

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: P775761

Luminaire Tested: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775761  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B057-HCD62TRMW)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL510CSD-HCD62TRMW-1000lm-3000K  
Description: 6 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

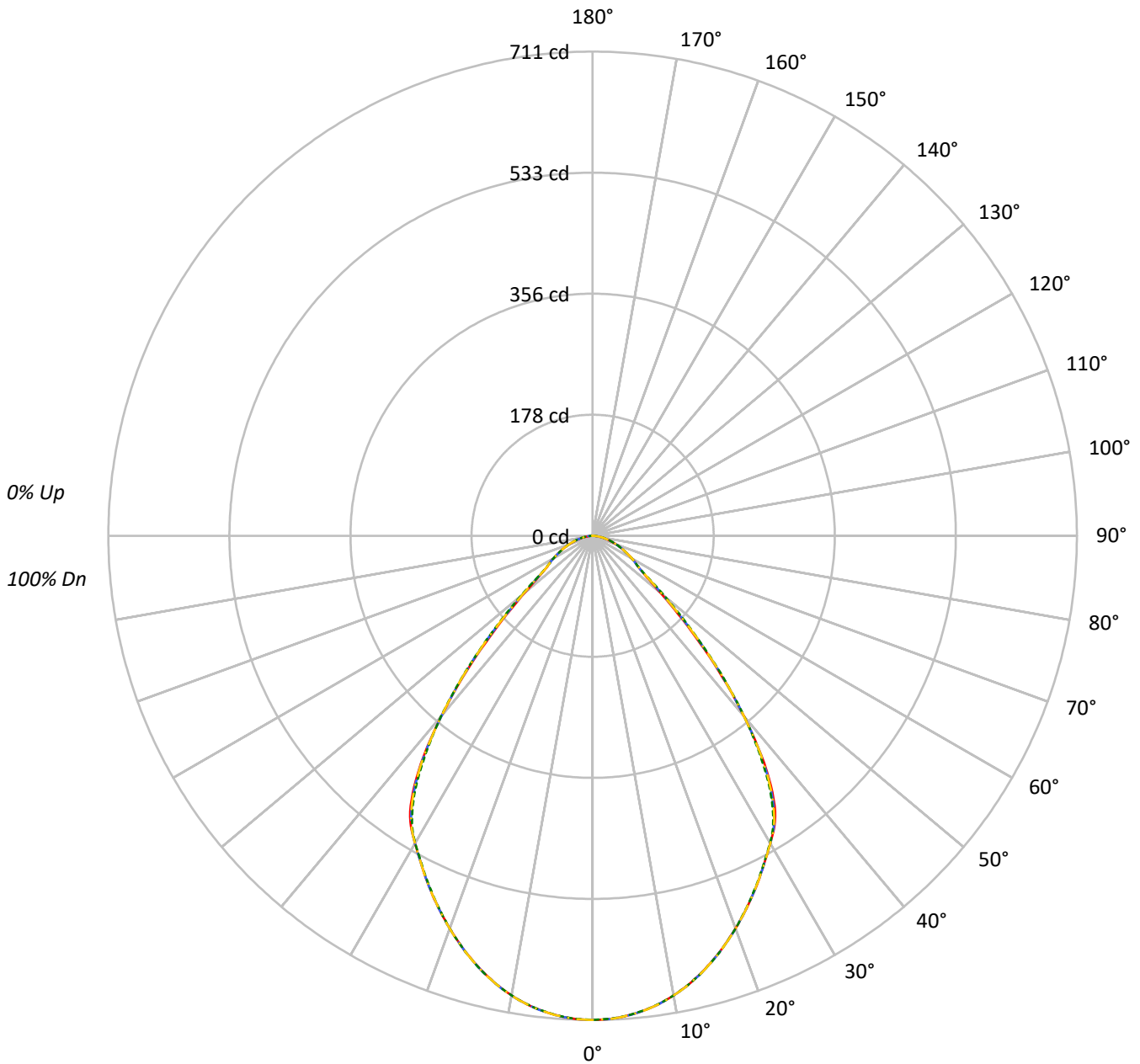
Lumens per Lamp: N/A  
Luminaire Lumens: 1131.8 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P775761  
CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89	89	89	89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79
3	97	89	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71	71	71	71
4	90	81	74	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63	63	63	63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57	57	57	57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52	52	52	52
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47	47	47	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43	43	43	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40	40	40	40
10	62	50	43	38	61	50	43	38	49	43	38	48	42	38	47	42	38	36	36	36	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	38977	38977	38977	38977
5°	38774	38757	38774	38757
10°	38153	38153	38153	38153
15°	37111	37128	37111	37128
20°	35796	35785	35796	35785
25°	34375	34321	34375	34321
30°	33024	32967	33024	32967
35°	30798	30343	30798	30343
40°	24718	24746	24718	24746
45°	17296	17816	17296	17816
50°	11061	11778	11061	11778
55°	8048	8172	8048	8172
60°	7302	7269	7302	7269
65°	6564	6538	6564	6538
70°	5818	5898	5818	5898
75°	5083	5338	5083	5338
80°	4199	4735	4199	4735
85°	2579	3900	2579	3900

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 17816 cd/sqm



TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	5.9
10°-20°	183.9	16.2
20°-30°	261.5	23.1
30°-40°	279.5	24.7
40°-50°	176.6	15.6
50°-60°	80.4	7.1
60°-70°	50.3	4.4
70°-80°	26.4	2.3
80°-90°	6.5	0.6
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°	512.0	45.2
0°-40°	791.6	69.9
0°-60°	1048.6	92.6
0°-90°	1131.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	711	711	711	711	711	
5°	705	704	705	704	705	67
15°	654	654	654	654	654	184
25°	568	567	568	567	568	262
35°	460	453	460	453	460	281
45°	223	230	223	230	223	174
55°	84	86	84	86	84	79
65°	51	50	51	50	51	50
75°	24	25	24	25	24	26
85°	4	6	4	6	4	5
90°	0	0	0	0	0	



TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0	711.0
0.5°	710.9	711.0	710.9	710.9	710.6	710.9	710.9	711.0	710.9	711.0	710.9
1°	710.7	710.8	710.8	710.7	710.4	710.7	710.8	710.8	710.7	710.8	710.8
1.5°	710.4	710.5	710.4	710.4	710.1	710.4	710.4	710.5	710.4	710.5	710.4
2°	710.0	710.0	710.0	710.0	709.6	710.0	710.0	710.0	710.0	710.0	710.0
2.5°	709.4	709.4	709.5	709.4	709.1	709.4	709.5	709.4	709.4	709.4	709.5
3°	708.6	708.7	708.7	708.7	708.3	708.7	708.7	708.7	708.6	708.7	708.7
3.5°	707.8	707.8	707.9	707.9	707.5	707.9	707.9	707.8	707.8	707.8	707.9
4°	706.9	706.9	706.9	706.9	706.6	706.9	706.9	706.9	706.9	706.9	706.9
4.5°	705.8	705.9	705.9	705.9	705.5	705.9	705.9	705.9	705.8	705.9	705.9
5°	704.6	704.7	704.7	704.7	704.3	704.7	704.7	704.7	704.6	704.7	704.7
5.5°	703.2	703.3	703.3	703.3	702.9	703.3	703.3	703.3	703.2	703.3	703.3
6°	701.8	701.8	701.8	701.8	701.5	701.8	701.8	701.8	701.8	701.8	701.8
6.5°	700.2	700.2	700.3	700.3	700.0	700.3	700.3	700.2	700.2	700.2	700.3
7°	698.4	698.5	698.5	698.5	698.2	698.5	698.5	698.5	698.4	698.5	698.5
7.5°	696.6	696.6	696.7	696.7	696.4	696.7	696.7	696.6	696.6	696.6	696.7
8°	694.6	694.7	694.8	694.8	694.5	694.8	694.8	694.7	694.6	694.7	694.8
8.5°	692.4	692.5	692.6	692.6	692.3	692.6	692.6	692.5	692.4	692.5	692.6
9°	690.2	690.3	690.4	690.5	690.2	690.5	690.4	690.3	690.2	690.3	690.4
9.5°	687.8	687.9	688.0	688.1	687.8	688.1	688.0	687.9	687.8	687.9	688.0
10°	685.4	685.4	685.5	685.7	685.4	685.7	685.5	685.4	685.4	685.4	685.5
10.5°	682.7	682.7	682.9	683.0	682.7	683.0	682.9	682.7	682.7	682.7	682.9
11°	680.0	680.0	680.2	680.4	680.0	680.4	680.2	680.0	680.0	680.0	680.2
11.5°	677.0	677.1	677.3	677.5	677.2	677.5	677.3	677.1	677.0	677.1	677.3
12°	674.1	674.2	674.4	674.6	674.3	674.6	674.4	674.2	674.1	674.2	674.4
12.5°	671.0	671.1	671.2	671.4	671.2	671.4	671.2	671.1	671.0	671.1	671.2
13°	667.7	667.8	668.0	668.2	668.0	668.2	668.0	667.8	667.7	667.8	668.0
13.5°	664.5	664.6	664.8	665.0	664.7	665.0	664.8	664.6	664.5	664.6	664.8
14°	661.0	661.2	661.4	661.5	661.3	661.5	661.4	661.2	661.0	661.2	661.4
14.5°	657.5	657.6	657.8	658.0	657.8	658.0	657.8	657.6	657.5	657.6	657.8
15°	653.9	654.1	654.3	654.5	654.2	654.5	654.3	654.1	653.9	654.1	654.3
15.5°	650.2	650.3	650.5	650.7	650.4	650.7	650.5	650.3	650.2	650.3	650.5
16°	646.3	646.5	646.7	646.9	646.6	646.9	646.7	646.5	646.3	646.5	646.7
16.5°	642.5	642.6	642.8	643.1	642.7	643.1	642.8	642.6	642.5	642.6	642.8
17°	638.6	638.7	638.9	639.1	638.8	639.1	638.9	638.7	638.6	638.7	638.9
17.5°	634.6	634.6	634.8	635.0	634.7	635.0	634.8	634.6	634.6	634.6	634.8
18°	630.4	630.6	630.7	630.8	630.5	630.8	630.7	630.6	630.4	630.6	630.7
18.5°	626.2	626.4	626.5	626.6	626.3	626.6	626.5	626.4	626.2	626.4	626.5
19°	622.0	622.2	622.3	622.3	622.1	622.3	622.3	622.2	622.0	622.2	622.3
19.5°	617.9	618.0	618.1	618.2	617.9	618.2	618.1	618.0	617.9	618.0	618.1
20°	613.6	613.7	613.8	613.8	613.4	613.8	613.8	613.7	613.6	613.7	613.8
20.5°	609.3	609.3	609.3	609.3	609.0	609.3	609.3	609.3	609.3	609.3	609.3
21°	604.7	604.8	604.9	604.8	604.5	604.8	604.9	604.8	604.7	604.8	604.9



TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	591.4	591.4	591.3	591.2	590.8	591.2	591.3	591.4	591.4	591.4	591.3
23°	586.8	586.8	586.7	586.6	586.2	586.6	586.7	586.8	586.8	586.8	586.7
23.5°	582.3	582.3	582.2	581.9	581.6	581.9	582.2	582.3	582.3	582.3	582.2
24°	577.7	577.7	577.6	577.3	576.8	577.3	577.6	577.7	577.7	577.7	577.6
24.5°	573.1	573.0	572.9	572.6	572.2	572.6	572.9	573.0	573.1	573.0	572.9
25°	568.3	568.3	568.2	567.9	567.4	567.9	568.2	568.3	568.3	568.3	568.2
25.5°	563.6	563.6	563.5	563.1	562.7	563.1	563.5	563.6	563.6	563.6	563.5
26°	558.9	558.9	558.8	558.5	558.0	558.5	558.8	558.9	558.9	558.9	558.8
26.5°	554.1	554.1	554.0	553.6	553.2	553.6	554.0	554.1	554.1	554.1	554.0
27°	549.3	549.4	549.3	548.9	548.4	548.9	549.3	549.4	549.3	549.4	549.3
27.5°	544.6	544.6	544.5	544.2	543.7	544.2	544.5	544.6	544.6	544.6	544.5
28°	539.7	539.9	539.8	539.5	539.1	539.5	539.8	539.9	539.7	539.9	539.8
28.5°	535.1	535.3	535.2	534.9	534.5	534.9	535.2	535.3	535.1	535.3	535.2
29°	530.5	530.7	530.6	530.4	529.9	530.4	530.6	530.7	530.5	530.7	530.6
29.5°	526.0	526.2	526.2	525.8	525.4	525.8	526.2	526.2	526.0	526.2	526.2
30°	521.7	521.7	521.7	521.3	520.8	521.3	521.7	521.7	521.7	521.7	521.7
30.5°	517.2	517.3	517.1	516.8	516.3	516.8	517.1	517.3	517.2	517.3	517.1
31°	512.8	512.8	512.6	512.1	511.5	512.1	512.6	512.8	512.8	512.8	512.6
31.5°	508.1	508.1	507.7	507.2	506.4	507.2	507.7	508.1	508.1	508.1	507.7
32°	503.3	503.0	502.3	501.4	500.2	501.4	502.3	503.0	503.3	503.0	502.3
32.5°	498.1	497.4	496.3	494.7	493.4	494.7	496.3	497.4	498.1	497.4	496.3
33°	492.2	491.4	489.4	487.7	486.3	487.7	489.4	491.4	492.2	491.4	489.4
33.5°	485.3	484.6	482.0	480.1	478.7	480.1	482.0	484.6	485.3	484.6	482.0
34°	477.6	477.3	474.1	472.1	470.9	472.1	474.1	477.3	477.6	477.3	474.1
34.5°	469.1	468.6	465.8	463.5	462.4	463.5	465.8	468.6	469.1	468.6	465.8
35°	460.2	459.3	456.9	454.4	453.4	454.4	456.9	459.3	460.2	459.3	456.9
35.5°	450.7	449.5	447.6	445.1	443.7	445.1	447.6	449.5	450.7	449.5	447.6
36°	440.6	439.1	437.9	435.4	433.7	435.4	437.9	439.1	440.6	439.1	437.9
36.5°	430.0	428.4	427.6	425.2	423.1	425.2	427.6	428.4	430.0	428.4	427.6
37°	418.8	417.4	416.8	414.6	412.5	414.6	416.8	417.4	418.8	417.4	416.8
37.5°	407.2	406.2	405.6	403.7	401.7	403.7	405.6	406.2	407.2	406.2	405.6
38°	395.2	394.6	394.0	392.7	391.0	392.7	394.0	394.6	395.2	394.6	394.0
38.5°	382.8	382.8	381.8	381.4	379.9	381.4	381.8	382.8	382.8	382.8	381.8
39°	370.6	370.8	369.8	369.7	369.1	369.7	369.8	370.8	370.6	370.8	369.8
39.5°	358.0	358.4	357.3	357.6	357.5	357.6	357.3	358.4	358.0	358.4	357.3
40°	345.4	346.0	345.1	345.6	345.8	345.6	345.1	346.0	345.4	346.0	345.1
40.5°	332.5	333.5	332.8	333.7	333.9	333.7	332.8	333.5	332.5	333.5	332.8
41°	320.0	321.0	320.8	321.5	322.2	321.5	320.8	321.0	320.0	321.0	320.8
41.5°	307.6	308.3	308.9	309.8	310.1	309.8	308.9	308.3	307.6	308.3	308.9
42°	295.1	295.7	296.9	297.8	298.6	297.8	296.9	295.7	295.1	295.7	296.9
42.5°	282.8	283.4	285.1	286.1	286.8	286.1	285.1	283.4	282.8	283.4	285.1
43°	270.4	271.2	273.5	274.4	275.1	274.4	273.5	271.2	270.4	271.2	273.5
43.5°	258.3	259.0	261.7	262.7	263.3	262.7	261.7	259.0	258.3	259.0	261.7



TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	223.1	224.3	227.4	229.1	229.8	229.1	227.4	224.3	223.1	224.3	227.4
45.5°	211.8	213.3	216.5	218.4	219.1	218.4	216.5	213.3	211.8	213.3	216.5
46°	201.0	202.7	205.7	208.0	208.9	208.0	205.7	202.7	201.0	202.7	205.7
46.5°	190.4	192.4	195.3	197.9	198.9	197.9	195.3	192.4	190.4	192.4	195.3
47°	180.2	182.4	185.2	188.0	189.1	188.0	185.2	182.4	180.2	182.4	185.2
47.5°	170.6	172.6	175.7	178.5	179.5	178.5	175.7	172.6	170.6	172.6	175.7
48°	161.4	163.4	166.5	169.4	170.6	169.4	166.5	163.4	161.4	163.4	166.5
48.5°	152.8	154.5	157.6	160.7	161.9	160.7	157.6	154.5	152.8	154.5	157.6
49°	144.5	146.2	149.1	152.4	153.5	152.4	149.1	146.2	144.5	146.2	149.1
49.5°	136.8	138.2	141.3	144.3	145.7	144.3	141.3	138.2	136.8	138.2	141.3
50°	129.7	130.7	133.8	136.9	138.1	136.9	133.8	130.7	129.7	130.7	133.8
50.5°	123.0	123.7	126.9	129.8	131.0	129.8	126.9	123.7	123.0	123.7	126.9
51°	116.9	117.5	120.4	122.9	124.3	122.9	120.4	117.5	116.9	117.5	120.4
51.5°	111.2	111.7	114.3	116.7	118.0	116.7	114.3	111.7	111.2	111.7	114.3
52°	106.0	106.5	108.9	110.9	112.0	110.9	108.9	106.5	106.0	106.5	108.9
52.5°	101.2	101.6	103.7	105.4	106.4	105.4	103.7	101.6	101.2	101.6	103.7
53°	96.8	97.5	99.0	100.4	101.2	100.4	99.0	97.5	96.8	97.5	99.0
53.5°	93.3	93.7	94.8	95.9	96.5	95.9	94.8	93.7	93.3	93.7	94.8
54°	90.1	90.2	90.9	91.7	92.2	91.7	90.9	90.2	90.1	90.2	90.9
54.5°	87.1	87.1	87.4	88.0	88.6	88.0	87.4	87.1	87.1	87.1	87.4
55°	84.2	84.3	84.7	85.1	85.5	85.1	84.7	84.3	84.2	84.3	84.7
55.5°	81.4	81.8	82.2	82.5	83.2	82.5	82.2	81.8	81.4	81.8	82.2
56°	79.5	79.7	80.0	80.2	81.0	80.2	80.0	79.7	79.5	79.7	80.0
56.5°	77.8	77.8	77.8	78.0	78.7	78.0	77.8	77.8	77.8	77.8	77.8
57°	76.3	76.3	76.1	76.0	76.5	76.0	76.1	76.3	76.3	76.3	76.1
57.5°	74.9	74.8	74.6	74.4	74.3	74.4	74.6	74.8	74.9	74.8	74.6
58°	73.3	73.2	73.0	72.8	72.6	72.8	73.0	73.2	73.3	73.2	73.0
58.5°	71.7	71.6	71.4	71.2	71.1	71.2	71.4	71.6	71.7	71.6	71.4
59°	70.1	70.0	69.9	69.7	69.5	69.7	69.9	70.0	70.1	70.0	69.9
59.5°	68.3	68.3	68.1	68.0	67.9	68.0	68.1	68.3	68.3	68.3	68.1
60°	66.6	66.6	66.5	66.4	66.3	66.4	66.5	66.6	66.6	66.6	66.5
60.5°	64.9	64.9	64.8	64.7	64.6	64.7	64.8	64.9	64.9	64.9	64.8
61°	63.2	63.2	63.1	63.0	62.9	63.0	63.1	63.2	63.2	63.2	63.1
61.5°	61.6	61.6	61.5	61.4	61.3	61.4	61.5	61.6	61.6	61.6	61.5
62°	60.0	60.0	59.9	59.8	59.7	59.8	59.9	60.0	60.0	60.0	59.9
62.5°	58.3	58.3	58.2	58.1	58.0	58.1	58.2	58.3	58.3	58.3	58.2
63°	56.8	56.7	56.7	56.5	56.5	56.5	56.7	56.7	56.8	56.7	56.7
63.5°	55.2	55.2	55.1	55.0	55.0	55.0	55.1	55.2	55.2	55.2	55.1
64°	53.7	53.7	53.6	53.5	53.3	53.5	53.6	53.7	53.7	53.7	53.6
64.5°	52.1	52.1	52.0	51.9	51.9	51.9	52.0	52.1	52.1	52.1	52.0
65°	50.6	50.7	50.6	50.5	50.4	50.5	50.6	50.7	50.6	50.7	50.6
65.5°	49.1	49.2	49.2	49.1	49.0	49.1	49.2	49.2	49.1	49.2	49.2
66°	47.6	47.7	47.6	47.5	47.5	47.5	47.6	47.7	47.6	47.7	47.6





TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	43.3	43.5	43.5	43.4	43.4	43.4	43.5	43.5	43.3	43.5	43.5
68°	41.8	42.0	42.1	42.0	42.0	42.0	42.1	42.0	41.8	42.0	42.1
68.5°	40.5	40.7	40.8	40.7	40.7	40.7	40.8	40.7	40.5	40.7	40.8
69°	39.1	39.4	39.5	39.5	39.4	39.5	39.5	39.4	39.1	39.4	39.5
69.5°	37.6	38.0	38.3	38.2	38.2	38.2	38.3	38.0	37.6	38.0	38.3
70°	36.3	36.6	36.9	36.9	36.8	36.9	36.9	36.6	36.3	36.6	36.9
70.5°	35.0	35.4	35.7	35.6	35.6	35.6	35.7	35.4	35.0	35.4	35.7
71°	33.8	34.2	34.5	34.5	34.4	34.5	34.5	34.2	33.8	34.2	34.5
71.5°	32.4	32.8	33.3	33.3	33.2	33.3	33.3	32.8	32.4	32.8	33.3
72°	31.2	31.6	32.0	32.0	31.9	32.0	32.0	31.6	31.2	31.6	32.0
72.5°	30.0	30.4	30.9	30.8	30.8	30.8	30.9	30.4	30.0	30.4	30.9
73°	28.7	29.2	29.7	29.7	29.6	29.7	29.7	29.2	28.7	29.2	29.7
73.5°	27.4	27.9	28.6	28.6	28.5	28.6	28.6	27.9	27.4	27.9	28.6
74°	26.3	26.7	27.3	27.4	27.3	27.4	27.3	26.7	26.3	26.7	27.3
74.5°	25.1	25.6	26.2	26.3	26.2	26.3	26.2	25.6	25.1	25.6	26.2
75°	24.0	24.4	25.1	25.2	25.2	25.2	25.1	24.4	24.0	24.4	25.1
75.5°	22.8	23.3	24.1	24.1	24.1	24.1	24.1	23.3	22.8	23.3	24.1
76°	21.7	22.1	23.0	23.1	23.1	23.1	23.0	22.1	21.7	22.1	23.0
76.5°	20.6	21.0	21.8	22.0	21.9	22.0	21.8	21.0	20.6	21.0	21.8
77°	19.5	20.0	20.8	21.0	20.9	21.0	20.8	20.0	19.5	20.0	20.8
77.5°	18.4	18.9	19.8	20.0	19.9	20.0	19.8	18.9	18.4	18.9	19.8
78°	17.3	17.9	18.7	19.0	18.9	19.0	18.7	17.9	17.3	17.9	18.7
78.5°	16.3	16.7	17.6	18.0	18.0	18.0	17.6	16.7	16.3	16.7	17.6
79°	15.3	15.7	16.6	16.9	16.9	16.9	16.6	15.7	15.3	15.7	16.6
79.5°	14.3	14.7	15.7	16.0	16.0	16.0	15.7	14.7	14.3	14.7	15.7
80°	13.3	13.7	14.7	15.0	15.0	15.0	14.7	13.7	13.3	13.7	14.7
80.5°	12.3	12.8	13.8	14.1	14.1	14.1	13.8	12.8	12.3	12.8	13.8
81°	11.3	11.7	12.8	13.2	13.2	13.2	12.8	11.7	11.3	11.7	12.8
81.5°	10.4	10.7	11.8	12.2	12.2	12.2	11.8	10.7	10.4	10.7	11.8
82°	9.5	9.8	10.9	11.3	11.3	11.3	10.9	9.8	9.5	9.8	10.9
82.5°	8.5	8.9	10.0	10.5	10.5	10.5	10.0	8.9	8.5	8.9	10.0
83°	7.5	8.0	9.1	9.6	9.6	9.6	9.1	8.0	7.5	8.0	9.1
83.5°	6.6	7.0	8.3	8.8	8.7	8.8	8.3	7.0	6.6	7.0	8.3
84°	5.8	6.1	7.4	7.9	7.9	7.9	7.4	6.1	5.8	6.1	7.4
84.5°	4.9	5.2	6.6	7.0	7.0	7.0	6.6	5.2	4.9	5.2	6.6
85°	4.1	4.4	5.8	6.2	6.2	6.2	5.8	4.4	4.1	4.4	5.8
85.5°	3.3	3.7	5.0	5.4	5.4	5.4	5.0	3.7	3.3	3.7	5.0
86°	2.7	3.0	4.3	4.6	4.6	4.6	4.3	3.0	2.7	3.0	4.3
86.5°	2.1	2.4	3.5	3.8	3.9	3.8	3.5	2.4	2.1	2.4	3.5
87°	1.6	1.9	2.9	3.1	3.1	3.1	2.9	1.9	1.6	1.9	2.9
87.5°	1.2	1.4	2.1	2.3	2.3	2.3	2.1	1.4	1.2	1.4	2.1
88°	0.8	1.0	1.5	1.6	1.7	1.6	1.5	1.0	0.8	1.0	1.5
88.5°	0.4	0.6	1.0	1.2	1.3	1.2	1.0	0.6	0.4	0.6	1.0



TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.1	0.1	0.2	0.3	0.2	0.1	0.1	0.0	0.1	0.1



TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	711.0	711.0	711.0	711.0	711.0	711.0
0.5°	710.9	710.6	710.9	710.9	711.0	710.9
1°	710.7	710.4	710.7	710.8	710.8	710.7
1.5°	710.4	710.1	710.4	710.4	710.5	710.4
2°	710.0	709.6	710.0	710.0	710.0	710.0
2.5°	709.4	709.1	709.4	709.5	709.4	709.4
3°	708.7	708.3	708.7	708.7	708.7	708.6
3.5°	707.9	707.5	707.9	707.9	707.8	707.8
4°	706.9	706.6	706.9	706.9	706.9	706.9
4.5°	705.9	705.5	705.9	705.9	705.9	705.8
5°	704.7	704.3	704.7	704.7	704.7	704.6
5.5°	703.3	702.9	703.3	703.3	703.3	703.2
6°	701.8	701.5	701.8	701.8	701.8	701.8
6.5°	700.3	700.0	700.3	700.3	700.2	700.2
7°	698.5	698.2	698.5	698.5	698.5	698.4
7.5°	696.7	696.4	696.7	696.7	696.6	696.6
8°	694.8	694.5	694.8	694.8	694.7	694.6
8.5°	692.6	692.3	692.6	692.6	692.5	692.4
9°	690.5	690.2	690.5	690.4	690.3	690.2
9.5°	688.1	687.8	688.1	688.0	687.9	687.8
10°	685.7	685.4	685.7	685.5	685.4	685.4
10.5°	683.0	682.7	683.0	682.9	682.7	682.7
11°	680.4	680.0	680.4	680.2	680.0	680.0
11.5°	677.5	677.2	677.5	677.3	677.1	677.0
12°	674.6	674.3	674.6	674.4	674.2	674.1
12.5°	671.4	671.2	671.4	671.2	671.1	671.0
13°	668.2	668.0	668.2	668.0	667.8	667.7
13.5°	665.0	664.7	665.0	664.8	664.6	664.5
14°	661.5	661.3	661.5	661.4	661.2	661.0
14.5°	658.0	657.8	658.0	657.8	657.6	657.5
15°	654.5	654.2	654.5	654.3	654.1	653.9
15.5°	650.7	650.4	650.7	650.5	650.3	650.2
16°	646.9	646.6	646.9	646.7	646.5	646.3
16.5°	643.1	642.7	643.1	642.8	642.6	642.5
17°	639.1	638.8	639.1	638.9	638.7	638.6
17.5°	635.0	634.7	635.0	634.8	634.6	634.6
18°	630.8	630.5	630.8	630.7	630.6	630.4
18.5°	626.6	626.3	626.6	626.5	626.4	626.2
19°	622.3	622.1	622.3	622.3	622.2	622.0
19.5°	618.2	617.9	618.2	618.1	618.0	617.9
20°	613.8	613.4	613.8	613.8	613.7	613.6
20.5°	609.3	609.0	609.3	609.3	609.3	609.3
21°	604.8	604.5	604.8	604.9	604.8	604.7

TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	591.2	590.8	591.2	591.3	591.4	591.4
23°	586.6	586.2	586.6	586.7	586.8	586.8
23.5°	581.9	581.6	581.9	582.2	582.3	582.3
24°	577.3	576.8	577.3	577.6	577.7	577.7
24.5°	572.6	572.2	572.6	572.9	573.0	573.1
25°	567.9	567.4	567.9	568.2	568.3	568.3
25.5°	563.1	562.7	563.1	563.5	563.6	563.6
26°	558.5	558.0	558.5	558.8	558.9	558.9
26.5°	553.6	553.2	553.6	554.0	554.1	554.1
27°	548.9	548.4	548.9	549.3	549.4	549.3
27.5°	544.2	543.7	544.2	544.5	544.6	544.6
28°	539.5	539.1	539.5	539.8	539.9	539.7
28.5°	534.9	534.5	534.9	535.2	535.3	535.1
29°	530.4	529.9	530.4	530.6	530.7	530.5
29.5°	525.8	525.4	525.8	526.2	526.2	526.0
30°	521.3	520.8	521.3	521.7	521.7	521.7
30.5°	516.8	516.3	516.8	517.1	517.3	517.2
31°	512.1	511.5	512.1	512.6	512.8	512.8
31.5°	507.2	506.4	507.2	507.7	508.1	508.1
32°	501.4	500.2	501.4	502.3	503.0	503.3
32.5°	494.7	493.4	494.7	496.3	497.4	498.1
33°	487.7	486.3	487.7	489.4	491.4	492.2
33.5°	480.1	478.7	480.1	482.0	484.6	485.3
34°	472.1	470.9	472.1	474.1	477.3	477.6
34.5°	463.5	462.4	463.5	465.8	468.6	469.1
35°	454.4	453.4	454.4	456.9	459.3	460.2
35.5°	445.1	443.7	445.1	447.6	449.5	450.7
36°	435.4	433.7	435.4	437.9	439.1	440.6
36.5°	425.2	423.1	425.2	427.6	428.4	430.0
37°	414.6	412.5	414.6	416.8	417.4	418.8
37.5°	403.7	401.7	403.7	405.6	406.2	407.2
38°	392.7	391.0	392.7	394.0	394.6	395.2
38.5°	381.4	379.9	381.4	381.8	382.8	382.8
39°	369.7	369.1	369.7	369.8	370.8	370.6
39.5°	357.6	357.5	357.6	357.3	358.4	358.0
40°	345.6	345.8	345.6	345.1	346.0	345.4
40.5°	333.7	333.9	333.7	332.8	333.5	332.5
41°	321.5	322.2	321.5	320.8	321.0	320.0
41.5°	309.8	310.1	309.8	308.9	308.3	307.6
42°	297.8	298.6	297.8	296.9	295.7	295.1
42.5°	286.1	286.8	286.1	285.1	283.4	282.8
43°	274.4	275.1	274.4	273.5	271.2	270.4
43.5°	262.7	263.3	262.7	261.7	259.0	258.3



TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	229.1	229.8	229.1	227.4	224.3	223.1
45.5°	218.4	219.1	218.4	216.5	213.3	211.8
46°	208.0	208.9	208.0	205.7	202.7	201.0
46.5°	197.9	198.9	197.9	195.3	192.4	190.4
47°	188.0	189.1	188.0	185.2	182.4	180.2
47.5°	178.5	179.5	178.5	175.7	172.6	170.6
48°	169.4	170.6	169.4	166.5	163.4	161.4
48.5°	160.7	161.9	160.7	157.6	154.5	152.8
49°	152.4	153.5	152.4	149.1	146.2	144.5
49.5°	144.3	145.7	144.3	141.3	138.2	136.8
50°	136.9	138.1	136.9	133.8	130.7	129.7
50.5°	129.8	131.0	129.8	126.9	123.7	123.0
51°	122.9	124.3	122.9	120.4	117.5	116.9
51.5°	116.7	118.0	116.7	114.3	111.7	111.2
52°	110.9	112.0	110.9	108.9	106.5	106.0
52.5°	105.4	106.4	105.4	103.7	101.6	101.2
53°	100.4	101.2	100.4	99.0	97.5	96.8
53.5°	95.9	96.5	95.9	94.8	93.7	93.3
54°	91.7	92.2	91.7	90.9	90.2	90.1
54.5°	88.0	88.6	88.0	87.4	87.1	87.1
55°	85.1	85.5	85.1	84.7	84.3	84.2
55.5°	82.5	83.2	82.5	82.2	81.8	81.4
56°	80.2	81.0	80.2	80.0	79.7	79.5
56.5°	78.0	78.7	78.0	77.8	77.8	77.8
57°	76.0	76.5	76.0	76.1	76.3	76.3
57.5°	74.4	74.3	74.4	74.6	74.8	74.9
58°	72.8	72.6	72.8	73.0	73.2	73.3
58.5°	71.2	71.1	71.2	71.4	71.6	71.7
59°	69.7	69.5	69.7	69.9	70.0	70.1
59.5°	68.0	67.9	68.0	68.1	68.3	68.3
60°	66.4	66.3	66.4	66.5	66.6	66.6
60.5°	64.7	64.6	64.7	64.8	64.9	64.9
61°	63.0	62.9	63.0	63.1	63.2	63.2
61.5°	61.4	61.3	61.4	61.5	61.6	61.6
62°	59.8	59.7	59.8	59.9	60.0	60.0
62.5°	58.1	58.0	58.1	58.2	58.3	58.3
63°	56.5	56.5	56.5	56.7	56.7	56.8
63.5°	55.0	55.0	55.0	55.1	55.2	55.2
64°	53.5	53.3	53.5	53.6	53.7	53.7
64.5°	51.9	51.9	51.9	52.0	52.1	52.1
65°	50.5	50.4	50.5	50.6	50.7	50.6
65.5°	49.1	49.0	49.1	49.2	49.2	49.1
66°	47.5	47.5	47.5	47.6	47.7	47.6



TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	43.4	43.4	43.4	43.5	43.5	43.3
68°	42.0	42.0	42.0	42.1	42.0	41.8
68.5°	40.7	40.7	40.7	40.8	40.7	40.5
69°	39.5	39.4	39.5	39.5	39.4	39.1
69.5°	38.2	38.2	38.2	38.3	38.0	37.6
70°	36.9	36.8	36.9	36.9	36.6	36.3
70.5°	35.6	35.6	35.6	35.7	35.4	35.0
71°	34.5	34.4	34.5	34.5	34.2	33.8
71.5°	33.3	33.2	33.3	33.3	32.8	32.4
72°	32.0	31.9	32.0	32.0	31.6	31.2
72.5°	30.8	30.8	30.8	30.9	30.4	30.0
73°	29.7	29.6	29.7	29.7	29.2	28.7
73.5°	28.6	28.5	28.6	28.6	27.9	27.4
74°	27.4	27.3	27.4	27.3	26.7	26.3
74.5°	26.3	26.2	26.3	26.2	25.6	25.1
75°	25.2	25.2	25.2	25.1	24.4	24.0
75.5°	24.1	24.1	24.1	24.1	23.3	22.8
76°	23.1	23.1	23.1	23.0	22.1	21.7
76.5°	22.0	21.9	22.0	21.8	21.0	20.6
77°	21.0	20.9	21.0	20.8	20.0	19.5
77.5°	20.0	19.9	20.0	19.8	18.9	18.4
78°	19.0	18.9	19.0	18.7	17.9	17.3
78.5°	18.0	18.0	18.0	17.6	16.7	16.3
79°	16.9	16.9	16.9	16.6	15.7	15.3
79.5°	16.0	16.0	16.0	15.7	14.7	14.3
80°	15.0	15.0	15.0	14.7	13.7	13.3
80.5°	14.1	14.1	14.1	13.8	12.8	12.3
81°	13.2	13.2	13.2	12.8	11.7	11.3
81.5°	12.2	12.2	12.2	11.8	10.7	10.4
82°	11.3	11.3	11.3	10.9	9.8	9.5
82.5°	10.5	10.5	10.5	10.0	8.9	8.5
83°	9.6	9.6	9.6	9.1	8.0	7.5
83.5°	8.8	8.7	8.8	8.3	7.0	6.6
84°	7.9	7.9	7.9	7.4	6.1	5.8
84.5°	7.0	7.0	7.0	6.6	5.2	4.9
85°	6.2	6.2	6.2	5.8	4.4	4.1
85.5°	5.4	5.4	5.4	5.0	3.7	3.3
86°	4.6	4.6	4.6	4.3	3.0	2.7
86.5°	3.8	3.9	3.8	3.5	2.4	2.1
87°	3.1	3.1	3.1	2.9	1.9	1.6
87.5°	2.3	2.3	2.3	2.1	1.4	1.2
88°	1.6	1.7	1.6	1.5	1.0	0.8
88.5°	1.2	1.3	1.2	1.0	0.6	0.4



TEST NUMBER: P775761

CATALOG NUMBER: HCDJBL510CSD-HCD62TRMW-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.3	0.2	0.1	0.1	0.0

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

Scaled Data Report



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°	600.3	600.4	600.3	600.3	600.0	600.3	600.3	600.4	600.3	600.4	600.3
22°	595.9	595.9	595.9	595.7	595.4	595.7	595.9	595.9	595.9	595.9	595.9



44°	246.2	247.0	250.0	251.3	252.0	251.3	250.0	247.0	246.2	247.0	250.0
44.5°	234.4	235.5	238.5	240.1	240.7	240.1	238.5	235.5	234.4	235.5	238.5



66.5°	46.1	46.3	46.3	46.2	46.1	46.2	46.3	46.3	46.1	46.3	46.3
67°	44.7	44.9	44.9	44.8	44.7	44.8	44.9	44.9	44.7	44.9	44.9



89°	0.2	0.3	0.6	0.8	0.9	0.8	0.6	0.3	0.2	0.3	0.6
89.5°	0.1	0.1	0.3	0.5	0.6	0.5	0.3	0.1	0.1	0.1	0.3



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°	600.3	600.0	600.3	600.3	600.4	600.3
22°	595.7	595.4	595.7	595.9	595.9	595.9



44°	251.3	252.0	251.3	250.0	247.0	246.2
44.5°	240.1	240.7	240.1	238.5	235.5	234.4

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

Scaled Data Report



66.5°	46.2	46.1	46.2	46.3	46.3	46.1
67°	44.8	44.7	44.8	44.9	44.9	44.7

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

Scaled Data Report



89°	0.8	0.9	0.8	0.6	0.3	0.2
89.5°	0.5	0.6	0.5	0.3	0.1	0.1

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

Scaled Data Report



(END OF REPORT)