

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: HALO COMMERCIAL

Report Number: P775799

Luminaire Tested: HCDJBL510CSD-HCD6TSQH-1000lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2310613A001)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TSQH-1000lm-5000K
Description: 6 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

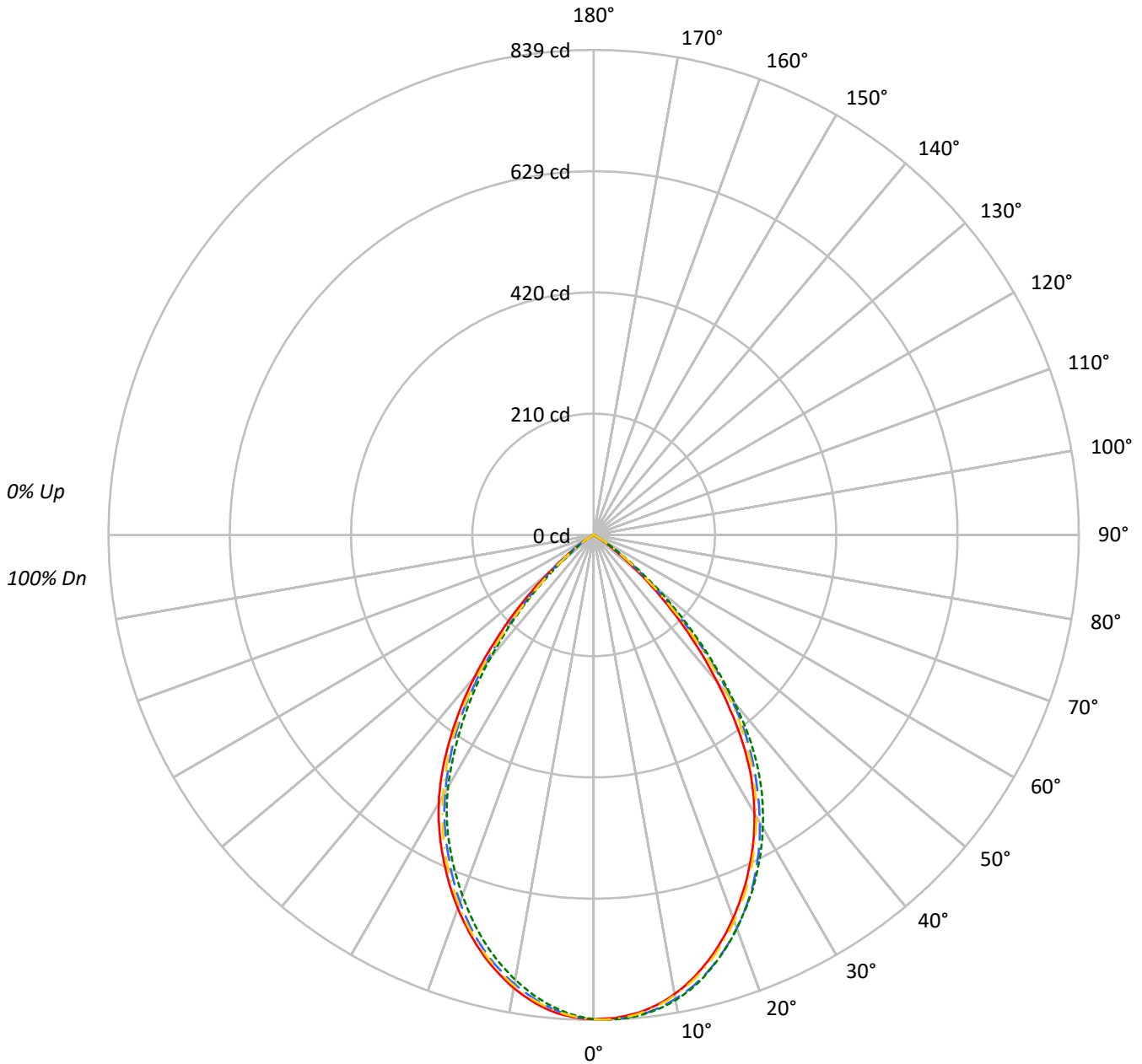
Lumens per Lamp: N/A
Luminaire Lumens: 1053.6 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
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										
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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92					92			
2	106	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84					84			
3	100	93	87	83	98	92	86	82	89	85	81	86	83	80	84	81	78	77					77			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70					70			
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64					64			
6	83	73	67	62	82	73	66	62	71	65	61	69	64	61	68	64	60	59					59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54					54			
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50					50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46					46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43					43			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	45928	45928	45928	45928
5°	45724	45999	45515	45053
10°	44895	45490	44299	43508
15°	43320	44200	42452	41385
20°	41152	42255	40084	38719
25°	38488	39934	37254	35718
30°	35202	37031	33910	31891
35°	30564	33207	29045	26415
40°	23823	27144	22900	19844
45°	16335	19707	15707	12753
50°	8998	11914	8605	6268
55°	3441	5228	3718	2667
60°	450	1338	899	351
65°	65	104	78	65
70°	16	32	32	32
75°	21	21	21	21
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 19707 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.2	7.4
10°-20°	212.0	20.1
20°-30°	286.8	27.2
30°-40°	275.4	26.1
40°-50°	160.4	15.2
50°-60°	39.5	3.7
60°-70°	1.3	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	577.0	54.8
0°-40°	852.4	80.9
0°-60°	1052.2	99.9
0°-90°	1053.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1053.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	838	838	838	838	838	
5°	831	836	827	819	831	79
15°	763	779	748	729	763	214
25°	636	660	616	590	636	292
35°	457	496	434	395	457	281
45°	211	254	203	164	211	163
55°	36	55	39	28	36	37
65°	0	1	1	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8	837.8
0.5°	837.6	837.7	838.3	838.9	838.0	838.4	838.6	838.2	837.4	837.0	837.1
1°	837.4	837.8	838.7	839.3	838.6	838.8	838.8	838.1	837.0	836.3	836.4
1.5°	837.1	837.8	838.8	839.6	838.9	839.0	838.7	837.8	836.7	835.6	835.4
2°	836.7	837.7	838.8	839.6	839.0	839.0	838.6	837.4	835.7	834.6	834.2
2.5°	836.7	837.3	838.5	839.4	838.9	838.8	838.1	836.7	835.0	833.4	832.7
3°	835.3	836.7	838.2	839.1	838.7	838.5	837.5	835.7	833.7	832.1	831.1
3.5°	834.4	836.1	837.7	838.7	838.2	837.8	836.7	834.7	832.4	830.5	829.5
4°	833.4	835.4	836.9	838.0	837.6	837.1	835.7	833.3	831.0	828.8	827.3
4.5°	832.2	834.4	836.0	837.2	836.8	836.2	834.4	831.9	829.3	826.7	825.2
5°	830.9	833.3	835.0	836.3	835.9	835.1	833.1	830.2	827.1	824.5	822.8
5.5°	829.7	831.9	833.9	835.1	834.9	833.9	831.4	828.3	824.8	822.1	820.1
6°	827.6	830.3	832.5	833.8	833.7	832.4	829.6	826.0	822.4	819.6	817.4
6.5°	825.7	828.8	831.0	832.4	832.2	830.8	827.8	823.5	819.8	816.8	814.2
7°	823.6	826.8	829.1	830.9	830.7	829.1	825.5	821.0	817.0	813.8	811.3
7.5°	821.2	824.7	827.2	828.9	828.8	827.2	823.2	818.1	813.8	810.5	807.8
8°	818.7	822.4	825.2	826.8	826.9	825.2	820.8	815.2	810.6	807.1	804.4
8.5°	816.0	819.9	822.9	824.6	824.8	822.8	818.0	812.0	807.2	803.6	800.7
9°	813.1	817.2	820.5	822.2	822.4	820.3	815.3	808.7	803.5	799.9	797.1
9.5°	809.8	814.4	817.7	819.7	819.9	817.7	812.0	805.2	799.9	796.0	793.0
10°	806.5	811.4	815.1	816.9	817.2	814.8	808.8	801.6	795.8	792.0	788.9
10.5°	803.0	808.1	812.0	814.0	814.2	811.8	805.4	797.6	791.8	787.9	784.7
11°	799.3	804.8	809.1	810.9	811.0	808.4	801.9	793.7	787.4	783.6	780.4
11.5°	795.4	801.2	805.6	807.5	807.6	805.0	798.2	789.5	782.8	779.2	775.9
12°	791.1	797.4	802.3	803.9	804.1	801.2	794.1	785.2	778.3	774.6	771.2
12.5°	786.9	793.5	798.5	800.3	800.3	797.4	790.0	780.8	773.7	769.8	766.5
13°	782.6	789.5	794.8	796.6	796.6	793.4	786.0	776.3	768.9	764.9	761.6
13.5°	777.9	785.1	790.7	792.4	792.2	789.0	781.4	771.6	763.7	760.0	756.6
14°	773.3	780.8	786.5	788.3	787.9	784.7	776.9	766.7	758.7	754.7	751.4
14.5°	768.3	776.1	782.1	783.9	783.2	779.9	772.2	761.5	753.5	749.2	746.0
15°	763.3	771.6	777.5	779.4	778.8	775.2	767.1	756.4	748.0	743.6	740.5
15.5°	758.1	766.6	772.8	775.0	773.8	770.4	762.0	751.1	742.4	738.2	734.8
16°	752.7	761.5	768.0	769.9	769.0	765.3	757.0	745.7	736.8	732.4	728.9
16.5°	747.2	756.3	762.8	764.9	763.8	760.0	751.5	740.1	731.0	726.4	722.8
17°	741.6	751.0	757.8	759.9	758.4	754.7	746.1	734.4	724.9	720.1	716.6
17.5°	735.7	745.6	752.5	754.7	753.1	749.1	740.4	728.3	718.9	713.9	710.1
18°	730.0	739.9	747.0	749.2	747.4	743.5	734.8	722.4	712.5	707.5	703.5
18.5°	724.0	734.1	741.3	743.7	741.7	737.9	728.9	716.2	706.3	700.9	697.0
19°	717.8	728.2	735.8	738.1	736.0	732.1	722.8	709.9	699.9	694.4	689.9
19.5°	711.6	722.2	729.9	732.3	730.2	726.0	716.6	703.5	693.7	687.4	682.9
20°	705.4	716.1	724.1	726.5	724.3	719.8	710.6	697.3	687.1	680.6	675.8
20.5°	698.8	709.7	718.0	720.1	717.9	713.7	704.2	690.7	680.4	673.6	668.7
21°	692.3	703.2	711.9	714.1	711.8	707.4	697.5	684.1	673.8	666.7	661.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	672.2	683.2	692.5	694.6	693.4	687.6	677.5	664.5	652.8	645.0	638.6
23°	665.3	676.2	685.7	687.9	686.9	680.7	670.9	657.4	645.4	637.5	630.9
23.5°	658.3	669.1	678.8	681.0	680.4	673.7	664.2	650.4	638.1	629.8	622.9
24°	651.1	662.0	671.6	673.9	673.9	666.7	657.1	643.2	630.7	622.2	615.0
24.5°	643.7	654.8	664.4	666.9	667.3	660.8	649.6	635.9	623.5	614.5	606.9
25°	636.3	647.4	657.1	659.6	660.2	653.6	642.1	628.7	615.9	606.7	599.1
25.5°	628.9	639.6	649.6	652.1	653.0	646.1	634.6	621.2	608.4	598.8	591.0
26°	621.4	632.2	641.9	644.8	645.9	638.9	626.9	613.8	600.9	591.0	583.0
26.5°	613.5	624.6	634.0	637.1	638.8	631.2	619.0	606.2	593.2	583.1	574.9
27°	605.8	616.5	626.2	629.4	631.5	623.7	611.3	598.7	585.3	575.2	566.8
27.5°	597.7	608.3	618.0	621.6	623.9	615.9	603.5	590.9	577.6	567.2	558.4
28°	589.8	600.1	609.6	613.5	616.3	608.2	595.6	583.0	569.6	558.6	549.8
28.5°	581.6	591.9	601.1	605.5	608.8	600.3	587.6	575.2	561.7	550.0	540.9
29°	573.2	583.4	592.5	597.2	601.0	592.4	579.4	567.1	553.3	541.5	532.0
29.5°	564.7	574.6	583.6	588.8	593.0	584.5	571.1	558.5	544.6	532.5	522.5
30°	556.1	565.7	574.7	580.3	585.0	576.4	562.7	550.0	535.7	523.6	513.2
30.5°	547.2	556.7	565.7	571.3	576.8	568.1	554.1	541.1	526.9	514.1	503.6
31°	538.2	547.5	556.1	562.7	568.8	559.7	545.3	532.2	517.4	504.6	493.9
31.5°	529.0	538.1	547.1	553.6	560.2	551.3	536.4	523.0	507.8	495.1	484.1
32°	519.3	528.4	537.4	544.3	551.6	542.6	527.5	513.6	497.8	485.3	474.0
32.5°	509.9	519.1	527.9	534.8	543.0	533.7	518.3	504.1	487.8	475.3	464.1
33°	500.0	509.3	518.4	525.6	534.2	524.7	509.0	494.1	477.5	464.9	454.1
33.5°	489.8	499.5	509.1	516.1	524.9	515.7	499.7	484.0	467.0	454.5	444.1
34°	479.0	489.4	499.3	506.6	515.8	506.3	490.1	473.8	456.3	444.2	433.9
34.5°	468.1	479.5	489.5	496.9	505.9	496.5	480.7	463.3	445.0	433.2	423.5
35°	456.7	469.1	479.5	486.8	496.2	486.7	470.9	452.6	434.0	422.2	413.1
35.5°	445.3	458.7	469.9	476.8	485.9	476.9	461.2	441.9	423.1	411.3	402.4
36°	433.1	448.3	459.5	466.8	475.6	466.9	451.2	431.2	412.1	400.1	391.4
36.5°	420.9	437.1	449.6	456.8	464.6	456.5	440.8	420.3	400.9	388.9	380.0
37°	408.3	425.9	439.2	446.2	453.4	445.8	430.2	409.4	389.3	377.5	368.1
37.5°	395.8	414.1	428.4	435.4	441.8	434.8	419.4	398.2	378.4	365.9	356.4
38°	382.9	402.1	417.2	423.7	429.9	423.2	408.2	387.1	366.9	354.1	344.1
38.5°	370.6	390.0	406.0	412.8	417.3	411.5	396.8	375.9	355.5	342.1	331.9
39°	357.7	377.6	394.2	400.9	404.9	399.5	385.0	364.6	343.9	330.1	319.7
39.5°	345.3	365.1	382.1	388.9	392.2	387.0	373.0	353.0	332.3	318.0	307.0
40°	332.9	351.8	369.6	376.5	379.3	373.9	360.7	341.0	320.0	305.5	294.4
40.5°	320.6	339.0	357.5	363.9	366.6	360.8	348.4	329.1	308.0	293.2	281.4
41°	308.1	326.9	345.1	350.9	354.0	347.4	335.1	317.1	295.7	281.0	268.6
41.5°	295.8	314.3	332.4	338.1	341.7	334.1	322.2	305.2	283.4	269.3	255.9
42°	283.4	301.6	319.3	330.5	329.3	320.8	309.1	292.6	271.0	257.1	243.4
42.5°	271.0	289.0	306.3	316.5	317.2	307.6	296.1	280.2	259.5	245.2	231.4
43°	258.5	276.4	293.3	302.3	305.0	294.6	283.3	267.6	247.6	233.5	219.8
43.5°	246.2	264.2	280.3	288.1	292.1	281.8	270.4	255.3	236.5	221.9	208.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	210.7	227.5	241.1	248.6	254.2	244.0	232.2	218.4	202.6	188.1	176.2
45.5°	199.5	215.3	228.3	236.4	241.7	231.3	219.7	207.0	191.5	177.4	166.1
46°	188.0	203.5	215.5	224.2	229.6	219.2	207.6	195.1	180.7	166.7	156.3
46.5°	176.6	191.7	202.8	212.1	218.0	207.2	195.4	183.6	169.7	156.9	146.8
47°	165.5	180.1	190.7	199.9	206.3	195.6	183.6	172.0	159.0	146.7	137.5
47.5°	154.6	168.6	179.0	188.0	194.7	184.2	172.2	161.0	148.7	137.4	128.8
48°	144.1	157.5	167.6	176.4	183.4	173.4	161.1	149.8	138.8	128.2	120.5
48.5°	134.0	146.7	156.3	165.1	172.2	163.1	150.4	139.3	129.1	119.6	112.6
49°	124.0	136.2	145.6	154.0	161.1	152.7	139.9	128.9	119.4	111.1	104.9
49.5°	114.5	125.9	135.2	143.2	150.0	142.7	130.3	119.1	110.0	103.0	97.4
50°	105.5	115.7	125.1	132.4	139.7	132.7	120.7	109.7	100.9	95.4	90.5
50.5°	96.6	105.8	115.1	122.1	129.5	123.2	111.7	100.8	92.4	88.7	84.2
51°	88.2	96.6	106.0	112.2	119.5	113.9	103.2	92.5	84.9	82.1	77.9
51.5°	80.0	87.9	97.0	102.8	110.3	105.1	95.0	85.4	77.6	75.4	71.6
52°	72.3	79.7	88.5	93.9	101.3	96.5	88.2	78.3	70.1	68.8	65.3
52.5°	64.9	71.8	80.2	85.2	92.6	89.2	81.4	71.2	62.8	62.2	59.4
53°	58.1	64.6	72.6	77.0	84.7	81.7	74.5	64.1	57.0	56.5	54.2
53.5°	51.7	58.0	65.2	69.4	76.9	74.4	67.6	58.1	51.8	51.3	49.0
54°	46.0	51.9	58.5	62.4	69.0	66.9	60.7	52.7	47.1	46.5	44.3
54.5°	40.8	46.1	51.9	55.8	61.3	59.6	55.1	47.7	42.9	41.8	39.6
55°	36.0	41.0	46.0	49.9	54.7	53.9	49.8	43.3	38.9	37.6	35.3
55.5°	31.4	35.9	40.4	44.3	48.8	48.0	44.7	38.9	35.1	33.3	31.0
56°	27.8	31.3	35.4	39.0	43.2	42.9	39.8	35.0	31.4	29.5	27.2
56.5°	24.1	27.6	31.1	34.1	38.2	37.9	35.3	31.2	27.9	25.8	23.5
57°	20.6	24.1	27.4	30.1	33.5	33.3	31.0	27.5	24.5	22.4	20.2
57.5°	17.0	20.4	23.5	26.3	29.0	28.9	27.0	24.1	21.4	19.3	17.1
58°	13.6	16.7	19.7	22.3	25.0	24.9	23.3	20.8	18.4	16.1	13.7
58.5°	10.3	13.1	16.0	18.5	21.3	21.2	19.9	17.7	15.2	13.7	11.7
59°	7.5	9.9	12.4	14.6	17.7	17.9	16.5	14.3	12.9	11.3	9.5
59.5°	5.5	7.3	9.1	10.9	15.0	15.4	14.0	12.1	10.6	8.8	7.5
60°	4.1	5.2	6.6	8.0	12.2	12.9	11.5	9.9	8.2	6.4	5.5
60.5°	3.0	3.9	4.8	5.7	9.5	10.5	8.9	7.7	5.9	4.0	3.4
61°	2.6	3.4	3.6	4.2	6.7	8.0	6.3	5.5	3.7	3.1	2.7
61.5°	2.1	2.8	3.0	3.1	3.9	5.5	3.9	3.3	2.8	2.5	2.1
62°	1.7	2.3	2.5	2.7	2.9	3.0	2.9	2.5	2.1	1.9	1.7
62.5°	1.2	1.7	1.9	2.2	2.3	2.3	2.2	2.0	1.7	1.6	1.4
63°	1.0	1.3	1.5	1.7	1.8	1.8	1.7	1.6	1.4	1.3	1.2
63.5°	0.8	1.0	1.2	1.3	1.5	1.5	1.4	1.3	1.1	1.1	1.0
64°	0.6	0.8	1.0	1.1	1.2	1.2	1.2	1.1	0.9	0.9	0.8
64.5°	0.6	0.7	0.8	0.9	1.0	1.0	0.9	0.9	0.7	0.7	0.7
65°	0.5	0.6	0.7	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.6
65.5°	0.5	0.6	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.6
66°	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5	0.5	0.5



TEST NUMBER: P775799
 CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
68°	0.2	0.3	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3
68.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
69°	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
70.5°	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
71.5°	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
75.5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
76.5°	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.1
77°	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775799
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775799

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	837.8	837.8	837.8	837.8	837.8	837.8
0.5°	837.5	836.5	837.0	837.5	837.8	837.6
1°	836.6	835.4	836.0	836.7	837.2	837.4
1.5°	835.4	834.1	834.9	835.7	836.7	837.1
2°	833.9	832.5	833.4	834.6	835.7	836.7
2.5°	832.3	830.8	831.7	833.3	834.8	836.7
3°	830.5	828.8	829.9	831.7	833.9	835.3
3.5°	828.5	826.6	827.8	830.1	832.6	834.4
4°	826.4	824.3	825.6	828.3	831.3	833.4
4.5°	824.0	821.6	823.2	826.3	829.7	832.2
5°	821.3	818.7	820.6	824.0	827.9	830.9
5.5°	818.5	815.9	817.7	821.6	825.9	829.7
6°	815.4	812.8	814.9	819.1	823.9	827.6
6.5°	812.2	809.3	811.7	816.3	821.6	825.7
7°	808.9	806.0	808.4	813.3	819.2	823.6
7.5°	805.3	802.2	804.9	810.4	816.5	821.2
8°	801.8	798.3	801.3	807.1	813.7	818.7
8.5°	797.9	794.2	797.4	803.6	810.5	816.0
9°	794.0	790.2	793.4	800.0	807.3	813.1
9.5°	789.7	785.9	789.4	796.2	803.8	809.8
10°	785.5	781.6	785.1	792.3	800.2	806.5
10.5°	781.0	776.8	780.7	788.2	796.4	803.0
11°	776.4	772.0	776.1	783.8	792.5	799.3
11.5°	771.7	767.2	771.4	779.3	788.4	795.4
12°	766.8	762.1	766.5	774.7	783.9	791.1
12.5°	761.8	757.0	761.5	769.8	779.4	786.9
13°	756.6	751.7	756.3	764.9	775.0	782.6
13.5°	751.3	746.3	750.9	759.8	770.1	777.9
14°	745.7	740.8	745.4	754.7	765.2	773.3
14.5°	740.0	735.1	739.8	749.4	760.1	768.3
15°	734.1	729.2	734.0	743.9	755.1	763.3
15.5°	728.4	723.1	728.0	738.2	749.5	758.1
16°	722.2	717.1	722.1	732.6	744.1	752.7
16.5°	716.1	710.7	715.8	726.9	738.6	747.2
17°	709.7	704.4	709.6	721.0	732.9	741.6
17.5°	703.4	697.8	703.1	714.6	726.7	735.7
18°	697.0	691.1	696.7	708.4	720.7	730.0
18.5°	690.3	684.3	690.2	702.0	714.5	724.0
19°	683.7	677.7	683.3	695.3	708.1	717.8
19.5°	677.0	670.8	676.7	688.8	701.7	711.6
20°	670.3	663.7	670.0	681.9	695.1	705.4
20.5°	663.7	656.7	663.1	675.0	688.2	698.8
21°	656.5	649.6	656.1	668.0	681.3	692.3

TEST NUMBER: P775799

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	634.6	628.1	634.6	645.9	659.7	672.2
23°	627.0	620.7	627.0	638.3	652.3	665.3
23.5°	619.6	613.3	619.9	630.8	644.8	658.3
24°	611.9	605.8	612.2	623.1	637.0	651.1
24.5°	604.2	598.3	604.7	615.2	629.5	643.7
25°	596.5	590.5	596.9	607.3	621.8	636.3
25.5°	588.6	582.8	589.2	599.4	613.9	628.9
26°	580.8	575.0	581.0	591.0	606.1	621.4
26.5°	572.8	566.9	572.8	583.0	598.1	613.5
27°	564.5	558.6	564.4	574.3	590.0	605.8
27.5°	556.1	550.4	555.8	565.8	581.8	597.7
28°	547.4	541.3	546.7	557.1	573.3	589.8
28.5°	538.4	532.3	538.1	548.2	564.8	581.6
29°	529.4	523.0	528.8	539.3	556.1	573.2
29.5°	520.2	513.6	519.3	530.1	547.3	564.7
30°	510.7	503.8	509.7	520.9	538.5	556.1
30.5°	501.0	493.3	500.0	511.4	529.2	547.2
31°	491.0	482.9	489.7	502.0	520.0	538.2
31.5°	480.9	472.2	479.4	492.6	510.6	529.0
32°	470.8	461.3	468.6	482.5	501.1	519.3
32.5°	460.1	450.5	458.0	472.9	491.5	509.9
33°	449.3	439.2	447.1	463.0	481.4	500.0
33.5°	438.3	428.1	436.1	452.9	471.4	489.8
34°	427.1	416.9	425.3	442.6	461.0	479.0
34.5°	415.8	405.7	414.2	431.6	450.6	468.1
35°	404.6	394.7	402.9	420.7	439.6	456.7
35.5°	393.3	383.6	392.1	409.5	428.7	445.3
36°	381.7	372.7	381.0	398.1	416.9	433.1
36.5°	370.2	361.6	369.9	386.5	404.8	420.9
37°	358.6	350.3	358.6	373.6	392.4	408.3
37.5°	346.8	338.7	347.2	361.6	380.3	395.8
38°	335.0	327.3	335.3	348.8	367.1	382.9
38.5°	322.7	314.8	323.0	336.5	354.1	370.6
39°	310.9	302.4	310.7	329.4	340.6	357.7
39.5°	298.8	289.8	298.4	315.1	325.3	345.3
40°	286.6	277.3	286.0	300.7	312.6	332.9
40.5°	274.4	265.3	273.7	286.4	300.0	320.6
41°	262.4	253.7	260.9	272.1	287.4	308.1
41.5°	250.9	242.2	248.5	259.4	274.7	295.8
42°	238.8	231.1	236.3	246.6	262.0	283.4
42.5°	227.2	219.8	224.7	234.0	249.5	271.0
43°	215.7	208.7	213.1	221.6	236.7	258.5
43.5°	204.0	197.5	201.3	209.3	224.4	246.2



TEST NUMBER: P775799

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	171.6	164.5	167.2	174.0	189.6	210.7
45.5°	161.2	154.3	156.0	163.0	178.9	199.5
46°	151.1	144.2	145.3	152.4	168.2	188.0
46.5°	141.8	134.0	134.9	142.2	158.1	176.6
47°	132.0	124.3	125.0	132.3	147.8	165.5
47.5°	123.1	114.9	115.5	122.9	138.3	154.6
48°	114.6	105.8	106.3	113.9	128.5	144.1
48.5°	106.3	96.9	97.8	105.4	119.3	134.0
49°	98.5	88.7	89.6	97.3	110.1	124.0
49.5°	91.1	80.8	81.9	89.5	101.6	114.5
50°	84.5	73.5	74.9	82.3	93.0	105.5
50.5°	78.0	66.8	68.2	75.3	85.1	96.6
51°	71.3	60.9	62.3	68.9	77.7	88.2
51.5°	64.8	55.5	56.7	62.6	70.6	80.0
52°	59.2	50.6	51.6	57.0	64.0	72.3
52.5°	53.8	46.2	46.8	51.7	57.8	64.9
53°	48.7	42.0	42.6	46.6	51.8	58.1
53.5°	44.1	38.1	38.5	41.7	46.3	51.7
54°	39.7	34.4	34.6	37.3	41.2	46.0
54.5°	35.4	31.1	31.3	33.1	36.5	40.8
55°	31.6	27.9	28.0	29.6	31.9	36.0
55.5°	27.7	24.7	24.8	26.1	28.3	31.4
56°	24.2	21.5	21.5	22.6	24.7	27.8
56.5°	21.0	18.3	18.2	19.2	21.1	24.1
57°	18.0	15.0	14.9	15.7	17.5	20.6
57.5°	14.7	11.7	11.7	12.3	14.1	17.0
58°	12.5	8.9	8.8	9.4	10.8	13.6
58.5°	10.3	6.7	6.5	6.9	8.1	10.3
59°	8.1	5.0	4.9	5.1	6.0	7.5
59.5°	5.9	3.8	3.7	3.9	4.4	5.5
60°	3.7	3.2	3.1	3.3	3.3	4.1
60.5°	2.8	2.6	2.6	2.8	2.8	3.0
61°	2.3	2.0	1.9	2.3	2.3	2.6
61.5°	1.8	1.5	1.4	1.7	1.8	2.1
62°	1.5	1.2	1.2	1.2	1.4	1.7
62.5°	1.2	1.0	0.9	1.0	1.1	1.2
63°	1.0	0.8	0.8	0.8	0.9	1.0
63.5°	0.8	0.7	0.6	0.6	0.7	0.8
64°	0.7	0.6	0.6	0.6	0.6	0.6
64.5°	0.6	0.6	0.5	0.5	0.6	0.6
65°	0.6	0.5	0.4	0.5	0.5	0.5
65.5°	0.5	0.4	0.4	0.4	0.4	0.5
66°	0.4	0.4	0.3	0.3	0.4	0.4



TEST NUMBER: P775799

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.3	0.3	0.2	0.2	0.3	0.3
68°	0.3	0.2	0.2	0.2	0.2	0.2
68.5°	0.2	0.2	0.2	0.2	0.2	0.2
69°	0.2	0.2	0.2	0.2	0.2	0.2
69.5°	0.2	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.2	0.1	0.1	0.1	0.1
70.5°	0.2	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	0.1
71.5°	0.1	0.1	0.1	0.1	0.1	0.1
72°	0.1	0.1	0.1	0.1	0.1	0.1
72.5°	0.1	0.1	0.1	0.1	0.1	0.1
73°	0.1	0.1	0.1	0.1	0.1	0.1
73.5°	0.1	0.1	0.1	0.1	0.1	0.1
74°	0.1	0.1	0.1	0.1	0.1	0.1
74.5°	0.1	0.1	0.1	0.1	0.1	0.1
75°	0.1	0.1	0.1	0.0	0.0	0.1
75.5°	0.1	0.0	0.0	0.0	0.0	0.0
76°	0.1	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	0.0
77°	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0
78°	0.0	0.0	0.0	0.0	0.0	0.0
78.5°	0.0	0.0	0.0	0.0	0.0	0.0
79°	0.0	0.0	0.0	0.0	0.0	0.0
79.5°	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0
80.5°	0.0	0.0	0.0	0.0	0.0	0.0
81°	0.0	0.0	0.0	0.0	0.0	0.0
81.5°	0.0	0.0	0.0	0.0	0.0	0.0
82°	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0
83°	0.0	0.0	0.0	0.0	0.0	0.0
83.5°	0.0	0.0	0.0	0.0	0.0	0.0
84°	0.0	0.0	0.0	0.0	0.0	0.0
84.5°	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0
85.5°	0.0	0.0	0.0	0.0	0.0	0.0
86°	0.0	0.0	0.0	0.0	0.0	0.0
86.5°	0.0	0.0	0.0	0.0	0.0	0.0
87°	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775799

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	685.6	696.6	705.6	707.7	705.7	700.9	690.9	677.6	667.2	659.8	654.0
22°	679.0	690.0	699.0	701.2	699.5	694.6	684.2	671.0	659.9	652.5	646.5



44°	234.0	251.9	267.3	273.8	279.3	269.2	257.4	242.6	224.8	210.3	197.4
44.5°	222.2	239.7	254.2	261.2	266.6	256.6	245.0	230.5	214.0	199.3	186.9



66.5°	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
67°	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.4	0.4	0.4



89°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	649.2	642.5	649.0	660.6	674.1	685.6
22°	641.9	635.3	641.8	653.4	667.0	679.0



44°	193.0	186.2	189.7	197.3	212.7	234.0
44.5°	182.4	175.2	178.5	185.6	201.1	222.2

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66.5°	0.4	0.3	0.3	0.3	0.3	0.3
67°	0.3	0.3	0.3	0.3	0.3	0.3

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89°	0.0	0.0	0.0	0.0	0.0	0.0
89.5°	0.0	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



(END OF REPORT)