

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: P775795

Luminaire Tested: HCDJBL5510CSD-HCD6TSQH-1000lm-2700K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775795
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-2700K
Description: 6 INCH SQUARE MEDIUM HAZE TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT
Ballast/Driver: -

Summary

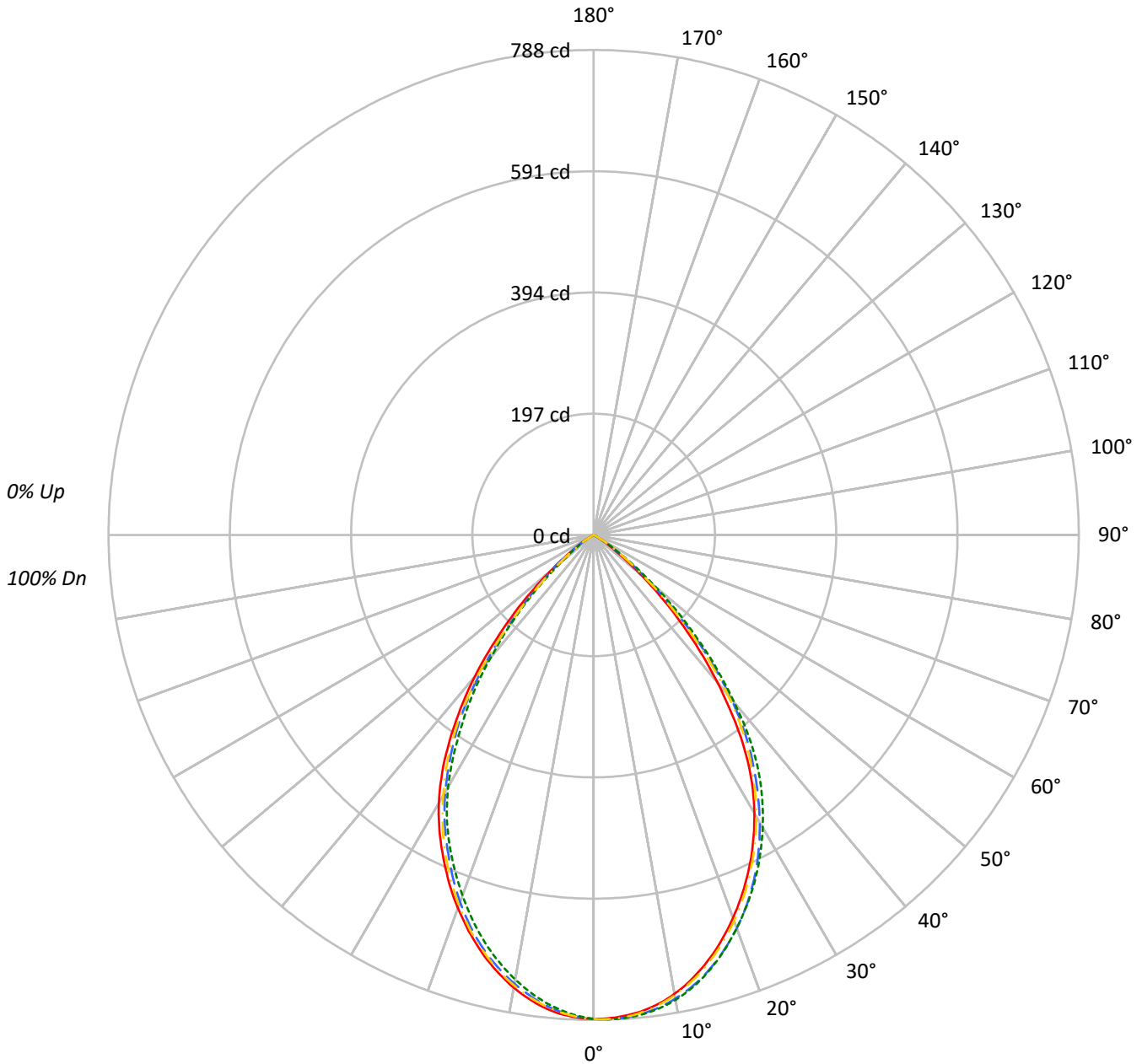
Lumens per Lamp: N/A
Luminaire Lumens: 989.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.06
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: P775795
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P775795

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

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°	43111	43111	43111	43111
5°	42918	43182	42725	42296
10°	42145	42701	41582	40842
15°	40664	41493	39847	38848
20°	38626	39664	37628	36345
25°	36129	37484	34974	33528
30°	33043	34759	31828	29935
35°	28690	31173	27264	24795
40°	22363	25483	21497	18628
45°	15335	18498	14746	11978
50°	8443	11181	8076	5885
55°	3230	4913	3489	2504
60°	428	1261	844	329
65°	52	104	78	52
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: 18498 cd/sqm



TEST NUMBER: P775795

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	7.4
10°-20°	199.0	20.1
20°-30°	269.2	27.2
30°-40°	258.5	26.1
40°-50°	150.5	15.2
50°-60°	37.1	3.7
60°-70°	1.2	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°	541.7	54.8
0°-40°	800.2	80.9
0°-60°	987.7	99.9
0°-90°	989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	786	786	786	786	786	
5°	780	785	776	769	780	74
15°	716	731	702	684	716	201
25°	597	620	578	554	597	274
35°	429	466	407	370	429	264
45°	198	239	190	154	198	153
55°	34	51	36	26	34	35
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	



TEST NUMBER: P775795

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4
0.5°	786.2	786.3	786.9	787.4	786.7	787.0	787.2	786.8	786.1	785.7	785.8
1°	786.1	786.4	787.3	787.9	787.2	787.4	787.4	786.8	785.7	785.0	785.1
1.5°	785.8	786.4	787.4	788.1	787.4	787.6	787.3	786.5	785.4	784.3	784.2
2°	785.4	786.3	787.4	788.1	787.6	787.6	787.2	786.1	784.5	783.5	783.1
2.5°	785.4	786.0	787.1	788.0	787.4	787.4	786.8	785.5	783.8	782.4	781.7
3°	784.1	785.5	786.8	787.7	787.3	787.1	786.2	784.5	782.6	781.1	780.1
3.5°	783.3	784.9	786.3	787.3	786.8	786.4	785.4	783.6	781.4	779.6	778.7
4°	782.4	784.2	785.6	786.7	786.2	785.8	784.5	782.3	780.0	778.1	776.6
4.5°	781.2	783.3	784.8	785.9	785.6	784.9	783.3	780.9	778.5	776.1	774.6
5°	779.9	782.2	783.8	785.0	784.7	783.9	782.0	779.3	776.4	774.0	772.4
5.5°	778.8	780.9	782.8	783.9	783.7	782.8	780.5	777.5	774.3	771.8	769.9
6°	776.8	779.4	781.5	782.7	782.6	781.4	778.7	775.4	772.0	769.3	767.3
6.5°	775.1	778.0	780.0	781.4	781.2	779.9	777.1	773.1	769.5	766.8	764.3
7°	773.1	776.2	778.3	779.9	779.8	778.3	774.9	770.7	766.9	763.9	761.6
7.5°	770.9	774.2	776.5	778.1	778.1	776.5	772.8	768.0	763.9	760.8	758.3
8°	768.5	772.0	774.6	776.2	776.2	774.6	770.5	765.2	760.9	757.6	755.1
8.5°	766.0	769.7	772.5	774.1	774.3	772.4	767.9	762.3	757.7	754.3	751.6
9°	763.2	767.1	770.2	771.8	772.0	770.0	765.3	759.2	754.3	750.9	748.2
9.5°	760.2	764.5	767.6	769.4	769.7	767.6	762.3	755.8	750.9	747.2	744.4
10°	757.1	761.7	765.1	766.8	767.1	764.9	759.3	752.5	747.0	743.5	740.6
10.5°	753.7	758.6	762.3	764.1	764.3	762.0	756.1	748.7	743.2	739.6	736.6
11°	750.3	755.5	759.5	761.2	761.3	758.8	752.7	745.0	739.2	735.6	732.5
11.5°	746.7	752.1	756.2	758.0	758.1	755.6	749.3	741.2	734.9	731.4	728.3
12°	742.6	748.6	753.1	754.6	754.8	752.1	745.5	737.1	730.6	727.1	723.9
12.5°	738.7	744.9	749.5	751.2	751.2	748.5	741.6	733.0	726.3	722.6	719.5
13°	734.6	741.2	746.1	747.8	747.8	744.8	737.8	728.8	721.8	718.1	715.0
13.5°	730.2	737.0	742.3	743.8	743.7	740.6	733.5	724.3	716.9	713.4	710.2
14°	725.9	733.0	738.3	740.0	739.6	736.6	729.3	719.7	712.2	708.5	705.3
14.5°	721.3	728.6	734.2	735.9	735.2	732.1	724.9	714.9	707.3	703.3	700.3
15°	716.5	724.3	729.9	731.7	731.1	727.7	720.1	710.0	702.1	698.1	695.1
15.5°	711.6	719.6	725.5	727.5	726.4	723.1	715.3	705.0	696.9	693.0	689.8
16°	706.6	714.8	720.9	722.7	721.9	718.4	710.6	700.0	691.6	687.6	684.2
16.5°	701.4	710.0	716.1	718.1	717.0	713.4	705.5	694.7	686.2	681.9	678.5
17°	696.2	705.0	711.3	713.3	711.9	708.4	700.4	689.4	680.5	676.0	672.7
17.5°	690.7	699.9	706.3	708.5	706.9	703.2	695.0	683.7	674.9	670.1	666.6
18°	685.2	694.5	701.3	703.3	701.6	698.0	689.8	678.2	668.8	664.1	660.4
18.5°	679.6	689.1	695.9	698.2	696.3	692.6	684.2	672.3	663.0	657.9	654.3
19°	673.8	683.6	690.7	692.9	690.9	687.2	678.5	666.4	657.0	651.9	647.6
19.5°	668.0	677.9	685.1	687.5	685.5	681.5	672.7	660.4	651.2	645.3	641.0
20°	662.1	672.2	679.7	681.9	679.9	675.7	667.0	654.5	645.0	638.9	634.4
20.5°	656.0	666.2	674.0	676.0	673.9	670.0	661.0	648.3	638.7	632.3	627.7
21°	649.9	660.1	668.2	670.3	668.2	664.0	654.8	642.2	632.5	625.8	621.1



TEST NUMBER: P775795

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	631.0	641.4	650.1	652.0	650.9	645.5	636.0	623.8	612.8	605.5	599.5
23°	624.5	634.8	643.7	645.7	644.8	638.9	629.8	617.1	605.8	598.4	592.2
23.5°	618.0	628.1	637.2	639.3	638.7	632.4	623.5	610.5	599.0	591.2	584.7
24°	611.2	621.4	630.4	632.6	632.6	625.8	616.8	603.8	592.1	584.0	577.3
24.5°	604.3	614.6	623.7	626.0	626.4	620.3	609.8	597.0	585.3	576.8	569.7
25°	597.3	607.7	616.8	619.2	619.7	613.5	602.7	590.2	578.2	569.6	562.4
25.5°	590.3	600.4	609.8	612.1	613.0	606.5	595.7	583.1	571.1	562.1	554.8
26°	583.3	593.4	602.6	605.2	606.4	599.7	588.5	576.2	564.0	554.8	547.3
26.5°	575.9	586.3	595.2	598.1	599.6	592.5	581.1	569.0	556.9	547.4	539.6
27°	568.7	578.7	587.8	590.8	592.8	585.5	573.9	562.0	549.4	540.0	532.1
27.5°	561.1	571.0	580.2	583.5	585.7	578.2	566.5	554.7	542.2	532.4	524.2
28°	553.6	563.3	572.2	575.9	578.5	570.9	559.1	547.3	534.7	524.4	516.1
28.5°	545.9	555.6	564.3	568.3	571.5	563.5	551.6	540.0	527.2	516.3	507.8
29°	538.1	547.7	556.2	560.6	564.2	556.1	543.9	532.3	519.4	508.3	499.4
29.5°	530.1	539.4	547.8	552.7	556.6	548.7	536.1	524.3	511.2	499.9	490.5
30°	522.0	531.0	539.5	544.7	549.1	541.1	528.2	516.3	502.8	491.5	481.7
30.5°	513.7	522.6	531.0	536.3	541.5	533.3	520.2	507.9	494.6	482.6	472.8
31°	505.3	514.0	522.1	528.2	534.0	525.4	511.9	499.6	485.7	473.7	463.6
31.5°	496.6	505.2	513.5	519.6	525.9	517.5	503.5	490.9	476.6	464.7	454.4
32°	487.5	496.0	504.5	510.9	517.8	509.4	495.2	482.2	467.3	455.5	444.9
32.5°	478.6	487.3	495.5	502.1	509.7	501.0	486.6	473.2	457.9	446.1	435.6
33°	469.3	478.1	486.6	493.4	501.5	492.6	477.8	463.8	448.3	436.4	426.3
33.5°	459.7	468.9	477.9	484.5	492.8	484.1	469.1	454.3	438.4	426.6	416.9
34°	449.7	459.4	468.7	475.5	484.2	475.3	460.1	444.7	428.4	417.0	407.3
34.5°	439.4	450.1	459.5	466.5	474.9	466.0	451.2	434.9	417.8	406.7	397.5
35°	428.7	440.4	450.1	457.0	465.8	456.9	442.1	424.8	407.4	396.3	387.8
35.5°	418.0	430.6	441.1	447.6	456.1	447.7	432.9	414.8	397.2	386.1	377.8
36°	406.6	420.8	431.3	438.2	446.5	438.3	423.5	404.8	386.8	375.6	367.4
36.5°	395.1	410.4	422.1	428.8	436.1	428.5	413.8	394.5	376.3	365.0	356.7
37°	383.3	399.8	412.3	418.9	425.6	418.5	403.8	384.3	365.5	354.3	345.5
37.5°	371.6	388.7	402.2	408.7	414.8	408.1	393.7	373.8	355.2	343.5	334.6
38°	359.4	377.4	391.7	397.8	403.5	397.3	383.2	363.4	344.4	332.4	323.0
38.5°	347.9	366.1	381.1	387.5	391.7	386.3	372.5	352.9	333.7	321.2	311.6
39°	335.8	354.4	370.0	376.3	380.1	375.0	361.4	342.3	322.8	309.9	300.1
39.5°	324.2	342.7	358.7	365.1	368.1	363.3	350.1	331.3	311.9	298.5	288.2
40°	312.5	330.3	346.9	353.5	356.1	351.0	338.6	320.1	300.4	286.8	276.3
40.5°	301.0	318.2	335.5	341.6	344.2	338.6	327.0	308.9	289.1	275.2	264.2
41°	289.3	306.8	323.9	329.4	332.3	326.1	314.6	297.6	277.5	263.7	252.1
41.5°	277.7	295.0	312.0	317.4	320.8	313.7	302.4	286.5	266.0	252.8	240.2
42°	266.1	283.1	299.8	310.2	309.1	301.2	290.1	274.7	254.4	241.3	228.5
42.5°	254.4	271.3	287.5	297.1	297.8	288.7	278.0	263.1	243.6	230.2	217.2
43°	242.6	259.4	275.3	283.7	286.3	276.5	265.9	251.2	232.5	219.2	206.3
43.5°	231.1	248.0	263.1	270.5	274.2	264.5	253.8	239.6	222.0	208.3	195.7



TEST NUMBER: P775795

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	197.8	213.6	226.3	233.4	238.6	229.0	218.0	205.1	190.2	176.6	165.4
45.5°	187.3	202.1	214.3	221.9	226.9	217.1	206.3	194.3	179.8	166.5	155.9
46°	176.4	191.0	202.3	210.5	215.6	205.7	194.9	183.2	169.6	156.5	146.7
46.5°	165.7	180.0	190.4	199.1	204.6	194.5	183.4	172.4	159.3	147.3	137.8
47°	155.3	169.0	179.0	187.6	193.7	183.6	172.4	161.4	149.3	137.7	129.1
47.5°	145.1	158.2	168.1	176.5	182.8	172.9	161.6	151.1	139.6	128.9	120.9
48°	135.2	147.8	157.3	165.6	172.1	162.8	151.2	140.7	130.3	120.3	113.1
48.5°	125.8	137.7	146.7	155.0	161.6	153.1	141.2	130.8	121.2	112.3	105.7
49°	116.4	127.8	136.7	144.5	151.2	143.3	131.4	121.0	112.0	104.3	98.5
49.5°	107.5	118.2	126.9	134.5	140.8	133.9	122.3	111.8	103.3	96.7	91.4
50°	99.0	108.6	117.4	124.3	131.1	124.5	113.3	103.0	94.7	89.6	85.0
50.5°	90.7	99.3	108.1	114.6	121.5	115.7	104.9	94.6	86.7	83.3	79.0
51°	82.8	90.7	99.5	105.3	112.2	107.0	96.9	86.8	79.7	77.1	73.1
51.5°	75.1	82.5	91.0	96.5	103.5	98.7	89.2	80.2	72.8	70.8	67.2
52°	67.8	74.8	83.1	88.2	95.1	90.6	82.8	73.5	65.9	64.6	61.3
52.5°	60.9	67.4	75.3	80.0	86.9	83.7	76.4	66.8	59.0	58.4	55.8
53°	54.6	60.7	68.2	72.3	79.6	76.7	69.9	60.2	53.5	53.0	50.9
53.5°	48.5	54.5	61.2	65.2	72.2	69.8	63.4	54.6	48.6	48.2	46.0
54°	43.2	48.7	54.9	58.6	64.8	62.8	57.0	49.5	44.2	43.6	41.6
54.5°	38.3	43.3	48.7	52.4	57.6	55.9	51.7	44.8	40.3	39.2	37.1
55°	33.8	38.4	43.2	46.8	51.4	50.6	46.7	40.7	36.5	35.3	33.1
55.5°	29.5	33.7	37.9	41.5	45.8	45.1	42.0	36.5	32.9	31.3	29.1
56°	26.1	29.4	33.3	36.6	40.6	40.3	37.4	32.8	29.5	27.7	25.5
56.5°	22.7	25.9	29.2	32.0	35.9	35.6	33.1	29.3	26.2	24.2	22.1
57°	19.3	22.6	25.7	28.3	31.5	31.3	29.1	25.9	23.0	21.0	19.0
57.5°	15.9	19.1	22.1	24.7	27.2	27.2	25.3	22.6	20.1	18.1	16.0
58°	12.8	15.7	18.5	20.9	23.4	23.4	21.9	19.6	17.2	15.1	12.8
58.5°	9.7	12.3	15.0	17.3	20.0	19.9	18.7	16.6	14.2	12.8	10.9
59°	7.1	9.3	11.6	13.7	16.6	16.8	15.5	13.4	12.1	10.6	9.0
59.5°	5.2	6.8	8.5	10.3	14.0	14.5	13.1	11.4	9.9	8.3	7.1
60°	3.9	4.9	6.2	7.5	11.5	12.2	10.8	9.3	7.7	6.0	5.2
60.5°	2.8	3.7	4.5	5.3	8.9	9.8	8.4	7.2	5.5	3.8	3.2
61°	2.4	3.2	3.4	4.0	6.3	7.5	5.9	5.2	3.4	2.9	2.5
61.5°	2.0	2.7	2.8	2.9	3.7	5.2	3.6	3.1	2.6	2.3	2.0
62°	1.6	2.2	2.3	2.5	2.8	2.8	2.8	2.3	2.0	1.8	1.6
62.5°	1.1	1.6	1.8	2.1	2.2	2.2	2.1	1.9	1.6	1.5	1.3
63°	0.9	1.2	1.4	1.6	1.7	1.7	1.6	1.5	1.3	1.2	1.1
63.5°	0.8	0.9	1.1	1.2	1.4	1.4	1.3	1.2	1.0	1.0	0.9
64°	0.6	0.8	0.9	1.0	1.1	1.1	1.1	1.0	0.9	0.9	0.8
64.5°	0.5	0.7	0.8	0.9	0.9	0.9	0.9	0.9	0.7	0.7	0.7
65°	0.4	0.6	0.7	0.7	0.8	0.8	0.8	0.7	0.6	0.6	0.6
65.5°	0.4	0.5	0.5	0.6	0.7	0.6	0.6	0.6	0.5	0.5	0.5
66°	0.3	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4



TEST NUMBER: P775795

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
68°	0.2	0.3	0.3	0.3	0.3	0.3	0.3	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: P775795
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

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: P775795

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	786.4	786.4	786.4	786.4	786.4	786.4
0.5°	786.2	785.2	785.7	786.2	786.4	786.2
1°	785.3	784.2	784.8	785.5	785.9	786.1
1.5°	784.2	783.0	783.7	784.5	785.5	785.8
2°	782.8	781.5	782.4	783.5	784.5	785.4
2.5°	781.3	779.9	780.7	782.3	783.7	785.4
3°	779.6	778.0	779.1	780.7	782.8	784.1
3.5°	777.7	775.9	777.1	779.3	781.6	783.3
4°	775.7	773.7	775.0	777.5	780.4	782.4
4.5°	773.5	771.2	772.8	775.6	778.8	781.2
5°	771.0	768.6	770.3	773.5	777.2	779.9
5.5°	768.3	765.9	767.6	771.2	775.3	778.8
6°	765.5	763.0	765.0	768.9	773.4	776.8
6.5°	762.5	759.7	761.9	766.2	771.2	775.1
7°	759.3	756.6	758.8	763.5	769.0	773.1
7.5°	756.0	753.1	755.6	760.7	766.5	770.9
8°	752.6	749.4	752.2	757.6	763.8	768.5
8.5°	749.0	745.6	748.6	754.3	760.8	766.0
9°	745.4	741.8	744.8	751.0	757.8	763.2
9.5°	741.3	737.7	741.0	747.4	754.5	760.2
10°	737.4	733.7	736.9	743.7	751.2	757.1
10.5°	733.1	729.2	732.9	739.9	747.6	753.7
11°	728.8	724.7	728.6	735.7	743.9	750.3
11.5°	724.4	720.2	724.1	731.5	740.0	746.7
12°	719.8	715.4	719.5	727.2	735.9	742.6
12.5°	715.1	710.7	714.9	722.6	731.7	738.7
13°	710.2	705.7	710.0	718.1	727.5	734.6
13.5°	705.2	700.6	704.9	713.2	722.9	730.2
14°	700.0	695.4	699.7	708.5	718.3	725.9
14.5°	694.6	690.1	694.4	703.5	713.5	721.3
15°	689.1	684.5	689.0	698.3	708.8	716.5
15.5°	683.8	678.8	683.4	693.0	703.6	711.6
16°	678.0	673.2	677.8	687.7	698.5	706.6
16.5°	672.2	667.1	672.0	682.4	693.3	701.4
17°	666.2	661.3	666.1	676.8	688.0	696.2
17.5°	660.3	655.1	660.1	670.8	682.2	690.7
18°	654.3	648.8	654.0	665.0	676.5	685.2
18.5°	648.0	642.4	647.9	658.9	670.7	679.6
19°	641.8	636.2	641.4	652.7	664.7	673.8
19.5°	635.5	629.7	635.2	646.6	658.7	668.0
20°	629.2	623.0	628.9	640.1	652.5	662.1
20.5°	623.0	616.4	622.5	633.6	646.0	656.0
21°	616.3	609.8	615.9	627.0	639.5	649.9



TEST NUMBER: P775795

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	595.7	589.6	595.7	606.3	619.3	631.0
23°	588.6	582.7	588.6	599.2	612.3	624.5
23.5°	581.6	575.8	581.9	592.1	605.2	618.0
24°	574.4	568.7	574.6	584.9	598.0	611.2
24.5°	567.1	561.6	567.7	577.5	590.9	604.3
25°	559.9	554.3	560.3	570.1	583.7	597.3
25.5°	552.5	547.1	553.1	562.7	576.3	590.3
26°	545.2	539.7	545.4	554.8	569.0	583.3
26.5°	537.7	532.1	537.7	547.3	561.5	575.9
27°	529.9	524.4	529.8	539.1	553.9	568.7
27.5°	522.0	516.6	521.7	531.1	546.1	561.1
28°	513.9	508.1	513.2	522.9	538.2	553.6
28.5°	505.4	499.7	505.1	514.7	530.2	545.9
29°	497.0	490.9	496.4	506.3	522.1	538.1
29.5°	488.4	482.2	487.5	497.6	513.8	530.1
30°	479.4	472.9	478.5	489.0	505.5	522.0
30.5°	470.3	463.1	469.3	480.1	496.8	513.7
31°	461.0	453.3	459.7	471.2	488.1	505.3
31.5°	451.5	443.3	450.0	462.4	479.3	496.6
32°	441.9	433.0	439.9	452.9	470.4	487.5
32.5°	431.9	422.9	429.9	443.9	461.4	478.6
33°	421.7	412.3	419.7	434.6	451.9	469.3
33.5°	411.4	401.8	409.4	425.2	442.5	459.7
34°	401.0	391.4	399.2	415.4	432.8	449.7
34.5°	390.3	380.9	388.8	405.2	423.0	439.4
35°	379.8	370.5	378.2	394.9	412.7	428.7
35.5°	369.2	360.1	368.0	384.4	402.4	418.0
36°	358.3	349.9	357.7	373.7	391.3	406.6
36.5°	347.5	339.4	347.3	362.8	380.0	395.1
37°	336.6	328.8	336.7	350.7	368.4	383.3
37.5°	325.5	318.0	325.9	339.4	357.0	371.6
38°	314.4	307.3	314.8	327.4	344.6	359.4
38.5°	303.0	295.6	303.2	315.9	332.4	347.9
39°	291.8	283.8	291.7	309.3	319.7	335.8
39.5°	280.5	272.0	280.1	295.8	305.4	324.2
40°	269.0	260.3	268.5	282.3	293.5	312.5
40.5°	257.6	249.0	256.9	268.8	281.6	301.0
41°	246.3	238.1	244.9	255.4	269.8	289.3
41.5°	235.6	227.4	233.2	243.5	257.9	277.7
42°	224.2	216.9	221.9	231.5	245.9	266.1
42.5°	213.2	206.3	210.9	219.7	234.2	254.4
43°	202.5	195.9	200.1	208.0	222.2	242.6
43.5°	191.5	185.4	188.9	196.5	210.7	231.1



TEST NUMBER: P775795

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	161.1	154.5	157.0	163.3	178.0	197.8
45.5°	151.4	144.8	146.4	153.0	167.9	187.3
46°	141.9	135.3	136.4	143.1	157.9	176.4
46.5°	133.1	125.8	126.6	133.5	148.4	165.7
47°	123.9	116.7	117.3	124.2	138.8	155.3
47.5°	115.6	107.8	108.4	115.4	129.8	145.1
48°	107.6	99.3	99.8	107.0	120.7	135.2
48.5°	99.8	90.9	91.8	98.9	112.0	125.8
49°	92.5	83.3	84.1	91.4	103.3	116.4
49.5°	85.5	75.8	76.9	84.0	95.3	107.5
50°	79.3	69.0	70.3	77.2	87.3	99.0
50.5°	73.2	62.7	64.0	70.7	79.9	90.7
51°	67.0	57.1	58.4	64.6	72.9	82.8
51.5°	60.9	52.1	53.2	58.8	66.3	75.1
52°	55.6	47.5	48.4	53.5	60.1	67.8
52.5°	50.5	43.4	44.0	48.5	54.2	60.9
53°	45.7	39.4	40.0	43.7	48.6	54.6
53.5°	41.4	35.8	36.1	39.1	43.4	48.5
54°	37.2	32.3	32.5	35.0	38.7	43.2
54.5°	33.3	29.2	29.4	31.0	34.3	38.3
55°	29.6	26.2	26.3	27.8	29.9	33.8
55.5°	26.0	23.2	23.3	24.5	26.5	29.5
56°	22.8	20.2	20.2	21.2	23.2	26.1
56.5°	19.7	17.2	17.1	18.0	19.8	22.7
57°	16.9	14.0	14.0	14.7	16.5	19.3
57.5°	13.8	10.9	10.9	11.5	13.3	15.9
58°	11.7	8.4	8.3	8.8	10.2	12.8
58.5°	9.7	6.3	6.1	6.5	7.6	9.7
59°	7.6	4.7	4.6	4.8	5.6	7.1
59.5°	5.5	3.5	3.4	3.6	4.1	5.2
60°	3.4	3.0	2.9	3.1	3.1	3.9
60.5°	2.7	2.4	2.4	2.6	2.7	2.8
61°	2.2	1.9	1.8	2.2	2.2	2.4
61.5°	1.7	1.4	1.3	1.6	1.7	2.0
62°	1.4	1.1	1.1	1.1	1.3	1.6
62.5°	1.1	0.9	0.9	0.9	1.0	1.1
63°	0.9	0.8	0.8	0.8	0.9	0.9
63.5°	0.8	0.7	0.6	0.6	0.7	0.8
64°	0.7	0.6	0.5	0.5	0.6	0.6
64.5°	0.6	0.5	0.4	0.4	0.5	0.5
65°	0.5	0.4	0.3	0.4	0.4	0.4
65.5°	0.4	0.3	0.3	0.3	0.3	0.4
66°	0.3	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P775795

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

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: P775795
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-1000lm-2700K

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



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





21.5°	643.6	653.9	662.4	664.4	662.5	658.0	648.6	636.1	626.3	619.4	613.9
22°	637.4	647.7	656.2	658.2	656.6	652.0	642.3	629.9	619.5	612.5	606.9



44°	219.6	236.4	250.9	257.0	262.2	252.7	241.6	227.7	211.0	197.4	185.3
44.5°	208.6	225.0	238.6	245.2	250.3	240.9	230.0	216.3	200.9	187.1	175.5



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



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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



21.5°	609.4	603.2	609.2	620.1	632.8	643.6
22°	602.6	596.4	602.5	613.3	626.1	637.4



44°	181.2	174.8	178.1	185.2	199.6	219.6
44.5°	171.2	164.5	167.6	174.2	188.8	208.6

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)