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: P1444653

Luminaire Tested: EHBR1-18-UNV-TA-L930-UPL24

Issue Date: 5/1/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1444653
	REPORT IS A COMBINATION OF REPORTS P1444328 AND P1431635
Test Lab:	INNOVATION CENTER
Issue Date:	5/1/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	METALUX
Catalog Number:	EHBR1-18-UNV-TA-L930-UPL24
Description:	Elevate Round Highbay at, 18000 lumens, 3000K 90CRI LEDs with TA lens
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	18491.1 lumens
Efficiency:	N/A
Efficacy:	166.3 lumens/watt
Spacing Criteria (0/90/45):	1.13 / 0.77 / 0.88
Luminous Opening:	Vertical Cylinder (Dia: 1.71' x H: 0.1')
CIE Type:	Semi-Direct

Input Watts (W):	111.2
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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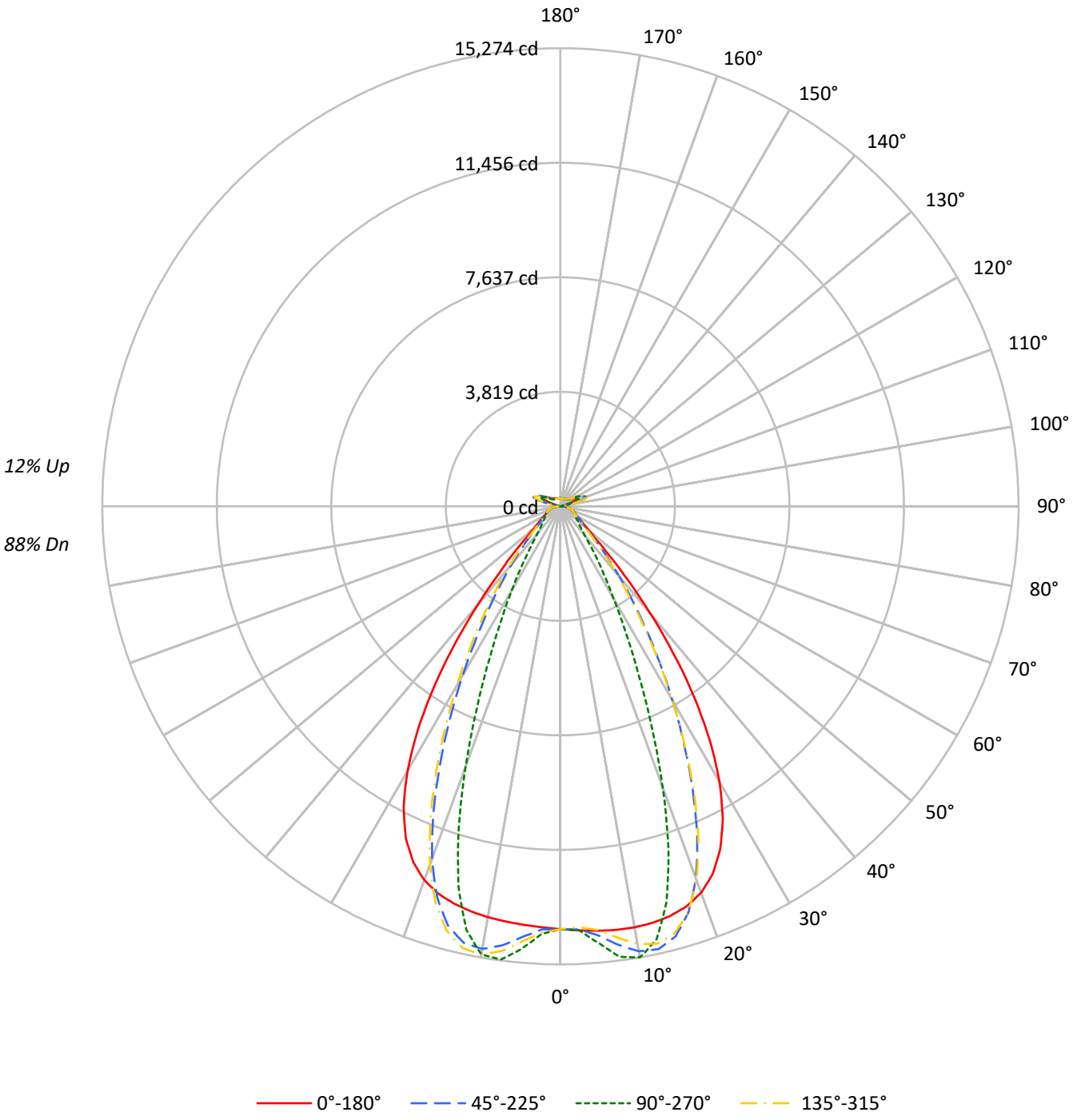
Luminous Intensity Polar Plot



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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88
1	109	105	102	99	105	102	99	97	96	93	92	90	88	87	84	83	82	79
2	102	96	91	87	99	93	89	85	88	84	81	83	80	78	79	76	74	72
3	96	88	82	77	92	86	80	76	81	77	73	77	73	70	73	70	68	66
4	90	81	74	69	87	79	73	68	75	70	66	72	68	64	68	65	62	60
5	85	75	68	63	82	73	67	62	70	65	61	67	62	59	64	60	57	55
6	80	69	63	58	77	68	62	57	65	60	56	62	58	54	60	56	53	51
7	75	65	58	53	73	63	57	53	61	55	51	59	54	50	56	52	49	47
8	71	60	54	49	69	59	53	49	57	52	48	55	50	47	53	49	46	44
9	67	57	50	46	65	56	49	45	54	48	44	52	47	44	50	46	43	41
10	64	53	47	43	62	52	46	42	51	45	42	49	44	41	47	43	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	66209	66209	66209	66209
5°	66530	68470	65599	69367
10°	67085	71888	65477	71413
15°	67414	65166	65362	62542
20°	66718	48546	64534	44917
25°	63150	30703	61063	27857
30°	55167	18450	53030	16862
35°	42457	11578	40015	10256
40°	26858	7262	24572	6824
45°	13843	5658	13613	5564
50°	8116	5032	7867	4954
55°	6218	4761	5988	4718
60°	5261	4864	5037	4801
65°	4942	5079	4752	4905
70°	4828	5319	4587	5118
75°	5162	5641	4883	5392
80°	5342	6246	4843	5703
85°	5031	6026	4065	5159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 25°
Vertical Angle: 45°
Luminance: 21185 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1389.5	7.5
10°-20°	3908.7	21.1
20°-30°	4451.7	24.1
30°-40°	3199.7	17.3
40°-50°	1475.7	8.0
50°-60°	706.2	3.8
60°-70°	515.3	2.8
70°-80°	391.5	2.1
80°-90°	181.9	1.0
90°-100°	62.8	0.3
100°-110°	382.1	2.1
110°-120°	706.3	3.8
120°-130°	426.7	2.3
130°-140°	267.2	1.4
140°-150°	192.5	1.0
150°-160°	130.5	0.7
160°-170°	76.9	0.4
170°-180°	26.0	0.1
0°-30°	9749.9	52.7
0°-40°	12949.6	70.0
0°-60°	15131.5	81.8
0°-90°	16220.1	87.7
90°-120°	1151.3	6.2
90°-150°	2037.6	11.0
90°-180°	2271.0	12.3
0°-180°	18491.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	14099	14099	14099	14099	14099	
5°	14205	14619	14006	14811	14205	1357
15°	14143	13672	13713	13121	14143	3985
25°	12611	6131	12194	5563	12611	5717
35°	7792	2125	7344	1882	7792	4782
45°	2240	915	2203	900	2240	1905
55°	840	643	809	638	840	776
65°	516	530	496	512	516	515
75°	364	397	344	380	364	378
85°	173	207	140	177	173	162
90°	55	67	22	25	55	33
95°	29	32	29	32	29	28
105°	136	177	90	177	136	180
115°	614	749	643	749	614	566
125°	454	484	515	484	454	414
135°	347	314	374	316	347	271
145°	299	296	319	299	299	189
155°	273	277	292	279	273	127
165°	266	268	277	269	266	76
175°	270	273	275	273	270	26
180°	273	273	273	273	273	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14152.7	14151.6	14151.4	14150.4	14150.1	14150.1	14149.6	14148.4	14147.7	14146.1	14144.3
5°	14205.2	14204.6	14204.9	14205.0	14204.0	14201.9	14198.4	14194.2	14188.9	14183.8	14179.4
7.5°	14245.8	14246.8	14248.1	14247.8	14244.7	14239.5	14232.5	14228.6	14230.9	14238.5	14256.1
10°	*14253.2*	*14259.3*	*14261.6*	*14260.9*	*14254.8*	*14250.3*	*14252.1*	*14267.0*	*14296.7*	*14336.4*	*14390.7*
12.5°	14224.4	14231.8	14231.5	14229.1	14223.1	14229.2	14250.8	14295.2	14359.0	14437.3	14529.0
15°	14143.2	14152.8	14150.1	14146.9	14142.9	14162.9	14206.1	14283.3	14381.7	14492.1	14605.0
17.5°	13985.6	13997.3	13991.6	13988.0	13984.6	14022.0	14096.2	14209.3	14333.3	14458.1	14565.0
20°	13712.4	13720.2	13706.7	13700.4	13705.7	13778.9	13888.2	14032.6	14163.3	14281.3	14354.5
22.5°	13266.4	13276.1	13250.9	13247.9	13279.0	13391.3	13529.7	13691.2	13814.0	13907.5	13935.6
25°	12611.1	12620.7	12590.7	12608.6	12661.6	12814.5	12979.4	13152.1	13256.8	13326.1	13306.9
27.5°	11726.8	11735.4	11707.0	11743.6	11827.4	12028.3	12222.2	12409.6	12503.0	12551.5	12490.0
30°	10611.3	10629.3	10595.7	10646.8	10774.7	11035.6	11257.8	11467.8	11560.9	11597.9	11502.2
32.5°	9286.6	9312.2	9275.2	9351.1	9529.5	9842.9	10095.4	10330.1	10433.0	10475.3	10367.1
35°	7792.3	7829.1	7786.7	7900.7	8120.7	8469.7	8749.2	9011.3	9133.2	9193.0	9084.1
37.5°	6209.3	6244.4	6221.4	6373.5	6615.1	6976.8	7262.2	7544.8	7682.6	7772.3	7686.4
40°	4655.1	4687.2	4704.6	4878.5	5105.8	5446.7	5720.8	6000.5	6154.6	6267.2	6214.2
42.5°	3285.6	3318.0	3377.1	3545.0	3734.4	4016.6	4251.4	4502.6	4649.8	4769.9	4749.4
45°	2239.7	2277.3	2351.4	2488.8	2625.8	2828.4	3000.7	3196.1	3316.3	3426.3	3427.6
47.5°	1569.5	1595.9	1662.1	1755.9	1845.3	2098.7	2109.1	2205.1	2286.0	2368.2	2378.9
50°	1209.5	1225.5	1260.6	1312.9	1363.5	1429.3	1489.5	1559.1	1608.9	1654.0	1664.7
52.5°	994.2	1004.3	1022.1	1050.5	1079.9	1115.6	1147.9	1186.1	1213.1	1237.3	1242.3
55°	840.3	848.6	875.2	880.6	914.2	920.6	935.0	958.2	974.0	988.5	992.0
57.5°	724.1	730.2	735.8	747.8	758.3	773.2	785.4	802.0	812.0	822.4	823.3
60°	632.4	636.8	640.9	649.2	656.3	666.8	675.1	686.4	693.6	701.4	702.3
62.5°	564.3	567.4	570.1	575.6	580.7	588.7	595.3	604.7	611.4	617.5	618.8
65°	515.8	518.1	519.8	524.0	528.4	535.2	541.2	548.9	553.8	558.5	559.5
67.5°	472.8	475.1	476.8	480.6	483.6	488.8	492.8	498.6	502.2	506.0	506.1
70°	423.6	425.6	427.0	430.6	433.0	437.4	440.7	445.8	449.7	453.8	454.8
72.5°	389.5	390.8	392.5	395.8	399.2	403.9	408.2	413.7	418.2	422.5	424.4
75°	363.6	365.0	366.3	369.0	371.3	375.3	378.6	383.5	387.5	392.1	394.3
77.5°	326.2	327.9	328.8	331.7	333.6	337.5	339.9	344.3	347.5	351.7	353.8
80°	281.0	282.5	283.3	285.9	287.5	291.0	293.4	297.6	300.3	304.5	307.0
82.5°	230.9	232.3	232.8	235.3	236.2	239.0	240.7	245.2	248.4	253.9	257.6
85°	172.9	173.4	174.2	173.6	177.2	177.3	181.3	182.1	187.2	188.7	194.6
87.5°	105.7	107.3	108.1	110.5	111.5	113.9	114.6	117.2	118.6	121.6	122.9
90°	54.8	57.9	59.4	62.9	64.3	67.5	68.9	72.4	73.9	77.5	79.9
92.5°	25.2	27.0	28.7	30.7	32.3	34.4	36.3	38.1	39.9	42.0	45.4
95°	28.9	30.9	32.9	34.9	36.9	38.9	40.9	43.0	44.9	47.0	52.8
97.5°	36.4	38.1	39.8	41.6	43.3	45.1	46.8	48.6	50.3	52.0	59.0
100°	47.7	49.2	50.6	52.1	53.6	55.1	56.5	58.0	59.4	61.0	73.9
102.5°	79.5	84.7	89.9	95.2	100.4	105.5	110.9	116.0	121.2	126.5	153.9
105°	135.6	149.7	164.0	178.1	192.3	206.5	220.6	234.8	249.0	263.1	307.8
107.5°	232.8	258.9	285.2	311.4	337.7	363.9	390.1	416.3	442.5	468.7	514.0
110°	431.5	452.5	473.6	494.8	515.9	537.0	558.0	579.1	600.2	621.2	654.3

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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°	582.2	591.7	601.3	610.9	620.4	630.0	639.6	649.1	658.6	668.1	691.8
115°	613.9	617.3	620.7	624.0	627.5	630.7	634.1	637.4	640.8	644.0	660.2
117.5°	595.3	594.7	594.2	593.8	593.1	592.6	592.0	591.4	590.7	590.2	599.3
120°	554.0	551.2	548.4	545.5	542.6	539.6	536.7	533.9	530.9	527.9	531.9
122.5°	502.1	498.6	495.3	491.8	488.3	484.9	481.4	477.8	474.4	470.9	472.4
125°	453.9	450.5	447.2	443.6	440.1	436.5	433.0	429.4	425.9	422.3	423.2
127.5°	412.0	409.7	407.3	404.8	402.3	399.7	397.2	394.7	392.2	389.5	390.0
130°	384.5	382.4	380.2	378.0	375.9	373.5	371.2	368.8	366.6	364.2	364.8
132.5°	361.9	360.5	359.0	357.4	355.9	354.1	352.6	350.8	349.2	347.5	348.1
135°	346.6	345.1	343.9	342.5	341.0	339.4	337.9	336.3	334.7	333.1	333.9
137.5°	333.4	332.3	331.1	329.7	328.4	326.9	325.5	324.0	322.6	321.1	321.8
140°	321.4	320.4	319.3	318.0	316.9	315.6	314.3	313.0	311.6	310.2	311.2
142.5°	308.2	307.3	306.5	305.6	304.7	303.5	302.5	301.4	300.4	299.2	300.5
145°	299.2	298.5	297.9	297.1	296.3	295.4	294.6	293.5	292.8	291.8	293.2
147.5°	291.5	291.0	290.4	289.8	289.3	288.5	287.7	286.9	286.3	285.5	286.8
150°	284.6	284.1	283.6	283.1	282.4	281.8	281.1	280.4	279.7	278.9	280.2
152.5°	277.6	277.1	276.6	276.1	275.5	274.7	274.2	273.5	272.9	272.2	273.2
155°	273.1	272.6	272.1	271.5	271.0	270.4	269.7	269.1	268.5	267.8	268.8
157.5°	270.1	269.7	269.3	268.8	268.5	268.0	267.5	267.0	266.6	266.1	266.8
160°	268.4	268.1	267.6	267.2	266.7	266.3	265.8	265.4	264.9	264.5	265.0
162.5°	266.9	266.4	266.0	265.6	265.2	264.7	264.3	263.9	263.5	263.0	263.7
165°	266.4	266.2	265.9	265.6	265.4	265.1	264.8	264.6	264.3	264.0	264.4
167.5°	268.3	267.9	267.6	267.2	266.9	266.5	266.1	265.6	265.5	264.9	265.5
170°	268.7	268.4	268.2	268.1	267.9	267.7	267.5	267.3	267.1	266.9	267.3
172.5°	269.8	269.6	269.5	269.4	269.2	269.0	268.9	268.8	268.7	268.4	268.9
175°	269.6	269.4	269.3	269.2	269.1	269.0	268.9	268.9	268.9	268.7	268.9
177.5°	271.3	271.2	271.2	271.2	271.2	271.1	271.1	271.0	270.9	270.9	271.1
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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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°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14142.9	14141.2	14138.9	14135.9	14133.3	14130.3	14123.3	14121.2	14123.6	14125.1	14128.4
5°	14176.5	14177.5	14177.9	14184.4	14189.9	14203.7	14312.1	14355.3	14388.6	14409.8	14441.9
7.5°	14277.8	14310.4	14342.7	14386.1	14423.4	14474.0	14663.8	14744.6	14802.0	14843.3	14894.1
10°	*14449.6*	*14520.8*	*14587.4*	*14665.7*	*14732.8*	*14809.8*	*14986.5*	*15065.2*	*15114.8*	*15151.0*	*15184.7*
12.5°	14622.5	14721.2	14810.4	14897.4	14970.2	15036.9	15099.0	15126.6	15128.9	15130.0	15112.1
15°	14712.6	14807.0	14885.5	14943.1	14985.8	15004.7	14897.8	14841.7	14770.7	14712.4	14616.2
17.5°	14655.8	14712.4	14746.3	14742.9	14725.3	14666.1	14363.2	14196.6	14031.1	13882.1	13686.6
20°	14403.0	14398.7	14369.2	14285.5	14184.7	14028.0	13508.5	13208.9	12919.1	12664.7	12356.0
22.5°	13932.8	13858.8	13755.6	13575.3	13374.9	13101.0	12356.7	11915.9	11512.5	11156.3	10757.1
25°	13251.5	13099.3	12909.0	12622.6	12311.3	11911.9	10994.4	10446.2	9961.9	9541.9	9081.3
27.5°	12379.5	12150.2	11871.4	11475.1	11053.2	10541.6	9524.4	8919.3	8399.5	7949.2	7459.0
30°	11347.2	11049.1	10689.0	10197.1	9688.3	9107.9	8076.3	7463.5	6937.3	6474.0	5983.5
32.5°	10180.6	9831.4	9409.5	8857.5	8307.1	7710.4	6714.2	6121.0	5618.3	5172.6	4728.7
35°	8894.0	8519.5	8073.1	7510.0	6963.0	6382.9	5468.7	4933.9	4489.9	4096.0	3737.5
37.5°	7513.8	7146.0	6721.9	6191.1	5683.9	5158.2	4369.4	3921.2	3548.7	3221.7	2944.9
40°	6078.8	5757.0	5390.0	4931.1	4498.2	4060.4	3413.0	3057.1	2763.2	2513.8	2306.4
42.5°	4661.4	4412.0	4130.5	3767.9	3436.7	3103.3	2605.0	2341.4	2123.6	1944.1	1797.4
45°	3382.1	3215.1	3026.4	2774.3	2545.1	2312.6	1957.9	1772.7	1630.9	1515.1	1417.3
47.5°	2364.2	2267.4	2261.5	2028.6	1860.5	1718.3	1489.8	1372.8	1285.9	1215.8	1153.8
50°	1660.3	1613.5	1555.3	1472.2	1394.2	1313.8	1174.6	1103.9	1053.0	1010.5	971.3
52.5°	1241.2	1216.9	1185.9	1141.8	1099.6	1054.3	966.3	921.2	905.2	865.7	834.6
55°	991.4	977.4	959.8	933.9	908.2	897.9	822.4	788.9	767.8	752.2	735.5
57.5°	823.5	813.1	802.6	785.1	770.2	752.2	712.1	694.9	682.3	673.2	661.6
60°	702.4	696.2	690.4	680.0	672.0	662.3	636.8	627.2	620.6	615.1	607.7
62.5°	620.0	616.8	613.7	608.3	604.2	598.9	581.5	576.8	573.5	570.8	566.3
65°	560.4	558.1	556.5	552.9	550.8	547.7	532.7	529.6	527.6	526.6	524.0
67.5°	506.3	503.9	502.9	500.3	499.4	497.5	485.2	483.5	482.8	483.2	482.2
70°	455.8	454.8	455.3	454.9	456.1	456.4	449.0	449.0	449.8	451.3	451.5
72.5°	425.5	425.5	426.1	426.3	427.4	427.9	421.8	421.5	421.9	423.0	423.0
75°	396.6	397.1	398.7	399.2	400.5	400.7	392.6	391.7	391.7	392.8	392.5
77.5°	356.7	358.4	361.4	363.0	365.5	366.0	356.8	355.7	355.7	356.9	355.9
80°	311.5	314.8	319.5	322.8	326.6	328.2	318.8	316.5	314.5	314.1	312.3
82.5°	263.3	267.3	273.0	276.0	280.1	281.1	265.3	262.4	260.6	260.7	259.1
85°	201.0	204.1	209.2	210.9	213.4	213.2	195.2	187.6	189.6	186.4	188.9
87.5°	126.1	127.9	131.1	131.5	132.7	132.4	114.4	110.9	109.8	109.9	108.5
90°	84.3	87.1	91.3	92.9	96.2	97.5	84.3	84.1	81.5	81.0	77.9
92.5°	49.1	52.6	56.2	59.8	63.4	67.0	68.9	71.9	68.4	64.5	61.0
95°	58.6	64.5	70.4	76.4	82.3	88.1	94.0	99.9	94.4	88.9	83.4
97.5°	65.9	72.9	79.8	86.8	93.7	100.7	107.6	114.6	108.7	102.7	96.9
100°	86.8	99.8	112.7	125.7	138.7	151.7	164.6	177.6	166.2	154.8	143.4
102.5°	181.5	209.1	236.5	264.1	291.6	319.1	346.8	374.4	348.2	322.0	295.8
105°	352.4	397.1	441.7	486.3	530.9	575.6	620.3	665.0	623.2	581.4	539.5
107.5°	559.2	604.5	649.7	695.0	740.3	785.5	831.1	876.3	835.6	794.7	754.1
110°	687.4	720.5	753.5	786.6	819.7	852.7	886.1	919.2	894.8	870.3	845.8

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	715.5	739.2	762.8	786.5	810.0	833.7	857.9	881.6	869.4	857.1	844.9
115°	676.1	692.1	708.1	724.1	740.2	756.0	772.6	788.7	784.8	781.0	777.2
117.5°	608.2	617.2	626.2	635.2	644.0	653.1	662.7	671.9	672.6	673.4	674.2
120°	535.8	539.7	543.4	547.3	551.1	555.0	559.6	563.7	567.2	570.5	574.0
122.5°	474.0	475.5	477.0	478.6	480.1	481.6	484.2	485.9	488.3	490.8	493.2
125°	424.0	424.9	425.7	426.6	427.2	428.1	430.2	431.1	431.5	431.8	432.0
127.5°	390.1	390.5	390.7	391.0	391.1	391.5	393.0	393.5	392.3	391.0	389.8
130°	365.3	365.8	366.3	366.8	367.2	367.9	369.6	370.5	368.2	365.8	363.5
132.5°	348.7	349.3	349.9	350.6	351.2	351.8	353.9	354.9	352.2	349.4	346.7
135°	334.5	335.4	336.0	336.9	337.6	338.5	340.7	341.8	339.3	336.7	334.1
137.5°	322.5	323.3	324.0	324.8	325.6	326.3	328.9	330.0	328.0	325.9	323.9
140°	312.0	312.9	313.9	314.8	315.6	316.7	319.4	320.7	319.2	317.6	316.0
142.5°	301.6	302.8	304.0	305.3	306.6	307.8	311.0	312.6	311.5	310.3	309.2
145°	294.3	295.9	297.1	298.6	300.0	301.5	304.9	306.8	306.2	305.4	304.8
147.5°	287.8	289.2	290.4	291.7	293.0	294.4	298.0	299.9	299.4	299.1	298.6
150°	281.4	282.7	283.9	285.3	286.7	288.0	292.0	294.0	293.7	293.3	292.9
152.5°	274.4	275.5	276.7	277.9	279.1	280.4	284.9	286.9	286.6	286.1	286.0
155°	269.6	270.5	271.4	272.4	273.3	274.5	279.1	281.0	280.8	280.6	280.4
157.5°	267.3	268.1	268.6	269.4	270.0	270.8	275.5	277.3	277.1	276.9	276.8
160°	265.6	266.1	266.5	267.2	267.7	268.3	273.0	274.6	274.6	274.4	274.2
162.5°	264.2	265.1	265.6	266.4	267.0	267.8	272.6	274.5	274.1	273.8	273.6
165°	264.8	265.2	265.6	266.2	266.6	267.1	271.5	273.0	272.9	272.6	272.5
167.5°	265.8	266.4	266.7	267.3	267.7	268.3	272.4	273.8	273.8	273.6	273.5
170°	267.6	268.0	268.3	268.8	269.2	269.7	273.1	274.3	274.1	273.8	273.6
172.5°	269.3	269.7	270.2	270.6	271.1	271.5	274.6	275.6	275.5	275.3	275.0
175°	269.3	269.6	270.0	270.4	270.7	271.0	273.4	274.2	274.1	274.0	273.9
177.5°	271.4	271.6	271.9	272.2	272.4	272.7	274.1	274.6	274.6	274.6	274.5
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	*14098.8*
2.5°	14129.1	14134.1	14134.8	14140.6	14140.2	14147.0	14145.9	14151.6	14148.3	14152.9	*14149.0*
5°	14461.0	14491.1	14506.8	14536.2	14545.4	14571.7	14579.1	14603.1	14604.1	14623.1	*14618.8*
7.5°	14930.1	14974.4	15000.8	15037.1	15055.5	15085.7	15099.1	15121.5	15128.7	15146.4	*15147.8*
10°	*15210.3*	*15231.8*	*15246.9*	*15257.0*	*15266.3*	*15270.6*	*15275.6*	*15274.3*	*15275.6*	*15273.7*	*15278.0*
12.5°	15100.1	15068.6	15047.9	15008.5	14985.6	14942.1	14920.7	14878.8	14863.7	14827.7	*14822.5*
15°	14542.0	14432.4	14354.9	14242.3	14171.4	14060.7	13995.8	13895.8	13850.2	13770.7	*13749.8*
17.5°	13524.7	13321.3	13163.8	12961.8	12821.6	12632.8	12514.1	12357.8	12272.2	12146.1	*12102.6*
20°	12098.6	11797.5	11561.3	11280.0	11078.6	10827.7	10667.0	10464.5	10346.8	10192.0	*10129.3*
22.5°	10424.3	10049.5	9754.4	9422.0	9179.1	8899.5	8707.0	8487.8	8359.9	8191.7	*8117.2*
25°	8698.6	8285.2	7957.2	7607.0	7350.3	7070.0	6877.5	6662.2	6529.7	6370.1	*6296.2*
27.5°	7048.1	6629.7	6312.7	5987.1	5751.6	5498.7	5325.0	5137.0	5019.5	4883.2	*4813.6*
30°	5591.6	5222.5	4952.8	4682.6	4486.7	4281.3	4136.9	3981.2	3878.1	3761.3	*3695.0*
32.5°	4405.0	4120.0	3908.8	3694.4	3534.1	3362.4	3237.7	3100.2	3007.1	2903.0	*2842.9*
35°	3488.6	3267.3	3098.8	2922.3	2784.5	2638.4	2528.4	2409.8	2326.3	2236.6	*2184.7*
37.5°	2756.4	2580.4	2441.7	2295.1	2182.0	2060.8	2020.0	1883.9	1797.3	1725.8	*1676.2*
40°	2163.2	2023.2	1908.6	1796.4	1704.1	1612.2	1538.6	1465.8	1410.0	1358.7	*1323.3*
42.5°	1689.3	1587.9	1504.2	1422.0	1354.7	1287.8	1234.3	1184.2	1146.6	1113.1	*1090.3*
45°	1342.9	1273.2	1215.0	1157.1	1109.6	1064.9	1029.0	997.0	972.7	952.6	*938.4*
47.5°	1103.2	1055.5	1014.4	975.4	943.2	913.9	889.8	882.0	855.9	838.2	*831.5*
50°	937.6	908.8	877.6	848.8	827.2	805.9	790.2	774.9	765.1	757.0	*754.5*
52.5°	814.0	792.0	774.6	756.3	742.1	726.9	716.1	706.0	700.5	696.3	*695.8*
55°	722.1	706.7	695.2	683.0	674.4	665.5	659.9	654.5	652.1	650.0	*650.2*
57.5°	652.5	642.2	634.8	626.8	622.2	617.9	616.5	615.2	615.9	616.2	*617.4*
60°	601.9	595.2	590.5	585.9	584.0	582.6	583.7	584.9	587.3	589.3	*591.1*
62.5°	563.0	559.2	556.9	554.5	554.2	554.4	556.4	558.5	561.6	563.8	*565.6*
65°	523.0	520.9	520.2	518.6	519.4	519.8	522.3	523.9	526.9	528.8	*530.9*
67.5°	482.6	482.1	482.6	482.6	484.0	485.2	487.6	489.4	492.0	493.7	*495.5*
70°	452.8	453.1	454.1	454.3	455.8	456.7	458.8	459.9	462.2	463.7	*465.8*
72.5°	423.8	423.4	423.6	422.9	423.5	423.2	424.4	425.0	426.9	428.0	*430.7*
75°	392.9	391.7	391.3	389.9	390.0	389.0	389.4	389.3	390.7	391.2	*393.1*
77.5°	355.7	353.4	352.4	350.0	350.0	349.1	350.0	350.6	352.9	354.0	*356.2*
80°	311.0	307.5	306.0	303.3	303.7	303.6	305.8	307.6	310.5	310.9	*313.7*
82.5°	258.5	255.0	253.4	250.7	251.3	251.3	253.4	253.8	256.2	257.3	*260.4*
85°	185.1	186.4	182.7	183.0	182.2	183.7	185.1	186.9	188.9	192.3	*194.9*
87.5°	109.0	108.5	109.9	110.0	111.8	112.9	115.9	117.6	121.0	123.7	*128.5*
90°	76.6	73.6	73.3	71.4	72.0	70.1	70.8	68.9	69.9	69.1	*70.7*
92.5°	57.0	53.4	49.5	45.8	42.0	38.4	36.5	34.9	33.1	31.5	*29.6*
95°	78.0	72.4	67.0	61.5	56.1	50.5	48.5	46.5	44.5	42.5	*40.5*
97.5°	91.0	85.0	79.1	73.3	67.4	61.5	60.2	58.8	57.5	56.1	*54.8*
100°	131.9	120.6	109.2	97.7	86.4	74.9	73.9	72.8	71.7	70.7	*69.6*
102.5°	269.7	243.6	217.5	191.3	165.2	139.0	134.5	129.9	125.4	120.8	*116.3*
105°	497.7	455.9	414.1	372.3	330.6	288.7	276.3	263.8	251.3	238.8	*226.4*
107.5°	713.3	672.5	631.7	591.0	550.3	509.6	489.8	470.1	450.4	430.7	*411.0*
110°	821.2	796.8	772.4	747.8	723.4	699.1	680.3	661.5	642.6	623.9	*605.1*

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	832.7	820.5	808.3	796.0	783.8	771.6	762.5	753.4	744.3	735.1	*725.8*
115°	773.3	769.5	765.7	761.9	758.2	754.3	753.6	753.1	752.4	751.8	*751.2*
117.5°	675.0	675.8	676.6	677.4	678.3	679.1	684.0	688.9	693.9	698.9	*704.1*
120°	577.4	580.8	584.2	587.7	591.2	594.7	601.3	607.8	614.5	621.2	*628.0*
122.5°	495.6	498.1	500.4	503.0	505.4	507.9	514.5	521.0	527.6	534.2	*541.0*
125°	432.2	432.5	432.6	432.9	433.1	433.5	439.0	444.3	449.8	455.4	*460.9*
127.5°	388.5	387.2	386.0	384.7	383.4	382.2	385.4	388.7	392.0	395.3	*398.7*
130°	361.1	358.8	356.4	354.0	351.6	349.3	350.7	352.0	353.4	354.9	*356.3*
132.5°	343.9	341.2	338.4	335.6	332.8	330.1	330.2	330.3	330.3	330.5	*330.8*
135°	331.4	328.8	326.1	323.5	320.7	318.2	317.7	317.0	316.5	315.9	*315.5*
137.5°	321.9	319.8	317.7	315.7	313.5	311.5	310.6	309.8	308.9	308.2	*307.4*
140°	314.3	312.8	311.0	309.4	307.7	306.2	305.4	304.8	304.0	303.4	*302.8*
142.5°	307.9	306.7	305.6	304.3	303.2	302.0	301.2	300.6	300.0	299.3	*298.7*
145°	304.0	303.3	302.5	301.7	300.9	300.2	299.6	299.2	298.6	298.3	*297.8*
147.5°	298.2	297.7	297.3	296.8	296.4	295.9	295.5	295.3	294.9	294.7	*294.3*
150°	292.5	292.1	291.6	291.3	290.8	290.4	290.2	290.1	289.9	289.9	*289.7*
152.5°	285.4	285.2	284.7	284.4	283.9	283.6	283.4	283.4	283.2	283.1	*282.9*
155°	280.2	279.9	279.7	279.5	279.2	279.0	278.7	278.5	278.3	278.0	*277.8*
157.5°	276.5	276.3	276.1	275.9	275.6	275.4	275.2	275.0	274.7	274.6	*274.3*
160°	274.0	273.8	273.6	273.4	273.1	273.0	272.5	272.2	271.8	271.5	*271.2*
162.5°	273.2	272.9	272.6	272.2	271.9	271.5	271.3	271.1	270.8	270.6	*270.4*
165°	272.2	272.1	271.9	271.6	271.4	271.3	270.9	270.5	270.2	269.9	*269.6*
167.5°	273.2	273.1	272.9	272.7	272.4	272.2	271.9	271.6	271.3	270.9	*270.5*
170°	273.3	273.0	272.7	272.4	272.1	271.8	271.4	271.2	270.7	270.5	*270.1*
172.5°	274.7	274.6	274.2	274.0	273.7	273.5	273.1	273.0	272.6	272.3	*272.1*
175°	273.8	273.8	273.8	273.6	273.6	273.5	273.4	273.3	273.2	273.1	*273.0*
177.5°	274.5	274.5	274.5	274.4	274.3	274.3	274.1	273.9	273.8	273.6	*273.5*
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	*272.9*

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14153.1	14149.5	14151.2	14144.5	14146.1	14138.1	14137.4	14128.4	14127.5	14118.9	14115.7
5°	14632.2	14624.4	14633.3	14619.4	14622.2	14604.1	14602.6	14579.3	14571.3	14542.1	14529.5
7.5°	15158.9	15156.0	15161.4	15149.8	15149.5	15133.3	15126.6	15105.8	15092.9	15062.2	15042.7
10°	*15274.3*	*15277.0*	*15272.6*	*15273.7*	*15267.4*	*15265.7*	*15259.2*	*15255.1*	*15244.6*	*15236.7*	*15225.0*
12.5°	14795.2	14798.1	14779.8	14791.4	14782.2	14803.6	14801.9	14827.0	14831.0	14862.8	14874.9
15°	13687.9	13684.5	13649.4	13671.5	13659.6	13706.6	13717.1	13780.2	13814.0	13895.0	13944.8
17.5°	12015.2	12006.2	11956.9	11983.8	11970.0	12039.2	12062.5	12163.3	12226.3	12356.9	12450.0
20°	10021.3	10004.0	9946.2	9977.7	9963.6	10042.2	10075.3	10197.3	10278.6	10451.5	10574.5
22.5°	8002.6	7975.3	7918.7	7948.1	7934.8	8016.2	8059.3	8181.7	8274.8	8452.3	8595.9
25°	6189.9	6165.4	6110.7	6131.4	6126.4	6195.3	6233.6	6349.4	6440.8	6609.9	6747.0
27.5°	4721.2	4695.8	4646.3	4660.9	4655.9	4714.6	4750.8	4847.4	4926.1	5068.5	5188.9
30°	3613.3	3582.7	3540.9	3548.9	3545.5	3593.0	3626.8	3708.2	3775.7	3896.0	3999.7
32.5°	2769.6	2738.9	2700.4	2704.2	2699.1	2736.4	2764.2	2835.1	2893.8	2996.1	3086.4
35°	2119.1	2155.0	2072.8	2124.9	2070.7	2150.2	2121.6	2165.9	2216.4	2302.6	2377.9
37.5°	1629.1	1604.1	1582.9	1580.7	1580.6	1599.0	1620.8	1663.4	1708.0	1772.2	1838.5
40°	1291.0	1273.4	1259.7	1258.7	1259.7	1272.8	1288.9	1318.4	1351.1	1397.1	1445.9
42.5°	1070.7	1059.1	1050.8	1050.3	1052.9	1062.1	1073.4	1090.8	1112.1	1142.0	1175.4
45°	926.8	920.3	915.6	915.4	916.6	921.4	927.9	938.8	952.3	970.9	992.0
47.5°	825.7	824.1	821.3	821.4	820.0	822.0	822.8	828.8	836.1	850.1	877.8
50°	752.1	752.1	750.2	750.0	748.1	748.0	746.5	748.9	752.2	760.9	769.8
52.5°	693.9	693.8	691.6	691.2	689.2	689.1	687.8	688.7	689.1	693.6	698.8
55°	648.5	647.1	644.3	643.4	642.7	643.8	643.3	643.3	642.8	644.6	646.2
57.5°	615.9	614.1	611.4	610.7	610.4	611.9	611.9	611.4	608.9	607.3	604.9
60°	590.1	588.3	585.4	584.7	585.1	587.0	586.9	585.3	581.6	578.4	574.8
62.5°	564.7	564.0	562.6	562.3	562.0	562.3	561.0	559.3	555.7	552.3	548.3
65°	530.8	531.1	530.0	530.1	528.8	528.6	526.7	525.1	521.4	518.3	514.2
67.5°	495.4	495.7	494.8	494.8	494.1	494.2	493.0	491.5	488.4	485.8	482.7
70°	466.3	467.0	466.5	466.7	465.8	465.5	463.7	462.1	459.0	456.9	454.0
72.5°	431.4	433.0	432.9	433.4	432.1	431.4	429.2	427.4	424.5	422.8	420.5
75°	393.8	395.8	396.5	397.4	395.6	394.6	392.2	390.7	388.4	387.4	385.9
77.5°	357.1	359.3	361.4	363.5	360.6	358.1	354.9	352.6	349.2	348.0	345.6
80°	315.8	319.8	324.6	328.6	323.4	318.1	313.1	309.3	304.9	303.1	300.1
82.5°	262.1	266.1	268.9	271.4	267.8	264.0	259.1	255.8	250.9	249.2	245.8
85°	199.1	204.2	205.8	207.1	204.8	202.8	198.2	192.0	188.9	184.2	181.7
87.5°	130.9	133.9	134.6	135.0	133.6	132.6	129.7	126.7	121.6	117.8	113.2
90°	69.3	70.1	67.7	67.3	66.6	67.9	66.0	66.2	63.0	62.6	59.9
92.5°	27.9	26.0	24.3	22.5	24.5	26.1	28.0	29.6	31.5	33.1	34.9
95°	38.5	36.4	34.5	32.4	34.0	35.6	37.2	38.9	40.5	42.1	43.7
97.5°	53.5	52.1	50.8	49.5	50.4	51.3	52.3	53.2	54.2	55.1	56.1
100°	68.5	67.5	66.4	65.3	65.3	65.3	65.3	65.3	65.3	65.3	65.3
102.5°	111.7	107.2	102.7	98.1	101.2	104.3	107.4	110.4	113.5	116.6	119.8
105°	214.0	201.5	189.1	176.6	188.7	200.7	212.8	224.8	236.9	249.0	261.1
107.5°	391.3	371.7	352.0	332.3	354.2	376.1	398.2	420.1	442.0	463.9	486.0
110°	586.4	567.7	548.9	530.1	553.4	576.7	600.0	623.3	646.6	669.9	693.3

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	716.7	707.7	698.6	689.5	704.4	719.4	734.5	749.5	764.5	779.6	794.6
115°	750.6	750.1	749.5	749.0	756.1	763.2	770.3	777.4	784.6	791.6	798.9
117.5°	709.1	714.1	719.1	724.2	726.5	728.8	731.2	733.4	735.8	738.0	740.5
120°	634.7	641.4	648.2	655.1	654.1	653.2	652.2	651.3	650.5	649.7	648.9
122.5°	547.6	554.4	561.2	568.0	566.1	564.0	562.0	560.1	558.3	556.3	554.6
125°	466.6	472.2	477.9	483.6	481.6	479.6	477.7	475.8	473.8	472.0	470.3
127.5°	402.2	405.7	409.1	412.7	411.7	410.8	410.0	409.2	408.3	407.7	407.0
130°	357.8	359.4	361.0	362.7	363.0	363.2	363.6	363.9	364.5	364.9	365.5
132.5°	331.1	331.4	331.9	332.2	333.3	334.4	335.6	336.8	338.1	339.3	340.8
135°	315.1	314.8	314.5	314.3	315.9	317.4	319.1	320.8	322.7	324.6	326.5
137.5°	306.7	306.1	305.6	305.0	306.6	308.2	309.9	311.6	313.4	315.3	317.3
140°	302.3	301.7	301.4	300.8	302.5	304.1	305.7	307.4	309.3	311.1	313.1
142.5°	298.3	297.6	297.3	296.9	298.3	299.8	301.3	302.9	304.5	306.2	308.0
145°	297.5	297.0	296.8	296.5	297.6	298.6	299.7	300.8	302.1	303.3	304.7
147.5°	294.2	293.9	293.8	293.6	294.4	295.2	296.0	296.8	297.9	298.8	299.9
150°	289.8	289.6	289.6	289.6	290.1	290.5	291.1	291.6	292.3	292.8	293.6
152.5°	283.0	282.8	282.9	282.8	283.3	283.8	284.4	284.8	285.4	286.0	286.6
155°	277.7	277.5	277.4	277.2	277.4	277.6	277.9	277.9	278.3	278.5	278.8
157.5°	274.2	274.0	273.8	273.7	273.8	273.7	273.8	273.8	273.9	273.9	274.1
160°	270.9	270.5	270.3	269.9	270.1	270.1	270.4	270.4	270.6	270.8	271.0
162.5°	270.2	270.0	269.8	269.7	269.6	269.3	269.2	269.0	268.9	268.9	268.8
165°	269.1	268.9	268.5	268.1	268.1	268.1	268.1	268.1	268.1	268.1	268.1
167.5°	270.3	269.8	269.7	269.2	269.0	268.7	268.5	268.1	268.0	267.7	267.6
170°	269.9	269.6	269.4	269.0	268.9	268.8	268.7	268.6	268.5	268.4	268.4
172.5°	271.9	271.5	271.4	271.1	271.0	270.8	270.8	270.7	270.6	270.6	270.5
175°	273.0	272.9	272.8	272.7	272.5	272.3	272.2	272.1	272.0	271.7	271.6
177.5°	273.2	273.1	273.0	272.9	272.8	272.8	272.8	272.8	272.8	272.7	272.7
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14106.6	14102.9	14093.1	14088.4	14079.3	14074.7	14067.7	14063.2	14057.5	14053.3	14051.0
5°	14497.5	14479.4	14443.3	14421.0	14382.0	14356.3	14317.5	14289.1	14249.0	14219.6	14181.7
7.5°	15006.0	14978.3	14932.0	14896.9	14842.3	14800.5	14739.3	14690.3	14622.5	14566.3	14497.1
10°	*15213.0*	*15196.9*	*15176.1*	*15153.5*	*15123.3*	*15093.6*	*15051.7*	*15009.1*	*14952.2*	*14895.7*	*14821.8*
12.5°	14907.0	14922.2	14952.2	14966.2	14989.1	14997.0	15007.4	15002.5	14993.2	14970.2	14936.7
15°	14040.4	14103.9	14204.2	14273.6	14370.9	14439.1	14529.5	14587.7	14654.6	14694.7	14732.7
17.5°	12614.9	12737.7	12914.7	13055.9	13245.5	13399.7	13588.6	13737.0	13908.4	14039.8	14179.7
20°	10789.0	10960.9	11205.4	11412.9	11687.6	11920.6	12219.0	12469.1	12760.8	13003.9	13266.3
22.5°	8823.9	9026.1	9306.2	9556.5	9884.5	10177.6	10551.5	10882.1	11276.5	11629.6	12020.4
25°	6970.0	7168.1	7453.4	7712.6	8066.9	8389.6	8798.2	9177.4	9635.0	10061.7	10551.5
27.5°	5380.2	5556.3	5806.9	6040.3	6364.7	6681.6	7096.1	7500.6	7988.9	8447.4	8975.3
30°	4154.9	4297.8	4498.7	4686.4	4946.9	5206.0	5575.3	5949.3	6435.2	6910.3	7451.6
32.5°	3220.0	3341.8	3509.5	3661.9	3862.6	4058.0	4330.0	4628.8	5055.0	5510.1	6033.5
35°	2492.6	2596.8	2739.5	2870.8	3035.8	3191.0	3393.9	3607.2	3932.5	4315.3	4783.6
37.5°	1987.2	2029.7	2131.6	2239.2	2376.2	2503.7	2662.5	2820.2	3052.9	3355.0	3737.5
40°	1511.3	1578.7	1661.7	1746.4	1850.1	1952.4	2126.5	2210.4	2363.7	2580.5	2877.4
42.5°	1219.4	1266.8	1325.2	1384.1	1456.4	1527.7	1615.7	1705.5	1820.0	1966.8	2178.0
45°	1020.4	1051.4	1089.0	1128.2	1175.7	1224.3	1283.3	1344.9	1422.5	1512.8	1641.1
47.5°	887.5	904.6	929.1	955.9	988.5	1022.1	1060.5	1099.8	1148.0	1201.5	1274.6
50°	783.8	798.0	817.1	835.0	857.5	891.9	907.2	928.8	957.8	989.3	1030.2
52.5°	708.6	718.2	730.1	740.4	754.6	767.5	784.5	799.4	819.5	838.4	864.8
55°	650.2	653.7	660.4	667.0	676.9	685.7	697.3	707.0	719.9	731.2	747.8
57.5°	605.0	605.4	608.5	611.9	618.3	623.8	631.8	638.2	647.1	654.3	664.3
60°	572.6	570.9	571.5	572.6	576.2	579.9	584.9	589.1	594.7	598.8	604.4
62.5°	545.6	542.9	542.3	541.9	543.7	545.0	547.8	549.8	553.0	554.7	557.8
65°	511.4	508.2	507.0	505.5	506.1	505.6	506.7	506.7	508.4	508.8	510.4
67.5°	480.5	477.8	476.2	474.3	473.4	471.9	471.3	470.0	469.7	468.6	468.3
70°	452.3	449.7	448.3	446.5	445.6	443.7	442.5	440.2	438.9	436.7	435.5
72.5°	419.6	418.2	417.8	416.5	416.2	415.2	414.6	413.0	412.2	410.3	409.2
75°	385.5	384.3	384.2	382.9	382.8	381.6	381.3	379.5	378.6	376.9	376.1
77.5°	344.9	343.1	342.6	341.1	341.5	340.9	341.4	340.1	339.5	337.7	337.1
80°	299.1	296.7	295.9	293.9	294.4	293.5	294.4	294.3	295.1	293.5	293.3
82.5°	244.9	242.3	241.9	240.5	241.4	241.5	243.5	242.4	242.8	241.5	242.0
85°	178.1	176.3	173.7	173.3	171.6	173.4	171.1	172.6	170.2	171.9	169.6
87.5°	110.5	106.6	104.5	101.8	100.7	98.1	97.0	95.1	95.6	94.7	95.3
90°	60.2	57.9	59.0	58.1	59.7	59.2	61.3	61.5	63.8	64.0	66.5
92.5°	36.5	38.2	41.3	44.7	47.9	51.1	54.3	57.7	60.8	64.1	67.2
95°	45.3	46.9	51.2	55.4	59.7	64.0	68.4	72.6	76.9	81.2	85.5
97.5°	56.9	57.9	62.2	66.5	70.8	75.0	79.3	83.7	88.0	92.2	96.5
100°	65.3	65.4	77.6	89.7	101.9	114.2	126.4	138.6	150.9	163.0	175.2
102.5°	122.8	125.9	156.7	187.6	218.3	249.1	279.9	310.7	341.5	372.4	403.2
105°	273.1	285.3	332.2	379.2	426.1	473.2	520.2	567.3	614.4	661.4	708.4
107.5°	507.9	530.0	572.5	614.9	657.3	699.8	742.5	784.9	827.4	869.9	912.5
110°	716.7	739.9	768.3	796.9	825.3	853.7	882.2	910.7	939.2	967.7	996.2

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	809.6	824.7	841.2	857.9	874.4	891.1	907.6	924.3	940.9	957.5	974.2
115°	806.0	813.3	819.6	826.1	832.5	838.9	845.4	851.9	858.5	864.9	871.5
117.5°	742.8	745.3	746.2	747.2	748.2	749.3	750.3	751.4	752.6	753.6	754.7
120°	648.1	647.3	646.2	645.1	644.0	643.0	642.0	640.9	639.9	638.9	638.0
122.5°	552.6	550.9	549.8	548.8	547.8	546.8	545.7	544.8	543.9	543.0	542.0
125°	468.5	466.7	467.6	468.5	469.4	470.3	471.2	472.3	473.3	474.3	475.2
127.5°	406.3	405.6	408.1	410.5	413.0	415.4	417.9	420.4	422.8	425.3	427.8
130°	366.1	366.7	369.7	372.9	376.0	379.2	382.4	385.7	388.7	391.9	395.0
132.5°	342.1	343.7	346.7	349.6	352.7	355.7	358.8	361.8	364.9	368.0	371.0
135°	328.5	330.5	333.2	336.0	338.7	341.6	344.3	347.2	349.9	352.7	355.5
137.5°	319.2	321.3	323.5	325.6	327.9	330.1	332.4	334.6	336.8	339.0	341.2
140°	314.9	317.0	318.1	319.5	320.7	322.0	323.1	324.5	325.6	327.0	328.1
142.5°	309.7	311.5	312.3	313.1	313.9	314.8	315.6	316.4	317.1	317.8	318.6
145°	305.9	307.4	307.4	307.4	307.5	307.6	307.6	307.7	307.6	307.7	307.7
147.5°	300.8	301.9	301.7	301.6	301.4	301.3	301.1	300.9	300.7	300.6	300.3
150°	294.3	295.0	294.5	294.3	293.8	293.5	293.1	292.7	292.3	292.0	291.6
152.5°	287.2	287.8	287.3	287.0	286.5	286.1	285.6	285.3	284.7	284.3	283.9
155°	279.0	279.4	279.1	278.9	278.7	278.4	278.1	278.0	277.9	277.6	277.4
157.5°	274.1	274.2	274.0	273.9	273.8	273.7	273.5	273.5	273.4	273.4	273.4
160°	271.1	271.4	271.2	271.0	270.9	270.7	270.6	270.5	270.5	270.5	270.5
162.5°	268.6	268.6	268.4	268.2	268.1	268.1	268.0	268.0	268.0	267.9	268.0
165°	268.3	268.4	268.1	267.9	267.6	267.3	267.2	267.0	266.9	266.8	266.6
167.5°	267.3	267.3	267.3	267.3	267.3	267.4	267.4	267.7	267.7	267.9	268.0
170°	268.4	268.4	268.3	268.1	268.1	268.0	268.0	267.8	267.8	267.7	267.7
172.5°	270.5	270.5	270.3	270.0	269.7	269.6	269.3	269.1	268.9	268.7	268.4
175°	271.4	271.4	271.2	271.1	270.9	270.7	270.5	270.4	270.2	270.1	269.9
177.5°	272.6	272.5	272.4	272.4	272.4	272.3	272.3	272.3	272.3	272.3	272.2
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14048.2	14048.0	14046.7	14047.3	14047.6	14048.5	14049.8	14051.0	14051.3	14052.3	14052.5
5°	14153.3	14118.6	14092.9	14064.6	14043.4	14024.2	14011.5	14001.3	13997.4	13998.4	14000.8
7.5°	14438.4	14366.7	14307.5	14240.1	14184.1	14124.6	14075.4	14028.6	13994.5	13969.0	13954.8
10°	*14751.3*	*14663.9*	*14580.3*	*14482.9*	*14390.5*	*14291.9*	*14202.6*	*14112.7*	*14037.7*	*13972.6*	*13924.8*
12.5°	14890.0	14828.3	14756.1	14664.1	14565.3	14451.5	14336.6	14213.5	14099.0	13992.6	13906.9
15°	14743.1	14743.2	14716.9	14672.8	14604.1	14513.2	14403.8	14275.3	14140.2	14002.3	13876.4
17.5°	14276.5	14364.5	14413.5	14444.5	14434.9	14401.5	14331.8	14233.2	14107.3	13960.4	13806.7
20°	13475.2	13682.8	13830.9	13964.1	14038.7	14088.2	14083.3	14043.1	13953.5	13828.5	13668.5
22.5°	12352.7	12701.2	12976.2	13232.7	13412.5	13558.9	13628.4	13658.0	13617.3	13530.3	13379.9
25°	10989.4	11463.3	11867.7	12260.1	12554.5	12807.5	12959.6	13066.7	13075.2	13029.7	12895.6
27.5°	9474.4	10033.8	10545.6	11067.1	11481.2	11844.9	12083.5	12258.2	12313.7	12306.4	12184.5
30°	7961.4	8548.6	9112.8	9721.0	10233.3	10697.9	11013.2	11249.5	11340.5	11357.9	11240.7
32.5°	6532.6	7111.6	7674.2	8310.1	8873.8	9406.3	9778.8	10059.4	10165.2	10190.2	10061.7
35°	5235.7	5769.9	6304.6	6920.9	7481.4	8032.8	8425.3	8719.1	8817.9	8834.6	8685.8
37.5°	4111.2	4566.4	5032.3	5585.1	6099.9	6617.8	6990.7	7266.8	7338.8	7334.3	7166.0
40°	3164.3	3518.2	3892.5	4347.7	4775.7	5213.5	5528.4	5756.6	5794.5	5766.4	5589.6
42.5°	2379.4	2634.9	2906.4	3246.2	3563.7	3891.3	4120.4	4289.9	4295.3	4251.0	4092.2
45°	1772.7	2022.0	2135.8	2341.3	2545.8	2763.7	2903.5	3008.2	2992.0	2953.1	2832.4
47.5°	1351.3	1447.2	1548.8	1676.2	1795.3	2042.6	2024.2	2192.4	2071.3	2153.8	1972.1
50°	1073.1	1126.7	1181.4	1249.0	1311.2	1375.9	1416.3	1446.4	1442.5	1429.6	1394.7
52.5°	913.0	929.5	956.5	995.0	1029.7	1064.6	1087.6	1106.3	1106.7	1101.4	1083.9
55°	763.0	784.0	803.5	828.6	871.4	878.0	910.9	904.2	906.8	897.6	907.0
57.5°	672.7	684.9	695.9	710.9	723.2	737.7	746.2	754.3	753.5	751.8	742.9
60°	608.8	615.5	621.6	630.3	637.1	645.3	649.2	653.4	652.0	648.9	641.0
62.5°	559.5	563.7	567.1	572.8	576.9	582.0	584.1	585.8	584.1	581.1	574.1
65°	510.8	513.6	515.7	520.0	522.9	527.2	529.0	530.6	529.0	526.8	521.4
67.5°	467.0	467.2	467.0	468.7	469.6	472.2	473.0	474.2	472.3	470.3	465.8
70°	433.6	432.9	432.1	432.8	432.9	434.3	434.4	434.3	431.9	428.6	423.6
72.5°	407.6	407.3	406.6	407.2	407.2	408.3	408.0	407.4	404.7	401.4	396.5
75°	374.2	373.9	372.7	372.7	371.7	372.1	370.7	369.9	366.8	364.1	359.7
77.5°	335.1	334.4	332.6	331.9	329.9	329.1	326.5	325.3	322.1	319.9	316.2
80°	291.3	290.7	288.3	287.0	283.9	281.9	278.1	276.0	272.4	270.3	266.6
82.5°	240.8	241.1	238.7	237.1	232.6	229.2	224.1	221.4	217.4	215.4	211.6
85°	171.3	168.8	170.1	170.0	167.2	164.2	160.1	157.3	153.9	151.9	149.3
87.5°	93.9	94.5	93.8	93.3	91.3	89.7	86.6	84.9	82.4	81.3	79.2
90°	62.0	60.0	55.7	53.6	49.4	46.5	41.9	39.4	35.0	34.0	31.4
92.5°	63.5	60.0	56.4	52.8	49.2	45.6	42.0	38.4	34.8	33.4	32.3
95°	80.2	75.1	69.9	64.6	59.4	54.2	49.0	43.8	38.6	37.5	36.4
97.5°	90.5	84.3	78.2	72.0	65.9	59.7	53.6	47.5	41.3	40.6	40.0
100°	161.0	146.9	132.7	118.5	104.4	90.3	76.0	61.8	47.8	47.0	46.2
102.5°	368.8	334.4	300.1	265.7	231.5	197.1	162.8	128.4	94.1	89.1	84.2
105°	656.4	604.4	552.4	500.5	448.4	396.5	344.4	292.4	240.4	223.7	207.0
107.5°	863.6	814.7	765.8	716.9	668.1	619.3	570.2	521.4	472.4	443.1	413.7
110°	957.4	918.6	879.8	841.0	802.2	763.3	724.5	685.6	646.9	621.5	596.2

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	945.8	917.2	888.9	860.3	832.0	803.4	774.9	746.3	717.9	702.5	687.1
115°	854.4	837.3	820.0	802.9	785.7	768.5	751.3	734.0	716.8	708.7	700.5
117.5°	746.0	737.2	728.3	719.5	710.6	701.7	692.9	684.0	675.1	672.2	669.3
120°	635.3	632.6	629.8	627.0	624.2	621.5	618.6	615.9	612.9	613.2	613.5
122.5°	543.0	543.9	544.8	545.6	546.5	547.3	548.3	549.0	549.9	552.0	554.0
125°	477.7	480.1	482.6	484.9	487.3	489.6	492.1	494.2	496.7	498.7	500.9
127.5°	430.7	433.3	436.0	438.6	441.4	444.0	446.7	449.3	452.0	453.8	455.8
130°	397.4	399.7	402.1	404.3	406.7	408.9	411.3	413.6	415.8	417.3	418.7
132.5°	373.1	375.2	377.2	379.2	381.3	383.3	385.4	387.4	389.5	390.5	391.6
135°	357.0	358.4	360.0	361.4	363.1	364.5	366.0	367.5	369.1	369.7	370.4
137.5°	342.5	343.6	344.9	346.0	347.3	348.4	349.8	351.0	352.4	352.5	352.9
140°	329.5	330.7	332.0	333.4	334.7	336.0	337.5	338.8	340.3	340.5	340.9
142.5°	319.6	320.5	321.5	322.5	323.6	324.6	325.7	326.9	327.9	328.2	328.5
145°	309.0	310.1	311.5	312.6	313.9	315.1	316.5	317.9	319.3	319.4	319.6
147.5°	301.4	302.4	303.5	304.6	305.7	306.7	308.0	309.1	310.5	310.6	310.6
150°	292.8	293.9	295.1	296.1	297.5	298.6	300.0	301.3	302.7	303.0	303.3
152.5°	285.2	286.4	287.7	289.0	290.3	291.7	293.2	294.6	296.0	296.3	296.7
155°	278.7	279.9	281.2	282.6	283.9	285.3	286.7	288.0	289.4	289.9	290.2
157.5°	274.6	275.5	276.8	277.9	279.2	280.4	281.7	282.8	284.2	284.5	284.8
160°	271.6	272.6	273.7	274.6	275.7	276.8	277.9	279.0	280.1	280.4	280.7
162.5°	268.9	270.0	271.1	272.0	273.1	274.2	275.3	276.3	277.4	277.7	278.0
165°	267.4	268.1	268.9	269.7	270.5	271.2	272.0	272.7	273.6	273.9	274.3
167.5°	268.6	269.1	269.7	270.3	270.9	271.4	272.1	272.7	273.3	273.7	274.0
170°	268.2	268.8	269.2	269.8	270.4	270.9	271.4	272.0	272.6	273.0	273.2
172.5°	268.8	269.0	269.5	269.7	270.1	270.5	270.9	271.3	271.6	272.1	272.4
175°	270.2	270.3	270.5	270.6	270.8	271.0	271.3	271.4	271.7	272.0	272.3
177.5°	272.3	272.5	272.6	272.8	273.0	273.1	273.2	273.4	273.6	274.0	274.4
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14052.0	14051.8	14051.4	14050.8	14050.1	14050.5	14051.1	14052.7	14055.6	14059.7	14064.9
5°	14002.7	14005.6	14007.2	14007.4	14005.9	14005.1	14006.4	14010.3	14018.1	14031.1	14048.8
7.5°	13951.0	13954.5	13960.0	13964.1	13964.8	13963.8	13964.1	13970.1	13984.5	14009.9	14045.6
10°	*13895.7*	*13885.2*	*13890.8*	*13900.9*	*13909.0*	*13910.4*	*13911.4*	*13918.5*	*13939.6*	*13978.1*	*14035.4*
12.5°	13844.7	13811.5	13805.1	13814.3	13826.5	13830.4	13829.2	13832.4	13856.9	13907.8	13987.8
15°	13777.6	13715.1	13693.7	13696.1	13711.2	13716.6	13712.7	13706.6	13730.6	13792.7	13896.1
17.5°	13669.1	13568.2	13528.9	13527.2	13544.9	13549.6	13539.9	13521.1	13544.7	13622.2	13750.5
20°	13504.0	13355.1	13281.2	13269.4	13288.6	13283.0	13263.6	13235.2	13266.2	13360.5	13513.1
22.5°	13207.2	13018.7	12892.2	12851.5	12874.4	12859.1	12830.8	12794.5	12835.8	12942.9	13112.9
25°	12722.3	12504.4	12331.4	12234.3	12252.5	12225.1	12194.3	12150.3	12199.5	12322.5	12509.6
27.5°	12009.6	11757.9	11543.5	11382.7	11388.7	11352.7	11317.3	11260.3	11321.7	11467.2	11678.3
30°	11061.9	10770.6	10509.5	10291.1	10271.4	10236.6	10200.3	10125.6	10202.4	10376.6	10623.3
32.5°	9871.7	9548.3	9246.5	8970.4	8918.3	8884.2	8851.9	8765.9	8866.5	9069.6	9353.0
35°	8479.8	8135.3	7808.2	7492.7	7406.4	7372.4	7344.1	7261.7	7387.2	7608.3	7914.4
37.5°	6952.0	6600.0	6275.2	5951.8	5829.8	5783.8	5763.2	5709.2	5854.0	6072.6	6379.9
40°	5383.6	5056.3	4765.1	4479.5	4340.4	4269.8	4259.0	4249.2	4389.2	4578.9	4857.9
42.5°	3916.4	3652.3	3427.8	3209.4	3083.4	2987.0	2987.0	3016.2	3142.2	3284.4	3499.5
45°	2709.1	2531.9	2388.8	2242.9	2281.9	2089.7	2202.6	2144.7	2207.0	2298.6	2438.4
47.5°	1862.2	1765.5	1686.9	1605.4	1545.9	1489.3	1494.2	1530.8	1589.4	1643.8	1716.6
50°	1357.2	1308.0	1267.9	1225.6	1196.1	1171.0	1172.5	1188.3	1219.2	1247.8	1285.8
52.5°	1063.5	1036.3	1014.6	991.1	975.6	963.2	963.9	971.6	988.3	1004.6	1026.4
55°	876.6	873.3	845.0	824.0	816.0	807.6	809.2	812.2	823.5	833.1	847.6
57.5°	734.6	721.8	713.4	702.3	697.2	691.4	692.7	693.8	701.4	707.8	718.3
60°	634.3	625.3	619.3	611.8	608.4	604.7	605.5	606.2	611.1	615.2	622.7
62.5°	567.7	559.6	554.4	548.6	546.3	543.8	544.3	544.5	547.5	550.6	556.2
65°	516.6	510.2	505.8	500.8	498.4	495.7	496.0	496.0	498.6	500.8	505.1
67.5°	462.5	457.7	454.9	450.9	449.2	446.6	446.5	445.7	447.4	448.2	451.2
70°	419.2	414.3	410.7	406.9	404.8	402.4	402.5	402.5	404.5	406.5	410.2
72.5°	392.4	387.7	384.5	381.1	379.2	377.2	376.9	376.6	378.0	379.2	381.6
75°	356.9	353.2	351.3	348.2	346.6	344.3	344.0	342.9	343.6	343.8	345.7
77.5°	313.9	310.3	308.8	305.7	304.3	301.7	301.6	300.4	300.9	300.6	302.0
80°	264.8	261.5	260.7	258.2	257.5	255.1	254.8	253.4	253.8	252.7	253.2
82.5°	210.0	207.1	206.5	204.1	204.1	201.9	201.8	199.6	199.6	197.8	194.9
85°	147.9	145.8	144.9	142.9	142.3	140.6	139.7	137.7	137.0	135.6	135.2
87.5°	78.1	76.7	75.5	74.6	72.8	69.8	69.5	67.4	67.5	66.0	66.1
90°	30.5	28.1	27.3	25.0	24.1	22.3	21.5	22.0	22.9	23.4	24.4
92.5°	31.1	29.9	28.7	27.5	26.3	25.1	23.9	25.1	26.3	27.5	28.7
95°	35.4	34.3	33.2	32.2	31.1	30.0	29.0	30.0	31.1	32.2	33.2
97.5°	39.3	38.7	38.0	37.3	36.6	36.0	35.3	36.1	36.7	37.4	38.1
100°	45.4	44.6	43.8	43.0	42.2	41.3	40.5	41.4	42.2	43.0	43.8
102.5°	79.2	74.3	69.3	64.4	59.4	54.5	49.5	54.5	59.4	64.5	69.4
105°	190.3	173.6	156.9	140.2	123.4	106.8	90.0	106.8	123.4	140.2	157.0
107.5°	384.3	354.9	325.4	296.0	266.6	237.1	207.7	237.2	266.7	296.1	325.5
110°	570.8	545.5	520.0	494.7	469.3	443.8	418.4	443.9	469.4	494.8	520.2

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	671.6	656.1	640.7	625.3	609.7	594.3	578.8	594.4	609.9	625.6	641.0
115°	692.4	684.2	676.0	667.8	659.6	651.4	643.1	651.6	659.9	668.2	676.5
117.5°	666.4	663.5	660.6	657.7	654.7	651.9	648.7	652.0	655.0	658.2	661.1
120°	613.6	613.9	614.2	614.4	614.5	614.7	614.8	614.9	614.9	614.9	614.8
122.5°	556.1	558.0	560.0	562.0	564.0	565.9	567.7	566.1	564.4	562.7	560.9
125°	502.9	505.0	507.0	509.1	511.0	513.1	514.8	513.4	511.6	509.9	507.9
127.5°	457.6	459.5	461.3	463.1	464.8	466.5	468.1	466.9	465.4	463.9	462.3
130°	420.0	421.4	422.7	424.0	425.3	426.4	427.6	426.7	425.8	425.0	423.9
132.5°	392.5	393.5	394.5	395.5	396.3	397.2	397.8	397.4	396.9	396.5	395.8
135°	371.0	371.7	372.1	372.9	373.3	373.7	374.0	374.1	373.9	373.8	373.5
137.5°	353.1	353.4	353.6	353.7	353.8	353.9	353.8	354.2	354.5	354.9	354.9
140°	341.0	341.3	341.5	341.6	341.8	341.8	341.8	342.2	342.5	342.7	342.8
142.5°	328.7	329.0	329.2	329.4	329.5	329.5	329.5	329.9	330.2	330.4	330.6
145°	319.6	319.7	319.7	319.8	319.7	319.7	319.4	320.0	320.4	320.8	321.2
147.5°	310.7	310.7	310.8	310.7	310.7	310.6	310.5	310.9	311.4	311.7	312.2
150°	303.6	304.0	304.1	304.4	304.5	304.7	304.7	305.0	305.2	305.4	305.5
152.5°	296.9	297.1	297.4	297.6	297.7	297.7	297.8	298.1	298.4	298.6	298.8
155°	290.6	291.0	291.2	291.6	291.8	292.0	292.2	292.5	292.6	292.7	292.8
157.5°	285.2	285.5	285.8	286.1	286.2	286.6	286.8	287.0	287.2	287.4	287.6
160°	281.0	281.3	281.6	281.9	282.1	282.4	282.6	282.8	283.1	283.2	283.5
162.5°	278.3	278.6	278.7	279.0	279.3	279.6	279.8	280.1	280.3	280.4	280.6
165°	274.7	275.1	275.5	275.8	276.3	276.6	277.0	277.1	277.1	277.1	277.2
167.5°	274.4	274.7	275.1	275.5	275.7	276.1	276.5	276.5	276.6	276.6	276.6
170°	273.6	273.9	274.3	274.6	274.9	275.2	275.5	275.5	275.5	275.5	275.6
172.5°	272.8	273.3	273.7	274.1	274.5	274.9	275.3	275.3	275.1	274.9	274.7
175°	272.6	273.0	273.4	273.8	274.1	274.5	274.8	274.6	274.5	274.3	274.1
177.5°	274.9	275.4	275.9	276.3	276.7	277.1	277.6	277.1	276.9	276.4	276.1
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14072.5	14079.6	14090.3	14100.1	14114.8	14126.3	14143.8	14157.0	14176.6	14189.4	14210.7
5°	14073.8	14101.3	14137.5	14172.9	14215.3	14253.9	14301.8	14342.6	14390.7	14430.0	14479.3
7.5°	14093.6	14146.7	14210.4	14274.5	14347.1	14414.9	14491.3	14560.5	14636.1	14700.1	14770.0
10°	*14108.3*	*14190.2*	*14284.0*	*14378.4*	*14477.7*	*14570.0*	*14663.2*	*14743.7*	*14818.9*	*14880.9*	*14935.6*
12.5°	14088.5	14201.3	14321.6	14437.8	14548.3	14643.7	14723.9	14785.9	14828.6	14857.6	14864.4
15°	14020.7	14156.5	14287.4	14403.1	14494.7	14565.5	14602.0	14619.1	14600.8	14570.2	14503.2
17.5°	13894.4	14037.6	14154.5	14245.8	14294.2	14313.5	14283.1	14230.4	14127.4	14013.0	13847.9
20°	13662.7	13796.0	13880.9	13930.7	13917.7	13869.8	13755.4	13616.3	13410.6	13191.4	12902.0
22.5°	13256.1	13372.8	13418.0	13421.7	13342.7	13222.6	13016.2	12777.7	12453.1	12115.8	11700.8
25°	12646.1	12748.2	12755.3	12715.2	12570.5	12376.1	12073.1	11735.5	11294.6	10845.0	10325.0
27.5°	11818.6	11916.5	11892.5	11817.7	11616.8	11356.7	10968.6	10532.6	9989.0	9458.0	8882.8
30°	10778.4	10883.1	10855.0	10758.9	10520.1	10212.5	9755.9	9249.4	8645.8	8078.7	7495.8
32.5°	9533.6	9666.0	9646.6	9555.3	9306.0	8977.0	8481.5	7944.3	7326.7	6767.8	6200.8
35°	8118.7	8279.6	8287.9	8228.2	7996.7	7671.5	7182.3	6662.2	6070.7	5543.4	5019.6
37.5°	6594.3	6780.8	6819.1	6803.0	6611.2	6324.1	5878.3	5411.8	4887.8	4425.7	3977.7
40°	5061.6	5250.2	5315.7	5335.2	5193.6	4971.2	4605.4	4228.9	3801.7	3427.2	3071.5
42.5°	3663.7	3831.0	3894.3	3934.1	3845.7	3697.4	3430.6	3157.1	2844.2	2574.1	2315.1
45°	2544.6	2662.9	2711.0	2751.0	2702.9	2619.3	2450.8	2279.7	2073.1	1896.6	1729.5
47.5°	1779.0	1844.3	1876.0	1895.5	1876.8	1833.3	1741.5	1642.5	1525.8	1422.7	1323.5
50°	1318.6	1353.4	1370.0	1381.3	1367.6	1343.4	1293.8	1239.8	1175.8	1117.4	1060.3
52.5°	1044.9	1064.9	1074.8	1080.9	1073.0	1058.2	1029.4	997.4	959.0	922.9	903.9
55°	880.4	879.3	902.1	891.1	902.1	877.5	872.3	837.2	805.3	782.9	758.5
57.5°	726.0	736.3	740.7	745.6	742.4	738.0	725.7	713.1	696.2	682.2	667.2
60°	628.4	637.0	641.8	646.6	646.3	644.7	637.5	630.0	619.5	611.1	602.0
62.5°	561.2	568.6	573.4	578.0	578.4	577.7	572.4	567.1	560.0	554.7	548.4
65°	508.4	513.6	516.8	520.5	520.2	519.3	514.5	510.1	504.2	500.6	495.9
67.5°	453.1	457.0	459.5	462.9	463.7	463.8	461.2	459.1	456.3	455.2	453.7
70°	413.7	418.4	422.5	426.9	429.3	430.4	429.3	428.3	426.6	425.9	424.6
72.5°	383.9	387.9	391.0	395.0	397.4	399.0	398.1	397.4	396.0	395.8	395.0
75°	346.9	349.7	351.5	354.5	355.7	357.2	356.5	356.9	356.4	357.5	357.5
77.5°	302.5	304.5	305.3	307.5	307.7	309.6	309.9	312.1	313.6	317.0	318.8
80°	252.4	253.7	253.7	255.9	256.9	260.0	261.5	264.9	266.6	269.6	269.8
82.5°	196.1	194.5	196.1	195.1	198.0	201.4	201.9	204.9	205.6	207.5	205.9
85°	134.0	133.9	132.7	133.0	132.1	132.4	132.0	132.5	132.0	132.1	130.6
87.5°	64.3	64.8	63.4	63.9	62.5	63.1	61.9	62.8	61.5	61.7	59.5
90°	25.0	25.9	26.6	27.5	28.5	30.8	33.2	35.5	38.0	40.3	42.7
92.5°	29.9	31.2	32.4	33.6	34.8	38.5	42.1	45.7	49.3	52.9	56.5
95°	34.3	35.4	36.4	37.6	38.7	43.9	49.1	54.4	59.6	64.8	70.0
97.5°	38.9	39.5	40.2	40.8	41.5	47.7	53.8	60.0	66.1	72.3	78.4
100°	44.7	45.5	46.3	47.1	47.9	62.1	76.3	90.5	104.7	118.9	133.0
102.5°	74.4	79.3	84.3	89.4	94.4	128.8	163.2	197.6	231.8	266.1	300.5
105°	173.7	190.4	207.3	223.9	240.7	292.7	344.8	396.9	448.9	500.8	552.9
107.5°	355.1	384.5	413.9	443.4	472.8	521.9	570.8	619.7	668.7	717.5	766.5
110°	545.7	571.0	596.5	622.0	647.4	686.3	725.2	764.1	802.9	841.8	880.6

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	656.6	672.0	687.6	703.0	718.5	747.0	775.7	804.3	832.9	861.3	889.9
115°	684.8	692.9	701.2	709.4	717.7	735.0	752.2	769.6	786.8	804.0	821.3
117.5°	664.2	667.2	670.2	673.1	676.1	685.0	694.0	702.9	711.8	720.8	729.8
120°	614.8	614.6	614.5	614.4	614.2	617.0	620.0	622.8	625.8	628.6	631.4
122.5°	559.0	557.1	555.3	553.3	551.4	550.5	549.8	548.9	548.2	547.4	546.6
125°	506.2	504.2	502.3	500.3	498.3	496.0	493.8	491.5	489.1	486.8	484.5
127.5°	460.8	459.0	457.5	455.6	453.9	451.3	448.7	446.0	443.5	440.8	438.3
130°	422.8	421.7	420.5	419.2	418.0	415.7	413.6	411.3	409.0	406.8	404.6
132.5°	395.1	394.3	393.6	392.6	391.8	389.8	387.9	385.9	383.9	381.9	380.0
135°	373.3	372.9	372.6	372.1	371.6	370.1	368.8	367.2	365.8	364.4	363.0
137.5°	355.1	355.1	355.1	355.0	355.0	353.8	352.6	351.5	350.3	349.1	348.0
140°	343.1	343.1	343.2	343.1	343.1	341.8	340.5	339.2	338.0	336.7	335.4
142.5°	330.7	330.8	330.9	330.8	330.8	329.8	328.9	327.9	327.0	326.0	325.0
145°	321.4	321.6	321.9	321.9	322.2	320.9	319.8	318.5	317.5	316.2	315.1
147.5°	312.4	312.7	313.0	313.1	313.4	312.3	311.5	310.4	309.5	308.4	307.5
150°	305.7	305.7	305.7	305.7	305.7	304.7	303.7	302.5	301.7	300.4	299.5
152.5°	298.9	299.1	299.2	299.2	299.3	298.3	297.1	295.9	294.8	293.6	292.6
155°	292.9	293.0	293.0	293.0	293.0	291.9	290.9	289.8	288.7	287.6	286.5
157.5°	287.7	287.7	287.8	287.9	287.9	286.9	286.1	285.1	284.2	283.2	282.3
160°	283.6	283.7	283.8	283.8	284.0	283.2	282.5	281.6	280.9	280.0	279.1
162.5°	280.8	281.0	281.1	281.1	281.2	280.4	279.7	278.9	278.1	277.2	276.4
165°	277.2	277.2	277.1	277.1	277.1	276.5	276.1	275.5	275.0	274.4	273.8
167.5°	276.6	276.6	276.5	276.5	276.4	276.1	275.8	275.4	274.9	274.6	274.1
170°	275.5	275.5	275.5	275.5	275.4	275.0	274.6	274.2	273.9	273.4	273.0
172.5°	274.6	274.4	274.2	274.0	273.8	273.6	273.3	273.0	272.9	272.6	272.3
175°	273.9	273.7	273.5	273.3	273.0	273.0	272.9	272.8	272.7	272.5	272.4
177.5°	275.7	275.5	275.0	274.6	274.3	274.2	274.1	274.0	273.9	273.8	273.7
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14224.0	14136.1	14124.6	14130.7	14145.4	14150.8	14166.6	14171.0	14186.9	14190.9	14206.2
5°	14517.5	14401.3	14407.1	14435.1	14477.4	14502.6	14544.1	14565.8	14605.5	14623.5	14659.3
7.5°	14827.0	14735.8	14764.2	14811.3	14869.1	14909.1	14959.0	14991.5	15034.5	15061.2	15095.6
10°	*14978.9*	*14953.9*	*14985.2*	*15022.3*	*15055.3*	*15081.1*	*15102.2*	*15119.2*	*15130.2*	*15140.6*	*15145.2*
12.5°	14863.3	14902.0	14907.2	14903.7	14881.8	14865.2	14827.7	14802.3	14757.1	14729.6	14675.7
15°	14434.6	14519.6	14472.5	14401.3	14297.0	14210.0	14087.2	13995.8	13867.9	13781.2	13652.9
17.5°	13682.3	13789.6	13667.0	13502.0	13292.2	13112.8	12889.3	12711.8	12489.7	12328.0	12120.7
20°	12623.2	12723.4	12504.6	12231.3	11906.8	11633.6	11311.6	11054.6	10755.2	10532.6	10264.0
22.5°	11304.5	11375.9	11067.7	10699.2	10285.7	9944.5	9559.4	9251.3	8909.8	8655.2	8368.7
25°	9845.7	9864.9	9495.2	9070.5	8609.7	8226.3	7815.2	7491.3	7142.9	6884.9	6603.8
27.5°	8373.1	8344.9	7945.3	7495.1	7010.3	6611.7	6210.8	5907.3	5602.1	5369.7	5127.5
30°	6983.4	6914.9	6500.0	6037.3	5566.7	5209.5	4876.6	4632.9	4390.1	4205.7	4011.4
32.5°	5708.9	5612.3	5208.4	4774.9	4378.4	4102.7	3855.9	3671.4	3475.4	3319.8	3156.5
35°	4580.0	4477.2	4119.4	3751.8	3451.7	3248.5	3054.5	2903.2	2736.8	2605.4	2463.6
37.5°	3611.3	3526.9	3227.2	2938.0	2711.0	2553.5	2394.6	2270.9	2133.4	2075.6	1924.1
40°	2787.8	2728.9	2494.6	2281.4	2110.9	2037.0	1875.6	1760.1	1657.3	1572.5	1490.4
42.5°	2174.6	2153.7	1925.7	1759.4	1639.3	1546.1	1456.2	1383.2	1312.1	1253.7	1198.6
45°	1595.9	1579.3	1478.0	1382.1	1300.3	1235.1	1174.3	1124.2	1077.7	1039.2	1004.1
47.5°	1242.7	1237.3	1179.1	1119.5	1068.0	1026.1	986.8	953.4	922.6	896.8	888.5
50°	1010.7	1010.0	975.8	939.1	902.4	878.2	853.0	833.3	813.5	798.1	781.8
52.5°	858.8	855.0	832.0	809.2	787.5	771.6	755.5	742.9	729.8	720.3	710.1
55°	739.3	743.2	729.8	716.3	702.7	692.8	681.5	673.3	664.3	658.2	652.1
57.5°	656.3	661.5	654.5	646.8	638.5	632.0	624.2	618.5	612.5	608.6	605.2
60°	596.0	601.6	598.8	594.9	589.8	585.9	581.0	577.8	573.9	571.8	569.8
62.5°	544.8	551.8	550.8	549.0	545.7	543.6	540.8	539.4	536.9	535.9	535.0
65°	493.7	501.6	501.4	500.6	498.8	498.1	496.5	496.1	494.8	495.4	495.2
67.5°	453.5	460.4	461.9	463.0	462.9	463.4	463.2	463.9	463.9	464.9	465.5
70°	424.5	429.3	430.4	431.6	431.9	432.8	432.8	433.5	433.3	434.1	434.3
72.5°	395.2	401.5	402.6	403.6	403.6	404.5	404.0	403.9	402.6	402.3	401.5
75°	358.7	366.8	368.6	369.7	369.9	370.7	369.6	368.9	366.8	366.0	364.5
77.5°	320.6	329.0	330.3	330.7	330.0	330.2	327.9	326.3	323.7	322.6	321.2
80°	271.0	283.4	284.5	283.6	281.7	281.3	279.1	277.7	274.5	273.4	272.2
82.5°	206.2	220.7	222.8	223.7	222.2	222.5	220.4	219.5	216.5	216.1	214.1
85°	130.2	144.7	147.1	146.8	145.2	144.8	143.6	144.0	143.7	144.5	145.0
87.5°	59.8	73.9	77.3	76.2	76.0	75.0	72.8	73.6	74.9	75.8	75.9
90°	45.1	51.7	53.9	52.2	49.2	47.3	44.4	42.7	40.0	38.3	35.6
92.5°	60.2	63.7	67.4	64.2	61.0	57.7	54.5	51.2	48.0	44.7	41.6
95°	75.3	80.4	85.6	81.4	77.1	72.8	68.5	64.2	59.9	55.6	51.3
97.5°	84.6	90.6	96.7	92.4	88.1	83.8	79.5	75.2	70.9	66.7	62.4
100°	147.3	161.2	175.4	163.2	151.0	138.8	126.5	114.3	102.1	89.9	77.8
102.5°	334.8	369.0	403.3	372.6	341.7	310.9	280.2	249.3	218.5	187.7	156.8
105°	604.9	656.7	708.6	661.5	614.5	567.5	520.5	473.4	426.3	379.3	332.3
107.5°	815.4	863.9	912.7	870.2	827.7	785.2	742.6	700.1	657.6	615.0	572.6
110°	919.5	957.8	996.6	968.0	939.4	910.9	882.5	853.9	825.5	797.0	768.5

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	918.3	946.3	974.5	957.8	941.1	924.6	907.9	891.2	874.7	858.1	841.5
115°	838.5	855.0	872.0	865.3	858.9	852.3	845.8	839.3	832.8	826.3	819.9
117.5°	738.7	746.6	755.2	754.1	753.0	751.9	750.8	749.6	748.6	747.6	746.6
120°	634.2	636.0	638.6	639.6	640.6	641.5	642.5	643.5	644.5	645.5	646.6
122.5°	545.7	543.9	542.7	543.6	544.6	545.5	546.4	547.4	548.4	549.4	550.4
125°	482.2	478.7	476.0	475.0	474.0	473.0	472.0	471.0	470.1	469.2	468.3
127.5°	435.6	431.8	428.7	426.2	423.8	421.2	418.8	416.3	413.8	411.3	408.9
130°	402.3	398.7	396.1	392.9	389.9	386.6	383.5	380.3	377.1	373.9	370.8
132.5°	377.9	374.5	372.1	369.1	366.2	363.1	360.1	357.0	354.0	350.8	347.9
135°	361.4	358.5	356.7	353.9	351.3	348.4	345.7	342.9	340.2	337.3	334.7
137.5°	346.7	344.0	342.5	340.2	338.2	336.0	333.9	331.6	329.5	327.1	325.1
140°	334.1	331.1	329.5	328.3	327.2	325.9	324.7	323.6	322.4	321.2	319.9
142.5°	324.1	321.3	320.0	319.2	318.6	317.8	317.2	316.4	315.7	314.8	314.1
145°	313.9	310.7	309.1	309.1	309.2	309.2	309.2	309.2	309.2	309.2	309.2
147.5°	306.5	303.3	301.8	302.1	302.3	302.5	302.7	302.9	303.2	303.3	303.5
150°	298.3	294.8	293.0	293.5	293.8	294.3	294.6	295.1	295.5	295.9	296.3
152.5°	291.3	287.0	285.1	285.5	286.1	286.4	286.9	287.4	287.9	288.4	288.9
155°	285.3	280.7	278.7	278.7	278.9	279.2	279.4	279.6	279.9	280.2	280.5
157.5°	281.2	276.5	274.6	274.6	274.6	274.7	274.7	274.9	275.0	275.2	275.4
160°	278.2	273.7	271.8	271.7	271.8	271.8	271.9	271.9	272.1	272.2	272.4
162.5°	275.5	271.0	269.2	269.0	269.0	269.0	269.2	269.1	269.3	269.3	269.6
165°	273.2	269.4	267.8	267.9	268.1	268.1	268.3	268.5	268.7	268.9	269.2
167.5°	273.7	270.2	269.0	268.9	268.8	268.6	268.6	268.4	268.4	268.3	268.3
170°	272.6	269.7	268.8	268.8	268.9	268.9	268.9	269.0	269.1	269.1	269.3
172.5°	272.0	270.0	269.2	269.5	269.7	269.9	270.2	270.4	270.6	270.9	271.2
175°	272.2	271.1	270.7	270.7	270.8	271.0	271.1	271.3	271.4	271.5	271.8
177.5°	273.6	273.1	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0	273.0
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14209.0	14225.6	14224.4	14239.8	14239.1	14253.6	14250.7	14263.3	14260.4	14271.1	14264.8
5°	14675.1	14706.6	14717.1	14745.4	14751.4	14776.8	14777.3	14797.5	14795.1	14810.9	14802.5
7.5°	15116.0	15145.4	15159.4	15181.5	15192.5	15210.9	15218.0	15233.0	15236.6	15245.5	15245.3
10°	*15153.2*	*15153.1*	*15160.1*	*15156.9*	*15163.1*	*15159.5*	*15167.1*	*15164.3*	*15175.5*	*15172.6*	*15181.0*
12.5°	14652.6	14602.8	14584.7	14540.1	14530.3	14492.1	14494.7	14470.2	14482.1	14466.9	14492.7
15°	13576.5	13461.3	13404.3	13304.1	13272.6	13193.4	13187.0	13134.4	13148.6	13121.0	13161.3
17.5°	11986.4	11805.0	11705.4	11559.1	11501.0	11388.9	11366.4	11298.7	11309.2	11275.1	11323.7
20°	10090.6	9871.3	9745.8	9576.4	9501.0	9367.4	9332.0	9256.3	9265.7	9231.8	9286.7
22.5°	8173.2	7943.6	7801.8	7624.4	7528.1	7402.4	7364.7	7288.6	7293.0	7261.1	7313.9
25°	6411.1	6191.1	6053.4	5892.3	5808.6	5693.5	5653.8	5585.6	5589.4	5563.1	5610.5
27.5°	4959.5	4778.9	4663.8	4528.7	4453.7	4359.0	4320.4	4262.9	4262.8	4243.5	4283.2
30°	3875.6	3724.9	3621.5	3503.9	3433.4	3348.0	3310.7	3259.3	3257.0	3243.3	3274.8
32.5°	3034.5	2900.5	2806.1	2702.6	2639.4	2566.1	2530.7	2489.4	2485.7	2473.3	2499.2
35°	2358.9	2246.0	2164.9	2077.8	2084.2	1976.1	1994.0	1910.0	1887.3	1882.3	1901.5
37.5°	1823.2	1735.8	1669.9	1604.6	1560.4	1514.7	1490.1	1468.0	1465.5	1463.3	1476.8
40°	1427.1	1365.8	1318.0	1273.2	1242.8	1214.9	1199.5	1187.4	1184.4	1182.8	1191.0
42.5°	1155.0	1113.7	1082.8	1055.5	1037.0	1021.9	1013.4	1006.6	1004.4	1004.4	1009.2
45°	975.8	950.8	930.9	913.9	902.1	907.3	892.0	900.0	889.4	900.3	893.1
47.5°	859.3	838.0	825.7	813.7	806.5	800.8	801.0	801.0	803.4	803.7	806.0
50°	769.5	757.1	748.6	740.9	737.2	734.1	735.2	736.0	738.1	738.3	740.0
52.5°	702.9	694.8	689.7	684.9	683.2	681.5	682.3	681.9	683.0	682.4	683.9
55°	648.8	645.0	643.4	641.6	641.9	641.4	641.7	640.0	638.9	637.6	638.9
57.5°	604.4	603.8	605.0	605.7	607.8	608.5	608.9	607.0	605.1	603.4	604.4
60°	570.2	571.0	573.7	575.9	578.9	580.2	581.0	579.9	578.5	577.1	578.0
62.5°	536.4	537.7	540.9	543.4	547.0	548.8	550.8	550.9	551.4	550.9	551.5
65°	497.3	498.9	501.8	503.9	507.1	508.8	510.8	511.2	512.3	512.0	513.0
67.5°	467.4	468.9	471.3	473.3	476.2	477.9	479.7	479.8	480.2	480.1	481.1
70°	435.7	436.4	438.6	440.2	443.2	444.9	447.0	447.6	448.9	449.1	450.1
72.5°	401.8	401.5	402.8	403.5	405.7	407.1	409.7	411.3	413.4	414.0	414.7
75°	364.9	364.7	366.2	366.8	368.7	370.1	373.0	375.0	378.4	379.8	379.4
77.5°	322.2	322.9	325.9	327.5	330.0	331.8	335.6	338.7	344.9	347.6	344.9
80°	274.5	275.3	278.3	279.8	283.1	285.2	289.5	293.1	298.7	300.0	298.4
82.5°	215.8	216.0	218.7	219.8	224.1	227.2	232.8	235.6	239.1	238.6	238.1
85°	147.1	149.1	152.6	155.9	161.1	166.2	171.4	175.6	172.6	177.3	172.0
87.5°	78.6	78.4	83.1	82.3	89.6	93.8	98.4	100.5	102.9	102.4	102.5
90°	34.2	32.5	31.9	30.1	29.9	28.0	28.1	26.3	26.6	24.6	27.6
92.5°	38.3	36.7	34.8	33.2	31.4	29.8	27.9	26.2	24.4	22.7	24.4
95°	47.1	45.4	43.8	42.2	40.5	38.9	37.3	35.7	34.1	32.5	34.6
97.5°	58.1	57.1	56.2	55.3	54.4	53.4	52.5	51.5	50.5	49.5	50.9
100°	65.6	65.6	65.6	65.6	65.5	65.5	65.5	65.5	65.5	65.5	66.6
102.5°	126.0	122.9	119.9	116.7	113.7	110.6	107.6	104.4	101.4	98.3	102.8
105°	285.3	273.3	261.2	249.1	237.0	225.0	213.0	200.9	188.8	176.8	189.3
107.5°	530.1	508.1	486.2	464.2	442.2	420.3	398.3	376.3	354.4	332.5	352.2
110°	740.1	716.7	693.4	670.1	646.8	623.4	600.2	576.9	553.6	530.3	549.0

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	824.9	809.8	794.7	779.7	764.6	749.6	734.7	719.6	704.6	689.7	698.7
115°	813.4	806.2	799.1	791.9	784.8	777.6	770.5	763.3	756.3	749.2	749.7
117.5°	745.5	743.1	740.7	738.3	736.0	733.7	731.4	729.0	726.7	724.5	719.4
120°	647.8	648.5	649.2	650.1	650.9	651.8	652.5	653.5	654.4	655.3	648.5
122.5°	551.3	553.1	554.9	556.7	558.7	560.5	562.4	564.4	566.4	568.4	561.5
125°	467.3	469.1	470.8	472.7	474.4	476.3	478.2	480.2	482.1	484.2	478.5
127.5°	406.4	407.2	407.7	408.4	409.1	409.9	410.7	411.7	412.6	413.6	409.9
130°	367.7	367.1	366.4	365.9	365.4	365.0	364.6	364.2	363.9	363.7	362.0
132.5°	344.8	343.4	341.9	340.6	339.3	338.0	336.8	335.7	334.5	333.6	333.0
135°	331.9	329.9	327.9	326.0	324.1	322.3	320.5	318.9	317.3	315.7	316.0
137.5°	322.8	320.9	318.8	317.0	315.1	313.4	311.5	309.9	308.3	306.7	307.3
140°	318.8	316.7	314.8	312.9	311.1	309.3	307.6	306.0	304.2	302.8	303.2
142.5°	313.3	311.7	309.8	308.2	306.4	304.9	303.3	301.8	300.2	299.0	299.3
145°	309.1	307.9	306.6	305.2	304.1	302.9	301.7	300.6	299.5	298.6	298.9
147.5°	303.8	302.8	301.7	300.8	299.9	299.0	298.1	297.3	296.5	295.9	295.9
150°	296.7	296.1	295.4	294.9	294.2	293.6	293.1	292.6	292.0	291.7	291.6
152.5°	289.4	288.8	288.2	287.7	287.0	286.6	286.1	285.6	285.2	284.7	284.7
155°	280.8	280.5	280.3	280.0	279.7	279.6	279.4	279.3	279.1	278.9	279.0
157.5°	275.5	275.5	275.4	275.4	275.4	275.3	275.2	275.3	275.2	275.3	275.4
160°	272.6	272.4	272.2	272.1	272.0	271.8	271.6	271.5	271.4	271.4	271.6
162.5°	269.7	269.8	269.8	269.9	270.1	270.2	270.4	270.6	270.7	270.9	271.1
165°	269.5	269.4	269.3	269.2	269.2	269.2	269.1	269.3	269.2	269.3	269.6
167.5°	268.2	268.4	268.5	268.7	268.9	269.0	269.3	269.6	269.8	270.1	270.4
170°	269.3	269.3	269.3	269.3	269.3	269.4	269.5	269.5	269.6	269.7	269.9
172.5°	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.4	271.5	271.7
175°	271.8	272.1	272.2	272.3	272.5	272.6	272.8	272.9	273.0	273.1	273.1
177.5°	273.0	273.0	273.0	273.0	273.0	273.1	273.1	273.1	273.1	273.0	273.1
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14275.3	14268.2	14275.5	14268.1	14275.5	14266.6	14272.7	14263.0	14265.4	14255.5	14258.0
5°	14815.1	14803.7	14809.8	14795.0	14796.6	14776.8	14776.4	14753.4	14747.4	14721.2	14709.7
7.5°	15251.6	15247.8	15250.0	15240.4	15239.4	15225.8	15219.4	15200.4	15188.5	15164.3	15147.9
10°	*15182.5*	*15193.7*	*15196.5*	*15207.8*	*15210.1*	*15221.5*	*15223.8*	*15235.0*	*15237.3*	*15245.7*	*15245.8*
12.5°	14491.4	14529.2	14538.3	14584.9	14604.6	14658.0	14686.6	14745.4	14780.4	14839.1	14875.2
15°	13160.2	13225.6	13251.6	13342.8	13393.2	13499.6	13566.3	13688.5	13774.8	13904.5	13997.0
17.5°	11328.0	11419.3	11460.5	11584.1	11664.7	11821.8	11934.9	12121.2	12263.8	12470.8	12634.9
20°	9296.2	9397.7	9453.7	9594.6	9689.8	9873.2	10014.5	10243.5	10434.3	10696.6	10920.9
22.5°	7330.5	7427.1	7489.3	7632.7	7739.8	7931.1	8089.0	8330.7	8544.6	8840.2	9109.0
25°	5628.4	5717.0	5773.2	5902.9	6003.5	6179.3	6330.1	6562.4	6771.8	7068.2	7344.1
27.5°	4302.9	4377.0	4431.2	4541.8	4630.5	4779.6	4909.2	5101.2	5281.5	5538.1	5783.6
30°	3294.2	3360.0	3412.6	3508.9	3591.2	3720.5	3834.4	3995.7	4145.0	4349.0	4544.4
32.5°	2517.4	2574.0	2620.8	2705.2	2779.8	2896.2	2998.9	3140.2	3268.3	3441.4	3602.2
35°	1919.3	2030.7	2022.8	2139.2	2157.9	2241.4	2332.9	2456.6	2570.0	2717.2	2854.0
37.5°	1489.7	1521.1	1554.6	1606.0	1660.0	1736.0	1813.4	1964.4	2019.9	2131.1	2244.3
40°	1201.3	1222.5	1244.7	1279.4	1317.2	1370.8	1427.1	1499.2	1572.9	1663.2	1755.3
42.5°	1015.6	1027.6	1041.7	1062.1	1085.4	1119.4	1157.1	1205.9	1257.3	1320.8	1385.5
45°	907.4	901.7	905.9	916.9	930.9	951.6	975.4	1005.6	1039.1	1080.1	1123.9
47.5°	806.5	808.8	810.0	816.0	823.5	837.4	851.8	872.3	912.0	924.1	948.0
50°	739.9	741.0	740.6	743.7	747.5	756.5	765.8	779.7	793.6	812.0	829.6
52.5°	684.0	685.6	685.4	687.3	689.4	695.1	701.0	710.9	720.0	731.6	741.7
55°	639.9	642.1	642.9	644.6	645.5	648.6	650.9	655.6	659.4	666.1	672.2
57.5°	606.0	608.9	610.3	610.9	609.7	609.5	608.7	609.7	610.5	614.1	617.5
60°	579.3	581.6	582.0	581.6	579.5	577.9	575.4	574.6	574.2	575.9	577.8
62.5°	551.3	552.2	551.6	550.9	548.4	546.9	544.3	543.3	542.4	543.7	544.7
65°	512.7	513.4	512.7	512.3	510.0	508.8	506.6	505.9	504.7	504.9	504.7
67.5°	481.3	482.0	481.5	480.9	479.3	478.5	476.9	475.9	474.4	473.8	472.7
70°	450.0	450.6	449.7	449.1	447.4	446.6	445.1	444.9	443.6	443.3	442.2
72.5°	414.0	414.0	412.8	412.4	411.1	411.1	410.5	411.0	411.0	411.6	411.3
75°	377.1	376.6	375.1	374.8	373.8	374.3	373.6	374.5	374.6	376.0	376.1
77.5°	340.2	338.4	335.3	333.9	331.9	331.7	330.5	331.3	331.1	332.7	333.3
80°	293.6	291.3	287.5	285.7	283.3	282.9	281.9	282.9	282.4	284.3	285.5
82.5°	234.5	232.4	228.5	227.0	224.3	224.6	223.4	224.6	224.4	227.1	228.7
85°	173.4	172.1	168.0	164.4	160.4	158.0	155.7	155.3	154.6	155.7	156.7
87.5°	100.2	98.9	95.7	93.7	86.6	86.9	84.1	83.9	83.3	82.7	84.1
90°	28.0	30.7	31.1	33.7	34.3	37.1	38.0	40.6	41.4	44.3	45.4
92.5°	26.2	27.9	29.7	31.4	33.2	34.8	36.6	38.3	42.1	45.7	49.5
95°	36.5	38.6	40.5	42.6	44.6	46.6	48.6	50.6	56.1	61.6	67.1
97.5°	52.3	53.6	54.9	56.2	57.6	58.9	60.2	61.6	67.5	73.4	79.3
100°	67.6	68.7	69.8	70.8	71.9	73.0	74.1	75.1	86.6	97.9	109.3
102.5°	107.4	111.9	116.5	121.0	125.6	130.1	134.7	139.2	165.4	191.5	217.6
105°	201.7	214.1	226.6	239.0	251.5	264.0	276.4	288.9	330.7	372.4	414.3
107.5°	371.9	391.5	411.2	431.0	450.6	470.3	489.9	509.7	550.4	591.3	631.9
110°	567.8	586.5	605.3	624.2	642.9	661.6	680.5	699.3	723.7	748.1	772.6

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	707.8	716.9	726.1	735.3	744.5	753.6	762.8	772.0	784.2	796.3	808.6
115°	750.3	750.9	751.5	752.0	752.7	753.3	754.0	754.7	758.5	762.3	766.1
117.5°	714.4	709.3	704.4	699.3	694.3	689.4	684.5	679.7	678.8	677.9	677.2
120°	641.9	635.1	628.4	621.6	615.1	608.3	601.8	595.2	591.8	588.3	584.9
122.5°	554.9	548.1	541.5	534.8	528.3	521.6	515.2	508.7	506.2	503.8	501.3
125°	472.8	467.2	461.7	456.1	450.7	445.2	439.9	434.4	434.2	433.9	433.7
127.5°	406.5	403.1	399.7	396.3	393.1	389.8	386.6	383.3	384.6	386.0	387.2
130°	360.5	359.0	357.5	355.9	354.8	353.3	352.0	350.7	353.2	355.4	357.9
132.5°	332.8	332.5	332.2	332.0	331.9	331.8	331.8	331.6	334.4	337.2	339.9
135°	316.4	316.6	317.2	317.6	318.2	318.7	319.4	319.9	322.6	325.2	327.9
137.5°	307.9	308.5	309.2	309.9	310.8	311.5	312.5	313.3	315.4	317.4	319.5
140°	303.7	304.1	304.7	305.3	305.9	306.6	307.4	308.0	309.7	311.3	312.9
142.5°	299.9	300.2	300.8	301.4	302.0	302.6	303.3	303.9	305.0	306.2	307.5
145°	299.2	299.5	299.9	300.3	300.7	301.2	301.7	302.1	302.8	303.5	304.3
147.5°	296.0	296.2	296.5	296.7	297.1	297.4	297.6	297.8	298.4	298.7	299.2
150°	291.6	291.7	291.8	291.8	291.9	292.1	292.2	292.4	292.7	293.1	293.5
152.5°	284.8	284.8	284.8	284.9	285.0	285.1	285.1	285.3	285.6	286.0	286.3
155°	279.2	279.4	279.6	279.7	280.0	280.1	280.4	280.5	280.8	281.0	281.2
157.5°	275.5	275.6	275.9	276.1	276.3	276.4	276.7	276.8	277.1	277.2	277.4
160°	271.9	272.3	272.5	273.0	273.2	273.6	273.8	274.3	274.5	274.6	274.8
162.5°	271.3	271.4	271.7	271.9	272.1	272.2	272.4	272.6	273.0	273.2	273.7
165°	269.9	270.2	270.6	270.8	271.3	271.6	271.9	272.2	272.3	272.6	272.8
167.5°	270.7	271.0	271.4	271.7	272.0	272.3	272.6	273.0	273.1	273.2	273.5
170°	270.2	270.5	270.7	271.1	271.4	271.6	271.9	272.2	272.5	272.8	273.0
172.5°	271.9	272.2	272.3	272.6	272.8	273.1	273.3	273.6	273.8	274.1	274.3
175°	273.1	273.1	273.2	273.2	273.3	273.3	273.4	273.5	273.5	273.6	273.6
177.5°	273.3	273.4	273.6	273.7	273.8	273.9	274.1	274.2	274.2	274.2	274.2
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14248.1	14248.7	14237.2	14236.6	14225.8	14224.5	14213.9	14210.7	14202.3	14199.1	14190.5
5°	14680.4	14666.4	14634.0	14615.0	14583.0	14561.8	14527.3	14504.7	14471.3	14446.1	14412.5
7.5°	15117.6	15095.8	15059.5	15030.0	14985.8	14950.3	14898.4	14855.8	14799.7	14751.0	14691.9
10°	*15245.8*	*15242.4*	*15233.1*	*15219.7*	*15199.1*	*15175.8*	*15140.5*	*15103.7*	*15054.5*	*15000.9*	*14935.3*
12.5°	14930.2	14964.4	15010.8	15038.3	15071.8	15086.5	15100.3	15096.8	15087.8	15060.7	15022.7
15°	14131.1	14226.8	14353.6	14451.8	14564.8	14646.9	14737.7	14794.2	14850.6	14876.6	14892.5
17.5°	12859.8	13041.0	13268.3	13456.6	13674.0	13848.6	14039.9	14184.0	14332.1	14438.2	14534.2
20°	11226.7	11489.3	11810.8	12094.8	12425.0	12711.9	13026.4	13284.6	13550.8	13759.0	13956.0
22.5°	9455.4	9767.3	10156.0	10516.0	10941.7	11324.2	11755.9	12131.6	12523.9	12851.6	13168.5
25°	7713.6	8055.7	8480.6	8882.3	9364.4	9809.5	10321.4	10789.6	11296.6	11736.7	12171.6
27.5°	6123.1	6459.0	6892.8	7320.4	7830.3	8304.4	8852.9	9368.8	9946.1	10478.4	11022.9
30°	4815.9	5100.7	5489.8	5903.9	6406.8	6889.3	7443.7	7974.3	8574.8	9156.1	9769.5
32.5°	3815.5	4032.5	4338.3	4688.6	5152.5	5611.8	6139.8	6651.9	7243.4	7830.4	8468.4
35°	3030.2	3199.5	3432.7	3705.9	4098.8	4494.7	4961.8	5427.5	5979.3	6536.4	7156.5
37.5°	2389.5	2526.8	2709.4	2914.7	3229.8	3554.8	3937.7	4323.8	4803.2	5297.1	5859.2
40°	1866.0	1977.1	2119.3	2272.4	2510.3	2760.7	3056.9	3356.3	3741.4	4145.1	4610.2
42.5°	1465.8	1547.8	1648.3	1760.2	1982.2	2115.1	2315.9	2532.5	2815.6	3108.7	3458.3
45°	1177.2	1233.2	1302.8	1377.8	1480.9	1593.6	1731.1	1875.4	2144.3	2276.3	2489.0
47.5°	983.1	1020.6	1064.9	1112.2	1173.0	1238.6	1320.1	1403.5	1511.4	1623.1	1754.2
50°	852.4	890.5	905.8	930.3	965.4	1002.9	1048.9	1094.9	1152.7	1211.3	1278.8
52.5°	755.3	767.7	784.3	799.9	821.6	864.3	878.1	902.1	934.5	966.3	1001.7
55°	681.2	689.3	700.1	709.4	722.6	735.3	753.5	769.4	791.1	810.1	833.7
57.5°	623.5	628.7	636.2	642.3	650.9	657.9	668.6	677.3	689.7	700.5	714.8
60°	581.6	585.0	590.1	594.1	599.6	603.2	608.6	612.6	619.2	624.7	632.6
62.5°	547.4	549.2	552.4	554.8	558.3	560.2	562.9	564.7	568.4	571.1	575.6
65°	506.3	506.7	508.9	509.9	512.7	513.7	516.0	516.8	519.7	521.8	525.7
67.5°	472.7	471.8	471.8	471.0	471.3	470.6	470.8	470.0	471.1	471.8	474.8
70°	441.9	440.7	440.2	438.8	438.4	436.9	436.5	435.2	435.1	434.6	435.7
72.5°	412.0	411.6	411.7	410.7	410.6	409.7	409.7	409.1	409.7	410.1	411.4
75°	377.6	377.7	378.4	377.5	377.8	376.9	377.2	376.4	376.9	376.7	378.0
77.5°	335.7	336.7	338.5	338.1	338.7	337.7	338.2	337.1	337.4	336.7	337.2
80°	288.6	290.6	293.1	293.0	294.0	293.4	294.3	293.3	293.6	292.4	292.1
82.5°	232.6	234.4	237.0	237.0	239.4	239.8	242.3	242.2	243.8	242.8	242.1
85°	159.0	160.2	162.5	163.8	166.1	167.5	170.0	171.0	169.2	172.5	169.9
87.5°	83.1	86.1	84.4	88.4	87.5	91.5	90.6	94.5	93.7	97.0	96.5
90°	48.8	50.3	53.7	55.3	59.3	61.1	61.6	59.4	59.8	57.7	58.0
92.5°	53.2	57.1	60.9	64.6	68.4	72.2	68.6	65.1	61.7	58.3	54.7
95°	72.5	78.1	83.5	89.0	94.5	100.0	94.1	88.3	82.4	76.5	70.6
97.5°	85.2	91.2	97.0	102.9	108.8	114.7	107.7	100.8	93.8	87.0	79.9
100°	120.7	132.1	143.5	154.9	166.3	177.7	164.8	151.9	138.8	125.8	112.9
102.5°	243.8	269.8	296.0	322.1	348.3	374.5	346.9	319.4	291.8	264.4	236.8
105°	456.1	498.0	539.7	581.6	623.3	665.2	620.6	575.9	531.3	486.7	442.0
107.5°	672.7	713.4	754.3	795.0	835.8	876.6	831.3	786.1	740.9	695.5	650.3
110°	797.1	821.5	846.0	870.6	895.1	919.6	886.5	853.4	820.4	787.2	754.2

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	820.7	833.0	845.2	857.5	869.8	882.0	858.3	834.7	811.0	787.4	763.6
115°	769.9	773.8	777.6	781.5	785.4	789.2	773.2	757.2	741.2	725.3	709.2
117.5°	676.4	675.7	674.8	674.1	673.3	672.5	663.5	654.6	645.5	636.5	627.5
120°	581.6	578.1	574.7	571.3	567.9	564.4	560.6	556.8	552.9	549.0	545.0
122.5°	498.9	496.5	494.1	491.7	489.2	486.7	485.2	483.7	482.1	480.5	478.9
125°	433.5	433.2	433.0	432.7	432.5	432.2	431.3	430.5	429.5	428.7	427.7
127.5°	388.4	389.8	391.0	392.3	393.4	394.7	394.3	394.1	393.7	393.4	393.1
130°	360.1	362.6	364.9	367.1	369.4	371.8	371.2	370.6	370.1	369.6	368.9
132.5°	342.7	345.4	348.2	350.9	353.6	356.2	355.6	354.9	354.1	353.5	352.8
135°	330.4	333.1	335.6	338.3	340.8	343.3	342.4	341.7	340.8	340.1	339.2
137.5°	321.5	323.6	325.5	327.6	329.5	331.5	330.7	329.9	329.0	328.2	327.4
140°	314.5	316.1	317.6	319.2	320.7	322.2	321.3	320.3	319.3	318.3	317.2
142.5°	308.6	309.8	310.8	312.1	313.1	314.3	312.9	311.6	310.4	309.0	307.6
145°	305.0	305.7	306.5	307.2	307.7	308.4	306.9	305.5	303.9	302.5	300.9
147.5°	299.6	300.0	300.3	300.8	301.0	301.5	300.0	298.6	297.3	295.9	294.3
150°	293.8	294.3	294.5	294.9	295.2	295.5	294.1	292.6	291.1	289.6	288.2
152.5°	286.7	287.0	287.3	287.6	287.9	288.2	286.8	285.5	284.1	282.7	281.3
155°	281.3	281.6	281.7	282.0	282.0	282.1	280.9	279.9	278.7	277.6	276.3
157.5°	277.6	277.8	277.9	278.0	278.2	278.3	277.4	276.6	275.6	274.8	273.8
160°	275.0	275.1	275.3	275.4	275.5	275.6	274.8	274.2	273.5	272.7	271.9
162.5°	273.9	274.3	274.5	274.7	275.0	275.3	274.4	273.6	272.7	271.8	270.8
165°	272.9	273.0	273.2	273.4	273.4	273.6	273.0	272.4	271.8	271.2	270.5
167.5°	273.6	273.8	273.8	274.0	274.1	274.2	273.5	273.0	272.3	271.8	271.1
170°	273.3	273.5	273.8	274.0	274.3	274.4	273.9	273.5	273.0	272.5	272.0
172.5°	274.6	274.7	274.9	275.1	275.3	275.5	275.0	274.5	274.0	273.5	273.0
175°	273.6	273.7	273.8	273.8	273.8	273.8	273.5	273.0	272.7	272.2	271.9
177.5°	274.2	274.2	274.2	274.2	274.2	274.2	273.9	273.7	273.4	273.1	272.8
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

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

Scaled Data Report

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8	14098.8
2.5°	14187.4	14181.2	14177.3	14172.2	14169.1	14165.2	14162.3	14159.8	14157.9	14156.0	14154.7
5°	14386.9	14355.2	14330.6	14303.9	14282.0	14260.2	14243.3	14229.4	14219.8	14212.6	14208.3
7.5°	14640.9	14582.9	14531.2	14476.9	14428.2	14380.2	14339.0	14303.4	14276.7	14259.4	14248.9
10°	*14867.8*	*14790.1*	*14713.2*	*14632.2*	*14555.6*	*14481.2*	*14412.5*	*14352.1*	*14304.3*	*14272.5*	*14254.0*
12.5°	14969.4	14903.2	14824.7	14736.9	14642.8	14547.8	14455.1	14371.5	14301.4	14254.2	14227.0
15°	14879.9	14852.7	14799.4	14731.2	14642.0	14543.7	14434.9	14332.5	14238.4	14177.4	14142.0
17.5°	14588.6	14626.4	14622.4	14596.3	14532.3	14449.5	14338.5	14223.7	14105.9	14024.3	13979.7
20°	14096.9	14216.2	14276.7	14307.8	14282.6	14228.9	14128.5	14011.8	13874.6	13768.1	13703.1
22.5°	13406.1	13616.7	13747.9	13843.8	13864.3	13845.9	13757.2	13646.4	13493.4	13365.4	13269.4
25°	12516.8	12825.3	13032.6	13195.1	13258.3	13274.6	13199.1	13088.8	12918.3	12769.2	12637.3
27.5°	11469.3	11870.1	12146.9	12365.4	12463.9	12506.7	12437.2	12324.6	12123.0	11944.9	11772.8
30°	10290.1	10765.5	11098.9	11360.7	11480.9	11537.4	11463.6	11338.0	11103.3	10889.0	10672.1
32.5°	9027.9	9548.2	9911.3	10195.8	10314.8	10368.0	10271.4	10130.4	9859.1	9606.7	9353.8
35°	7706.3	8231.5	8597.8	8874.7	8974.4	9006.5	8883.1	8720.0	8419.4	8142.4	7866.5
37.5°	6357.9	6846.5	7179.5	7427.9	7489.7	7495.2	7346.5	7166.4	6850.5	6577.3	6302.7
40°	5021.1	5433.2	5702.0	5900.9	5922.3	5903.2	5741.5	5560.3	5264.7	5020.0	4778.9
42.5°	3761.9	4073.0	4264.8	4401.1	4393.0	4355.2	4207.0	4051.1	3807.3	3621.0	3431.2
45°	2683.2	2888.4	3000.5	3080.2	3054.6	3018.6	2903.2	2794.0	2628.3	2507.9	2380.4
47.5°	1864.1	2109.0	2066.4	2222.2	2087.9	2176.7	1991.9	1890.0	1802.2	1738.2	1666.1
50°	1334.5	1390.6	1417.7	1436.2	1426.4	1412.8	1379.6	1349.9	1309.7	1280.5	1246.3
52.5°	1030.6	1058.7	1074.0	1085.1	1083.0	1078.0	1063.6	1050.3	1031.5	1019.1	1004.1
55°	873.0	873.4	901.7	889.5	907.4	886.4	894.7	871.4	875.2	855.2	841.9
57.5°	725.4	736.9	742.1	747.1	745.7	744.8	739.2	736.3	730.0	728.1	723.6
60°	638.1	644.1	645.4	647.7	645.7	645.0	640.6	639.0	634.8	634.0	631.0
62.5°	578.3	581.3	581.3	581.3	578.8	576.4	571.5	569.0	565.3	564.6	562.8
65°	528.3	531.5	532.0	532.6	530.9	529.0	524.7	521.9	518.2	516.8	514.8
67.5°	476.7	480.1	481.2	483.0	481.9	481.6	478.6	477.6	475.1	474.5	472.7
70°	436.2	437.6	437.5	437.5	435.1	433.1	429.7	428.1	425.5	425.0	423.4
72.5°	412.2	413.1	412.5	411.6	408.6	405.6	401.6	398.7	395.3	393.3	390.9
75°	378.2	379.5	378.6	378.1	375.4	373.5	370.3	368.7	366.3	365.6	364.0
77.5°	336.6	337.2	335.8	335.7	333.6	332.4	330.0	329.5	327.9	327.9	326.3
80°	290.2	289.8	287.7	287.2	285.2	284.6	282.8	282.9	281.5	282.1	281.0
82.5°	238.8	237.5	234.6	233.7	231.4	231.3	230.0	231.0	230.2	231.4	230.7
85°	171.1	171.5	170.2	170.2	169.6	169.8	169.7	170.5	170.6	171.7	171.6
87.5°	95.4	96.8	96.5	97.8	97.7	99.1	99.6	101.7	101.9	103.9	103.9
90°	56.1	56.5	54.4	55.1	54.1	55.5	54.9	56.3	55.5	56.6	55.3
92.5°	51.2	47.8	44.4	40.8	39.0	37.2	35.6	33.8	32.1	30.3	28.5
95°	64.7	58.8	52.9	47.1	45.0	43.0	40.9	38.9	36.9	34.9	32.9
97.5°	73.0	66.0	59.1	52.1	50.3	48.7	46.8	45.1	43.3	41.6	39.8
100°	99.9	86.9	74.1	61.0	59.4	58.0	56.5	55.1	53.6	52.1	50.6
102.5°	209.3	181.8	154.2	126.6	121.4	116.2	110.9	105.6	100.4	95.2	89.9
105°	397.4	352.7	308.1	263.3	249.2	235.0	220.7	206.6	192.4	178.2	164.0
107.5°	604.9	559.5	514.3	468.9	442.8	416.5	390.3	363.9	337.8	311.5	285.3
110°	721.1	688.0	654.8	621.7	600.6	579.5	558.3	537.2	516.1	494.9	473.7

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	740.0	716.3	692.5	668.7	659.2	649.6	640.0	630.4	620.8	611.1	601.5
115°	693.1	677.2	661.0	644.8	641.5	638.1	634.8	631.3	627.9	624.4	620.9
117.5°	618.5	609.5	600.4	591.3	591.7	592.3	592.8	593.3	593.7	594.1	594.6
120°	541.1	537.2	533.3	529.2	532.2	535.0	537.8	540.6	543.4	546.1	548.9
122.5°	477.3	475.6	474.1	472.4	475.9	479.3	482.6	486.0	489.3	492.5	495.7
125°	426.9	426.0	425.2	424.1	427.7	431.0	434.4	437.8	441.2	444.4	447.7
127.5°	392.8	392.4	392.1	391.7	394.2	396.5	398.9	401.1	403.6	405.7	407.9
130°	368.4	367.7	367.2	366.6	368.8	370.9	373.1	375.1	377.2	379.1	381.1
132.5°	352.2	351.4	350.8	350.0	351.6	353.1	354.6	355.8	357.3	358.5	359.8
135°	338.5	337.5	336.8	335.8	337.3	338.6	340.0	341.2	342.5	343.5	344.7
137.5°	326.6	325.7	324.8	324.0	325.3	326.5	327.7	328.7	329.8	330.9	331.8
140°	316.3	315.2	314.3	313.2	314.3	315.4	316.4	317.4	318.4	319.2	320.1
142.5°	306.3	304.9	303.8	302.4	303.2	303.9	304.6	305.3	306.1	306.7	307.3
145°	299.5	297.9	296.5	294.9	295.6	296.1	296.7	297.3	297.7	298.1	298.6
147.5°	293.0	291.5	290.1	288.6	289.2	289.5	289.9	290.2	290.7	291.0	291.2
150°	286.7	285.2	283.6	282.1	282.5	282.8	283.2	283.6	283.8	284.1	284.4
152.5°	279.9	278.5	277.1	275.6	275.9	276.2	276.4	276.7	277.0	277.1	277.4
155°	275.3	274.0	272.9	271.5	271.9	272.1	272.2	272.5	272.7	272.9	273.0
157.5°	273.0	271.9	271.1	270.0	270.1	270.2	270.3	270.2	270.3	270.3	270.3
160°	271.1	270.3	269.5	268.6	268.6	268.7	268.7	268.7	268.7	268.6	268.6
162.5°	269.9	268.9	268.1	267.0	267.1	267.1	267.2	267.1	267.2	267.0	267.0
165°	269.8	269.2	268.5	267.8	267.7	267.6	267.5	267.3	267.3	267.0	266.9
167.5°	270.5	269.7	269.0	268.2	268.3	268.4	268.5	268.4	268.5	268.3	268.4
170°	271.4	270.8	270.3	269.7	269.6	269.6	269.4	269.3	269.2	269.0	268.9
172.5°	272.3	271.8	271.3	270.5	270.5	270.5	270.5	270.4	270.2	270.1	270.1
175°	271.4	271.0	270.5	270.1	270.0	270.0	269.9	269.9	269.8	269.7	269.7
177.5°	272.5	272.2	271.9	271.6	271.6	271.6	271.5	271.4	271.4	271.4	271.4
180°	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9	272.9

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	14098.8	14098.8
2.5°	14153.4	14152.7
5°	14206.1	14205.2
7.5°	14246.1	14245.8
10°	*14250.8*	*14253.2*
12.5°	14222.4	14224.4
15°	14139.3	14143.2
17.5°	13980.5	13985.6
20°	13707.1	13712.4
22.5°	13264.3	13266.4
25°	12620.3	12611.1
27.5°	11742.5	11726.8
30°	10626.6	10611.3
32.5°	9296.0	9286.6
35°	7798.4	7792.3
37.5°	6221.6	6209.3
40°	4690.8	4655.1
42.5°	3348.2	3285.6
45°	2313.8	2239.7
47.5°	1615.3	1569.5
50°	1224.3	1209.5
52.5°	997.6	994.2
55°	841.8	840.3
57.5°	724.7	724.1
60°	632.6	632.4
62.5°	564.0	564.3
65°	515.7	515.8
67.5°	473.1	472.8
70°	424.0	423.6
72.5°	390.1	389.5
75°	364.0	363.6
77.5°	326.8	326.2
80°	281.8	281.0
82.5°	231.7	230.9
85°	172.9	172.9
87.5°	105.8	105.7
90°	56.3	54.8
92.5°	26.9	25.2
95°	30.9	28.9
97.5°	38.1	36.4
100°	49.2	47.7
102.5°	84.7	79.5
105°	149.8	135.6
107.5°	259.0	232.8
110°	452.6	431.5

TEST NUMBER: P1444653
CATALOG NUMBER: EHBR1-18-UNV-TA-L930-UPL24

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	591.8	582.2
115°	617.4	613.9
117.5°	594.9	595.3
120°	551.3	554.0
122.5°	498.9	502.1
125°	450.8	453.9
127.5°	409.9	412.0
130°	382.7	384.5
132.5°	360.8	361.9
135°	345.6	346.6
137.5°	332.7	333.4
140°	320.7	321.4
142.5°	307.7	308.2
145°	298.9	299.2
147.5°	291.2	291.5
150°	284.5	284.6
152.5°	277.4	277.6
155°	273.0	273.1
157.5°	270.1	270.1
160°	268.5	268.4
162.5°	266.8	266.9
165°	266.6	266.4
167.5°	268.2	268.3
170°	268.8	268.7
172.5°	269.9	269.8
175°	269.6	269.6
177.5°	271.4	271.3
180°	272.9	272.9

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

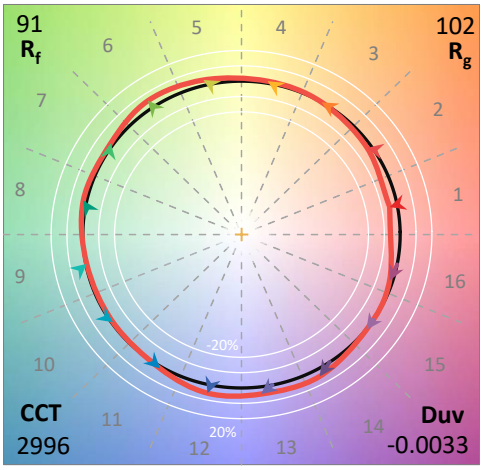
Test Information

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

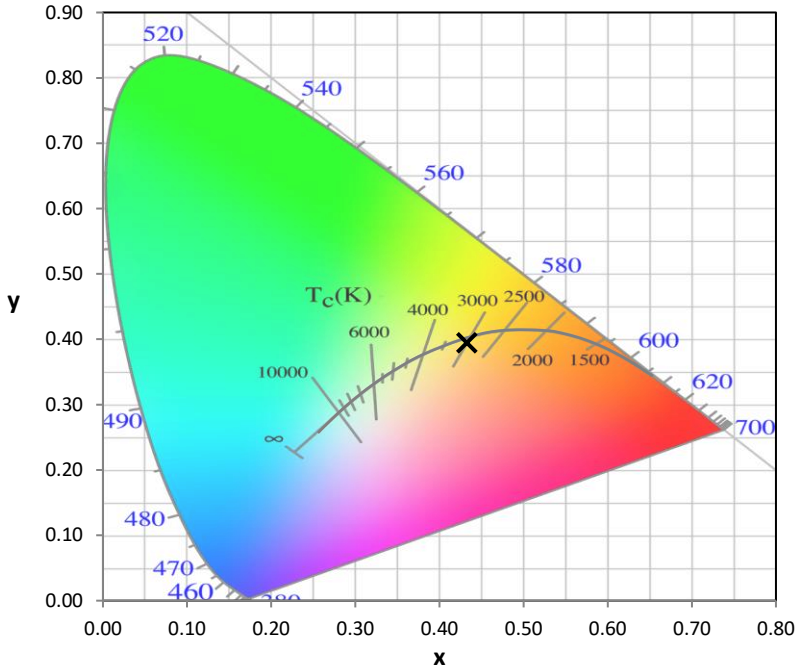
Stabilization Time:	40M
Operation Time:	1H 40M
Sphere Temperature (°C):	25.0

REPORT NUMBER: SP1-2506-472-5

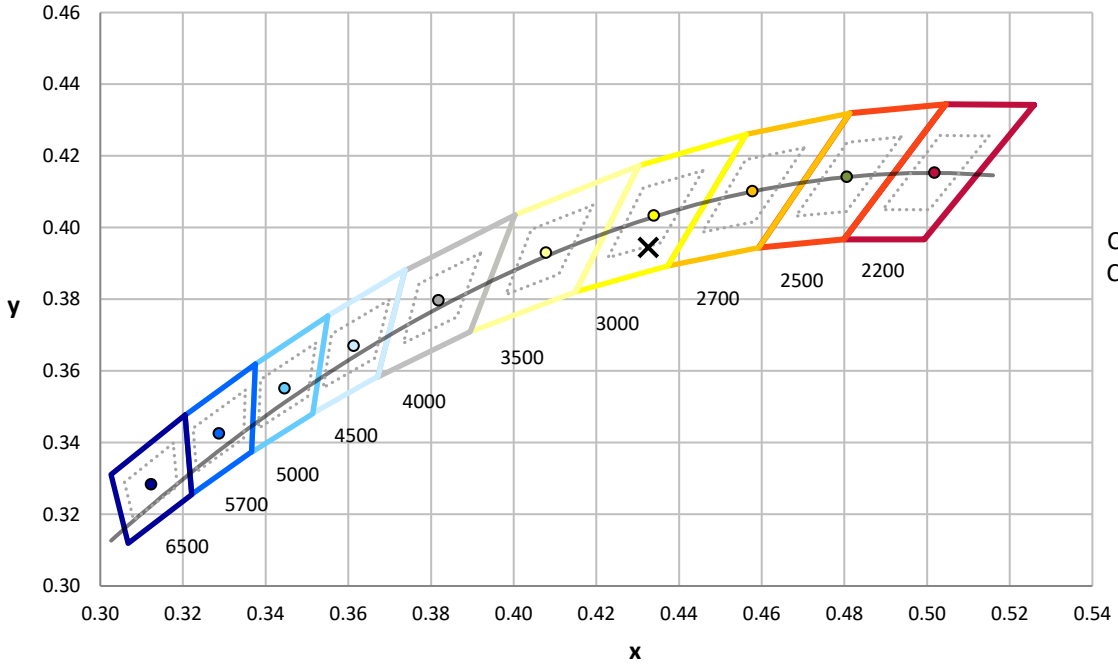
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	6/16/2025	12/16/2025
Power Meter	XITRON INXT2011004	1/21/2025	1/21/2026
AC Power Source	CHROMA 61603 IN0063	10/22/2024	10/22/2025
DC Power Source	AGILENT E3634A IN0208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

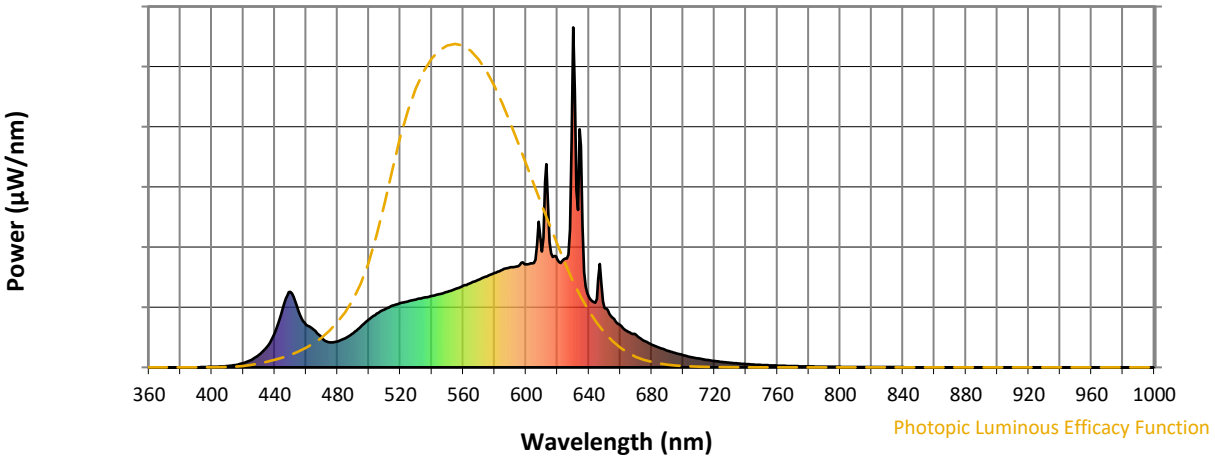


CCT = 2996K
CIE x = 0.4325
CIE y = 0.3945
Duv = -0.0033

Point lies inside the ANSI 3000K 7-step quadrangle

REPORT NUMBER: SP1-2506-472-5

Photopic Flux vs. Wavelength

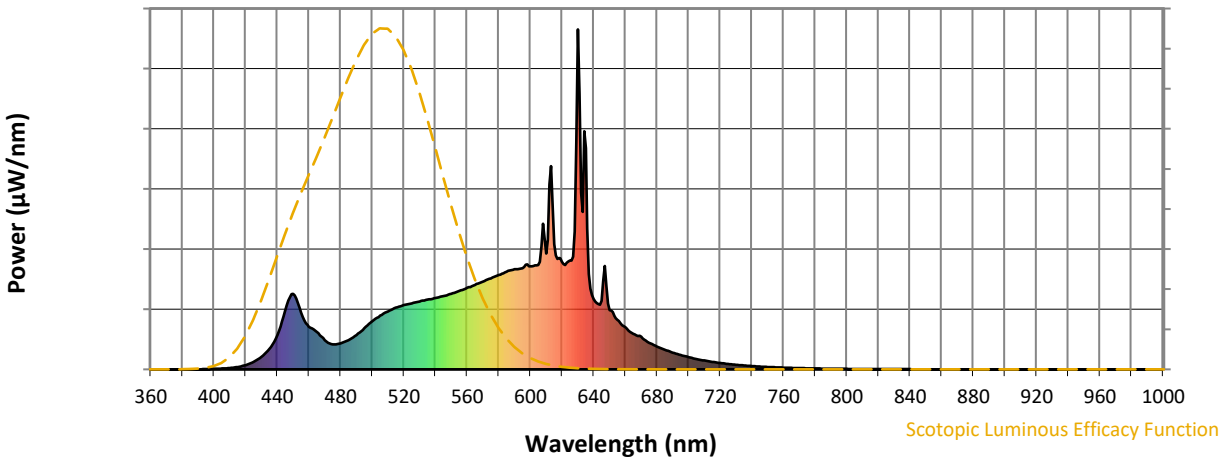


Photopic Lumens: NR

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

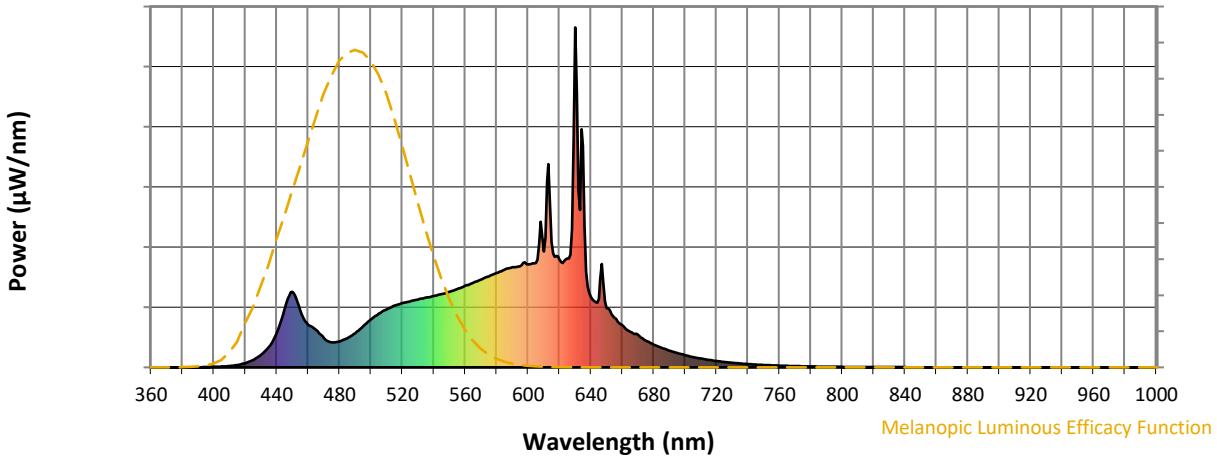


Scotopic Lumens: NR **S/P: 1.44**

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			

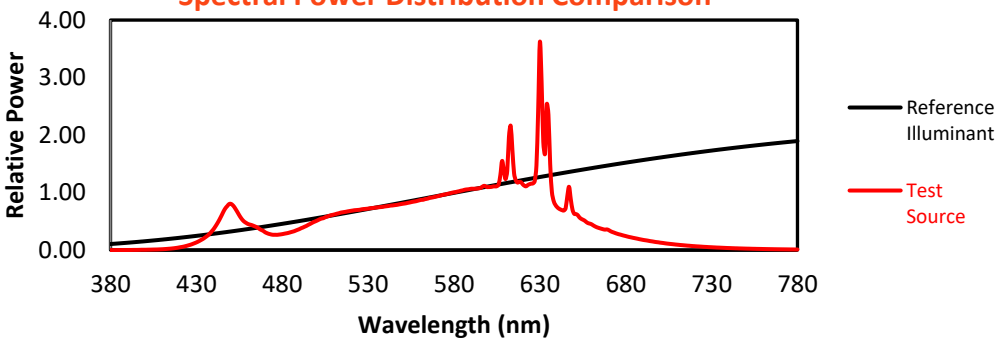
REPORT NUMBER: SP1-2506-472-5

TM-30-18

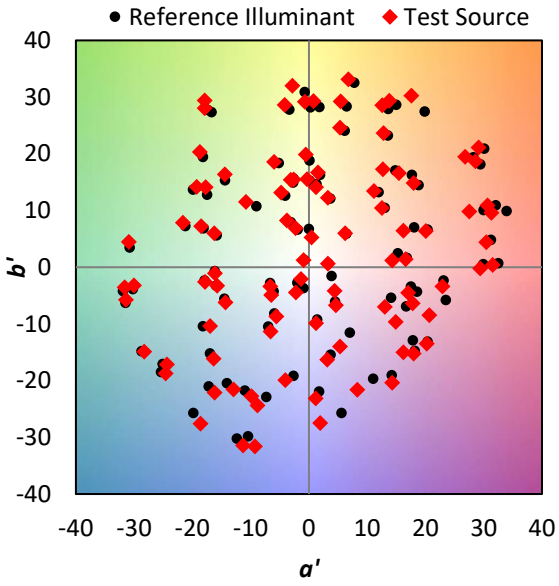
Summary

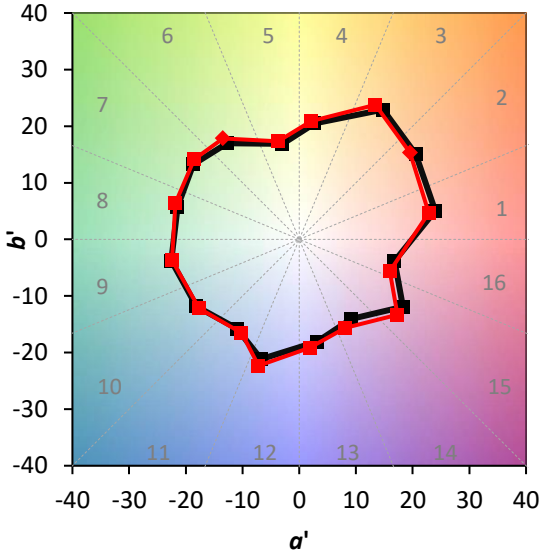
R_f = 91.3
R_g = 102
CIE R_a = 94.4
R_9 = 61.4

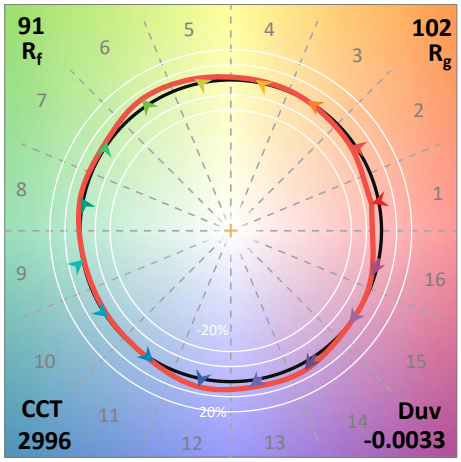
Spectral Power Distribution Comparison

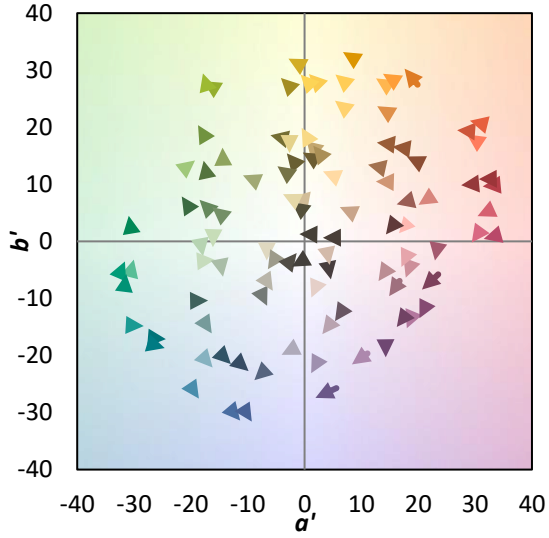


Color Vector Graphics







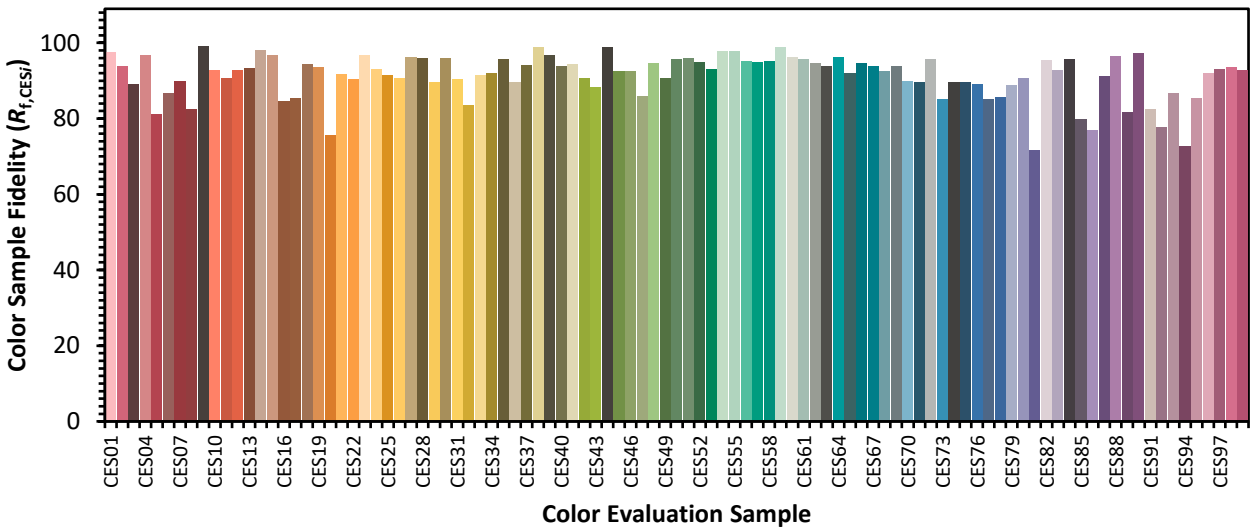


REPORT NUMBER: SP1-2506-472-5

TM-30-18

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

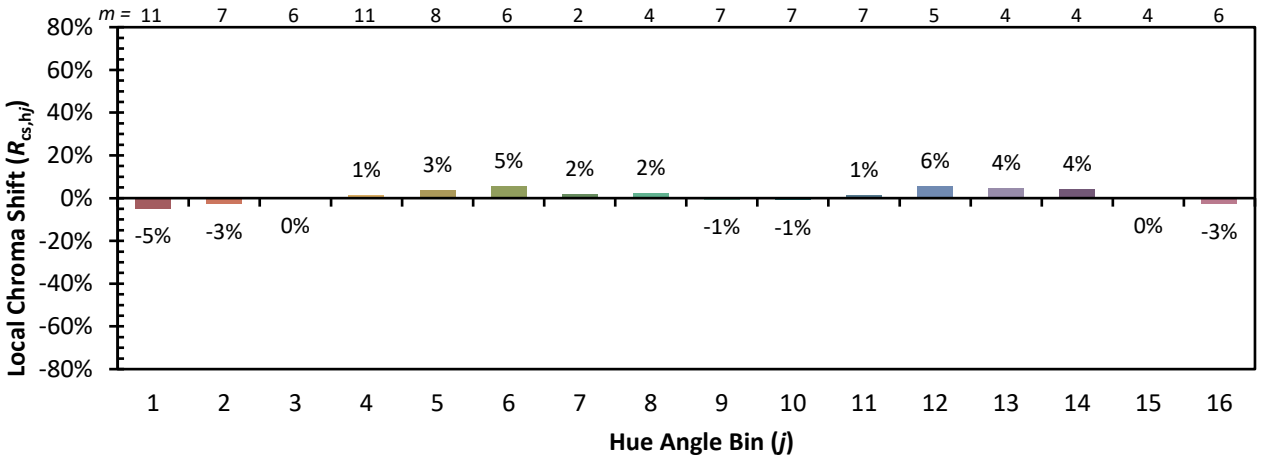
CES01 = 86	CES26 = 91	CES51 = 96	CES76 = 89
CES02 = 63	CES27 = 96	CES52 = 95	CES77 = 85
CES03 = 32	CES28 = 96	CES53 = 93	CES78 = 86
CES04 = 70	CES29 = 90	CES54 = 98	CES79 = 89
CES05 = 51	CES30 = 96	CES55 = 98	CES80 = 91
CES06 = 51	CES31 = 90	CES56 = 95	CES81 = 72
CES07 = 44	CES32 = 84	CES57 = 95	CES82 = 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
CES23 = 92	CES48 = 95	CES73 = 85	CES98 = 94
CES24 = 91	CES49 = 91	CES74 = 90	CES99 = 93
CES25 = 72	CES50 = 96	CES75 = 90	

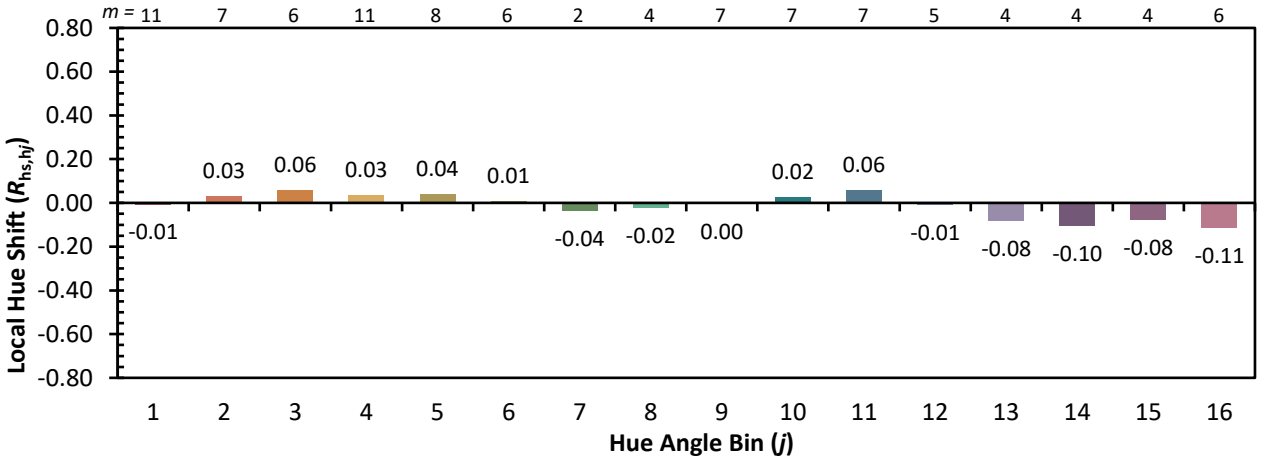


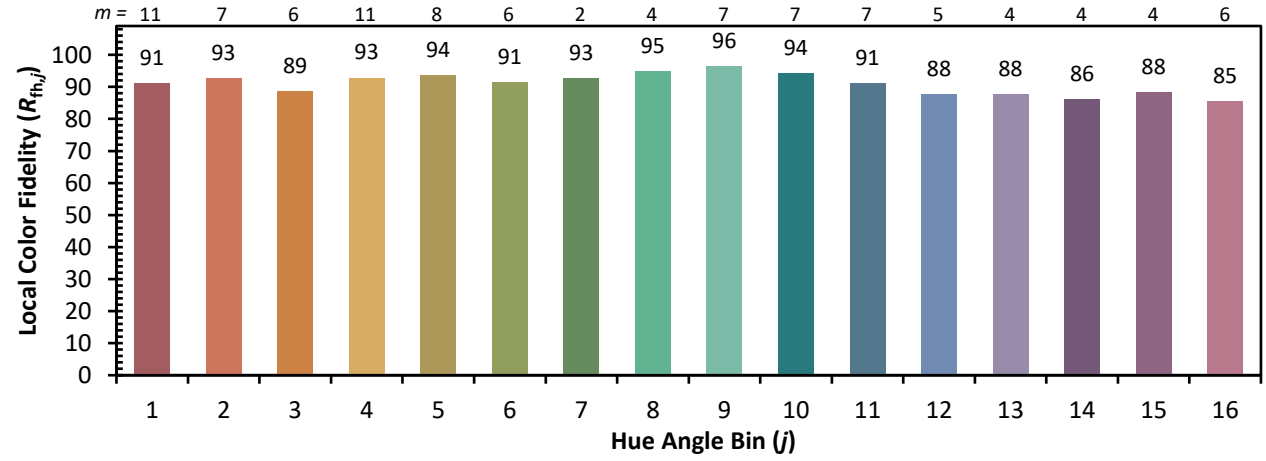
REPORT NUMBER: SP1-2506-472-5

TM-30-18

Color Rendition by Hue-Angle Bin



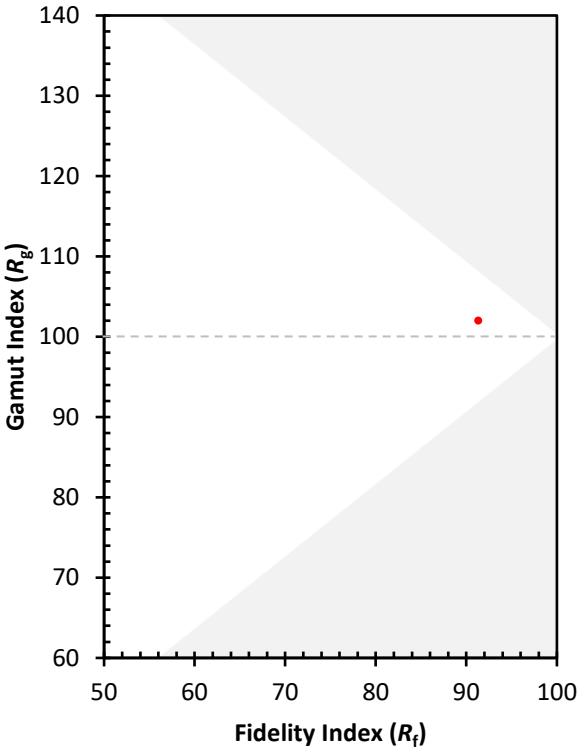


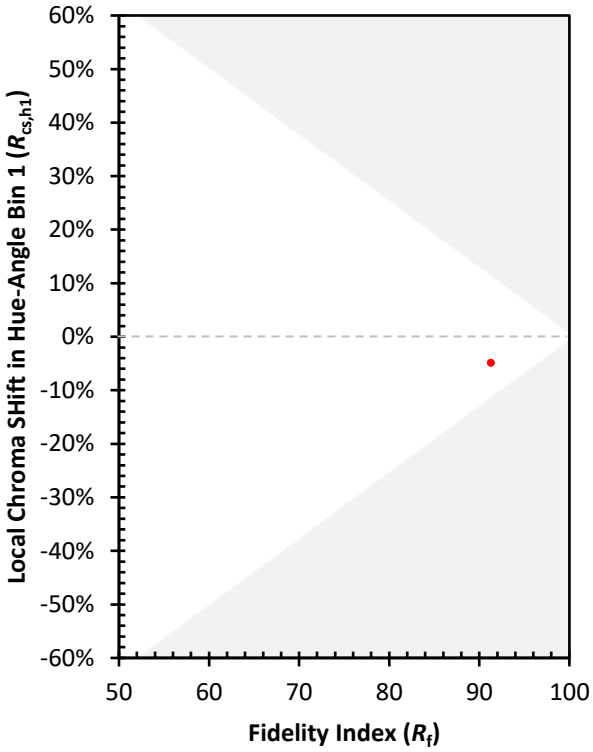


REPORT NUMBER: SP1-2506-472-5

TM-30-18

Measure Comparisons





(END OF REPORT)