	562.5	557.3	552.9
137.5°	581.0	574.5	571.5	567.6	563.8	559.8	556.2	552.0	548.1	543.9	540.1
140°	563.6	556.7	553.5	551.3	549.1	546.6	544.5	542.1	539.9	537.5	535.1
142.5°	550.1	543.6	540.7	539.3	538.1	536.4	535.2	533.6	532.2	530.3	528.9
145°	536.4	529.2	526.0	525.7	525.7	525.3	525.1	524.9	524.7	524.3	524.0
147.5°	526.9	519.5	516.5	516.8	516.9	517.0	517.4	517.3	517.7	517.8	517.9
150°	516.5	508.0	504.6	505.2	505.5	506.2	506.7	507.1	507.9	508.3	508.8
152.5°	507.6	497.6	493.7	494.3	495.1	495.6	496.3	497.0	497.8	498.6	499.2
155°	500.2	489.5	485.2	485.2	485.6	485.8	486.1	486.6	487.0	487.4	487.9
157.5°	496.0	484.8	480.7	480.3	480.5	480.5	480.7	480.9	481.1	481.3	481.8
160°	493.5	482.3	478.4	478.0	478.1	478.0	478.0	478.0	478.3	478.5	478.9
162.5°	491.1	480.1	476.3	476.0	475.9	475.8	475.8	475.7	475.9	475.9	476.3
165°	489.4	480.0	476.5	476.4	476.6	476.5	476.7	476.8	477.2	477.4	477.8
167.5°	492.0	483.5	480.9	480.4	480.1	479.6	479.6	479.1	479.1	478.8	478.8
170°	491.5	484.8	482.4	482.3	482.6	482.5	482.4	482.6	482.6	482.5	482.7
172.5°	491.6	486.7	485.0	485.2	485.7	485.9	486.4	486.7	487.1	487.5	487.9
175°	492.4	489.4	488.7	488.6	488.9	489.1	489.3	489.5	489.8	489.9	490.5
177.5°	494.8	493.8	493.3	493.3	493.3	493.3	493.3	493.3	493.3	493.5	493.5
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36757.2	36800.0	36796.7	36836.8	36834.8	36872.5	36864.9	36897.4	36890.0	36917.8	36901.5
5°	37962.9	38044.4	38071.3	38144.9	38160.1	38226.0	38227.3	38279.6	38273.3	38314.2	38292.4
7.5°	39103.5	39179.6	39215.7	39272.8	39301.4	39348.6	39367.1	39406.1	39415.4	39438.4	39437.7
10°	*39199.7*	*39199.4*	*39217.3*	*39209.3*	*39225.3*	*39216.0*	*39235.5*	*39228.5*	*39257.3*	*39249.9*	*39271.6*
12.5°	37904.5	37775.9	37729.1	37613.6	37588.3	37489.2	37496.3	37432.7	37463.4	37424.4	37490.9
15°	35121.0	34822.8	34675.4	34416.2	34334.8	34129.8	34113.3	33977.1	34013.9	33942.7	34046.8
17.5°	31007.5	30538.1	30280.5	29901.9	29751.6	29461.8	29403.7	29228.5	29255.7	29167.3	29293.1
20°	26103.3	25536.0	25211.0	24773.3	24578.0	24232.5	24140.8	23944.8	23969.4	23881.6	24023.8
22.5°	21143.2	20549.3	20182.5	19723.6	19474.2	19149.2	19051.8	18854.8	18866.0	18783.6	18920.4
25°	16584.9	16015.6	15659.5	15242.7	15026.3	14728.4	14625.9	14449.1	14459.1	14391.1	14513.9
27.5°	12829.6	12362.5	12064.6	11715.2	11521.2	11276.3	11176.4	11027.7	11027.3	10977.4	11080.0
30°	10025.7	9635.9	9368.4	9064.1	8881.9	8660.9	8564.4	8431.3	8425.5	8390.2	8471.6
32.5°	7849.9	7503.1	7259.1	6991.4	6827.8	6638.2	6546.8	6439.9	6430.2	6398.1	6465.0
35°	6102.3	5810.3	5600.5	5375.0	5391.7	5111.8	5158.4	4941.0	4882.1	4869.2	4919.0
37.5°	4716.4	4490.2	4319.8	4150.9	4036.6	3918.3	3854.6	3797.5	3791.0	3785.5	3820.3
40°	3691.6	3533.4	3409.4	3293.6	3214.9	3142.7	3102.9	3071.5	3064.0	3059.8	3080.9
42.5°	2987.8	2881.1	2801.1	2730.5	2682.6	2643.4	2621.5	2604.1	2598.2	2598.4	2610.8
45°	2524.3	2459.5	2408.0	2364.1	2333.5	2347.0	2307.5	2328.2	2300.8	2329.1	2310.5
47.5°	2223.0	2167.9	2136.0	2104.9	2086.3	2071.5	2072.0	2072.3	2078.1	2079.0	2085.1
50°	1990.5	1958.6	1936.4	1916.6	1906.9	1899.1	1901.9	1903.8	1909.5	1910.0	1914.4
52.5°	1818.5	1797.5	1784.1	1771.8	1767.5	1763.0	1764.9	1764.1	1766.7	1765.3	1769.0
55°	1678.4	1668.6	1664.4	1659.7	1660.5	1659.2	1660.0	1655.6	1652.9	1649.5	1652.6
57.5°	1563.5	1562.2	1565.0	1566.9	1572.1	1574.0	1575.3	1570.1	1565.3	1560.8	1563.4
60°	1475.0	1477.2	1484.2	1489.8	1497.4	1500.9	1503.1	1500.1	1496.6	1492.9	1495.2
62.5°	1387.7	1391.1	1399.4	1405.8	1415.0	1419.7	1424.9	1425.2	1426.6	1425.2	1426.7
65°	1286.3	1290.5	1298.0	1303.3	1311.8	1316.0	1321.4	1322.4	1325.3	1324.7	1327.3
67.5°	1209.2	1213.0	1219.3	1224.3	1231.9	1236.3	1241.0	1241.3	1242.3	1242.1	1244.5
70°	1127.0	1128.9	1134.6	1138.8	1146.4	1150.8	1156.3	1157.9	1161.2	1161.8	1164.5
72.5°	1039.4	1038.6	1042.0	1043.9	1049.6	1053.1	1060.0	1063.8	1069.5	1071.0	1073.0
75°	944.0	943.2	947.3	948.9	953.8	957.3	965.0	970.0	978.7	982.4	981.5
77.5°	833.6	835.4	843.0	847.2	853.7	858.2	868.2	876.2	892.3	899.2	892.1
80°	710.1	712.1	720.0	723.9	732.3	737.8	749.0	758.3	772.8	775.9	771.8
82.5°	558.2	558.8	565.8	568.8	579.9	587.9	602.1	609.5	618.4	617.0	616.0
85°	380.6	385.8	394.6	403.3	416.9	429.8	443.3	454.3	446.5	458.8	444.9
87.5°	203.4	202.9	214.8	212.9	231.8	242.7	254.4	259.9	266.2	264.9	265.0
90°	62.2	58.9	58.7	55.1	55.8	52.0	53.6	50.0	52.3	47.9	54.5
92.5°	63.4	60.8	57.8	55.3	52.3	49.6	46.7	43.9	41.2	38.4	41.2
95°	77.4	74.8	72.3	69.6	67.0	64.5	61.9	59.3	56.9	54.3	57.5
97.5°	95.2	93.7	92.1	90.7	89.2	87.7	86.2	84.7	83.1	81.6	83.8
100°	107.5	107.5	107.5	107.5	107.2	107.2	107.2	107.2	107.2	107.2	108.9
102.5°	204.0	199.1	194.2	189.1	184.2	179.2	174.3	169.4	164.5	159.6	166.8
105°	458.2	439.1	419.7	400.6	381.1	362.0	342.7	323.6	304.3	285.2	305.0
107.5°	849.1	813.9	778.9	743.8	708.6	673.7	638.7	603.7	568.7	533.7	565.1
110°	1184.1	1146.8	1109.6	1072.4	1035.2	997.9	960.8	923.7	886.6	849.4	879.3

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	1319.9	1295.5	1271.5	1247.5	1223.4	1199.5	1175.5	1151.6	1127.7	1103.9	1118.4
115°	1302.0	1290.5	1279.0	1267.6	1256.1	1244.6	1233.2	1221.8	1210.5	1199.2	1200.1
117.5°	1194.6	1190.6	1186.6	1182.8	1178.9	1175.1	1171.3	1167.7	1163.9	1160.4	1152.3
120°	1039.7	1040.7	1041.7	1042.8	1044.1	1045.5	1046.6	1048.0	1049.5	1051.0	1040.1
122.5°	887.1	889.6	892.3	895.1	897.9	900.9	903.8	907.0	910.2	913.4	902.5
125°	754.5	757.1	759.6	762.3	764.8	767.9	770.8	774.0	777.1	780.5	771.3
127.5°	659.4	660.2	660.7	661.6	662.5	663.7	665.0	666.2	667.7	669.4	663.6
130°	599.6	598.3	596.9	595.9	594.6	593.9	593.1	592.5	592.0	591.6	589.1
132.5°	565.6	563.0	560.3	557.8	555.4	553.3	551.1	549.3	547.4	545.9	545.1
135°	547.7	544.1	540.7	537.4	534.0	531.1	527.9	525.4	522.7	520.2	520.9
137.5°	536.1	532.7	529.2	526.0	522.6	519.8	516.6	513.9	511.4	508.9	510.0
140°	532.7	529.2	525.7	522.6	519.4	516.4	513.5	511.0	508.0	505.9	506.5
142.5°	527.3	524.4	521.0	518.2	515.3	512.6	510.0	507.7	505.0	503.0	503.8
145°	523.6	521.4	519.0	516.7	514.6	512.8	510.5	508.9	507.2	505.9	506.3
147.5°	517.8	516.3	514.4	512.9	511.1	509.7	508.2	507.1	505.7	504.7	504.9
150°	509.4	508.3	507.1	506.1	505.0	504.1	503.2	502.4	501.6	501.0	501.0
152.5°	500.0	499.1	498.0	497.1	496.2	495.4	494.6	494.0	493.3	492.7	492.7
155°	488.3	487.9	487.5	487.3	486.8	486.7	486.3	486.4	486.0	486.0	486.1
157.5°	482.0	482.1	481.8	482.0	481.9	482.0	481.9	482.3	482.1	482.5	482.7
160°	479.3	479.2	478.9	478.9	478.7	478.5	478.5	478.5	478.5	478.5	478.9
162.5°	476.5	476.8	477.0	477.3	477.7	477.9	478.4	478.9	479.2	479.7	480.1
165°	478.3	478.3	478.1	478.1	478.3	478.3	478.4	478.8	478.8	479.2	479.7
167.5°	478.7	479.0	479.2	479.4	479.8	480.3	480.6	481.2	481.7	482.5	482.9
170°	482.6	482.6	482.6	482.6	482.6	482.9	483.1	483.2	483.4	483.7	484.1
172.5°	488.2	488.2	487.9	488.2	487.9	488.2	488.2	488.3	488.3	488.5	488.7
175°	490.4	490.8	491.1	491.5	491.5	491.7	491.9	492.1	492.4	492.7	492.7
177.5°	493.5	493.6	493.6	493.6	493.6	493.8	493.8	493.8	493.8	493.6	493.8
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36928.7	36910.2	36929.1	36909.9	36929.1	36906.1	36921.7	36896.8	36903.1	36877.3	36884.0
5°	38325.0	38295.6	38311.2	38273.0	38277.0	38226.0	38225.0	38165.5	38149.8	38082.1	38052.4
7.5°	39454.1	39444.5	39449.9	39425.2	39422.5	39387.6	39371.0	39321.8	39290.8	39228.5	39185.9
10°	*39275.4*	*39304.1*	*39311.6*	*39340.9*	*39347.0*	*39376.1*	*39382.2*	*39411.3*	*39417.3*	*39438.8*	*39439.1*
12.5°	37487.7	37585.5	37608.8	37729.6	37780.4	37918.5	37992.7	38144.9	38235.2	38387.1	38480.3
15°	34043.9	34213.0	34280.4	34516.2	34646.6	34921.8	35094.8	35410.8	35633.8	35969.4	36208.8
17.5°	29304.1	29540.5	29647.1	29966.8	30175.3	30581.5	30874.3	31356.2	31725.1	32260.6	32685.0
20°	24048.1	24310.7	24455.4	24820.2	25066.3	25540.9	25906.4	26498.6	26992.3	27670.9	28251.2
22.5°	18963.3	19213.2	19373.9	19745.0	20022.0	20517.1	20925.6	21550.5	22103.8	22868.4	23564.2
25°	14560.2	14789.3	14934.5	15270.1	15530.3	15985.2	16375.3	16976.4	17517.7	18284.8	18998.1
27.5°	11131.1	11322.9	11463.0	11749.1	11978.6	12364.4	12699.4	13196.3	13662.7	14326.2	14961.5
30°	8521.8	8691.8	8828.1	9077.3	9290.1	9624.5	9919.2	10336.4	10722.5	11250.5	11755.9
32.5°	6512.1	6658.5	6779.9	6998.0	7191.0	7492.2	7757.6	8123.4	8454.8	8902.6	9318.4
35°	4965.2	5253.3	5232.9	5533.7	5582.1	5798.3	6035.1	6354.9	6648.3	7029.1	7383.0
37.5°	3853.8	3934.8	4021.5	4154.6	4294.3	4491.0	4691.0	5081.8	5225.1	5512.9	5805.9
40°	3107.7	3162.5	3219.8	3309.6	3407.5	3546.0	3691.7	3878.1	4069.1	4302.4	4540.8
42.5°	2627.3	2658.3	2694.7	2747.6	2807.9	2895.8	2993.2	3119.6	3252.5	3416.7	3584.3
45°	2347.3	2332.6	2343.4	2371.9	2408.2	2461.6	2523.1	2601.3	2687.9	2794.3	2907.5
47.5°	2086.3	2092.3	2095.5	2110.9	2130.4	2166.3	2203.5	2256.6	2359.3	2390.5	2452.2
50°	1914.0	1916.8	1915.9	1923.7	1933.6	1956.9	1981.1	2017.0	2052.9	2100.5	2146.0
52.5°	1769.5	1773.5	1773.0	1778.2	1783.4	1798.1	1813.5	1838.9	1862.4	1892.7	1918.7
55°	1655.5	1661.0	1663.1	1667.5	1670.0	1677.7	1683.8	1696.0	1706.0	1723.1	1739.0
57.5°	1567.7	1575.3	1578.7	1580.3	1577.1	1576.8	1574.7	1577.3	1579.4	1588.5	1597.5
60°	1498.6	1504.7	1505.7	1504.7	1499.1	1495.0	1488.5	1486.4	1485.4	1489.8	1494.7
62.5°	1426.4	1428.5	1427.0	1425.2	1418.8	1414.9	1408.1	1405.6	1403.4	1406.5	1409.0
65°	1326.3	1328.2	1326.3	1325.2	1319.4	1316.3	1310.6	1308.7	1305.4	1306.3	1305.7
67.5°	1245.0	1247.0	1245.5	1243.9	1239.9	1238.1	1233.9	1231.1	1227.2	1225.8	1223.0
70°	1164.1	1165.6	1163.3	1161.8	1157.2	1155.5	1151.5	1150.7	1147.6	1146.9	1143.8
72.5°	1071.0	1071.1	1067.9	1066.9	1063.5	1063.4	1061.8	1063.2	1063.1	1064.7	1064.0
75°	975.6	974.3	970.3	969.6	967.0	968.2	966.4	968.8	969.0	972.6	972.9
77.5°	880.3	875.2	867.5	863.9	858.7	858.1	855.0	857.1	856.5	860.5	862.1
80°	759.7	753.5	743.7	738.9	732.9	732.0	729.2	732.0	730.6	735.4	738.7
82.5°	606.5	601.3	591.0	587.2	580.1	580.8	577.8	580.8	580.4	587.4	591.5
85°	448.6	445.1	434.6	425.3	414.8	408.8	402.8	401.7	399.9	402.8	405.2
87.5°	259.1	255.8	247.6	242.2	223.9	224.7	217.6	217.3	215.5	213.9	217.6
90°	54.1	59.8	59.6	64.9	65.2	71.1	71.9	77.6	77.9	83.7	84.8
92.5°	43.9	46.7	49.5	52.3	55.1	57.8	60.6	63.4	69.3	75.0	81.3
95°	60.7	63.9	67.1	70.2	73.4	76.6	79.8	83.1	91.8	100.5	109.3
97.5°	86.0	88.0	90.2	92.3	94.5	96.6	98.7	100.9	110.3	119.8	129.1
100°	110.6	112.3	114.0	115.8	117.5	119.1	120.8	122.5	141.0	159.1	177.2
102.5°	174.1	181.3	188.7	195.9	203.4	210.6	217.9	225.1	266.9	308.5	350.1
105°	324.8	344.7	364.7	384.5	404.4	424.3	444.1	464.0	530.8	597.3	664.2
107.5°	596.4	627.8	659.2	690.6	722.0	753.5	784.8	816.4	881.3	946.5	1011.5
110°	909.1	939.2	969.0	999.1	1028.9	1058.9	1088.9	1119.0	1158.1	1197.2	1236.2

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	1133.0	1147.4	1162.1	1176.7	1191.5	1206.2	1220.9	1235.7	1255.3	1274.7	1294.4
115°	1201.0	1201.9	1202.9	1204.0	1205.1	1206.1	1207.4	1208.6	1214.9	1221.0	1227.4
117.5°	1144.3	1136.4	1128.5	1120.6	1112.8	1105.2	1097.5	1090.0	1088.8	1087.6	1086.7
120°	1029.7	1018.9	1008.3	997.5	987.2	976.7	966.5	956.3	951.1	946.0	941.0
122.5°	891.9	881.3	870.8	860.3	850.0	839.8	829.7	819.7	816.1	812.5	809.2
125°	762.4	753.5	744.8	736.2	727.8	719.4	711.2	702.9	702.9	702.8	703.1
127.5°	658.3	652.9	647.7	642.6	637.8	632.8	628.2	623.4	625.9	628.5	631.1
130°	586.8	584.6	582.6	580.3	578.8	576.9	575.3	573.6	578.1	582.2	586.6
132.5°	545.0	544.7	544.7	544.6	544.8	545.0	545.6	545.8	550.8	555.5	560.6
135°	521.6	522.3	523.5	524.4	526.0	527.1	528.7	530.0	534.9	539.3	544.2
137.5°	511.2	512.3	513.7	515.3	517.1	518.7	520.7	522.4	526.2	530.0	533.7
140°	507.6	508.4	509.7	511.0	512.4	513.7	515.5	516.9	520.2	523.0	526.0
142.5°	504.9	505.5	506.8	508.0	509.5	510.6	512.1	513.4	515.7	517.8	520.4
145°	507.1	507.6	508.7	509.4	510.5	511.5	512.7	513.7	515.3	516.6	518.1
147.5°	505.5	505.8	506.5	507.2	508.0	508.7	509.4	510.0	511.2	512.1	513.1
150°	501.3	501.4	501.8	502.0	502.6	503.1	503.7	504.0	504.8	505.6	506.7
152.5°	493.1	493.2	493.4	493.7	494.0	494.4	494.8	495.2	496.1	496.7	497.6
155°	486.6	487.1	487.6	488.1	488.7	489.0	489.7	490.0	490.8	491.3	492.0
157.5°	483.3	483.5	484.2	484.5	485.2	485.6	486.1	486.6	487.2	487.6	488.2
160°	479.7	480.5	481.0	481.8	482.6	483.2	484.0	484.7	485.2	485.7	486.2
162.5°	480.7	481.2	481.7	482.1	482.6	483.2	483.6	484.2	485.0	485.6	486.4
165°	480.5	481.1	481.9	482.5	483.4	484.1	484.8	485.5	485.8	486.4	486.8
167.5°	483.7	484.2	485.1	485.7	486.5	487.1	487.9	488.4	489.0	489.2	489.8
170°	484.7	485.3	486.0	486.6	487.3	487.7	488.5	489.0	489.7	490.2	490.9
172.5°	489.2	489.7	490.2	490.5	491.0	491.6	492.2	492.4	493.1	493.6	494.0
175°	492.7	492.7	492.8	493.0	493.1	493.1	493.2	493.5	493.6	493.8	493.9
177.5°	494.0	494.2	494.4	494.7	494.8	495.0	495.3	495.5	495.5	495.5	495.5
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36858.1	36859.7	36830.0	36828.4	36800.6	36797.0	36769.8	36761.6	36739.6	36731.6	36709.1
5°	37976.4	37940.2	37856.5	37807.3	37724.6	37669.8	37580.3	37522.0	37435.6	37370.5	37283.5
7.5°	39107.4	39051.1	38957.2	38881.1	38766.3	38674.7	38540.4	38430.5	38285.0	38159.1	38006.4
10°	*39439.1*	*39430.4*	*39406.5*	*39371.6*	*39318.2*	*39258.2*	*39166.8*	*39071.6*	*38944.1*	*38805.6*	*38635.9*
12.5°	38623.0	38711.1	38831.2	38902.4	38989.1	39027.1	39062.6	39053.7	39030.3	38960.3	38862.1
15°	36555.5	36803.2	37131.0	37385.2	37677.5	37890.0	38124.7	38271.0	38416.7	38484.1	38525.3
17.5°	33266.7	33735.6	34323.6	34810.8	35373.1	35824.6	36319.6	36692.3	37075.5	37350.1	37598.3
20°	29042.2	29721.5	30553.2	31287.8	32142.1	32884.4	33697.9	34365.7	35054.4	35593.0	36102.6
22.5°	24460.1	25266.9	26272.3	27203.6	28304.9	29294.6	30411.2	31383.1	32397.8	33245.6	34065.2
25°	19954.3	20839.1	21938.5	22977.6	24224.7	25376.0	26700.2	27911.6	29223.0	30361.7	31486.6
27.5°	15839.9	16708.6	17831.0	18937.1	20255.9	21482.5	22901.5	24236.0	25729.3	27106.4	28515.2
30°	12458.2	13195.0	14201.4	15272.7	16573.5	17821.7	19256.0	20628.5	22182.1	23685.7	25272.4
32.5°	9870.3	10431.6	11222.7	12128.7	13328.9	14517.1	15882.9	17207.8	18737.6	20256.6	21906.9
35°	7838.8	8276.6	8879.8	9586.8	10603.1	11627.5	12835.4	14040.3	15467.6	16908.9	18513.0
37.5°	6181.3	6536.5	7009.0	7540.0	8355.2	9195.8	10186.4	11185.3	12425.5	13703.1	15156.9
40°	4826.9	5114.6	5482.4	5878.4	6494.0	7141.7	7907.7	8682.4	9678.8	10722.9	11926.0
42.5°	3791.9	4004.2	4263.9	4553.4	5127.7	5471.5	5991.0	6551.3	7283.7	8041.8	8946.3
45°	3045.2	3190.0	3370.2	3564.3	3830.8	4122.6	4478.3	4851.4	5547.3	5888.6	6438.7
47.5°	2543.0	2640.3	2754.9	2877.2	3034.4	3204.1	3415.1	3630.8	3909.8	4199.0	4537.9
50°	2204.9	2303.7	2343.1	2406.4	2497.4	2594.3	2713.3	2832.2	2981.8	3133.5	3308.0
52.5°	1953.9	1986.1	2028.9	2069.2	2125.5	2235.9	2271.5	2333.7	2417.7	2499.7	2591.3
55°	1762.2	1783.2	1811.0	1835.3	1869.4	1902.0	1949.0	1990.4	2046.3	2095.8	2156.6
57.5°	1613.0	1626.3	1645.7	1661.6	1683.7	1702.1	1729.6	1752.1	1784.2	1812.2	1849.1
60°	1504.6	1513.5	1526.4	1536.9	1550.9	1560.6	1574.2	1584.7	1601.7	1616.0	1636.5
62.5°	1416.0	1420.7	1429.1	1435.3	1444.2	1449.0	1456.3	1460.9	1470.2	1477.4	1488.9
65°	1309.8	1310.9	1316.6	1319.2	1326.2	1328.7	1334.7	1336.8	1344.6	1349.8	1360.0
67.5°	1222.7	1220.3	1220.4	1218.5	1219.3	1217.3	1217.9	1215.7	1218.8	1220.4	1228.2
70°	1143.2	1139.9	1138.8	1135.1	1134.1	1130.3	1129.3	1125.9	1125.4	1124.4	1127.0
72.5°	1065.8	1064.9	1065.2	1062.6	1062.3	1059.7	1059.8	1058.2	1060.0	1060.8	1064.3
75°	976.8	977.0	978.7	976.5	977.1	975.0	975.8	973.7	974.8	974.5	977.9
77.5°	868.3	870.9	875.6	874.7	876.2	873.8	874.8	872.0	872.8	870.9	872.2
80°	746.4	751.9	758.2	757.9	760.6	758.8	761.3	758.5	759.7	756.4	755.6
82.5°	601.6	606.2	613.0	613.3	619.3	620.3	626.9	626.6	630.8	628.2	626.2
85°	411.3	414.5	420.4	423.6	429.7	433.5	439.9	442.5	437.8	446.2	439.6
87.5°	214.8	222.8	218.3	228.7	226.3	236.8	234.5	244.3	242.4	250.8	249.7
90°	92.1	93.7	101.3	103.4	112.2	115.1	118.3	114.6	117.5	114.2	117.1
92.5°	87.0	93.3	99.3	105.2	111.2	117.4	111.7	106.1	100.5	95.2	89.5
95°	118.0	126.8	135.5	144.3	153.0	161.7	152.4	143.0	133.7	124.3	114.9
97.5°	138.5	147.9	157.3	166.6	176.3	185.6	174.5	163.4	152.3	141.3	130.2
100°	195.3	213.6	231.7	249.9	268.1	286.3	265.7	245.0	224.5	203.8	183.0
102.5°	392.0	433.5	475.2	517.0	558.7	600.4	556.6	512.9	468.9	425.1	381.1
105°	730.8	797.6	864.2	931.0	997.6	1064.6	993.4	922.4	851.2	780.2	709.0
107.5°	1076.7	1141.5	1206.9	1271.8	1337.0	1402.3	1330.2	1258.1	1186.1	1113.9	1041.7
110°	1275.5	1314.6	1353.8	1393.0	1432.1	1471.5	1418.9	1366.3	1313.7	1261.1	1208.4

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	1313.9	1333.9	1353.3	1373.2	1392.8	1412.5	1375.0	1337.6	1299.8	1262.4	1224.7
115°	1233.9	1240.1	1246.5	1253.0	1259.3	1265.7	1240.4	1215.2	1189.9	1164.6	1139.1
117.5°	1085.7	1084.9	1083.8	1083.1	1081.9	1081.0	1067.0	1053.0	1038.7	1024.5	1010.4
120°	935.8	930.7	925.7	920.6	915.5	910.3	904.5	898.8	892.7	886.7	880.6
122.5°	805.7	802.3	798.8	795.4	791.7	788.2	786.0	784.0	781.6	779.5	777.0
125°	703.1	703.2	703.2	703.3	703.2	703.2	702.0	701.1	700.0	699.1	697.8
127.5°	633.4	636.1	638.4	640.9	643.2	645.6	645.4	645.5	645.2	645.0	644.7
130°	590.6	595.2	599.2	603.3	607.2	611.6	610.9	610.4	610.0	609.5	608.8
132.5°	565.4	570.2	575.0	580.0	584.5	589.2	588.5	588.0	587.0	586.5	585.7
135°	548.8	553.3	557.7	562.5	566.7	571.1	570.2	569.3	568.2	567.6	566.5
137.5°	537.2	541.2	544.7	548.2	551.7	555.4	554.2	553.4	552.2	551.6	550.5
140°	528.9	531.9	534.6	537.6	540.3	543.2	541.9	540.7	539.4	538.2	536.8
142.5°	522.5	524.8	526.8	529.1	531.0	533.3	531.2	529.5	527.7	526.0	524.2
145°	519.5	521.2	522.6	524.0	525.0	526.6	524.3	522.4	520.1	518.1	515.8
147.5°	513.9	515.0	515.6	516.6	517.1	518.1	516.0	514.0	512.0	509.7	507.7
150°	507.2	508.3	508.9	509.6	510.3	511.2	508.8	506.8	504.5	502.2	500.2
152.5°	498.4	499.1	499.8	500.4	501.1	501.6	499.5	497.6	495.4	493.2	491.1
155°	492.3	492.9	493.2	493.7	493.9	494.2	492.3	490.8	489.1	487.3	485.3
157.5°	488.5	489.1	489.5	489.8	490.0	490.5	489.1	487.8	486.4	485.1	483.6
160°	486.6	487.0	487.4	487.6	488.1	488.2	487.1	486.1	485.0	483.8	482.5
162.5°	486.9	487.6	488.2	488.6	489.3	489.8	488.4	487.2	485.8	484.5	483.0
165°	487.2	487.6	488.1	488.4	488.6	489.0	488.1	487.3	486.2	485.4	484.4
167.5°	490.0	490.7	490.9	491.3	491.5	491.7	490.8	490.1	489.1	488.1	487.0
170°	491.3	491.8	492.4	492.8	493.2	493.5	492.9	492.3	491.4	490.7	489.8
172.5°	494.5	495.0	495.2	495.7	495.9	496.4	495.7	494.8	494.0	493.2	492.4
175°	493.9	494.0	494.3	494.3	494.3	494.4	493.8	493.2	492.5	491.9	491.2
177.5°	495.5	495.5	495.5	495.4	495.4	495.4	494.9	494.5	494.1	493.7	493.1
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1	36472.1
2.5°	36701.2	36685.3	36675.0	36661.9	36653.9	36643.7	36636.3	36630.0	36624.8	36620.1	36616.6
5°	37217.3	37135.2	37071.6	37002.6	36946.0	36889.5	36845.9	36809.8	36785.0	36766.4	36755.3
7.5°	37874.3	37724.2	37590.7	37450.0	37324.0	37200.2	37093.3	37001.3	36932.2	36887.5	36860.3
10°	*38461.1*	*38260.1*	*38061.3*	*37852.0*	*37653.6*	*37461.2*	*37283.5*	*37127.3*	*37003.6*	*36921.4*	*36873.4*
12.5°	38724.2	38552.9	38349.9	38122.7	37879.5	37633.4	37393.7	37177.4	36995.9	36874.1	36803.8
15°	38492.5	38422.2	38284.4	38108.1	37877.3	37622.9	37341.4	37076.7	36833.3	36675.4	36583.9
17.5°	37738.9	37837.1	37826.5	37759.1	37593.2	37379.1	37092.2	36794.9	36490.4	36279.3	36164.0
20°	36467.2	36775.7	36932.2	37012.5	36947.3	36808.5	36548.7	36247.0	35892.1	35616.6	35448.4
22.5°	34680.1	35224.8	35564.1	35812.5	35865.1	35817.9	35588.4	35301.5	34905.9	34574.7	34326.4
25°	32379.5	33177.5	33713.8	34134.3	34297.6	34339.8	34144.6	33859.3	33418.2	33032.4	32691.4
27.5°	29669.8	30706.5	31422.7	31987.7	32242.8	32353.3	32173.7	31882.6	31360.8	30900.3	30454.8
30°	26619.1	27849.2	28711.4	29388.9	29699.8	29845.9	29655.1	29330.2	28722.9	28168.7	27607.5
32.5°	23354.0	24700.0	25639.6	26375.3	26683.4	26820.8	26571.2	26206.2	25504.4	24851.6	24197.0
35°	19935.4	21294.0	22241.5	22957.7	23215.9	23298.7	22979.5	22557.6	21780.1	21063.5	20349.9
37.5°	16447.2	17711.2	18572.3	19215.1	19374.9	19389.1	19004.5	18538.5	17721.3	17014.8	16304.4
40°	12989.2	14055.1	14750.4	15264.9	15320.3	15270.8	14852.6	14383.7	13619.2	12986.2	12362.5
42.5°	9731.9	10536.5	11032.6	11385.1	11364.2	11266.4	10882.9	10479.9	9849.1	9367.0	8876.2
45°	6941.3	7471.8	7761.8	7968.1	7901.9	7808.8	7510.3	7227.8	6799.2	6487.8	6158.0
47.5°	4822.2	5455.7	5345.4	5748.7	5401.3	5630.8	5152.8	4889.3	4661.9	4496.4	4310.0
50°	3452.3	3597.4	3667.6	3715.4	3690.0	3654.7	3568.9	3492.1	3388.2	3312.5	3224.2
52.5°	2666.1	2738.6	2778.4	2807.2	2801.6	2788.7	2751.2	2717.1	2668.4	2636.3	2597.7
55°	2258.3	2259.4	2332.5	2301.1	2347.5	2293.2	2314.6	2254.4	2264.1	2212.4	2177.8
57.5°	1876.6	1906.3	1919.7	1932.7	1929.0	1926.7	1912.2	1905.0	1888.6	1883.6	1871.9
60°	1650.7	1666.3	1669.5	1675.4	1670.4	1668.6	1657.2	1653.2	1642.2	1640.1	1632.5
62.5°	1495.8	1503.8	1503.8	1503.8	1497.3	1491.1	1478.5	1471.9	1462.5	1460.5	1456.0
65°	1366.6	1374.8	1376.2	1377.9	1373.2	1368.3	1357.2	1350.1	1340.5	1336.8	1331.7
67.5°	1233.2	1242.0	1244.9	1249.4	1246.7	1245.7	1238.1	1235.3	1229.0	1227.5	1222.7
70°	1128.4	1132.0	1131.7	1131.7	1125.7	1120.4	1111.6	1107.4	1100.8	1099.5	1095.1
72.5°	1066.1	1068.7	1067.1	1064.7	1057.1	1049.2	1038.9	1031.3	1022.7	1017.3	1011.2
75°	978.4	981.8	979.5	978.1	971.2	966.1	957.8	953.6	947.5	945.8	941.6
77.5°	870.6	872.2	868.8	868.3	863.1	859.9	853.6	852.6	848.1	848.2	844.2
80°	750.7	749.8	744.1	743.0	737.8	736.4	731.5	731.8	728.3	729.8	726.9
82.5°	617.7	614.4	607.0	604.7	598.7	598.1	594.9	597.6	595.5	598.7	596.8
85°	442.7	443.6	440.4	440.4	438.6	439.2	438.9	440.9	441.2	444.1	444.1
87.5°	246.8	250.3	249.7	252.9	252.7	256.4	257.6	263.1	263.7	268.7	268.7
90°	113.8	117.2	113.7	117.3	115.8	120.7	120.1	124.8	123.7	127.7	125.4
92.5°	83.9	78.3	73.0	67.3	64.5	61.5	59.2	55.9	53.4	50.3	47.5
95°	105.5	96.2	86.7	77.4	74.1	70.8	67.6	64.4	61.3	58.1	54.9
97.5°	119.1	108.0	97.0	85.8	83.1	80.3	77.4	74.7	71.8	69.1	66.3
100°	162.4	141.7	121.1	100.3	97.9	95.5	93.2	90.9	88.5	86.0	83.7
102.5°	337.4	293.4	249.4	205.5	197.2	188.8	180.5	172.1	163.7	155.4	147.1
105°	637.9	566.6	495.5	424.2	401.5	378.9	356.4	333.6	311.0	288.4	265.8
107.5°	969.6	897.2	825.0	752.7	711.0	669.2	627.4	585.4	543.8	501.8	459.9
110°	1155.7	1103.1	1050.3	997.4	963.9	930.3	896.5	862.8	829.2	795.4	761.7

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

Scaled Data Report

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	1187.0	1149.2	1111.5	1073.6	1058.5	1043.1	1028.0	1012.7	997.4	981.9	966.7
115°	1113.7	1088.3	1062.8	1037.0	1031.9	1026.4	1021.2	1015.6	1010.4	1004.8	999.3
117.5°	996.2	981.9	967.5	953.3	954.1	955.0	956.2	956.9	957.7	958.3	959.1
120°	874.6	868.4	862.5	856.4	861.2	865.7	870.6	874.9	879.4	883.7	888.1
122.5°	774.9	772.4	770.3	767.6	773.5	779.1	784.6	790.2	795.6	800.7	806.0
125°	696.9	695.5	694.5	693.0	699.0	704.7	710.3	715.8	721.2	726.4	731.6
127.5°	644.7	644.4	644.3	643.8	648.2	652.0	656.1	659.8	663.8	667.2	670.8
130°	608.3	607.7	607.2	606.5	610.3	614.0	617.8	621.0	624.6	627.5	630.7
132.5°	585.0	584.1	583.5	582.6	585.6	588.2	590.9	593.1	595.5	597.4	599.5
135°	565.8	564.6	563.8	562.7	565.2	567.8	570.2	572.4	574.6	576.3	578.2
137.5°	549.7	548.5	547.6	546.4	548.9	551.1	553.1	555.1	557.1	558.8	560.3
140°	535.8	534.3	533.3	531.7	533.9	535.8	537.8	539.4	541.3	542.5	544.0
142.5°	522.4	520.3	518.9	516.9	518.5	519.8	521.2	522.5	523.7	524.7	525.6
145°	513.7	511.3	509.4	507.1	508.3	509.4	510.6	511.6	512.4	513.0	513.8
147.5°	505.8	503.5	501.4	499.2	500.3	501.0	501.6	502.2	503.0	503.5	503.9
150°	497.9	495.4	493.2	490.8	491.6	492.2	492.6	493.3	494.0	494.2	494.6
152.5°	488.9	486.7	484.4	482.1	482.7	483.2	483.5	483.8	484.2	484.6	484.8
155°	483.6	481.7	479.8	477.7	478.3	478.5	478.8	479.1	479.3	479.4	479.5
157.5°	482.1	480.4	479.2	477.4	477.5	477.6	477.7	477.4	477.4	477.3	477.0
160°	481.3	480.0	478.6	477.2	477.1	477.1	477.2	476.8	476.8	476.5	476.2
162.5°	481.5	480.1	478.4	476.8	476.7	476.8	476.7	476.4	476.3	476.0	475.8
165°	483.4	482.3	481.2	479.9	479.7	479.4	479.3	478.8	478.5	477.9	477.6
167.5°	485.9	484.9	483.7	482.4	482.4	482.6	482.5	482.3	482.2	481.9	481.8
170°	489.0	488.0	487.2	486.1	485.8	485.8	485.5	485.2	484.8	484.5	484.1
172.5°	491.5	490.6	489.6	488.4	488.4	488.3	488.0	487.9	487.5	487.2	487.1
175°	490.5	489.9	489.0	488.3	488.2	488.1	487.9	487.8	487.5	487.4	487.1
177.5°	492.6	492.3	491.6	491.1	491.0	491.0	490.8	490.8	490.8	490.6	490.5
180°	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1	493.1

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	36472.1	36472.1
2.5°	36613.3	36611.5
5°	36749.4	36747.3
7.5°	36853.0	36852.4
10°	*36865.2*	*36871.5*
12.5°	36791.7	36796.7
15°	36576.8	36586.9
17.5°	36166.2	36179.3
20°	35458.7	35472.4
22.5°	34313.0	34318.7
25°	32647.3	32623.6
27.5°	30376.4	30335.8
30°	27489.7	27450.3
32.5°	24047.8	24023.2
35°	20173.4	20157.9
37.5°	16094.4	16062.8
40°	12134.5	12042.3
42.5°	8661.2	8499.5
45°	5985.7	5793.9
47.5°	4178.6	4060.1
50°	3167.3	3129.1
52.5°	2580.8	2571.9
55°	2177.6	2173.7
57.5°	1874.5	1873.2
60°	1636.5	1636.1
62.5°	1459.1	1459.7
65°	1334.0	1334.3
67.5°	1224.0	1223.2
70°	1096.7	1095.8
72.5°	1009.2	1007.7
75°	941.6	940.7
77.5°	845.3	843.9
80°	728.9	726.9
82.5°	599.5	597.3
85°	447.2	447.3
87.5°	273.6	273.5
90°	129.1	126.2
92.5°	45.0	42.5
95°	51.7	48.5
97.5°	63.5	60.8
100°	81.3	79.0
102.5°	138.8	130.5
105°	243.2	220.6
107.5°	418.1	376.3
110°	728.0	694.3

TEST NUMBER: P1444696
CATALOG NUMBER: EHBR1-48-UNV-TA-L930-UPL40

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	951.2	935.9
115°	993.4	987.8
117.5°	959.7	960.1
120°	892.1	896.4
122.5°	810.8	815.8
125°	736.5	741.4
127.5°	674.0	677.1
130°	633.1	636.0
132.5°	601.1	602.7
135°	579.5	580.9
137.5°	561.3	562.6
140°	544.8	545.8
142.5°	526.2	526.8
145°	514.4	514.7
147.5°	503.8	504.1
150°	494.7	494.8
152.5°	484.7	484.9
155°	479.4	479.4
157.5°	476.6	476.4
160°	475.9	475.6
162.5°	475.4	475.2
165°	476.8	476.3
167.5°	481.4	481.3
170°	483.7	483.4
172.5°	486.7	486.4
175°	487.0	486.8
177.5°	490.5	490.2
180°	493.1	493.1

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: SP1-2506-472-5

Test Date: 08/01/2025

Luminaire Tested: EHBR-60-L930-N

Data in this report applies to families of products including EHBR-60-L930-N

Report Generated By FNC07603 / LDUCLS01DT446
Version: v7.04

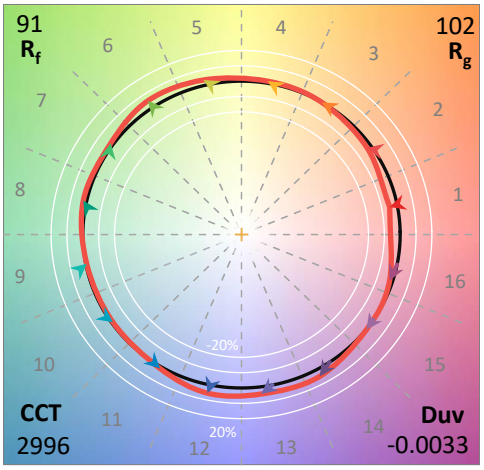
Test Information

Test Method:	LM-79-2019
Report Number:	SP1-2506-472-5
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-L930-N**
Description:	Elevate Round Highbay at, 60000 lumens, 3000K 90CRI LEDs with N lens

Spectral Parameters

CCT (K):	2996
CIE u':	0.2519
CIE v':	0.5169
Duv:	-0.0033
CIE x:	0.4325
CIE y:	0.3945
CIE z:	0.1730
Peak Wavelength (nm):	630
Dominant Wavelength (nm):	584
Purity:	48.21818
Rf:	91.3
Rg:	102

CRI (Ra):	94.4
R1:	96.8
R2:	98.1
R3:	97.8
R4:	95.6
R5:	96.9
R6:	95.7
R7:	90.9
R8:	83.0
R9:	61.4
R10:	94.4
R11:	95.7
R12:	88.5
R13:	97.3
R14:	97.8
R15:	92.3



Test Conditions

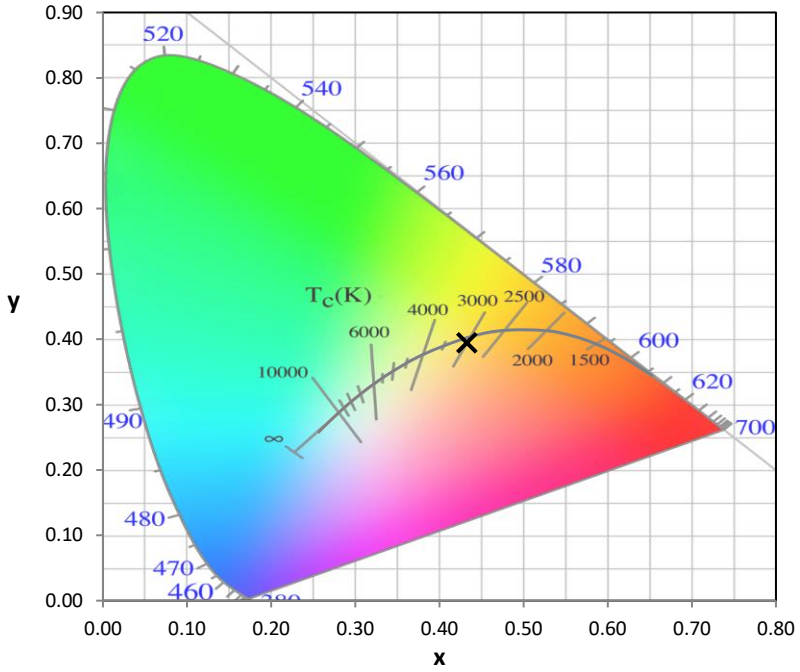
Stabilization Time:	40M
Operation Time:	1H 40M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-5

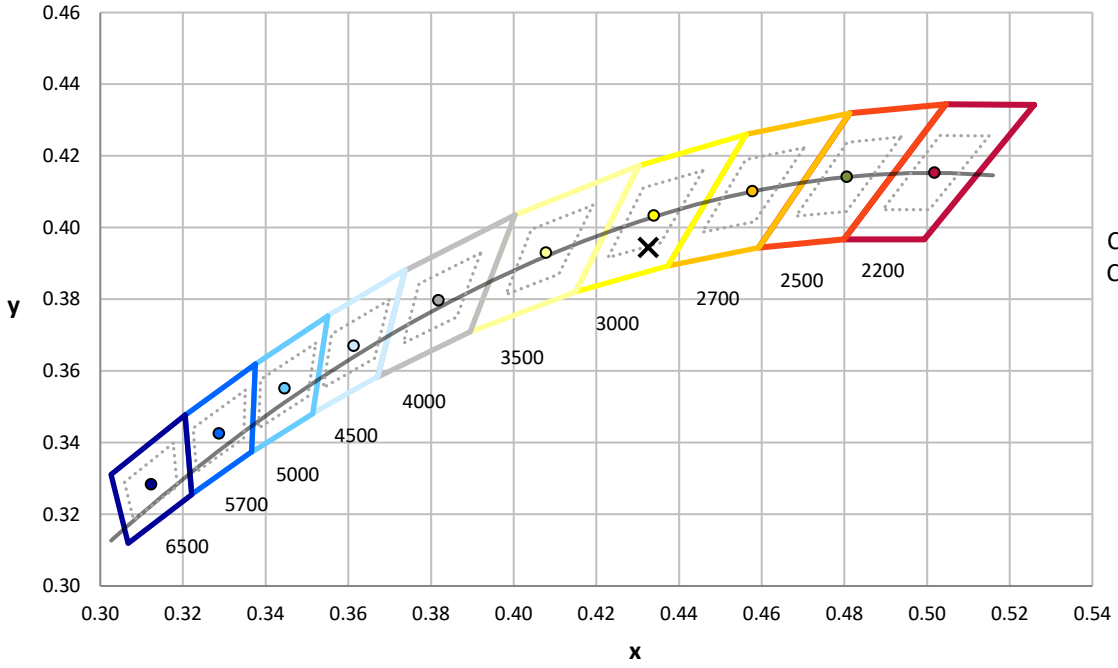
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208	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: SP1-2506-472-5

CIE 1931 Chromaticity Diagram



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

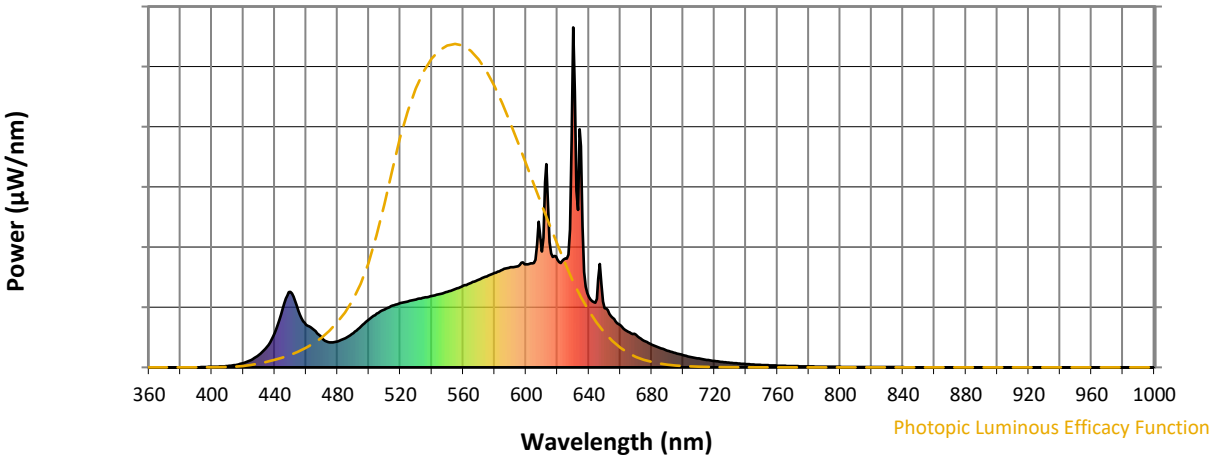


CCT = 2996K
CIE x = 0.4325
CIE y = 0.3945
Duv = -0.0033

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-472-5

Photopic Flux vs. Wavelength

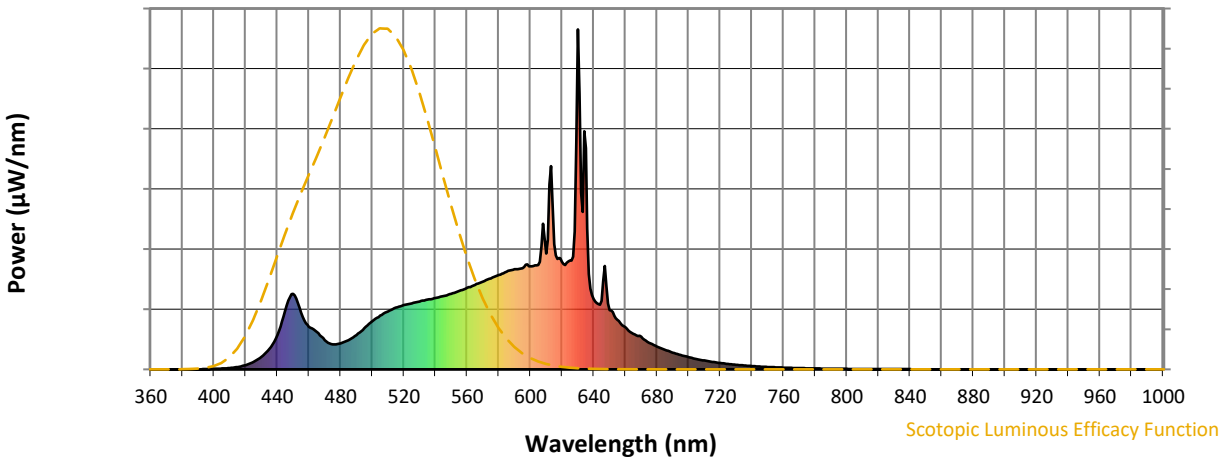


Photopic Lumens: NR

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-5

Scotopic Flux vs. Wavelength

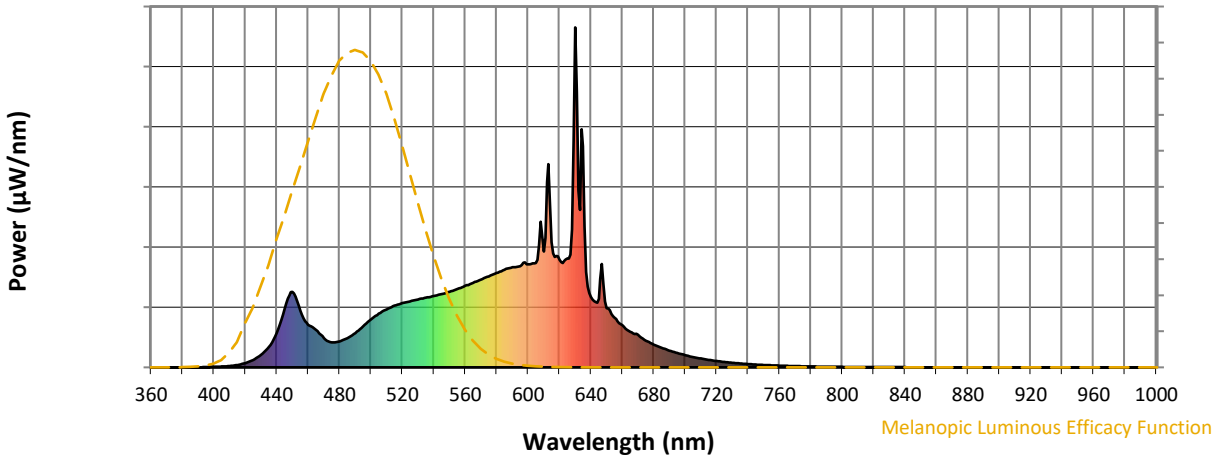


Scotopic Lumens: NR **S/P: 1.44**

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

REPORT NUMBER: SP1-2506-472-5

Melanopic Flux vs. Wavelength



Melanopic Lumens: NR **M/P: 2.85**

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	101	NR	620	317	NR	750	7	NR	880	0	NR
365	0	NR	495	121	NR	625	320	NR	755	6	NR	885	0	NR
370	0	NR	500	141	NR	630	1000	NR	760	5	NR	890	0	NR
375	0	NR	505	158	NR	635	651	NR	765	4	NR	895	0	NR
380	0	NR	510	171	NR	640	207	NR	770	4	NR	900	0	NR
385	0	NR	515	182	NR	645	201	NR	775	3	NR	905	0	NR
390	0	NR	520	189	NR	650	174	NR	780	3	NR	910	0	NR
395	1	NR	525	194	NR	655	146	NR	785	2	NR	915	0	NR
400	1	NR	530	199	NR	660	124	NR	790	2	NR	920	0	NR
405	3	NR	535	205	NR	665	105	NR	795	2	NR	925	0	NR
410	4	NR	540	210	NR	670	96	NR	800	1	NR	930	0	NR
415	7	NR	545	216	NR	675	79	NR	805	1	NR	935	0	NR
420	13	NR	550	222	NR	680	67	NR	810	1	NR	940	0	NR
425	22	NR	555	230	NR	685	58	NR	815	1	NR	945	0	NR
430	37	NR	560	240	NR	690	49	NR	820	1	NR	950	0	NR
435	60	NR	565	248	NR	695	42	NR	825	1	NR	955	0	NR
440	101	NR	570	258	NR	700	36	NR	830	1	NR	960	0	NR
445	172	NR	575	268	NR	705	30	NR	835	1	NR	965	0	NR
450	223	NR	580	278	NR	710	26	NR	840	1	NR	970	0	NR
455	167	NR	585	287	NR	715	22	NR	845	0	NR	975	0	NR
460	126	NR	590	295	NR	720	19	NR	850	0	NR	980	0	NR
465	111	NR	595	298	NR	725	16	NR	855	0	NR	985	0	NR
470	86	NR	600	303	NR	730	14	NR	860	0	NR	990	0	NR
475	74	NR	605	307	NR	735	12	NR	865	0	NR	995	0	NR
480	77	NR	610	341	NR	740	10	NR	870	0	NR	1000	0	NR
485	86	NR	615	368	NR	745	8	NR	875	0	NR			

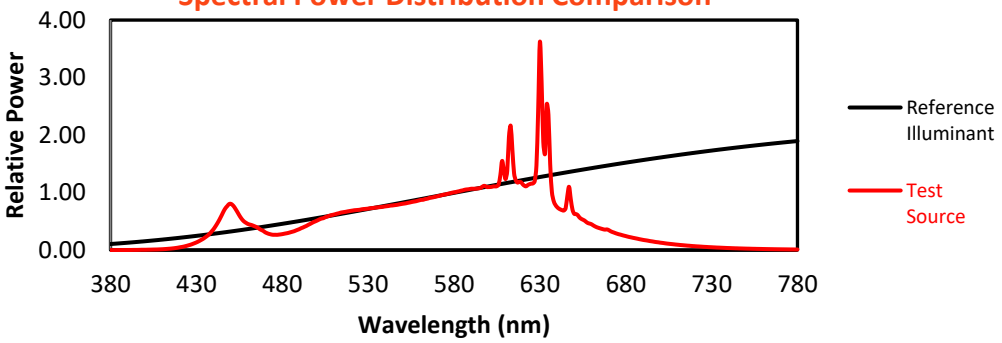
REPORT NUMBER: SP1-2506-472-5

TM-30-18

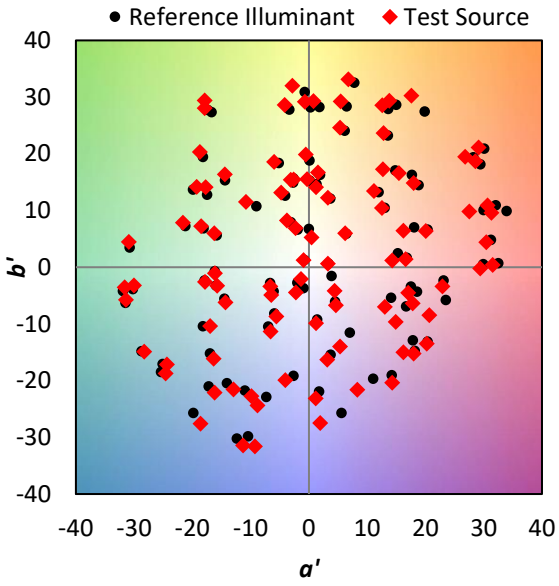
Summary

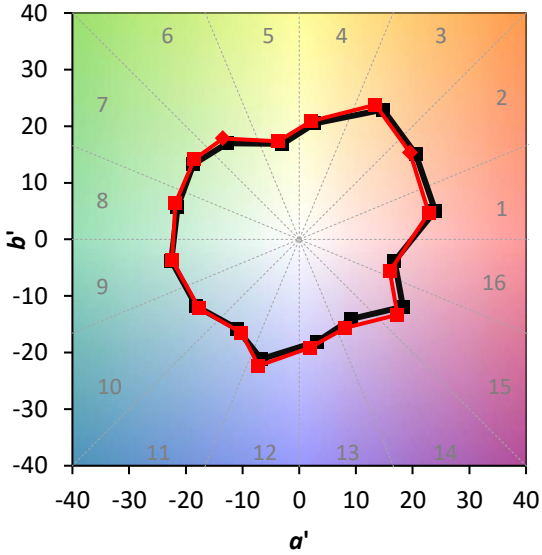
R_f = 91.3
R_g = 102
CIE R_a = 94.4
R_9 = 61.4

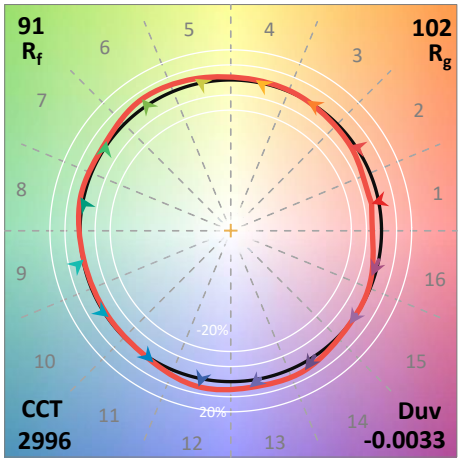
Spectral Power Distribution Comparison

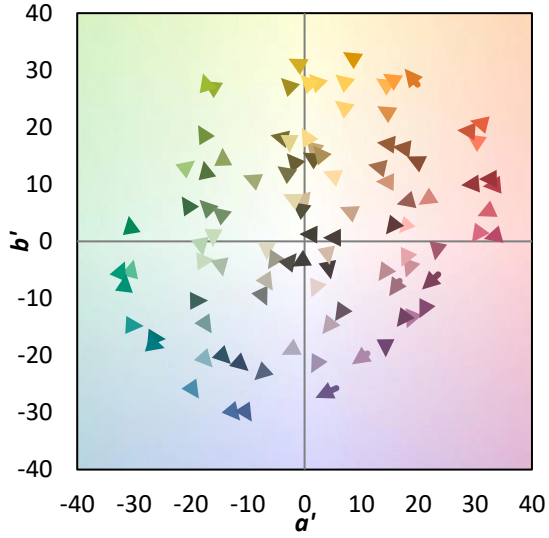


Color Vector Graphics









REPORT NUMBER: SP1-2506-472-5

TM-30-18

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

CES01 = 86	CES26 = 91	CES51 = 96	CES76 = 89
CES02 = 63	CES27 = 96	CES52 = 95	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 93	CES78 = 86
CES04 = 70	CES29 = 90	CES54 = 98	CES79 = 89
CES05 = 51	CES30 = 96	CES55 = 98	CES80 = 91
CES06 = 51	CES31 = 90	CES56 = 95	CES81 = 72
CES07 = 44	CES32 = 84	CES57 = 95	CES82 = 95
CES08 = 42	CES33 = 91	CES58 = 95	CES83 = 93
CES09 = 29	CES34 = 92	CES59 = 99	CES84 = 96
CES10 = 76	CES35 = 96	CES60 = 96	CES85 = 80
CES11 = 59	CES36 = 90	CES61 = 96	CES86 = 77
CES12 = 65	CES37 = 94	CES62 = 95	CES87 = 91
CES13 = 44	CES38 = 99	CES63 = 94	CES88 = 96
CES14 = 74	CES39 = 97	CES64 = 96	CES89 = 82
CES15 = 72	CES40 = 94	CES65 = 92	CES90 = 97
CES16 = 48	CES41 = 94	CES66 = 95	CES91 = 82
CES17 = 50	CES42 = 91	CES67 = 94	CES92 = 78
CES18 = 57	CES43 = 88	CES68 = 93	CES93 = 87
CES19 = 72	CES44 = 99	CES69 = 94	CES94 = 73
CES20 = 67	CES45 = 93	CES70 = 90	CES95 = 85
CES21 = 86	CES46 = 93	CES71 = 90	CES96 = 92
CES22 = 79	CES47 = 86	CES72 = 96	CES97 = 93
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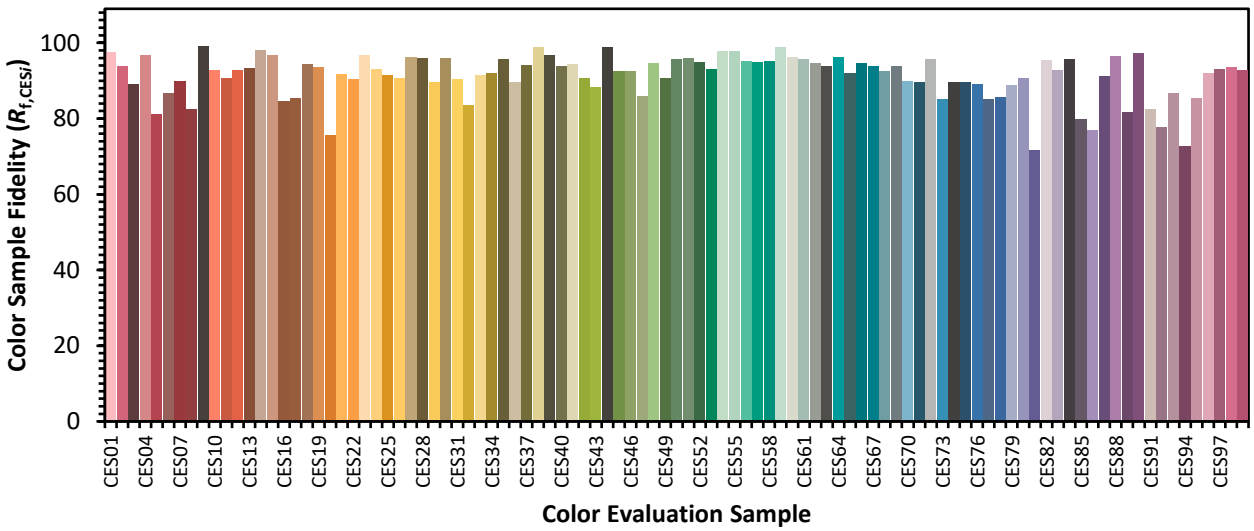
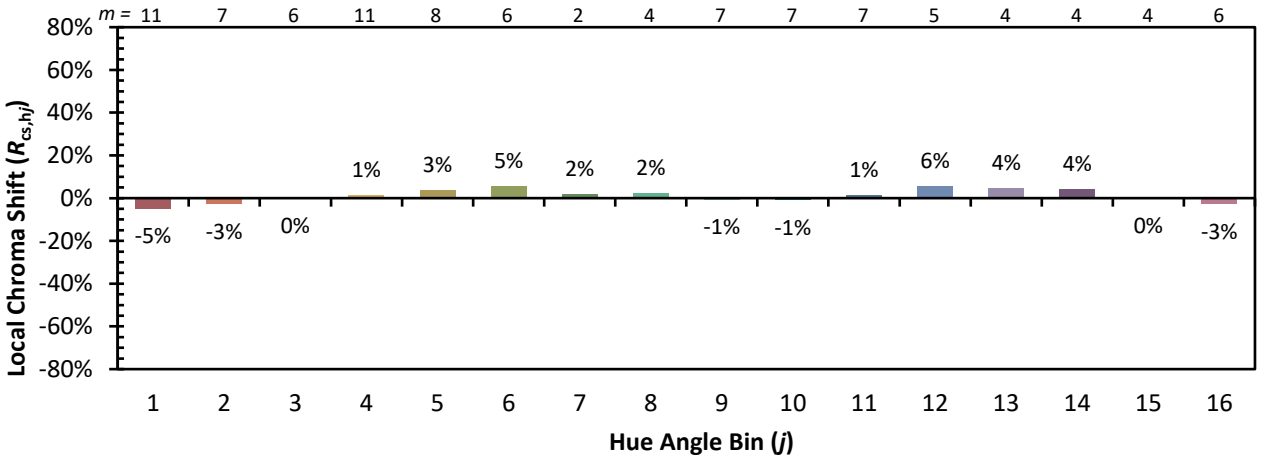
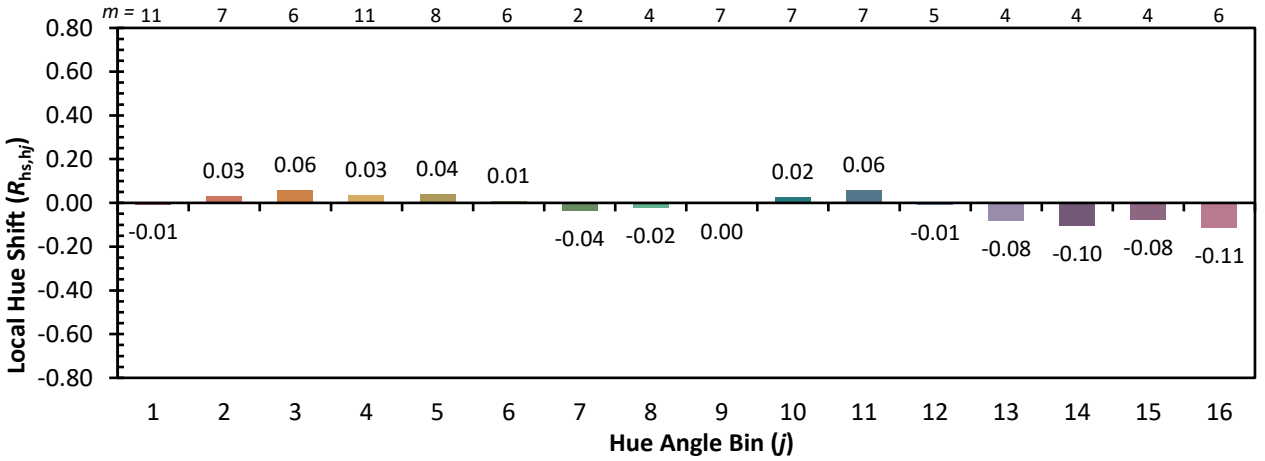


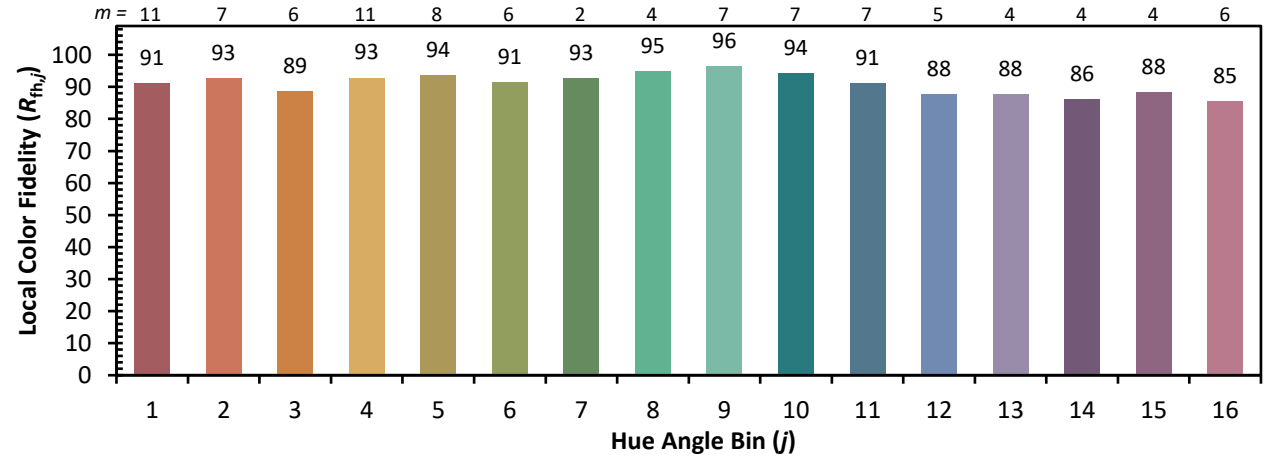
REPORT NUMBER: SP1-2506-472-5

TM-30-18

Color Rendition by Hue-Angle Bin



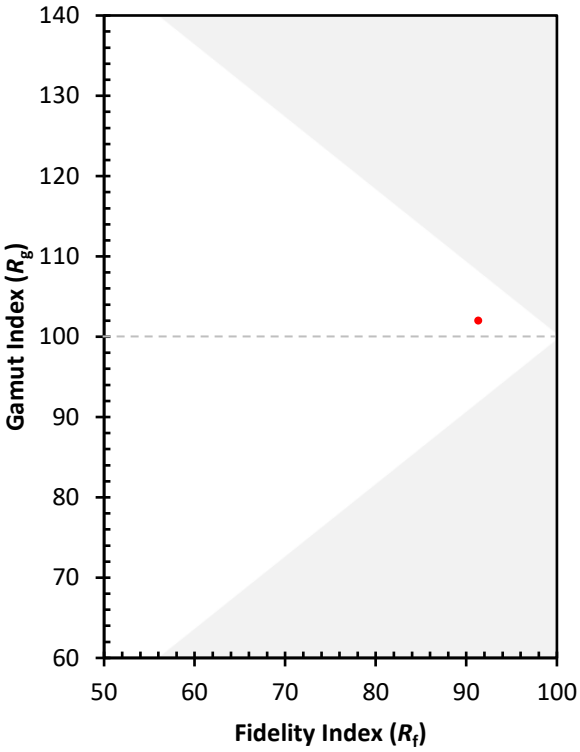


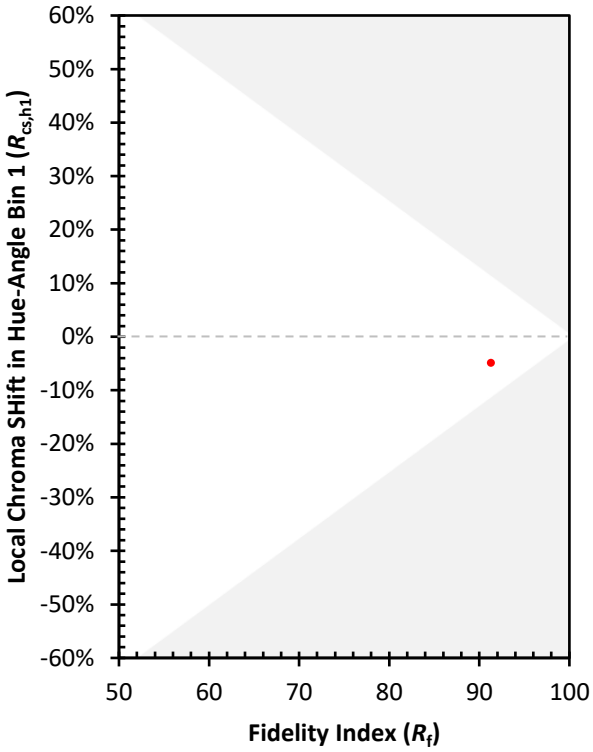


REPORT NUMBER: SP1-2506-472-5

TM-30-18

Measure Comparisons





(END OF REPORT)