

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: P775741

Luminaire Tested: HCDJBL510CSD-HCD62TRC-1000lm-3000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775741  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156B055-HCD62TRC)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBL510CSD-HCD62TRC-1000lm-3000K  
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

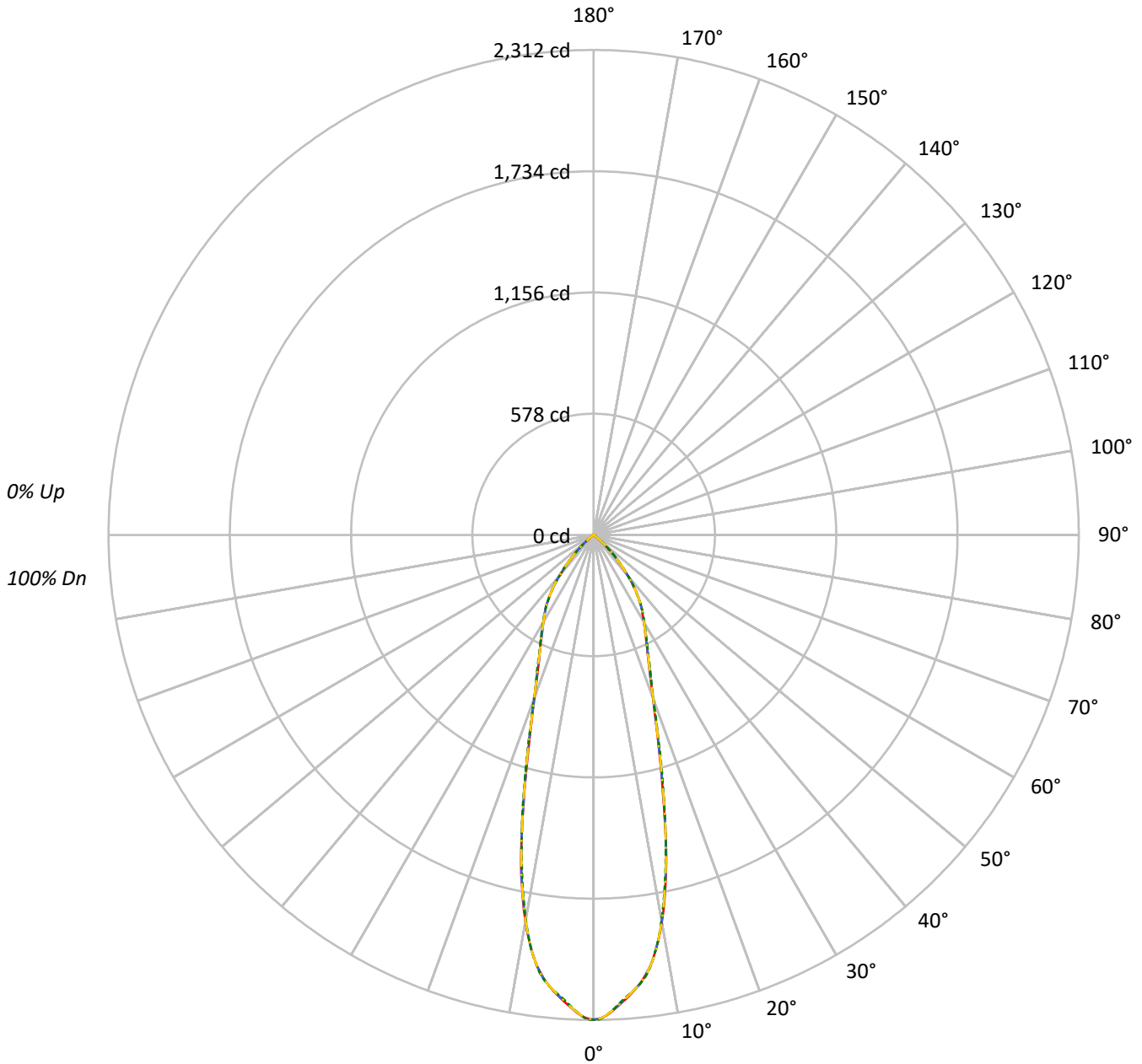
Lumens per Lamp: N/A  
Luminaire Lumens: 1182.8 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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								
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94								
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88								
3	103	97	92	89	101	96	91	88	93	90	87	91	88	85	89	86	84	82								
4	98	91	86	82	97	90	85	81	88	84	80	86	82	79	84	81	79	77								
5	94	86	80	76	92	85	80	76	83	79	75	81	77	74	80	77	74	72								
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68								
7	85	76	71	67	84	76	70	67	75	70	66	73	69	66	72	68	65	64								
8	81	72	67	63	80	72	66	63	71	66	62	70	65	62	69	65	62	61								
9	78	69	63	59	77	68	63	59	67	63	59	67	62	59	66	62	59	57								
10	75	65	60	56	74	65	60	56	64	59	56	63	59	56	63	59	56	55								

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

	0°	90°	180°	270°
0°	126678	126678	126678	126678
5°	120152	120014	120152	120014
10°	104206	103611	104206	103611
15°	72486	73338	72486	73338
20°	48106	48613	48106	48613
25°	36565	37085	36565	37085
30°	30232	30600	30232	30600
35°	25304	25324	25304	25324
40°	18019	18306	18019	18306
45°	10102	10606	10102	10606
50°	3437	4094	3437	4094
55°	248	526	248	526
60°	44	44	44	44
65°	26	26	26	26
70°	16	16	16	16
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: 10606 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.3	16.8
10°-20°	354.6	30.0
20°-30°	283.2	23.9
30°-40°	231.8	19.6
40°-50°	104.7	8.9
50°-60°	9.0	0.8
60°-70°	0.2	0.0
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°	837.1	70.8
0°-40°	1068.9	90.4
0°-60°	1182.6	100.0
0°-90°	1182.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2311	2311	2311	2311	2311	
5°	2183	2181	2183	2181	2183	199
15°	1277	1292	1277	1292	1277	354
25°	604	613	604	613	604	282
35°	378	378	378	378	378	231
45°	130	137	130	137	130	103
55°	3	6	3	6	3	8
65°	0	0	0	0	0	0
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°	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8
0.5°	2308.0	2308.0	2308.0	2308.4	2312.0	2308.4	2308.0	2308.0	2308.0	2308.0	2308.0
1°	2301.9	2301.9	2301.6	2301.7	2304.1	2301.7	2301.6	2301.9	2301.9	2301.9	2301.6
1.5°	2291.9	2291.8	2291.0	2290.4	2292.0	2290.4	2291.0	2291.8	2291.9	2291.8	2291.0
2°	2279.2	2278.6	2277.5	2276.3	2276.5	2276.3	2277.5	2278.6	2279.2	2278.6	2277.5
2.5°	2264.1	2263.7	2262.1	2260.0	2259.4	2260.0	2262.1	2263.7	2264.1	2263.7	2262.1
3°	2248.2	2247.7	2245.8	2243.1	2242.0	2243.1	2245.8	2247.7	2248.2	2247.7	2245.8
3.5°	2232.3	2231.5	2229.4	2226.6	2225.2	2226.6	2229.4	2231.5	2232.3	2231.5	2229.4
4°	2216.4	2215.3	2213.3	2211.1	2209.7	2211.1	2213.3	2215.3	2216.4	2215.3	2213.3
4.5°	2200.1	2199.1	2197.6	2196.1	2195.0	2196.1	2197.6	2199.1	2200.1	2199.1	2197.6
5°	2183.4	2182.7	2181.7	2181.1	2180.9	2181.1	2181.7	2182.7	2183.4	2182.7	2181.7
5.5°	2165.3	2164.9	2164.9	2165.3	2166.1	2165.3	2164.9	2164.9	2165.3	2164.9	2164.9
6°	2145.7	2145.7	2146.3	2147.9	2148.9	2147.9	2146.3	2145.7	2145.7	2145.7	2146.3
6.5°	2123.9	2124.4	2125.6	2127.3	2128.6	2127.3	2125.6	2124.4	2123.9	2124.4	2125.6
7°	2099.1	2100.1	2101.2	2103.0	2104.5	2103.0	2101.2	2100.1	2099.1	2100.1	2101.2
7.5°	2071.0	2071.4	2072.8	2074.1	2075.0	2074.1	2072.8	2071.4	2071.0	2071.4	2072.8
8°	2038.9	2039.1	2040.0	2040.8	2041.2	2040.8	2040.0	2039.1	2038.9	2039.1	2040.0
8.5°	2002.3	2002.3	2002.4	2002.2	2001.5	2002.2	2002.4	2002.3	2002.3	2002.3	2002.4
9°	1962.2	1962.1	1961.2	1959.7	1959.1	1959.7	1961.2	1962.1	1962.2	1962.1	1961.2
9.5°	1918.5	1918.2	1915.8	1913.8	1912.2	1913.8	1915.8	1918.2	1918.5	1918.2	1915.8
10°	1872.0	1871.0	1867.7	1863.9	1861.3	1863.9	1867.7	1871.0	1872.0	1871.0	1867.7
10.5°	1822.6	1820.5	1816.7	1812.1	1808.4	1812.1	1816.7	1820.5	1822.6	1820.5	1816.7
11°	1769.9	1768.0	1763.1	1759.4	1756.0	1759.4	1763.1	1768.0	1769.9	1768.0	1763.1
11.5°	1715.2	1713.5	1709.3	1703.8	1701.2	1703.8	1709.3	1713.5	1715.2	1713.5	1709.3
12°	1658.5	1657.2	1652.1	1647.0	1643.5	1647.0	1652.1	1657.2	1658.5	1657.2	1652.1
12.5°	1599.0	1596.7	1592.7	1587.8	1584.7	1587.8	1592.7	1596.7	1599.0	1596.7	1592.7
13°	1536.7	1535.6	1531.8	1529.0	1527.1	1529.0	1531.8	1535.6	1536.7	1535.6	1531.8
13.5°	1470.0	1470.8	1469.9	1468.8	1467.9	1468.8	1469.9	1470.8	1470.0	1470.8	1469.9
14°	1404.0	1405.5	1406.6	1408.0	1409.1	1408.0	1406.6	1405.5	1404.0	1405.5	1406.6
14.5°	1338.7	1340.9	1344.7	1348.4	1351.1	1348.4	1344.7	1340.9	1338.7	1340.9	1344.7
15°	1277.2	1279.0	1284.1	1288.9	1292.2	1288.9	1284.1	1279.0	1277.2	1279.0	1284.1
15.5°	1219.0	1221.4	1225.9	1231.2	1235.2	1231.2	1225.9	1221.4	1219.0	1221.4	1225.9
16°	1165.0	1166.5	1170.5	1176.8	1181.4	1176.8	1170.5	1166.5	1165.0	1166.5	1170.5
16.5°	1113.2	1114.4	1119.2	1125.0	1129.3	1125.0	1119.2	1114.4	1113.2	1114.4	1119.2
17°	1063.7	1065.0	1069.3	1075.0	1079.6	1075.0	1069.3	1065.0	1063.7	1065.0	1069.3
17.5°	1016.8	1018.1	1022.3	1027.0	1031.1	1027.0	1022.3	1018.1	1016.8	1018.1	1022.3
18°	973.0	974.1	977.0	981.4	985.5	981.4	977.0	974.1	973.0	974.1	977.0
18.5°	931.9	932.2	935.1	940.6	941.8	940.6	935.1	932.2	931.9	932.2	935.1
19°	892.5	893.4	897.5	902.7	902.9	902.7	897.5	893.4	892.5	893.4	897.5
19.5°	856.1	858.3	862.1	866.6	867.0	866.6	862.1	858.3	856.1	858.3	862.1
20°	824.6	825.1	828.2	832.8	833.3	832.8	828.2	825.1	824.6	825.1	828.2
20.5°	794.3	795.2	796.8	800.9	801.9	800.9	796.8	795.2	794.3	795.2	796.8
21°	765.1	766.5	770.1	772.6	774.0	772.6	770.1	766.5	765.1	766.5	770.1



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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°	693.1	693.9	698.4	702.5	706.4	702.5	698.4	693.9	693.1	693.9	698.4
23°	673.2	674.0	676.9	681.8	686.1	681.8	676.9	674.0	673.2	674.0	676.9
23.5°	654.4	655.0	657.8	661.4	666.3	661.4	657.8	655.0	654.4	655.0	657.8
24°	636.6	637.2	639.7	643.6	646.8	643.6	639.7	637.2	636.6	637.2	639.7
24.5°	620.2	620.5	622.4	626.6	629.3	626.6	622.4	620.5	620.2	620.5	622.4
25°	604.5	604.8	606.3	610.6	613.1	610.6	606.3	604.8	604.5	604.8	606.3
25.5°	589.4	589.6	591.2	595.3	597.5	595.3	591.2	589.6	589.4	589.6	591.2
26°	574.9	575.1	576.6	580.7	582.9	580.7	576.6	575.1	574.9	575.1	576.6
26.5°	560.7	561.0	562.4	566.3	568.6	566.3	562.4	561.0	560.7	561.0	562.4
27°	547.4	547.7	549.0	552.7	555.3	552.7	549.0	547.7	547.4	547.7	549.0
27.5°	534.9	535.1	536.2	539.7	542.1	539.7	536.2	535.1	534.9	535.1	536.2
28°	522.7	522.8	524.0	527.2	529.5	527.2	524.0	522.8	522.7	522.8	524.0
28.5°	511.0	511.0	512.2	515.1	517.4	515.1	512.2	511.0	511.0	511.0	512.2
29°	499.7	499.6	500.6	503.4	505.6	503.4	500.6	499.6	499.7	499.6	500.6
29.5°	488.3	488.3	489.5	492.0	494.1	492.0	489.5	488.3	488.3	488.3	489.5
30°	477.6	477.6	478.8	481.2	483.4	481.2	478.8	477.6	477.6	477.6	478.8
30.5°	467.3	467.3	468.4	470.7	472.8	470.7	468.4	467.3	467.3	467.3	468.4
31°	457.5	457.4	458.7	460.8	462.9	460.8	458.7	457.4	457.5	457.4	458.7
31.5°	448.1	447.9	449.0	450.9	453.0	450.9	449.0	447.9	448.1	447.9	449.0
32°	439.1	438.9	439.9	441.5	443.0	441.5	439.9	438.9	439.1	438.9	439.9
32.5°	430.1	430.0	430.4	431.7	432.7	431.7	430.4	430.0	430.1	430.0	430.4
33°	420.9	420.5	420.5	421.5	422.4	421.5	420.5	420.5	420.9	420.5	420.5
33.5°	411.0	410.4	410.5	411.0	412.3	411.0	410.5	410.4	411.0	410.4	410.5
34°	400.4	399.9	399.9	399.6	401.0	399.6	399.9	399.9	400.4	399.9	399.9
34.5°	389.5	388.9	389.1	388.7	389.9	388.7	389.1	388.9	389.5	388.9	389.1
35°	378.1	377.9	377.8	377.8	378.4	377.8	377.8	377.9	378.1	377.9	377.8
35.5°	366.4	366.1	366.0	366.7	366.7	366.7	366.0	366.1	366.4	366.1	366.0
36°	354.5	354.4	354.4	355.1	354.6	355.1	354.4	354.4	354.5	354.4	354.4
36.5°	342.1	342.5	342.5	343.5	342.7	343.5	342.5	342.5	342.1	342.5	342.5
37°	329.5	330.1	330.5	331.4	330.4	331.4	330.5	330.1	329.5	330.1	330.5
37.5°	317.1	317.6	318.9	319.1	318.3	319.1	318.9	317.6	317.1	317.6	318.9
38°	304.7	304.8	306.4	306.2	306.1	306.2	306.4	304.8	304.7	304.8	306.4
38.5°	292.0	291.8	293.8	293.3	293.7	293.3	293.8	291.8	292.0	291.8	293.8
39°	278.8	279.0	281.1	280.2	281.3	280.2	281.1	279.0	278.8	279.0	281.1
39.5°	265.3	265.9	268.4	267.3	268.6	267.3	268.4	265.9	265.3	265.9	268.4
40°	251.8	252.9	255.5	254.6	255.8	254.6	255.5	252.9	251.8	252.9	255.5
40.5°	239.0	240.1	242.4	242.2	243.0	242.2	242.4	240.1	239.0	240.1	242.4
41°	226.3	227.3	229.4	229.8	230.3	229.8	229.4	227.3	226.3	227.3	229.4
41.5°	213.8	214.8	216.3	217.6	217.8	217.6	216.3	214.8	213.8	214.8	216.3
42°	201.5	202.2	203.4	205.4	205.6	205.4	203.4	202.2	201.5	202.2	203.4
42.5°	189.4	190.0	190.8	193.3	193.8	193.3	190.8	190.0	189.4	190.0	190.8
43°	177.3	177.7	178.3	181.2	182.1	181.2	178.3	177.7	177.3	177.7	178.3
43.5°	165.4	165.5	166.3	169.1	170.5	169.1	166.3	165.5	165.4	165.5	166.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	130.3	130.7	132.1	135.1	136.8	135.1	132.1	130.7	130.3	130.7	132.1
45.5°	119.5	119.9	121.4	124.5	126.0	124.5	121.4	119.9	119.5	119.9	121.4
46°	109.3	109.4	111.0	113.9	115.5	113.9	111.0	109.4	109.3	109.4	111.0
46.5°	99.2	99.4	100.7	103.5	105.5	103.5	100.7	99.4	99.2	99.4	100.7
47°	89.4	89.6	91.2	93.8	95.8	93.8	91.2	89.6	89.4	89.6	91.2
47.5°	79.7	80.3	82.2	84.4	86.9	84.4	82.2	80.3	79.7	80.3	82.2
48°	70.9	71.3	73.5	75.7	77.9	75.7	73.5	71.3	70.9	71.3	73.5
48.5°	62.5	62.9	65.2	67.6	69.8	67.6	65.2	62.9	62.5	62.9	65.2
49°	54.6	55.0	57.5	59.8	62.5	59.8	57.5	55.0	54.6	55.0	57.5
49.5°	47.2	48.0	50.2	52.6	55.2	52.6	50.2	48.0	47.2	48.0	50.2
50°	40.3	41.2	43.6	45.7	48.0	45.7	43.6	41.2	40.3	41.2	43.6
50.5°	34.0	35.4	37.5	39.3	40.7	39.3	37.5	35.4	34.0	35.4	37.5
51°	28.5	29.9	31.7	33.3	34.1	33.3	31.7	29.9	28.5	29.9	31.7
51.5°	24.0	25.0	26.3	28.0	28.6	28.0	26.3	25.0	24.0	25.0	26.3
52°	19.9	20.8	21.8	23.3	23.6	23.3	21.8	20.8	19.9	20.8	21.8
52.5°	16.3	16.7	18.0	19.2	19.0	19.2	18.0	16.7	16.3	16.7	18.0
53°	12.8	13.5	14.3	15.3	15.1	15.3	14.3	13.5	12.8	13.5	14.3
53.5°	9.2	10.2	11.0	11.7	11.6	11.7	11.0	10.2	9.2	10.2	11.0
54°	6.6	7.0	8.0	8.9	9.6	8.9	8.0	7.0	6.6	7.0	8.0
54.5°	4.2	4.7	5.7	6.3	7.6	6.3	5.7	4.7	4.2	4.7	5.7
55°	2.6	3.0	3.9	4.4	5.5	4.4	3.9	3.0	2.6	3.0	3.9
55.5°	1.8	1.8	2.2	2.8	3.6	2.8	2.2	1.8	1.8	1.8	2.2
56°	1.3	1.2	1.4	1.7	1.8	1.7	1.4	1.2	1.3	1.2	1.4
56.5°	0.9	0.8	1.0	1.3	1.0	1.3	1.0	0.8	0.9	0.8	1.0
57°	0.5	0.7	0.7	0.9	0.6	0.9	0.7	0.7	0.5	0.7	0.7
57.5°	0.5	0.5	0.5	0.7	0.5	0.7	0.5	0.5	0.5	0.5	0.5
58°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
58.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
59.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
60.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
61.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2





TEST NUMBER: P775741

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
71°	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1	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	0.0	0.1	0.1
76°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76.5°	0.0	0.0	0.0	0.0	0.0	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	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: P775741  
CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P775741

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2310.8	2310.8	2310.8	2310.8	2310.8	2310.8
0.5°	2308.4	2312.0	2308.4	2308.0	2308.0	2308.0
1°	2301.7	2304.1	2301.7	2301.6	2301.9	2301.9
1.5°	2290.4	2292.0	2290.4	2291.0	2291.8	2291.9
2°	2276.3	2276.5	2276.3	2277.5	2278.6	2279.2
2.5°	2260.0	2259.4	2260.0	2262.1	2263.7	2264.1
3°	2243.1	2242.0	2243.1	2245.8	2247.7	2248.2
3.5°	2226.6	2225.2	2226.6	2229.4	2231.5	2232.3
4°	2211.1	2209.7	2211.1	2213.3	2215.3	2216.4
4.5°	2196.1	2195.0	2196.1	2197.6	2199.1	2200.1
5°	2181.1	2180.9	2181.1	2181.7	2182.7	2183.4
5.5°	2165.3	2166.1	2165.3	2164.9	2164.9	2165.3
6°	2147.9	2148.9	2147.9	2146.3	2145.7	2145.7
6.5°	2127.3	2128.6	2127.3	2125.6	2124.4	2123.9
7°	2103.0	2104.5	2103.0	2101.2	2100.1	2099.1
7.5°	2074.1	2075.0	2074.1	2072.8	2071.4	2071.0
8°	2040.8	2041.2	2040.8	2040.0	2039.1	2038.9
8.5°	2002.2	2001.5	2002.2	2002.4	2002.3	2002.3
9°	1959.7	1959.1	1959.7	1961.2	1962.1	1962.2
9.5°	1913.8	1912.2	1913.8	1915.8	1918.2	1918.5
10°	1863.9	1861.3	1863.9	1867.7	1871.0	1872.0
10.5°	1812.1	1808.4	1812.1	1816.7	1820.5	1822.6
11°	1759.4	1756.0	1759.4	1763.1	1768.0	1769.9
11.5°	1703.8	1701.2	1703.8	1709.3	1713.5	1715.2
12°	1647.0	1643.5	1647.0	1652.1	1657.2	1658.5
12.5°	1587.8	1584.7	1587.8	1592.7	1596.7	1599.0
13°	1529.0	1527.1	1529.0	1531.8	1535.6	1536.7
13.5°	1468.8	1467.9	1468.8	1469.9	1470.8	1470.0
14°	1408.0	1409.1	1408.0	1406.6	1405.5	1404.0
14.5°	1348.4	1351.1	1348.4	1344.7	1340.9	1338.7
15°	1288.9	1292.2	1288.9	1284.1	1279.0	1277.2
15.5°	1231.2	1235.2	1231.2	1225.9	1221.4	1219.0
16°	1176.8	1181.4	1176.8	1170.5	1166.5	1165.0
16.5°	1125.0	1129.3	1125.0	1119.2	1114.4	1113.2
17°	1075.0	1079.6	1075.0	1069.3	1065.0	1063.7
17.5°	1027.0	1031.1	1027.0	1022.3	1018.1	1016.8
18°	981.4	985.5	981.4	977.0	974.1	973.0
18.5°	940.6	941.8	940.6	935.1	932.2	931.9
19°	902.7	902.9	902.7	897.5	893.4	892.5
19.5°	866.6	867.0	866.6	862.1	858.3	856.1
20°	832.8	833.3	832.8	828.2	825.1	824.6
20.5°	800.9	801.9	800.9	796.8	795.2	794.3
21°	772.6	774.0	772.6	770.1	766.5	765.1



TEST NUMBER: P775741

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	702.5	706.4	702.5	698.4	693.9	693.1
23°	681.8	686.1	681.8	676.9	674.0	673.2
23.5°	661.4	666.3	661.4	657.8	655.0	654.4
24°	643.6	646.8	643.6	639.7	637.2	636.6
24.5°	626.6	629.3	626.6	622.4	620.5	620.2
25°	610.6	613.1	610.6	606.3	604.8	604.5
25.5°	595.3	597.5	595.3	591.2	589.6	589.4
26°	580.7	582.9	580.7	576.6	575.1	574.9
26.5°	566.3	568.6	566.3	562.4	561.0	560.7
27°	552.7	555.3	552.7	549.0	547.7	547.4
27.5°	539.7	542.1	539.7	536.2	535.1	534.9
28°	527.2	529.5	527.2	524.0	522.8	522.7
28.5°	515.1	517.4	515.1	512.2	511.0	511.0
29°	503.4	505.6	503.4	500.6	499.6	499.7
29.5°	492.0	494.1	492.0	489.5	488.3	488.3
30°	481.2	483.4	481.2	478.8	477.6	477.6
30.5°	470.7	472.8	470.7	468.4	467.3	467.3
31°	460.8	462.9	460.8	458.7	457.4	457.5
31.5°	450.9	453.0	450.9	449.0	447.9	448.1
32°	441.5	443.0	441.5	439.9	438.9	439.1
32.5°	431.7	432.7	431.7	430.4	430.0	430.1
33°	421.5	422.4	421.5	420.5	420.5	420.9
33.5°	411.0	412.3	411.0	410.5	410.4	411.0
34°	399.6	401.0	399.6	399.9	399.9	400.4
34.5°	388.7	389.9	388.7	389.1	388.9	389.5
35°	377.8	378.4	377.8	377.8	377.9	378.1
35.5°	366.7	366.7	366.7	366.0	366.1	366.4
36°	355.1	354.6	355.1	354.4	354.4	354.5
36.5°	343.5	342.7	343.5	342.5	342.5	342.1
37°	331.4	330.4	331.4	330.5	330.1	329.5
37.5°	319.1	318.3	319.1	318.9	317.6	317.1
38°	306.2	306.1	306.2	306.4	304.8	304.7
38.5°	293.3	293.7	293.3	293.8	291.8	292.0
39°	280.2	281.3	280.2	281.1	279.0	278.8
39.5°	267.3	268.6	267.3	268.4	265.9	265.3
40°	254.6	255.8	254.6	255.5	252.9	251.8
40.5°	242.2	243.0	242.2	242.4	240.1	239.0
41°	229.8	230.3	229.8	229.4	227.3	226.3
41.5°	217.6	217.8	217.6	216.3	214.8	213.8
42°	205.4	205.6	205.4	203.4	202.2	201.5
42.5°	193.3	193.8	193.3	190.8	190.0	189.4
43°	181.2	182.1	181.2	178.3	177.7	177.3
43.5°	169.1	170.5	169.1	166.3	165.5	165.4



TEST NUMBER: P775741

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	135.1	136.8	135.1	132.1	130.7	130.3
45.5°	124.5	126.0	124.5	121.4	119.9	119.5
46°	113.9	115.5	113.9	111.0	109.4	109.3
46.5°	103.5	105.5	103.5	100.7	99.4	99.2
47°	93.8	95.8	93.8	91.2	89.6	89.4
47.5°	84.4	86.9	84.4	82.2	80.3	79.7
48°	75.7	77.9	75.7	73.5	71.3	70.9
48.5°	67.6	69.8	67.6	65.2	62.9	62.5
49°	59.8	62.5	59.8	57.5	55.0	54.6
49.5°	52.6	55.2	52.6	50.2	48.0	47.2
50°	45.7	48.0	45.7	43.6	41.2	40.3
50.5°	39.3	40.7	39.3	37.5	35.4	34.0
51°	33.3	34.1	33.3	31.7	29.9	28.5
51.5°	28.0	28.6	28.0	26.3	25.0	24.0
52°	23.3	23.6	23.3	21.8	20.8	19.9
52.5°	19.2	19.0	19.2	18.0	16.7	16.3
53°	15.3	15.1	15.3	14.3	13.5	12.8
53.5°	11.7	11.6	11.7	11.0	10.2	9.2
54°	8.9	9.6	8.9	8.0	7.0	6.6
54.5°	6.3	7.6	6.3	5.7	4.7	4.2
55°	4.4	5.5	4.4	3.9	3.0	2.6
55.5°	2.8	3.6	2.8	2.2	1.8	1.8
56°	1.7	1.8	1.7	1.4	1.2	1.3
56.5°	1.3	1.0	1.3	1.0	0.8	0.9
57°	0.9	0.6	0.9	0.7	0.7	0.5
57.5°	0.7	0.5	0.7	0.5	0.5	0.5
58°	0.5	0.5	0.5	0.5	0.5	0.5
58.5°	0.4	0.4	0.4	0.4	0.4	0.4
59°	0.4	0.4	0.4	0.4	0.4	0.4
59.5°	0.4	0.4	0.4	0.4	0.4	0.4
60°	0.4	0.4	0.4	0.4	0.4	0.4
60.5°	0.3	0.3	0.3	0.3	0.3	0.3
61°	0.3	0.3	0.3	0.3	0.3	0.3
61.5°	0.3	0.3	0.3	0.3	0.3	0.3
62°	0.3	0.3	0.3	0.3	0.3	0.3
62.5°	0.3	0.3	0.3	0.3	0.3	0.3
63°	0.3	0.3	0.3	0.3	0.3	0.3
63.5°	0.2	0.2	0.2	0.2	0.2	0.2
64°	0.2	0.2	0.2	0.2	0.2	0.2
64.5°	0.2	0.2	0.2	0.2	0.2	0.2
65°	0.2	0.2	0.2	0.2	0.2	0.2
65.5°	0.2	0.2	0.2	0.2	0.2	0.2
66°	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P775741

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.2	0.1	0.2	0.2	0.2	0.2
68°	0.1	0.1	0.1	0.1	0.1	0.1
68.5°	0.1	0.1	0.1	0.1	0.1	0.1
69°	0.1	0.1	0.1	0.1	0.1	0.1
69.5°	0.1	0.1	0.1	0.1	0.1	0.1
70°	0.1	0.1	0.1	0.1	0.1	0.1
70.5°	0.1	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	0.1	0.1	0.1
75.5°	0.1	0.1	0.1	0.1	0.1	0.0
76°	0.0	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: P775741

CATALOG NUMBER: HCDJBL510CSD-HCD62TRC-1000lm-3000K

**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

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



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Scaled Data Report





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

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Scaled Data Report





21.5°	737.6	740.5	744.9	747.6	748.4	747.6	744.9	740.5	737.6	740.5	744.9
22°	714.9	716.6	720.9	724.5	727.0	724.5	720.9	716.6	714.9	716.6	720.9



44°	153.2	153.5	154.4	157.3	159.0	157.3	154.4	153.5	153.2	153.5	154.4
44.5°	141.7	142.0	142.9	146.2	147.8	146.2	142.9	142.0	141.7	142.0	142.9



66.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



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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Scaled Data Report





21.5°	747.6	748.4	747.6	744.9	740.5	737.6
22°	724.5	727.0	724.5	720.9	716.6	714.9



44°	157.3	159.0	157.3	154.4	153.5	153.2
44.5°	146.2	147.8	146.2	142.9	142.0	141.7



66.5°	0.2	0.2	0.2	0.2	0.2	0.2
67°	0.2	0.2	0.2	0.2	0.2	0.2

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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

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Scaled Data Report



(END OF REPORT)