

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: P776670

Luminaire Tested: HCDJBS4050CSD-HCD62TRC-5000lm-2700K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776670  
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: HCDJBS4050CSD-HCD62TRC-5000lm-2700K  
Description: 6 INCH ROUND NARROW SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

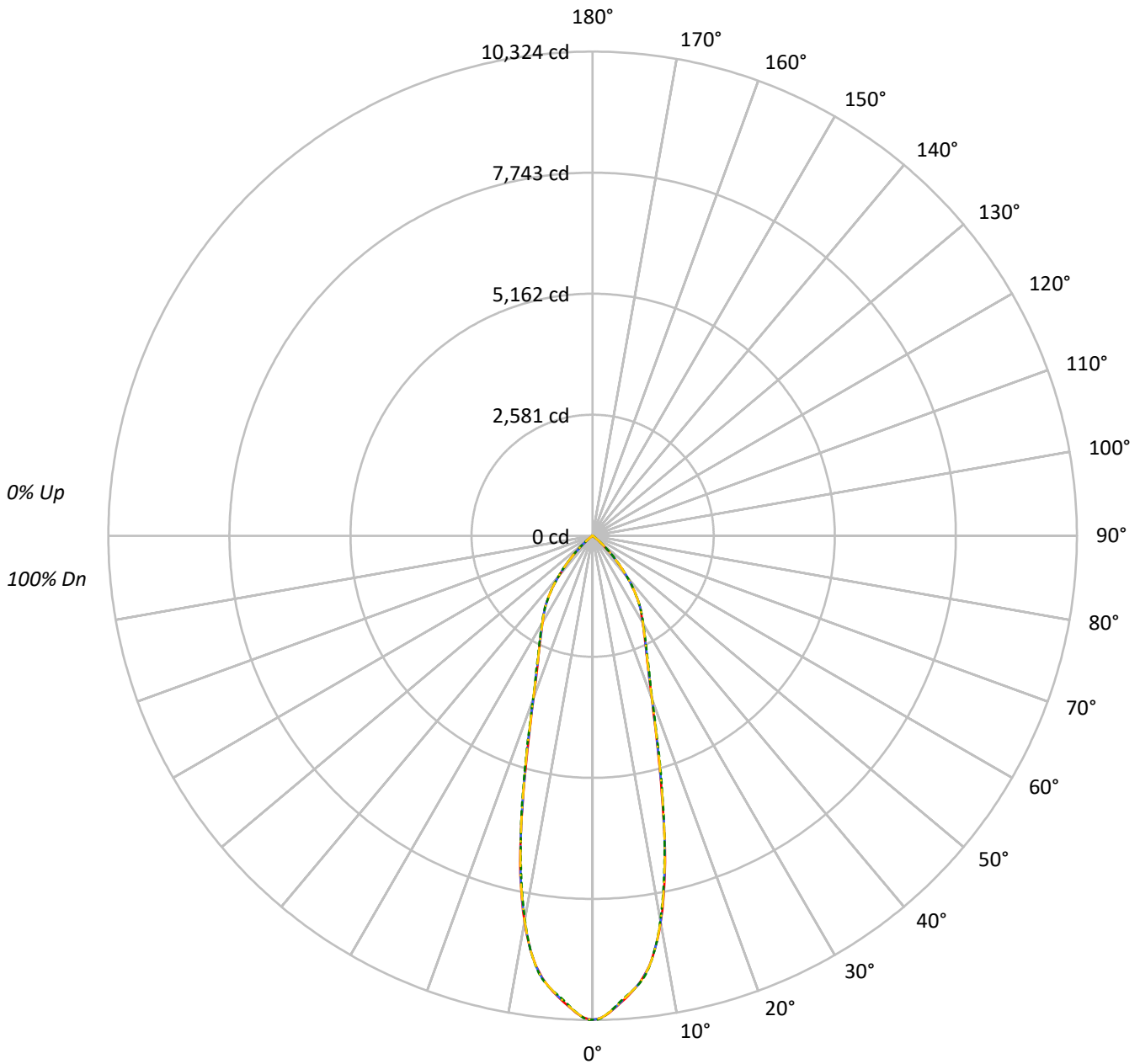
Lumens per Lamp: N/A  
Luminaire Lumens: 5282.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.54 / 0.57  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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



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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	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°	565667	565667	565667	565667
5°	536522	535922	536522	535922
10°	465339	462672	465339	462672
15°	323674	327476	323674	327476
20°	214802	217089	214802	217089
25°	163274	165590	163274	165590
30°	135002	136648	135002	136648
35°	112986	113080	112986	113080
40°	80472	81746	80472	81746
45°	45129	47354	45129	47354
50°	15351	18268	15351	18268
55°	1090	2351	1090	2351
60°	197	197	197	197
65°	117	117	117	117
70°	80	80	80	80
75°	106	106	106	106
80°	0	0	0	0
85°	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 47354 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	889.8	16.8
10°-20°	1583.7	30.0
20°-30°	1264.6	23.9
30°-40°	1035.2	19.6
40°-50°	467.5	8.9
50°-60°	40.0	0.8
60°-70°	1.0	0.0
70°-80°	0.3	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°	3738.0	70.8
0°-40°	4773.2	90.4
0°-60°	5280.7	100.0
0°-90°	5282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5282.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	10319	10319	10319	10319	10319	
5°	9750	9739	9750	9739	9750	890
15°	5703	5770	5703	5770	5703	1581
25°	2699	2738	2699	2738	2699	1257
35°	1688	1690	1688	1690	1688	1033
45°	582	611	582	611	582	459
55°	11	25	11	25	11	36
65°	1	1	1	1	1	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°	10318.6	10318.6	10318.6	10318.6	10318.6	10318.6	10318.6	10318.6	10318.6	10318.6	10318.6
0.5°	10306.2	10306.2	10306.2	10308.1	10324.0	10308.1	10306.2	10306.2	10306.2	10306.2	10306.2
1°	10278.9	10278.9	10277.5	10278.0	10288.9	10278.0	10277.5	10278.9	10278.9	10278.9	10277.5
1.5°	10234.2	10233.8	10230.1	10227.8	10234.7	10227.8	10230.1	10233.8	10234.2	10233.8	10230.1
2°	10177.7	10175.0	10170.0	10164.5	10165.4	10164.5	10170.0	10175.0	10177.7	10175.0	10170.0
2.5°	10110.3	10108.4	10101.1	10092.0	10089.3	10092.0	10101.1	10108.4	10110.3	10108.4	10101.1
3°	10039.1	10036.9	10028.7	10016.4	10011.3	10016.4	10028.7	10036.9	10039.1	10036.9	10028.7
3.5°	9968.0	9964.8	9955.3	9943.0	9936.6	9943.0	9955.3	9964.8	9968.0	9964.8	9955.3
4°	9897.4	9892.4	9883.3	9873.7	9867.3	9873.7	9883.3	9892.4	9897.4	9892.4	9883.3
4.5°	9824.5	9819.9	9813.1	9806.7	9801.7	9806.7	9813.1	9819.9	9824.5	9819.9	9813.1
5°	9749.7	9746.5	9742.4	9739.7	9738.8	9739.7	9742.4	9746.5	9749.7	9746.5	9742.4
5.5°	9669.0	9667.2	9667.2	9669.0	9672.7	9669.0	9667.2	9667.2	9669.0	9667.2	9667.2
6°	9581.5	9581.5	9584.2	9591.5	9595.6	9591.5	9584.2	9581.5	9581.5	9581.5	9584.2
6.5°	9484.0	9486.3	9491.7	9499.5	9504.9	9499.5	9491.7	9486.3	9484.0	9486.3	9491.7
7°	9373.2	9377.8	9382.8	9391.0	9397.4	9391.0	9382.8	9377.8	9373.2	9377.8	9382.8
7.5°	9247.9	9249.7	9256.1	9262.0	9265.6	9262.0	9256.1	9249.7	9247.9	9249.7	9256.1
8°	9104.7	9105.7	9109.3	9112.9	9114.8	9112.9	9109.3	9105.7	9104.7	9105.7	9109.3
8.5°	8941.1	8941.1	8941.6	8940.7	8937.5	8940.7	8941.6	8941.1	8941.1	8941.1	8941.6
9°	8762.0	8761.5	8757.4	8751.0	8748.3	8751.0	8757.4	8761.5	8762.0	8761.5	8757.4
9.5°	8566.9	8565.5	8555.0	8545.9	8538.6	8545.9	8555.0	8565.5	8566.9	8565.5	8555.0
10°	8359.5	8354.9	8339.9	8323.0	8311.6	8323.0	8339.9	8354.9	8359.5	8354.9	8339.9
10.5°	8138.9	8129.3	8112.4	8091.9	8075.5	8091.9	8112.4	8129.3	8138.9	8129.3	8112.4
11°	7903.2	7895.0	7873.2	7856.3	7841.2	7856.3	7873.2	7895.0	7903.2	7895.0	7873.2
11.5°	7658.9	7651.6	7632.9	7608.3	7596.5	7608.3	7632.9	7651.6	7658.9	7651.6	7632.9
12°	7405.9	7400.0	7377.2	7354.4	7338.9	7354.4	7377.2	7400.0	7405.9	7400.0	7377.2
12.5°	7140.2	7130.2	7112.0	7090.1	7076.4	7090.1	7112.0	7130.2	7140.2	7130.2	7112.0
13°	6862.2	6857.2	6840.3	6827.5	6819.3	6827.5	6840.3	6857.2	6862.2	6857.2	6840.3
13.5°	6564.1	6567.7	6563.6	6559.1	6555.0	6559.1	6563.6	6567.7	6564.1	6567.7	6563.6
14°	6269.6	6276.0	6281.0	6287.4	6292.4	6287.4	6281.0	6276.0	6269.6	6276.0	6281.0
14.5°	5977.9	5987.9	6004.8	6021.2	6033.1	6021.2	6004.8	5987.9	5977.9	5987.9	6004.8
15°	5703.1	5711.3	5734.0	5755.5	5770.1	5755.5	5734.0	5711.3	5703.1	5711.3	5734.0
15.5°	5443.2	5454.2	5474.2	5497.9	5515.7	5497.9	5474.2	5454.2	5443.2	5454.2	5474.2
16°	5202.1	5209.0	5226.7	5255.0	5275.5	5255.0	5226.7	5209.0	5202.1	5209.0	5226.7
16.5°	4971.0	4976.5	4997.9	5023.4	5043.0	5023.4	4997.9	4976.5	4971.0	4976.5	4997.9
17°	4750.0	4755.9	4775.0	4800.6	4821.1	4800.6	4775.0	4755.9	4750.0	4755.9	4775.0
17.5°	4540.3	4546.2	4564.9	4585.9	4604.1	4585.9	4564.9	4546.2	4540.3	4546.2	4564.9
18°	4344.8	4349.8	4362.5	4382.6	4400.8	4382.6	4362.5	4349.8	4344.8	4349.8	4362.5
18.5°	4161.5	4162.9	4175.6	4200.3	4205.7	4200.3	4175.6	4162.9	4161.5	4162.9	4175.6
19°	3985.6	3989.2	4007.9	4031.2	4032.1	4031.2	4007.9	3989.2	3985.6	3989.2	4007.9
19.5°	3822.9	3832.9	3849.7	3869.8	3871.6	3869.8	3849.7	3832.9	3822.9	3832.9	3849.7
20°	3682.0	3684.3	3698.4	3718.9	3721.2	3718.9	3698.4	3684.3	3682.0	3684.3	3698.4
20.5°	3547.1	3550.7	3558.0	3576.3	3580.8	3576.3	3558.0	3550.7	3547.1	3550.7	3558.0
21°	3416.7	3422.7	3439.1	3450.0	3456.4	3450.0	3439.1	3422.7	3416.7	3422.7	3439.1



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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°	3094.9	3098.6	3118.6	3136.9	3154.2	3136.9	3118.6	3098.6	3094.9	3098.6	3118.6
23°	3006.0	3009.7	3022.5	3044.3	3063.9	3044.3	3022.5	3009.7	3006.0	3009.7	3022.5
23.5°	2922.2	2924.9	2937.2	2953.6	2975.5	2953.6	2937.2	2924.9	2922.2	2924.9	2937.2
24°	2842.9	2845.6	2856.5	2873.9	2888.4	2873.9	2856.5	2845.6	2842.9	2845.6	2856.5
24.5°	2769.5	2770.8	2779.5	2798.2	2810.0	2798.2	2779.5	2770.8	2769.5	2770.8	2779.5
25°	2699.3	2700.7	2707.5	2726.6	2737.6	2726.6	2707.5	2700.7	2699.3	2700.7	2707.5
25.5°	2631.8	2632.7	2640.0	2658.3	2668.3	2658.3	2640.0	2632.7	2631.8	2632.7	2640.0
26°	2567.1	2568.0	2574.9	2593.1	2603.1	2593.1	2574.9	2568.0	2567.1	2568.0	2574.9
26.5°	2503.7	2505.1	2511.5	2528.8	2538.8	2528.8	2511.5	2505.1	2503.7	2505.1	2511.5
27°	2444.5	2445.9	2451.3	2468.2	2479.6	2468.2	2451.3	2445.9	2444.5	2445.9	2451.3
27.5°	2388.4	2389.3	2394.4	2409.9	2420.8	2409.9	2394.4	2389.3	2388.4	2389.3	2394.4
28°	2334.2	2334.6	2340.1	2354.2	2364.3	2354.2	2340.1	2334.6	2334.2	2334.6	2340.1
28.5°	2281.8	2281.8	2287.2	2300.0	2310.5	2300.0	2287.2	2281.8	2281.8	2281.8	2287.2
29°	2231.2	2230.7	2235.3	2248.0	2257.6	2248.0	2235.3	2230.7	2231.2	2230.7	2235.3
29.5°	2180.6	2180.6	2186.0	2197.0	2206.6	2197.0	2186.0	2180.6	2180.6	2180.6	2186.0
30°	2132.7	2132.7	2138.2	2148.7	2158.7	2148.7	2138.2	2132.7	2132.7	2132.7	2138.2
30.5°	2086.7	2086.7	2091.7	2101.7	2111.3	2101.7	2091.7	2086.7	2086.7	2086.7	2091.7
31°	2042.9	2042.5	2048.4	2057.5	2067.1	2057.5	2048.4	2042.5	2042.9	2042.5	2048.4
31.5°	2001.0	2000.1	2005.1	2013.3	2022.9	2013.3	2005.1	2000.1	2001.0	2000.1	2005.1
32°	1960.9	1960.0	1964.5	1971.4	1978.2	1971.4	1964.5	1960.0	1960.9	1960.0	1964.5
32.5°	1920.8	1920.3	1922.1	1927.6	1932.2	1927.6	1922.1	1920.3	1920.8	1920.3	1922.1
33°	1879.3	1877.9	1877.9	1882.0	1886.1	1882.0	1877.9	1877.9	1879.3	1877.9	1877.9
33.5°	1835.1	1832.8	1833.3	1835.1	1841.0	1835.1	1833.3	1832.8	1835.1	1832.8	1833.3
34°	1788.1	1785.9	1785.9	1784.5	1790.9	1784.5	1785.9	1785.9	1788.1	1785.9	1785.9
34.5°	1739.4	1736.6	1737.5	1735.7	1741.2	1735.7	1737.5	1736.6	1739.4	1736.6	1737.5
35°	1688.3	1687.4	1686.9	1686.9	1689.7	1686.9	1686.9	1687.4	1688.3	1687.4	1686.9
35.5°	1636.3	1635.0	1634.5	1637.3	1637.3	1637.3	1634.5	1635.0	1636.3	1635.0	1634.5
36°	1583.0	1582.6	1582.6	1585.8	1583.5	1585.8	1582.6	1582.6	1583.0	1582.6	1582.6
36.5°	1527.4	1529.2	1529.2	1533.8	1530.1	1533.8	1529.2	1529.2	1527.4	1529.2	1529.2
37°	1471.3	1474.1	1475.9	1480.0	1475.4	1480.0	1475.9	1474.1	1471.3	1474.1	1475.9
37.5°	1416.2	1418.0	1423.9	1424.9	1421.2	1424.9	1423.9	1418.0	1416.2	1418.0	1423.9
38°	1360.6	1361.0	1368.3	1367.4	1367.0	1367.4	1368.3	1361.0	1360.6	1361.0	1368.3
38.5°	1304.1	1303.2	1311.8	1309.5	1311.4	1309.5	1311.8	1303.2	1304.1	1303.2	1311.8
39°	1244.8	1245.7	1255.3	1251.2	1256.2	1251.2	1255.3	1245.7	1244.8	1245.7	1255.3
39.5°	1184.6	1187.4	1198.3	1193.8	1199.2	1193.8	1198.3	1187.4	1184.6	1187.4	1198.3
40°	1124.5	1129.5	1140.9	1136.8	1142.3	1136.8	1140.9	1129.5	1124.5	1129.5	1140.9
40.5°	1067.0	1072.1	1082.5	1081.6	1085.3	1081.6	1082.5	1072.1	1067.0	1072.1	1082.5
41°	1010.5	1015.1	1024.2	1026.0	1028.3	1026.0	1024.2	1015.1	1010.5	1015.1	1024.2
41.5°	954.9	959.0	965.9	971.8	972.7	971.8	965.9	959.0	954.9	959.0	965.9
42°	899.8	903.0	908.4	917.1	918.0	917.1	908.4	903.0	899.8	903.0	908.4
42.5°	846.0	848.3	851.9	863.3	865.6	863.3	851.9	848.3	846.0	848.3	851.9
43°	791.7	793.6	796.3	809.1	813.2	809.1	796.3	793.6	791.7	793.6	796.3
43.5°	738.4	738.9	742.5	755.3	761.2	755.3	742.5	738.9	738.4	738.9	742.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	582.1	583.4	589.8	603.5	610.8	603.5	589.8	583.4	582.1	583.4	589.8
45.5°	533.7	535.6	542.0	556.1	562.5	556.1	542.0	535.6	533.7	535.6	542.0
46°	488.2	488.6	495.5	508.7	516.0	508.7	495.5	488.6	488.2	488.6	495.5
46.5°	443.0	444.0	449.9	462.2	471.3	462.2	449.9	444.0	443.0	444.0	449.9
47°	399.3	400.2	407.0	418.9	428.0	418.9	407.0	400.2	399.3	400.2	407.0
47.5°	356.0	358.7	366.9	377.0	387.9	377.0	366.9	358.7	356.0	358.7	366.9
48°	316.8	318.6	328.2	338.2	347.8	338.2	328.2	318.6	316.8	318.6	328.2
48.5°	279.0	280.8	291.3	301.7	311.8	301.7	291.3	280.8	279.0	280.8	291.3
49°	243.9	245.7	256.6	267.1	279.0	267.1	256.6	245.7	243.9	245.7	256.6
49.5°	210.6	214.2	224.3	234.7	246.6	234.7	224.3	214.2	210.6	214.2	224.3
50°	180.0	184.1	194.6	204.2	214.2	204.2	194.6	184.1	180.0	184.1	194.6
50.5°	151.8	158.2	167.3	175.5	181.9	175.5	167.3	158.2	151.8	158.2	167.3
51°	127.2	133.6	141.8	148.6	152.2	148.6	141.8	133.6	127.2	133.6	141.8
51.5°	107.1	111.7	117.6	124.9	127.6	124.9	117.6	111.7	107.1	111.7	117.6
52°	88.9	93.0	97.5	103.9	105.3	103.9	97.5	93.0	88.9	93.0	97.5
52.5°	72.9	74.8	80.2	85.7	84.8	85.7	80.2	74.8	72.9	74.8	80.2
53°	57.0	60.2	63.8	68.4	67.5	68.4	63.8	60.2	57.0	60.2	63.8
53.5°	41.0	45.6	49.2	52.4	52.0	52.4	49.2	45.6	41.0	45.6	49.2
54°	29.6	31.5	35.6	39.7	42.8	39.7	35.6	31.5	29.6	31.5	35.6
54.5°	18.7	21.0	25.5	28.3	33.7	28.3	25.5	21.0	18.7	21.0	25.5
55°	11.4	13.2	17.3	19.6	24.6	19.6	17.3	13.2	11.4	13.2	17.3
55.5°	8.2	8.2	10.0	12.3	16.0	12.3	10.0	8.2	8.2	10.0	12.3
56°	5.9	5.5	6.4	7.7	8.2	7.7	6.4	5.5	5.9	5.5	6.4
56.5°	4.1	3.6	4.6	5.9	4.6	5.9	4.6	3.6	4.1	3.6	4.6
57°	2.3	3.2	3.2	4.1	2.7	4.1	3.2	3.2	2.3	3.2	3.2
57.5°	2.3	2.3	2.3	3.2	2.3	3.2	2.3	2.3	2.3	2.3	2.3
58°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
58.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
59°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
59.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
60.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
61°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
61.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
63°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
63.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
64°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
64.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
66°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9





TEST NUMBER: P776670  
 CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.9	0.9	0.9	0.9	0.5	0.9	0.9	0.9	0.9	0.9	0.9
68°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5	0.5
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: P776670  
CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-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: P776670

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	10318.6	10318.6	10318.6	10318.6	10318.6	10318.6
0.5°	10308.1	10324.0	10308.1	10306.2	10306.2	10306.2
1°	10278.0	10288.9	10278.0	10277.5	10278.9	10278.9
1.5°	10227.8	10234.7	10227.8	10230.1	10233.8	10234.2
2°	10164.5	10165.4	10164.5	10170.0	10175.0	10177.7
2.5°	10092.0	10089.3	10092.0	10101.1	10108.4	10110.3
3°	10016.4	10011.3	10016.4	10028.7	10036.9	10039.1
3.5°	9943.0	9936.6	9943.0	9955.3	9964.8	9968.0
4°	9873.7	9867.3	9873.7	9883.3	9892.4	9897.4
4.5°	9806.7	9801.7	9806.7	9813.1	9819.9	9824.5
5°	9739.7	9738.8	9739.7	9742.4	9746.5	9749.7
5.5°	9669.0	9672.7	9669.0	9667.2	9667.2	9669.0
6°	9591.5	9595.6	9591.5	9584.2	9581.5	9581.5
6.5°	9499.5	9504.9	9499.5	9491.7	9486.3	9484.0
7°	9391.0	9397.4	9391.0	9382.8	9377.8	9373.2
7.5°	9262.0	9265.6	9262.0	9256.1	9249.7	9247.9
8°	9112.9	9114.8	9112.9	9109.3	9105.7	9104.7
8.5°	8940.7	8937.5	8940.7	8941.6	8941.1	8941.1
9°	8751.0	8748.3	8751.0	8757.4	8761.5	8762.0
9.5°	8545.9	8538.6	8545.9	8555.0	8565.5	8566.9
10°	8323.0	8311.6	8323.0	8339.9	8354.9	8359.5
10.5°	8091.9	8075.5	8091.9	8112.4	8129.3	8138.9
11°	7856.3	7841.2	7856.3	7873.2	7895.0	7903.2
11.5°	7608.3	7596.5	7608.3	7632.9	7651.6	7658.9
12°	7354.4	7338.9	7354.4	7377.2	7400.0	7405.9
12.5°	7090.1	7076.4	7090.1	7112.0	7130.2	7140.2
13°	6827.5	6819.3	6827.5	6840.3	6857.2	6862.2
13.5°	6559.1	6555.0	6559.1	6563.6	6567.7	6564.1
14°	6287.4	6292.4	6287.4	6281.0	6276.0	6269.6
14.5°	6021.2	6033.1	6021.2	6004.8	5987.9	5977.9
15°	5755.5	5770.1	5755.5	5734.0	5711.3	5703.1
15.5°	5497.9	5515.7	5497.9	5474.2	5454.2	5443.2
16°	5255.0	5275.5	5255.0	5226.7	5209.0	5202.1
16.5°	5023.4	5043.0	5023.4	4997.9	4976.5	4971.0
17°	4800.6	4821.1	4800.6	4775.0	4755.9	4750.0
17.5°	4585.9	4604.1	4585.9	4564.9	4546.2	4540.3
18°	4382.6	4400.8	4382.6	4362.5	4349.8	4344.8
18.5°	4200.3	4205.7	4200.3	4175.6	4162.9	4161.5
19°	4031.2	4032.1	4031.2	4007.9	3989.2	3985.6
19.5°	3869.8	3871.6	3869.8	3849.7	3832.9	3822.9
20°	3718.9	3721.2	3718.9	3698.4	3684.3	3682.0
20.5°	3576.3	3580.8	3576.3	3558.0	3550.7	3547.1
21°	3450.0	3456.4	3450.0	3439.1	3422.7	3416.7



TEST NUMBER: P776670

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3136.9	3154.2	3136.9	3118.6	3098.6	3094.9
23°	3044.3	3063.9	3044.3	3022.5	3009.7	3006.0
23.5°	2953.6	2975.5	2953.6	2937.2	2924.9	2922.2
24°	2873.9	2888.4	2873.9	2856.5	2845.6	2842.9
24.5°	2798.2	2810.0	2798.2	2779.5	2770.8	2769.5
25°	2726.6	2737.6	2726.6	2707.5	2700.7	2699.3
25.5°	2658.3	2668.3	2658.3	2640.0	2632.7	2631.8
26°	2593.1	2603.1	2593.1	2574.9	2568.0	2567.1
26.5°	2528.8	2538.8	2528.8	2511.5	2505.1	2503.7
27°	2468.2	2479.6	2468.2	2451.3	2445.9	2444.5
27.5°	2409.9	2420.8	2409.9	2394.4	2389.3	2388.4
28°	2354.2	2364.3	2354.2	2340.1	2334.6	2334.2
28.5°	2300.0	2310.5	2300.0	2287.2	2281.8	2281.8
29°	2248.0	2257.6	2248.0	2235.3	2230.7	2231.2
29.5°	2197.0	2206.6	2197.0	2186.0	2180.6	2180.6
30°	2148.7	2158.7	2148.7	2138.2	2132.7	2132.7
30.5°	2101.7	2111.3	2101.7	2091.7	2086.7	2086.7
31°	2057.5	2067.1	2057.5	2048.4	2042.5	2042.9
31.5°	2013.3	2022.9	2013.3	2005.1	2000.1	2001.0
32°	1971.4	1978.2	1971.4	1964.5	1960.0	1960.9
32.5°	1927.6	1932.2	1927.6	1922.1	1920.3	1920.8
33°	1882.0	1886.1	1882.0	1877.9	1877.9	1879.3
33.5°	1835.1	1841.0	1835.1	1833.3	1832.8	1835.1
34°	1784.5	1790.9	1784.5	1785.9	1785.9	1788.1
34.5°	1735.7	1741.2	1735.7	1737.5	1736.6	1739.4
35°	1686.9	1689.7	1686.9	1686.9	1687.4	1688.3
35.5°	1637.3	1637.3	1637.3	1634.5	1635.0	1636.3
36°	1585.8	1583.5	1585.8	1582.6	1582.6	1583.0
36.5°	1533.8	1530.1	1533.8	1529.2	1529.2	1527.4
37°	1480.0	1475.4	1480.0	1475.9	1474.1	1471.3
37.5°	1424.9	1421.2	1424.9	1423.9	1418.0	1416.2
38°	1367.4	1367.0	1367.4	1368.3	1361.0	1360.6
38.5°	1309.5	1311.4	1309.5	1311.8	1303.2	1304.1
39°	1251.2	1256.2	1251.2	1255.3	1245.7	1244.8
39.5°	1193.8	1199.2	1193.8	1198.3	1187.4	1184.6
40°	1136.8	1142.3	1136.8	1140.9	1129.5	1124.5
40.5°	1081.6	1085.3	1081.6	1082.5	1072.1	1067.0
41°	1026.0	1028.3	1026.0	1024.2	1015.1	1010.5
41.5°	971.8	972.7	971.8	965.9	959.0	954.9
42°	917.1	918.0	917.1	908.4	903.0	899.8
42.5°	863.3	865.6	863.3	851.9	848.3	846.0
43°	809.1	813.2	809.1	796.3	793.6	791.7
43.5°	755.3	761.2	755.3	742.5	738.9	738.4



TEST NUMBER: P776670

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	603.5	610.8	603.5	589.8	583.4	582.1
45.5°	556.1	562.5	556.1	542.0	535.6	533.7
46°	508.7	516.0	508.7	495.5	488.6	488.2
46.5°	462.2	471.3	462.2	449.9	444.0	443.0
47°	418.9	428.0	418.9	407.0	400.2	399.3
47.5°	377.0	387.9	377.0	366.9	358.7	356.0
48°	338.2	347.8	338.2	328.2	318.6	316.8
48.5°	301.7	311.8	301.7	291.3	280.8	279.0
49°	267.1	279.0	267.1	256.6	245.7	243.9
49.5°	234.7	246.6	234.7	224.3	214.2	210.6
50°	204.2	214.2	204.2	194.6	184.1	180.0
50.5°	175.5	181.9	175.5	167.3	158.2	151.8
51°	148.6	152.2	148.6	141.8	133.6	127.2
51.5°	124.9	127.6	124.9	117.6	111.7	107.1
52°	103.9	105.3	103.9	97.5	93.0	88.9
52.5°	85.7	84.8	85.7	80.2	74.8	72.9
53°	68.4	67.5	68.4	63.8	60.2	57.0
53.5°	52.4	52.0	52.4	49.2	45.6	41.0
54°	39.7	42.8	39.7	35.6	31.5	29.6
54.5°	28.3	33.7	28.3	25.5	21.0	18.7
55°	19.6	24.6	19.6	17.3	13.2	11.4
55.5°	12.3	16.0	12.3	10.0	8.2	8.2
56°	7.7	8.2	7.7	6.4	5.5	5.9
56.5°	5.9	4.6	5.9	4.6	3.6	4.1
57°	4.1	2.7	4.1	3.2	3.2	2.3
57.5°	3.2	2.3	3.2	2.3	2.3	2.3
58°	2.3	2.3	2.3	2.3	2.3	2.3
58.5°	1.8	1.8	1.8	1.8	1.8	1.8
59°	1.8	1.8	1.8	1.8	1.8	1.8
59.5°	1.8	1.8	1.8	1.8	1.8	1.8
60°	1.8	1.8	1.8	1.8	1.8	1.8
60.5°	1.4	1.4	1.4	1.4	1.4	1.4
61°	1.4	1.4	1.4	1.4	1.4	1.4
61.5°	1.4	1.4	1.4	1.4	1.4	1.4
62°	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4
63°	1.4	1.4	1.4	1.4	1.4	1.4
63.5°	0.9	0.9	0.9	0.9	0.9	0.9
64°	0.9	0.9	0.9	0.9	0.9	0.9
64.5°	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.9	0.9	0.9	0.9	0.9	0.9
65.5°	0.9	0.9	0.9	0.9	0.9	0.9
66°	0.9	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P776670  
 CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.9	0.5	0.9	0.9	0.9	0.9
68°	0.5	0.5	0.5	0.5	0.5	0.5
68.5°	0.5	0.5	0.5	0.5	0.5	0.5
69°	0.5	0.5	0.5	0.5	0.5	0.5
69.5°	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5
70.5°	0.5	0.5	0.5	0.5	0.5	0.5
71°	0.5	0.5	0.5	0.5	0.5	0.5
71.5°	0.5	0.5	0.5	0.5	0.5	0.5
72°	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5
73°	0.5	0.5	0.5	0.5	0.5	0.5
73.5°	0.5	0.5	0.5	0.5	0.5	0.5
74°	0.5	0.5	0.5	0.5	0.5	0.5
74.5°	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5
75.5°	0.5	0.5	0.5	0.5	0.5	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: P776670

CATALOG NUMBER: HCDJBL54050CSD-HCD62TRC-5000lm-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

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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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





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

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

Scaled Data Report



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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





21.5°	3293.7	3306.9	3326.5	3338.3	3342.0	3338.3	3326.5	3306.9	3293.7	3306.9	3326.5
22°	3192.5	3199.8	3219.4	3235.3	3246.3	3235.3	3219.4	3199.8	3192.5	3199.8	3219.4



44°	684.2	685.5	689.6	702.4	710.1	702.4	689.6	685.5	684.2	685.5	689.6
44.5°	632.7	634.0	638.1	652.7	660.0	652.7	638.1	634.0	632.7	634.0	638.1



66.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
67°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



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°	3338.3	3342.0	3338.3	3326.5	3306.9	3293.7
22°	3235.3	3246.3	3235.3	3219.4	3199.8	3192.5



44°	702.4	710.1	702.4	689.6	685.5	684.2
44.5°	652.7	660.0	652.7	638.1	634.0	632.7

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Peachtree City, GA 30269

Scaled Data Report



66.5°	0.9	0.9	0.9	0.9	0.9	0.9
67°	0.9	0.9	0.9	0.9	0.9	0.9

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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

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1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)