

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: P776724

Luminaire Tested: HCDJBS4050CSD-HCD6TSQC-5000lm-5000K

Issue Date: 2/7/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P776724  
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: HCDJBS4050CSD-HCD6TSQC-5000lm-5000K  
Description: 6 INCH SQUARE MEDIUM SPECULAR CLEAR TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

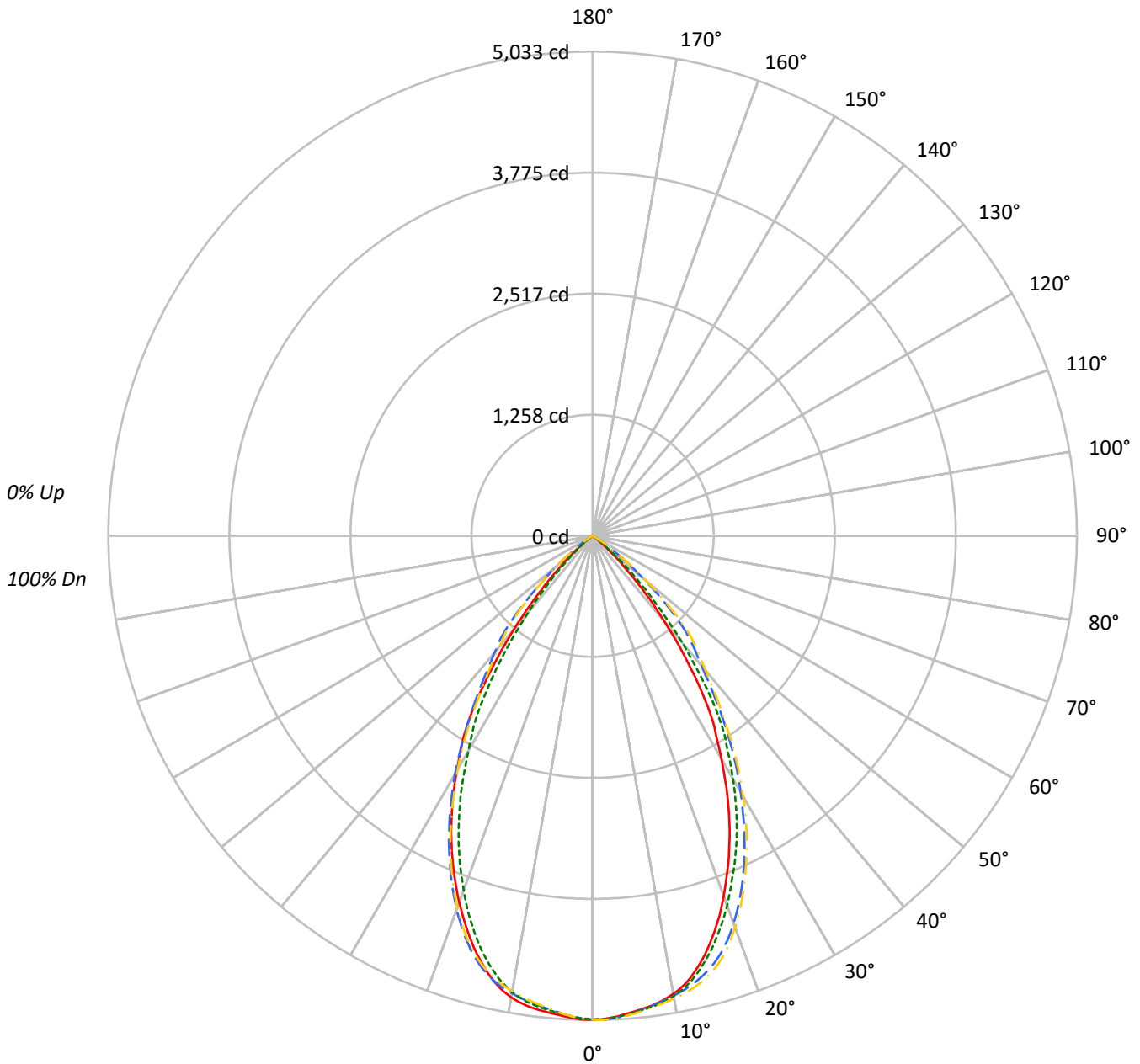
Lumens per Lamp: N/A  
Luminaire Lumens: 5486.1 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.99  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
CIE Type: Direct

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									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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93						93													
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85						85													
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79						79													
4	96	87	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72						72													
5	90	81	75	70	89	80	74	70	78	73	69	77	72	69	75	71	68	67						67													
6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	71	66	63	62						62													
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57						57													
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53						53													
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49						49													
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46						46													

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

	0°	90°	180°	270°
0°	216566	216566	216566	216566
5°	214540	215003	215318	214251
10°	211359	212291	212929	210572
15°	200911	203162	202769	198682
20°	182529	187243	185686	179637
25°	160064	167836	165181	156354
30°	132862	144928	140295	128596
35°	103582	119498	111388	97133
40°	65299	80846	71841	58942
45°	31590	43171	36022	27005
50°	9592	15118	11347	7703
55°	1276	1164	1126	983
60°	878	921	921	749
65°	744	744	795	642
70°	617	667	667	491
75°	566	566	566	482
80°	471	471	471	372
85°	247	494	247	247

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 135°  
 Vertical Angle: 45°  
 Luminance: 83711 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.4	8.6
10°-20°	1274.6	23.2
20°-30°	1611.3	29.4
30°-40°	1361.4	24.8
40°-50°	657.2	12.0
50°-60°	98.5	1.8
60°-70°	8.3	0.2
70°-80°	3.7	0.1
80°-90°	0.8	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°	3356.2	61.2
0°-40°	4717.6	86.0
0°-60°	5473.3	99.8
0°-90°	5486.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5486.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	5030	5030	5030	5030	5030	
5°	4964	4975	4982	4957	4964	470
15°	4507	4558	4549	4457	4507	1255
25°	3369	3533	3477	3291	3369	1534
35°	1971	2274	2119	1848	1971	1205
45°	519	709	592	444	519	423
55°	17	16	15	13	17	33
65°	7	7	8	6	7	7
75°	3	3	3	3	3	4
85°	0	1	0	0	0	1
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°	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9
0.5°	5030.4	5030.9	5030.4	5030.9	5025.6	5029.0	5032.4	5035.3	5031.9	5028.5	5027.0
1°	5027.5	5029.9	5029.9	5030.9	5025.1	5029.9	5032.9	5034.3	5030.9	5024.1	5022.2
1.5°	5022.7	5027.0	5028.0	5029.9	5023.2	5028.0	5032.4	5031.9	5027.5	5019.3	5016.4
2°	5017.3	5023.2	5025.1	5028.0	5018.8	5025.6	5029.9	5027.0	5021.7	5012.5	5009.1
2.5°	5009.6	5018.8	5020.7	5024.1	5013.9	5021.2	5025.6	5021.7	5016.4	5004.7	5000.8
3°	5002.3	5011.5	5014.4	5019.3	5008.1	5015.9	5019.8	5014.4	5009.6	4996.0	4990.6
3.5°	4992.1	5003.7	5006.7	5012.5	5000.8	5008.6	5012.5	5008.1	5002.3	4987.2	4980.9
4°	4981.9	4994.5	4997.9	5004.2	4992.1	5001.8	5004.2	4999.9	4994.5	4978.0	4969.3
4.5°	4972.2	4983.8	4987.7	4995.5	4983.8	4992.6	4996.0	4992.6	4989.2	4968.8	4958.1
5°	4963.9	4973.7	4976.1	4985.8	4974.6	4983.4	4986.3	4985.8	4981.9	4960.1	4947.0
5.5°	4954.7	4963.9	4964.9	4975.1	4966.4	4974.1	4976.6	4978.0	4974.6	4950.8	4936.8
6°	4945.0	4954.7	4951.8	4963.5	4957.6	4964.9	4966.9	4969.8	4966.9	4941.1	4927.6
6.5°	4934.8	4945.5	4940.2	4952.3	4948.4	4955.7	4956.2	4961.0	4960.6	4931.4	4916.4
7°	4925.6	4934.8	4928.5	4941.6	4938.7	4945.5	4946.5	4952.8	4951.8	4920.3	4905.2
7.5°	4913.0	4923.7	4916.4	4930.0	4928.5	4934.8	4936.3	4943.1	4942.1	4908.1	4893.6
8°	4901.8	4912.5	4905.2	4917.8	4916.9	4924.2	4926.6	4933.4	4931.4	4895.5	4881.9
8.5°	4887.3	4899.9	4892.6	4905.2	4904.7	4911.5	4916.4	4922.2	4919.8	4881.9	4870.3
9°	4870.8	4886.8	4880.0	4892.1	4890.2	4898.4	4906.2	4909.6	4905.7	4866.9	4857.7
9.5°	4852.8	4871.3	4867.9	4877.6	4874.2	4885.3	4895.5	4897.0	4888.7	4849.9	4843.6
10°	4834.4	4854.3	4854.3	4863.0	4855.7	4869.8	4884.8	4880.0	4870.3	4830.5	4828.6
10.5°	4814.5	4836.8	4840.7	4847.0	4837.3	4852.3	4873.2	4862.5	4850.9	4811.1	4815.0
11°	4790.7	4818.4	4826.6	4829.0	4816.4	4833.4	4860.6	4842.1	4827.6	4790.2	4798.5
11.5°	4763.5	4798.0	4812.1	4811.1	4793.6	4814.5	4847.0	4822.7	4802.4	4765.5	4780.0
12°	4734.9	4775.7	4795.1	4790.7	4767.4	4794.1	4832.4	4799.4	4772.7	4738.8	4759.6
12.5°	4703.4	4749.9	4777.6	4769.8	4737.8	4769.8	4818.4	4774.2	4740.7	4709.2	4738.3
13°	4668.4	4721.8	4758.7	4746.5	4706.3	4745.1	4800.9	4746.1	4706.7	4676.2	4713.1
13.5°	4630.6	4691.7	4738.3	4722.8	4671.8	4716.0	4782.0	4716.0	4670.4	4642.2	4687.3
14°	4591.7	4659.7	4716.9	4695.6	4635.4	4685.9	4760.6	4683.0	4631.0	4606.3	4658.2
14.5°	4551.0	4625.2	4693.2	4665.0	4597.6	4652.4	4738.3	4647.5	4590.8	4568.4	4628.1
15°	4507.3	4587.9	4667.4	4632.0	4557.8	4617.9	4715.0	4611.6	4549.0	4528.7	4593.7
15.5°	4461.2	4550.0	4640.3	4598.5	4517.0	4582.0	4688.8	4574.3	4505.4	4489.8	4557.8
16°	4414.1	4509.2	4611.1	4563.6	4473.8	4545.6	4659.7	4535.9	4460.2	4446.6	4518.5
16.5°	4365.1	4467.5	4578.2	4525.7	4430.1	4507.3	4627.6	4494.7	4414.1	4403.0	4476.2
17°	4316.1	4423.8	4544.2	4486.4	4385.0	4466.5	4592.7	4451.0	4365.6	4357.3	4431.6
17.5°	4263.2	4378.2	4507.3	4446.2	4338.4	4425.3	4554.9	4407.8	4314.2	4312.2	4387.9
18°	4211.8	4333.1	4467.5	4405.4	4288.9	4383.1	4514.1	4363.2	4264.2	4263.2	4338.4
18.5°	4158.4	4285.5	4425.8	4362.2	4239.9	4339.4	4471.9	4316.6	4212.7	4213.7	4288.0
19°	4102.6	4236.5	4380.6	4318.0	4190.4	4294.3	4426.3	4268.5	4160.3	4163.7	4237.0
19.5°	4043.9	4186.5	4335.0	4271.5	4139.9	4248.2	4379.7	4220.5	4106.5	4114.7	4187.0
20°	3983.7	4134.1	4286.5	4226.3	4086.6	4200.6	4331.6	4170.5	4052.6	4060.8	4129.7
20.5°	3923.5	4083.2	4236.5	4179.2	4031.7	4152.6	4281.2	4119.6	3997.3	4007.5	4074.4
21°	3860.9	4028.8	4185.1	4131.2	3976.4	4101.6	4228.7	4068.1	3940.5	3955.0	4017.2



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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°	3685.2	3855.1	4023.0	3979.3	3810.4	3945.3	4067.6	3910.4	3770.6	3787.1	3842.0
23°	3623.6	3796.4	3966.2	3925.9	3758.0	3889.5	4009.4	3856.1	3711.9	3731.8	3780.3
23.5°	3559.5	3738.6	3908.0	3872.6	3701.7	3834.2	3953.1	3801.7	3653.2	3672.1	3718.7
24°	3497.4	3682.8	3848.8	3817.2	3645.4	3779.9	3894.4	3745.9	3594.5	3612.4	3657.1
24.5°	3433.9	3625.5	3789.6	3761.9	3589.1	3727.9	3834.7	3686.7	3535.8	3552.3	3595.5
25°	3369.3	3565.9	3728.9	3707.6	3532.9	3670.2	3772.1	3628.0	3477.0	3492.6	3533.8
25.5°	3303.3	3503.7	3667.8	3653.7	3476.6	3612.9	3711.0	3568.8	3414.4	3435.8	3472.2
26°	3236.3	3441.6	3603.7	3596.9	3417.8	3555.2	3650.3	3509.6	3352.3	3373.2	3402.3
26.5°	3168.9	3377.6	3539.6	3537.7	3356.7	3497.4	3589.1	3450.8	3287.3	3310.1	3336.8
27°	3101.0	3315.0	3475.6	3479.5	3295.5	3444.5	3528.0	3388.2	3223.2	3246.5	3268.4
27.5°	3030.6	3249.4	3409.1	3421.2	3233.9	3384.8	3466.9	3325.2	3158.2	3183.0	3200.9
28°	2959.7	3185.9	3344.1	3361.1	3171.8	3322.7	3399.4	3262.6	3092.2	3120.4	3130.6
28.5°	2887.9	3118.4	3275.2	3301.4	3109.7	3261.6	3334.4	3199.0	3024.8	3056.3	3064.1
29°	2816.6	3054.4	3207.7	3238.3	3045.6	3199.9	3265.9	3133.5	2958.8	2990.3	2996.1
29.5°	2744.8	2986.4	3140.7	3175.2	2981.6	3140.7	3196.6	3068.4	2889.4	2926.7	2928.7
30°	2672.4	2921.9	3076.2	3115.5	2915.1	3076.2	3127.2	3003.4	2821.9	2861.2	2857.3
30.5°	2605.5	2852.0	3009.2	3051.9	2849.1	3014.1	3062.1	2938.4	2755.9	2795.7	2788.9
31°	2539.5	2784.5	2941.3	2992.2	2785.0	2950.5	2995.2	2872.9	2694.3	2728.7	2717.1
31.5°	2468.1	2715.2	2873.8	2928.7	2724.4	2891.3	2926.3	2805.9	2625.4	2664.2	2646.2
32°	2405.5	2647.2	2807.8	2865.6	2657.9	2825.3	2856.9	2741.4	2566.7	2601.6	2573.9
32.5°	2352.6	2577.8	2739.4	2800.1	2593.3	2763.2	2787.5	2675.4	2501.1	2541.9	2502.6
33°	2291.5	2514.7	2669.1	2739.4	2542.4	2698.7	2715.6	2615.2	2436.6	2477.4	2431.3
33.5°	2215.8	2451.2	2599.7	2676.8	2481.7	2642.4	2646.7	2550.6	2363.3	2419.6	2360.4
34°	2141.1	2384.7	2531.2	2615.2	2415.7	2576.8	2575.9	2488.0	2286.2	2358.5	2291.5
34.5°	2055.7	2325.5	2461.8	2553.6	2347.8	2511.8	2506.0	2433.2	2205.6	2296.8	2222.6
35°	1970.7	2274.5	2393.9	2491.9	2273.5	2459.4	2436.6	2366.7	2119.2	2229.9	2154.2
35.5°	1887.3	2216.8	2323.0	2428.8	2197.4	2408.5	2369.1	2305.1	2030.9	2158.5	2088.2
36°	1806.2	2144.9	2254.1	2379.8	2112.9	2341.0	2302.2	2235.7	1942.1	2080.9	2022.7
36.5°	1716.9	2076.0	2187.7	2318.2	2027.5	2281.8	2237.1	2161.0	1851.8	2003.2	1960.1
37°	1636.9	1994.5	2121.2	2257.0	1937.7	2211.4	2171.2	2083.8	1765.9	1922.2	1898.9
37.5°	1557.3	1915.9	2056.6	2194.4	1852.8	2140.1	2108.6	2003.2	1682.5	1840.2	1840.2
38°	1477.2	1838.2	1991.6	2124.6	1765.5	2062.4	2047.9	1920.7	1599.5	1758.2	1782.0
38.5°	1397.6	1763.5	1930.5	2051.8	1682.5	1985.8	1989.2	1835.3	1520.4	1676.2	1727.6
39°	1316.1	1687.3	1869.3	1973.6	1600.5	1903.8	1932.9	1753.8	1440.8	1598.0	1676.2
39.5°	1237.5	1611.1	1811.1	1893.6	1519.9	1822.2	1876.6	1672.8	1359.8	1522.3	1631.0
40°	1161.8	1534.9	1758.2	1813.5	1438.4	1740.7	1823.7	1595.1	1278.2	1449.1	1584.9
40.5°	1086.5	1458.8	1713.5	1730.0	1358.8	1662.1	1773.7	1519.9	1198.6	1377.2	1537.4
41°	1016.2	1383.1	1668.9	1653.8	1279.2	1583.0	1730.5	1445.2	1120.5	1303.0	1506.8
41.5°	947.8	1307.3	1624.2	1577.2	1200.1	1508.3	1686.8	1371.4	1044.8	1230.7	1465.1
42°	879.8	1232.6	1579.6	1501.0	1122.0	1433.5	1638.3	1298.1	972.5	1157.9	1415.6
42.5°	812.4	1157.9	1534.9	1424.8	1045.3	1361.7	1601.9	1224.4	904.1	1086.5	1367.0
43°	748.3	1088.0	1490.8	1352.5	973.5	1286.5	1571.3	1150.1	836.6	1016.7	1303.5
43.5°	686.7	1021.0	1444.2	1280.2	903.6	1211.7	1523.8	1076.4	772.1	948.7	1238.9



TEST NUMBER: P776724

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	518.8	825.0	1288.4	1064.7	709.0	998.7	1374.8	875.9	591.6	760.4	1042.4
45.5°	466.8	762.9	1231.6	996.3	648.8	930.8	1315.1	814.3	535.8	700.3	976.4
46°	417.8	702.2	1171.0	929.3	591.1	865.7	1252.0	752.2	489.2	642.0	912.3
46.5°	371.2	643.5	1110.3	865.7	534.3	804.1	1186.0	693.0	442.6	586.2	849.7
47°	326.6	586.7	1048.2	803.6	487.2	741.5	1115.7	635.7	396.0	534.8	789.6
47.5°	284.4	532.8	985.6	744.4	439.7	682.3	1046.8	580.4	349.4	488.7	729.4
48°	246.0	480.4	920.6	686.7	392.6	624.6	980.8	527.0	303.3	442.6	673.1
48.5°	212.1	432.9	856.0	629.9	345.5	569.7	916.7	481.9	265.4	396.5	618.2
49°	182.0	385.3	792.0	574.6	298.4	514.4	854.6	436.8	231.0	350.9	565.4
49.5°	162.1	340.7	733.3	522.2	260.6	467.3	793.9	391.6	199.0	304.8	514.4
50°	143.2	298.4	674.5	472.7	225.7	419.8	736.7	346.5	169.4	267.4	469.8
50.5°	123.7	260.6	620.7	425.6	193.1	372.7	681.3	301.4	143.6	231.5	425.1
51°	104.3	224.7	566.3	379.0	163.5	325.6	628.4	262.1	118.9	199.5	380.5
51.5°	85.4	192.7	516.8	335.8	137.3	285.3	574.6	228.1	97.5	168.4	335.3
52°	70.9	164.0	467.8	296.0	113.1	247.5	522.2	194.6	81.5	141.2	298.0
52.5°	57.3	144.6	423.2	258.7	90.7	212.1	477.0	165.5	65.5	116.0	262.1
53°	43.7	125.2	379.5	223.2	75.7	180.0	431.9	136.8	49.5	94.6	229.1
53.5°	30.6	105.8	337.3	191.2	60.7	150.4	386.3	113.1	33.0	78.6	198.5
54°	20.9	86.4	297.5	161.1	45.1	124.7	341.2	90.7	17.5	62.6	171.3
54.5°	18.4	72.3	262.5	137.3	30.1	100.9	296.0	75.7	16.0	46.6	146.1
55°	17.0	58.2	228.6	113.6	15.5	84.0	260.6	60.2	15.0	31.1	123.3
55.5°	15.0	45.1	198.5	89.8	14.6	67.0	225.2	45.1	14.6	16.0	103.4
56°	13.6	32.0	170.8	66.5	14.1	50.5	193.1	29.6	14.1	14.6	85.9
56.5°	13.1	21.4	150.4	48.0	13.6	34.0	163.5	14.6	13.6	14.1	70.9
57°	12.6	19.4	130.1	32.0	13.1	17.0	137.3	13.6	13.1	13.6	61.6
57.5°	12.1	17.5	110.2	18.9	12.6	14.1	113.1	13.6	12.6	13.1	52.4
58°	11.6	15.5	89.8	17.0	12.1	13.6	92.2	13.1	12.6	12.6	43.2
58.5°	11.2	14.1	69.4	15.0	11.6	13.1	74.2	12.6	12.1	12.1	34.5
59°	11.2	12.1	56.3	13.6	11.2	12.6	64.1	12.1	11.6	11.6	25.2
59.5°	10.7	11.6	45.6	11.6	11.2	12.1	53.9	11.6	11.2	11.6	20.4
60°	10.2	11.2	36.9	11.2	10.7	11.6	43.7	11.2	10.7	11.2	17.0
60.5°	9.7	11.2	30.1	11.2	10.2	11.2	34.0	11.2	10.7	10.7	14.1
61°	9.7	10.7	24.3	10.7	9.7	11.2	23.8	10.7	10.2	10.2	12.1
61.5°	9.2	10.2	19.9	10.2	9.7	10.7	19.4	10.2	9.7	10.2	10.7
62°	9.2	10.2	18.0	10.2	9.2	10.2	16.0	10.2	9.2	9.7	10.2
62.5°	8.7	9.7	16.0	9.7	8.7	10.2	13.6	9.7	9.2	9.2	9.7
63°	8.2	9.2	13.6	9.2	8.7	9.7	11.6	9.2	8.7	9.2	9.2
63.5°	8.2	9.2	11.6	9.2	8.2	9.2	10.7	9.2	8.7	8.7	8.7
64°	7.8	8.7	9.7	8.7	8.2	9.2	9.7	8.7	8.2	8.2	8.7
64.5°	7.8	8.2	9.2	8.7	7.8	8.7	9.7	8.7	7.8	8.2	8.2
65°	7.3	8.2	9.2	8.2	7.3	8.2	9.2	8.2	7.8	7.8	8.2
65.5°	7.3	7.8	8.7	7.8	7.3	8.2	8.7	7.8	7.3	7.8	7.8
66°	6.8	7.8	8.2	7.8	6.8	7.8	8.7	7.8	7.3	7.3	7.8





TEST NUMBER: P776724

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	6.3	6.8	7.8	6.8	6.3	7.3	7.8	6.8	6.3	6.8	6.8
68°	5.8	6.8	7.3	6.8	5.8	6.8	7.3	6.8	6.3	6.3	6.3
68.5°	5.8	6.3	7.3	6.3	5.8	6.3	7.3	6.3	5.8	5.8	6.3
69°	5.3	6.3	6.8	6.3	5.3	6.3	6.8	6.3	5.8	5.8	5.8
69.5°	5.3	5.8	6.8	6.3	5.3	5.8	6.8	5.8	5.3	5.3	5.8
70°	4.9	5.8	6.3	5.8	5.3	5.8	6.3	5.8	5.3	5.3	5.3
70.5°	4.9	5.3	6.3	5.8	4.9	5.8	6.3	5.3	4.9	5.3	5.3
71°	4.9	5.3	5.8	5.3	4.9	5.3	5.8	5.3	4.9	4.9	4.9
71.5°	4.4	4.9	5.8	5.3	4.4	5.3	5.8	4.9	4.4	4.9	4.9
72°	4.4	4.9	5.3	4.9	4.4	4.9	5.3	4.9	4.4	4.4	4.4
72.5°	3.9	4.4	5.3	4.9	4.4	4.9	5.3	4.9	4.4	4.4	4.4
73°	3.9	4.4	4.9	4.9	3.9	4.4	4.9	4.4	3.9	3.9	4.4
73.5°	3.9	4.4	4.9	4.4	3.9	4.4	4.9	4.4	3.9	3.9	3.9
74°	3.4	3.9	4.4	4.4	3.9	4.4	4.4	3.9	3.9	3.9	3.9
74.5°	3.4	3.9	4.4	3.9	3.4	3.9	4.4	3.9	3.4	3.4	3.4
75°	3.4	3.4	3.9	3.9	3.4	3.9	4.4	3.9	3.4	3.4	3.4
75.5°	2.9	3.4	3.9	3.9	3.4	3.9	3.9	3.4	3.4	3.4	2.9
76°	2.9	3.4	3.9	3.4	3.4	3.4	3.9	3.4	2.9	2.9	2.9
76.5°	2.9	2.9	3.4	3.4	2.9	3.4	3.4	3.4	2.9	2.9	2.9
77°	2.9	2.9	3.4	3.4	2.9	3.4	3.4	2.9	2.9	2.9	2.4
77.5°	2.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.4	2.4	2.4
78°	2.4	2.4	2.9	2.9	2.4	2.9	2.9	2.4	2.4	2.4	1.9
78.5°	2.4	2.4	2.4	2.9	2.4	2.9	2.9	2.4	2.4	2.4	1.9
79°	1.9	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	1.9	1.9
79.5°	1.9	2.4	2.4	2.4	2.4	2.4	2.4	1.9	1.9	1.9	1.5
80°	1.9	1.9	1.9	2.4	1.9	2.4	2.4	1.9	1.9	1.9	1.5
80.5°	1.9	1.9	1.9	1.9	1.9	2.4	1.9	1.9	1.9	1.5	1.5
81°	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.5	1.5	1.5
81.5°	1.5	1.5	1.5	1.9	1.9	1.9	1.9	1.5	1.5	1.5	1.0
82°	1.5	1.5	1.5	1.9	1.5	1.9	1.5	1.5	1.5	1.0	1.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0
83°	1.0	1.5	1.5	1.5	1.5	1.5	1.5	1.0	1.0	1.0	1.0
83.5°	1.0	1.0	1.0	1.5	1.5	1.5	1.0	1.0	1.0	0.5	1.0
84°	1.0	1.0	1.0	1.5	1.0	1.5	1.0	1.0	1.0	0.5	0.5
84.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	1.0	0.5	0.5
85°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
85.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5
86°	0.5	0.5	0.5	1.0	1.0	1.0	0.5	0.5	0.5	0.0	0.5
86.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0
87°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
88°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
88.5°	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P776724  
CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

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



TEST NUMBER: P776724

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	5029.9	5029.9	5029.9	5029.9	5029.9	5029.9
0.5°	5025.1	5022.7	5025.1	5027.5	5032.4	5030.4
1°	5019.3	5019.3	5020.7	5022.2	5028.5	5027.5
1.5°	5013.4	5013.9	5014.9	5016.4	5024.6	5022.7
2°	5006.2	5007.6	5007.1	5009.1	5019.3	5017.3
2.5°	4997.9	4999.9	4999.4	4999.9	5010.5	5009.6
3°	4988.7	4991.6	4990.2	4990.2	5002.8	5002.3
3.5°	4980.0	4981.9	4979.5	4979.5	4992.1	4992.1
4°	4970.7	4974.1	4969.3	4967.8	4980.9	4981.9
4.5°	4962.0	4965.9	4959.1	4954.2	4969.8	4972.2
5°	4952.3	4957.2	4949.4	4940.7	4958.6	4963.9
5.5°	4941.6	4948.9	4938.7	4928.0	4947.9	4954.7
6°	4930.0	4939.7	4927.6	4915.9	4937.3	4945.0
6.5°	4918.8	4929.5	4915.9	4904.3	4925.6	4934.8
7°	4905.7	4918.3	4903.8	4892.6	4913.5	4925.6
7.5°	4892.1	4906.2	4889.7	4880.0	4900.4	4913.0
8°	4877.1	4892.6	4874.7	4866.4	4887.3	4901.8
8.5°	4860.1	4876.6	4858.6	4852.8	4872.7	4887.3
9°	4840.7	4857.2	4841.2	4838.3	4857.2	4870.8
9.5°	4820.8	4837.3	4822.2	4824.2	4839.7	4852.8
10°	4798.5	4816.4	4801.4	4808.2	4822.2	4834.4
10.5°	4773.7	4790.7	4778.1	4791.7	4803.3	4814.5
11°	4747.5	4764.0	4753.8	4774.2	4782.9	4790.7
11.5°	4719.4	4733.4	4727.6	4754.8	4761.1	4763.5
12°	4688.8	4700.4	4698.0	4733.9	4736.8	4734.9
12.5°	4655.8	4665.0	4666.5	4710.6	4709.2	4703.4
13°	4620.9	4628.6	4632.0	4686.9	4680.1	4668.4
13.5°	4584.0	4588.8	4596.6	4661.1	4649.0	4630.6
14°	4545.6	4546.6	4559.2	4633.5	4615.0	4591.7
14.5°	4506.3	4502.9	4519.9	4603.4	4580.1	4551.0
15°	4464.6	4457.3	4478.2	4569.9	4541.3	4507.3
15.5°	4421.9	4410.2	4434.5	4534.5	4501.5	4461.2
16°	4376.8	4361.7	4389.9	4496.1	4459.7	4414.1
16.5°	4330.7	4310.3	4343.8	4455.9	4416.6	4365.1
17°	4283.6	4258.8	4297.7	4413.6	4372.4	4316.1
17.5°	4235.5	4205.9	4248.6	4367.5	4324.8	4263.2
18°	4185.1	4153.0	4197.7	4321.0	4277.3	4211.8
18.5°	4137.0	4096.8	4146.2	4271.9	4228.3	4158.4
19°	4084.1	4039.0	4094.8	4221.0	4178.3	4102.6
19.5°	4031.7	3980.3	4041.4	4168.1	4126.8	4043.9
20°	3975.4	3920.6	3987.6	4113.7	4073.9	3983.7
20.5°	3921.1	3858.5	3928.8	4054.0	4020.6	3923.5
21°	3863.8	3798.3	3872.6	3998.7	3963.8	3860.9

TEST NUMBER: P776724

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	3691.1	3615.4	3694.0	3816.3	3785.7	3685.2
23°	3633.3	3552.7	3635.7	3757.5	3724.5	3623.6
23.5°	3575.1	3489.7	3577.5	3693.0	3665.8	3559.5
24°	3516.8	3424.1	3513.9	3628.5	3609.0	3497.4
24.5°	3458.6	3358.2	3450.4	3560.5	3550.3	3433.9
25°	3394.1	3291.2	3386.8	3497.4	3485.8	3369.3
25.5°	3328.1	3224.2	3321.3	3429.5	3422.7	3303.3
26°	3262.6	3154.8	3255.8	3360.1	3357.7	3236.3
26.5°	3197.0	3086.9	3190.2	3286.3	3294.6	3168.9
27°	3129.6	3015.5	3124.7	3219.8	3226.6	3101.0
27.5°	3061.2	2943.7	3055.3	3149.0	3160.6	3030.6
28°	2993.2	2871.4	2986.9	3076.7	3092.2	2959.7
28.5°	2923.8	2798.6	2919.0	3006.8	3024.8	2887.9
29°	2853.5	2725.3	2849.1	2937.9	2955.9	2816.6
29.5°	2782.6	2654.5	2779.2	2870.9	2889.4	2744.8
30°	2712.2	2586.6	2708.4	2802.5	2819.0	2672.4
30.5°	2642.8	2520.6	2638.5	2733.1	2749.6	2605.5
31°	2573.0	2449.2	2569.1	2661.8	2679.2	2539.5
31.5°	2507.9	2387.6	2500.2	2589.5	2610.8	2468.1
32°	2442.9	2331.8	2436.1	2517.2	2540.9	2405.5
32.5°	2375.0	2258.5	2372.1	2445.3	2472.0	2352.6
33°	2315.8	2188.6	2302.7	2374.5	2409.4	2291.5
33.5°	2260.9	2103.2	2247.3	2301.7	2343.9	2215.8
34°	2190.6	2015.9	2191.0	2229.9	2277.4	2141.1
34.5°	2125.5	1931.4	2118.7	2158.5	2223.6	2055.7
35°	2045.5	1848.0	2050.3	2088.7	2169.7	1970.7
35.5°	1964.9	1768.9	1968.8	2020.2	2102.2	1887.3
36°	1885.3	1686.4	1888.7	1954.7	2036.7	1806.2
36.5°	1807.7	1603.4	1811.6	1888.7	1960.5	1716.9
37°	1730.5	1520.4	1732.5	1826.6	1881.4	1636.9
37.5°	1654.8	1437.9	1657.7	1766.4	1801.4	1557.3
38°	1579.1	1354.9	1582.5	1714.5	1716.4	1477.2
38.5°	1501.5	1273.9	1507.8	1662.6	1646.1	1397.6
39°	1422.8	1194.8	1433.0	1610.7	1575.2	1316.1
39.5°	1344.7	1120.5	1357.3	1558.7	1504.9	1237.5
40°	1267.6	1048.7	1279.7	1506.8	1434.0	1161.8
40.5°	1194.3	979.8	1205.9	1463.6	1358.3	1086.5
41°	1122.9	909.9	1132.6	1426.2	1283.6	1016.2
41.5°	1054.0	842.9	1065.2	1385.0	1208.8	947.8
42°	986.6	775.5	998.2	1347.1	1137.5	879.8
42.5°	920.6	715.8	935.1	1307.3	1069.6	812.4
43°	856.0	656.1	871.6	1246.7	1004.0	748.3
43.5°	793.9	599.3	809.0	1189.4	939.5	686.7



TEST NUMBER: P776724

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	616.8	443.5	632.8	997.7	756.1	518.8
45.5°	561.5	396.0	578.0	939.5	696.9	466.8
46°	509.1	350.9	526.5	881.3	640.6	417.8
46.5°	462.5	307.2	477.5	823.5	585.7	371.2
47°	415.9	267.4	430.4	765.8	533.8	326.6
47.5°	369.8	230.5	383.9	712.9	484.3	284.4
48°	323.2	198.5	341.2	658.5	436.3	246.0
48.5°	282.9	170.3	301.4	606.6	389.7	212.1
49°	245.1	151.9	263.5	557.1	347.5	182.0
49.5°	210.6	133.5	229.1	509.5	306.2	162.1
50°	181.0	115.0	197.0	463.9	267.4	143.2
50.5°	154.8	96.6	168.4	421.2	231.0	123.7
51°	132.0	78.6	149.5	381.4	199.9	104.3
51.5°	112.1	64.5	130.5	343.6	171.8	85.4
52°	95.1	51.0	111.6	307.7	152.4	70.9
52.5°	80.1	37.9	92.2	274.7	133.0	57.3
53°	67.5	25.2	73.8	242.6	114.0	43.7
53.5°	54.8	16.5	59.7	213.0	94.6	30.6
54°	42.2	15.0	46.1	185.9	75.7	20.9
54.5°	29.6	14.1	33.5	161.1	61.6	18.4
55°	17.5	13.1	21.8	138.3	48.0	17.0
55.5°	13.1	12.1	19.4	121.8	34.9	15.0
56°	12.6	11.6	17.5	105.3	23.3	13.6
56.5°	12.1	11.2	15.0	89.3	15.0	13.1
57°	11.6	10.7	12.6	72.8	14.1	12.6
57.5°	11.2	10.2	10.2	56.3	13.6	12.1
58°	10.7	10.2	10.2	45.1	12.6	11.6
58.5°	10.7	9.7	9.7	35.9	11.6	11.2
59°	10.2	9.2	9.7	28.6	11.2	11.2
59.5°	9.7	9.2	9.2	23.3	11.2	10.7
60°	9.7	8.7	8.7	18.4	10.7	10.2
60.5°	9.2	8.2	8.7	16.5	10.2	9.7
61°	8.7	8.2	8.2	14.1	10.2	9.7
61.5°	8.7	7.8	8.2	11.6	9.7	9.2
62°	8.2	7.8	7.8	9.2	9.2	9.2
62.5°	8.2	7.3	7.8	8.7	9.2	8.7
63°	7.8	7.3	7.3	8.7	8.7	8.2
63.5°	7.3	6.8	7.3	8.2	8.7	8.2
64°	7.3	6.8	6.8	8.2	8.2	7.8
64.5°	6.8	6.3	6.8	7.8	7.8	7.8
65°	6.8	6.3	6.3	7.8	7.8	7.3
65.5°	6.3	5.8	6.3	7.3	7.3	7.3
66°	6.3	5.8	5.8	7.3	7.3	6.8



TEST NUMBER: P776724

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	5.8	4.9	5.3	6.3	6.3	6.3
68°	5.3	4.9	5.3	6.3	6.3	5.8
68.5°	5.3	4.9	4.9	5.8	5.8	5.8
69°	4.9	4.4	4.9	5.8	5.8	5.3
69.5°	4.9	4.4	4.9	5.3	5.8	5.3
70°	4.4	3.9	4.4	5.3	5.3	4.9
70.5°	4.4	3.9	4.4	5.3	5.3	4.9
71°	4.4	3.9	3.9	4.9	4.9	4.9
71.5°	3.9	3.4	3.9	4.9	4.9	4.4
72°	3.9	3.4	3.9	4.4	4.4	4.4
72.5°	3.4	3.4	3.4	4.4	4.4	3.9
73°	3.4	3.4	3.4	3.9	4.4	3.9
73.5°	3.4	2.9	3.4	3.9	3.9	3.9
74°	2.9	2.9	3.4	3.9	3.9	3.4
74.5°	2.9	2.9	2.9	3.4	3.9	3.4
75°	2.9	2.9	2.9	3.4	3.4	3.4
75.5°	2.9	2.4	2.9	2.9	3.4	2.9
76°	2.4	2.4	2.4	2.9	2.9	2.9
76.5°	2.4	2.4	2.4	2.9	2.9	2.9
77°	2.4	2.4	2.4	2.4	2.9	2.9
77.5°	1.9	1.9	2.4	2.4	2.4	2.4
78°	1.9	1.9	1.9	2.4	2.4	2.4
78.5°	1.9	1.9	1.9	1.9	2.4	2.4
79°	1.9	1.9	1.9	1.9	2.4	1.9
79.5°	1.5	1.5	1.9	1.9	1.9	1.9
80°	1.5	1.5	1.5	1.5	1.9	1.9
80.5°	1.5	1.5	1.5	1.5	1.9	1.9
81°	1.5	1.5	1.5	1.5	1.5	1.5
81.5°	1.0	1.5	1.5	1.5	1.5	1.5
82°	1.0	1.0	1.0	1.0	1.5	1.5
82.5°	1.0	1.0	1.0	1.0	1.0	1.5
83°	1.0	1.0	1.0	1.0	1.0	1.0
83.5°	1.0	1.0	1.0	1.0	1.0	1.0
84°	0.5	1.0	1.0	0.5	1.0	1.0
84.5°	0.5	0.5	0.5	0.5	0.5	1.0
85°	0.5	0.5	0.5	0.5	0.5	0.5
85.5°	0.5	0.5	0.5	0.5	0.5	0.5
86°	0.5	0.5	0.5	0.5	0.5	0.5
86.5°	0.0	0.5	0.5	0.5	0.5	0.5
87°	0.0	0.0	0.0	0.0	0.0	0.5
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: P776724

CATALOG NUMBER: HCDJBL54050CSD-HCD6TSQC-5000lm-5000K

**CANDELA DISTRIBUTION (continued):**

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

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

Scaled Data Report





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

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Peachtree City, GA 30269

Scaled Data Report



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Peachtree City, GA 30269

Scaled Data Report





21.5°	3801.7	3972.0	4131.7	4082.2	3920.6	4049.7	4176.8	4016.7	3885.2	3901.7	3961.8
22°	3743.5	3914.3	4077.3	4031.2	3864.8	3997.8	4123.0	3964.8	3830.8	3842.9	3901.7



44°	627.5	955.5	1405.4	1208.4	835.2	1139.0	1481.1	1007.0	710.0	883.7	1174.4
44.5°	571.7	889.0	1347.1	1135.6	772.1	1069.6	1431.1	941.0	649.3	821.1	1108.4



66.5°	6.8	7.3	8.2	7.3	6.8	7.8	8.2	7.3	6.8	7.3	7.3
67°	6.3	7.3	7.8	7.3	6.3	7.3	8.2	7.3	6.8	6.8	6.8



89°	0.0	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	0.0



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Scaled Data Report



21.5°	3806.1	3739.6	3812.9	3940.0	3905.5	3801.7
22°	3749.3	3679.4	3754.6	3880.3	3844.4	3743.5



44°	732.8	543.5	746.8	1126.3	878.4	627.5
44.5°	672.1	493.0	689.1	1062.3	816.2	571.7

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66.5°	6.3	5.3	5.8	6.8	6.8	6.8
67°	5.8	5.3	5.8	6.8	6.8	6.3

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

Scaled Data Report



(END OF REPORT)