

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: P775921

Luminaire Tested: HCDJBL51525CSD-HCD42TRMW-2000lm-3000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775921  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ( A2312156A001)  
Test Lab:  
Issue Date: 2/13/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO COMMERCIAL  
Catalog Number: HCDJBS1525CSD-HCD42TRMW-2000lm-3000K  
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

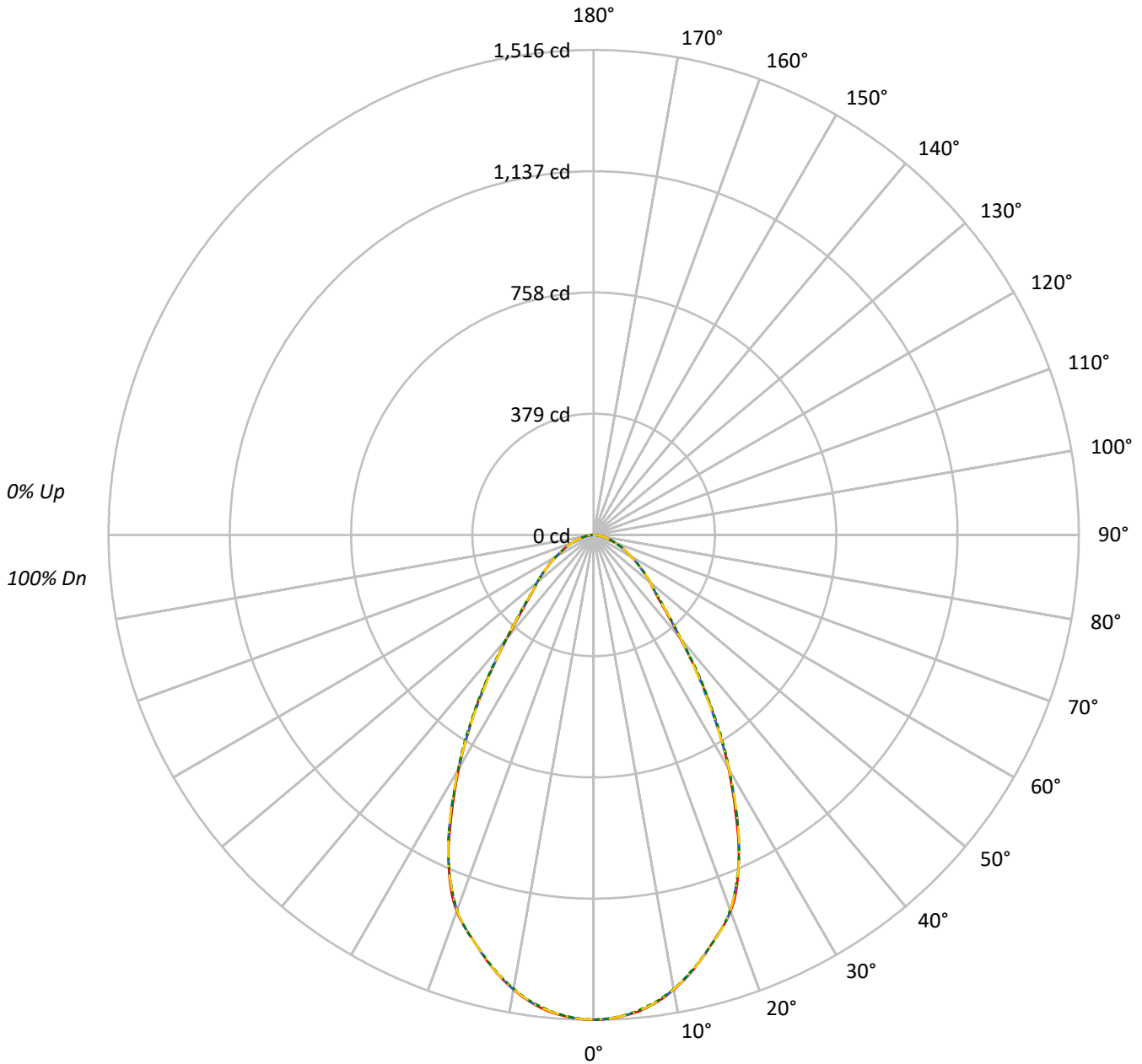
Lumens per Lamp: N/A  
Luminaire Lumens: 1956.8 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 20  
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: P775921  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-3000K

**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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89								
2	104	98	93	88	102	96	91	87	93	89	85	90	86	83	87	84	82	80								
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	80	76	73	71								
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64								
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58								
6	80	69	62	57	78	68	61	56	67	60	56	65	60	55	64	59	55	53								
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49								
8	71	60	52	48	70	59	52	47	58	52	47	57	51	47	56	51	47	45								
9	67	56	49	44	66	55	48	44	54	48	44	53	48	44	52	47	43	42								
10	63	52	45	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39								

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

	0°	90°	180°	270°
0°	190713	190713	190713	190713
5°	189369	188953	189369	188953
10°	184479	184058	184479	184058
15°	176320	176099	176320	176099
20°	167649	167047	167649	167047
25°	148802	149274	148802	149274
30°	122417	123071	122417	123071
35°	94977	96006	94977	96006
40°	68983	70183	68983	70183
45°	52237	53536	52237	53536
50°	44972	45344	44972	45344
55°	39099	39538	39099	39538
60°	34181	34483	34181	34483
65°	30047	30285	30047	30285
70°	26493	26677	26493	26677
75°	23291	23291	23291	23291
80°	20148	20003	20148	20003
85°	16172	16172	16172	16172

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 53536 cd/sqm



TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRMW-2000lm-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.2	7.2
10°-20°	380.1	19.4
20°-30°	486.8	24.9
30°-40°	385.8	19.7
40°-50°	236.2	12.1
50°-60°	161.5	8.3
60°-70°	101.1	5.2
70°-80°	51.2	2.6
80°-90°	12.9	0.7
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°	1008.1	51.5
0°-40°	1393.9	71.2
0°-60°	1791.6	91.6
0°-90°	1956.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1956.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1515	1515	1515	1515	1515	
5°	1499	1496	1499	1496	1499	141
15°	1353	1352	1353	1352	1353	380
25°	1072	1075	1072	1075	1072	486
35°	618	625	618	625	618	385
45°	294	301	294	301	294	233
55°	178	180	178	180	178	161
65°	101	102	101	102	101	101
75°	48	48	48	48	48	51
85°	11	11	11	11	11	13
90°	0	1	0	1	0	



TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2000lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4
0.5°	1515.6	1515.4	1515.0	1514.8	1514.2	1514.8	1515.0	1515.4	1515.6	1515.4	1515.0
1°	1515.0	1514.8	1514.6	1514.4	1513.6	1514.4	1514.6	1514.8	1515.0	1514.8	1514.6
1.5°	1514.2	1513.8	1513.8	1513.4	1512.8	1513.4	1513.8	1513.8	1514.2	1513.8	1513.8
2°	1513.0	1512.8	1512.4	1512.2	1511.3	1512.2	1512.4	1512.8	1513.0	1512.8	1512.4
2.5°	1511.6	1511.1	1510.7	1510.5	1509.5	1510.5	1510.7	1511.1	1511.6	1511.1	1510.7
3°	1509.5	1509.1	1508.7	1508.3	1507.3	1508.3	1508.7	1509.1	1509.5	1509.1	1508.7
3.5°	1507.3	1506.9	1506.3	1505.9	1505.3	1505.9	1506.3	1506.9	1507.3	1506.9	1506.3
4°	1504.7	1504.4	1503.6	1503.2	1502.2	1503.2	1503.6	1504.4	1504.7	1504.4	1503.6
4.5°	1501.8	1501.4	1500.6	1500.2	1499.0	1500.2	1500.6	1501.4	1501.8	1501.4	1500.6
5°	1499.0	1498.4	1497.5	1497.1	1495.7	1497.1	1497.5	1498.4	1499.0	1498.4	1497.5
5.5°	1495.9	1494.5	1493.5	1493.1	1491.9	1493.1	1493.5	1494.5	1495.9	1494.5	1493.5
6°	1491.3	1490.4	1489.4	1488.8	1487.2	1488.8	1489.4	1490.4	1491.3	1490.4	1489.4
6.5°	1486.6	1486.0	1484.8	1484.2	1482.5	1484.2	1484.8	1486.0	1486.6	1486.0	1484.8
7°	1481.7	1480.9	1480.3	1479.3	1477.9	1479.3	1480.3	1480.9	1481.7	1480.9	1480.3
7.5°	1476.2	1475.4	1474.6	1474.2	1472.8	1474.2	1474.6	1475.4	1476.2	1475.4	1474.6
8°	1470.4	1469.7	1468.9	1468.3	1467.5	1468.3	1468.9	1469.7	1470.4	1469.7	1468.9
8.5°	1464.3	1463.5	1462.6	1462.0	1461.2	1462.0	1462.6	1463.5	1464.3	1463.5	1462.6
9°	1457.8	1457.2	1456.1	1455.5	1454.7	1455.5	1456.1	1457.2	1457.8	1457.2	1456.1
9.5°	1450.7	1450.3	1449.2	1448.6	1447.8	1448.6	1449.2	1450.3	1450.7	1450.3	1449.2
10°	1443.6	1443.0	1442.1	1441.3	1440.3	1441.3	1442.1	1443.0	1443.6	1443.0	1442.1
10.5°	1435.6	1435.2	1434.2	1433.6	1432.8	1433.6	1434.2	1435.2	1435.6	1435.2	1434.2
11°	1427.7	1427.3	1426.5	1425.7	1424.7	1425.7	1426.5	1427.3	1427.7	1427.3	1426.5
11.5°	1419.4	1419.0	1418.2	1417.4	1416.6	1417.4	1418.2	1419.0	1419.4	1419.0	1418.2
12°	1410.9	1410.5	1409.9	1408.9	1408.0	1408.9	1409.9	1410.5	1410.9	1410.5	1409.9
12.5°	1402.0	1401.6	1400.9	1399.9	1398.9	1399.9	1400.9	1401.6	1402.0	1401.6	1400.9
13°	1392.8	1392.4	1391.8	1391.0	1390.0	1391.0	1391.8	1392.4	1392.8	1392.4	1391.8
13.5°	1383.3	1382.9	1382.5	1381.7	1380.9	1381.7	1382.5	1382.9	1383.3	1382.9	1382.5
14°	1373.5	1373.3	1372.9	1372.1	1371.3	1372.1	1372.9	1373.3	1373.5	1373.3	1372.9
14.5°	1363.4	1363.2	1363.0	1362.2	1361.4	1362.2	1363.0	1363.2	1363.4	1363.2	1363.0
15°	1353.3	1353.3	1352.8	1352.4	1351.6	1352.4	1352.8	1353.3	1353.3	1353.3	1352.8
15.5°	1342.7	1342.7	1343.1	1342.7	1342.3	1342.7	1343.1	1342.7	1342.7	1342.7	1343.1
16°	1332.6	1332.8	1333.4	1333.2	1332.8	1333.2	1333.4	1332.8	1332.6	1332.8	1333.4
16.5°	1322.4	1322.8	1323.6	1323.6	1323.4	1323.6	1323.6	1322.8	1322.4	1322.8	1323.6
17°	1312.9	1313.3	1314.1	1313.9	1314.1	1313.9	1314.1	1313.3	1312.9	1313.3	1314.1
17.5°	1303.5	1303.9	1304.5	1304.3	1304.1	1304.3	1304.5	1303.9	1303.5	1303.9	1304.5
18°	1294.4	1294.6	1295.0	1294.6	1294.2	1294.6	1295.0	1294.6	1294.4	1294.6	1295.0
18.5°	1284.7	1284.7	1284.7	1284.2	1283.6	1284.2	1284.7	1284.7	1284.7	1284.7	1284.7
19°	1274.7	1274.1	1273.7	1273.1	1272.5	1273.1	1273.7	1274.1	1274.7	1274.1	1273.7
19.5°	1263.8	1262.9	1261.7	1261.3	1260.7	1261.3	1261.7	1262.9	1263.8	1262.9	1261.7
20°	1251.8	1250.8	1248.5	1248.7	1247.3	1248.7	1248.5	1250.8	1251.8	1250.8	1248.5
20.5°	1238.6	1237.0	1234.3	1235.1	1233.5	1235.1	1234.3	1237.0	1238.6	1237.0	1234.3
21°	1224.8	1222.4	1219.3	1220.3	1218.3	1220.3	1219.3	1222.4	1224.8	1222.4	1219.3



TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1174.3	1171.8	1169.8	1169.6	1168.6	1169.6	1169.8	1171.8	1174.3	1171.8	1169.8
23°	1155.0	1152.9	1152.5	1151.1	1150.7	1151.1	1152.5	1152.9	1155.0	1152.9	1152.5
23.5°	1135.3	1133.5	1134.5	1132.0	1133.1	1132.0	1134.5	1133.5	1135.3	1133.5	1134.5
24°	1114.8	1113.4	1115.8	1112.6	1114.4	1112.6	1115.8	1113.4	1114.8	1113.4	1115.8
24.5°	1093.7	1093.1	1096.1	1092.9	1095.3	1092.9	1096.1	1093.1	1093.7	1093.1	1096.1
25°	1071.6	1072.0	1075.6	1073.2	1075.0	1073.2	1075.6	1072.0	1071.6	1072.0	1075.6
25.5°	1048.6	1051.3	1054.5	1053.5	1053.9	1053.5	1054.5	1051.3	1048.6	1051.3	1054.5
26°	1025.1	1029.8	1032.8	1033.0	1031.4	1033.0	1032.8	1029.8	1025.1	1029.8	1032.8
26.5°	1000.9	1007.8	1010.3	1011.7	1008.0	1011.7	1010.3	1007.8	1000.9	1007.8	1010.3
27°	977.4	985.1	987.5	989.8	984.3	989.8	987.5	985.1	977.4	985.1	987.5
27.5°	954.3	961.6	964.4	967.2	960.1	967.2	964.4	961.6	954.3	961.6	964.4
28°	931.1	938.0	940.9	943.7	936.0	943.7	940.9	938.0	931.1	938.0	940.9
28.5°	908.6	914.1	917.3	919.8	912.7	919.8	917.3	914.1	908.6	914.1	917.3
29°	886.3	889.9	893.8	895.4	890.5	895.4	893.8	889.9	886.3	889.9	893.8
29.5°	864.4	866.2	870.4	871.0	868.8	871.0	870.4	866.2	864.4	866.2	870.4
30°	842.4	841.8	846.5	846.7	846.9	846.7	846.5	841.8	842.4	841.8	846.5
30.5°	819.7	818.3	822.7	823.2	826.2	823.2	822.7	818.3	819.7	818.3	822.7
31°	797.2	794.1	798.8	799.6	804.3	799.6	798.8	794.1	797.2	794.1	798.8
31.5°	774.0	771.0	774.9	776.3	782.2	776.3	774.9	771.0	774.0	771.0	774.9
32°	750.5	747.7	751.1	753.3	759.4	753.3	751.1	747.7	750.5	747.7	751.1
32.5°	727.8	725.3	727.8	730.6	736.7	730.6	727.8	725.3	727.8	725.3	727.8
33°	704.8	703.0	703.8	707.9	713.6	707.9	703.8	703.0	704.8	703.0	703.8
33.5°	684.3	680.7	680.1	685.1	690.2	685.1	680.1	680.7	684.3	680.7	680.1
34°	662.2	658.4	656.5	662.8	668.1	662.8	656.5	658.4	662.2	658.4	656.5
34.5°	640.3	636.2	633.6	640.3	646.2	640.3	633.6	636.2	640.3	636.2	633.6
35°	618.2	614.7	611.9	618.6	624.9	618.6	611.9	614.7	618.2	614.7	611.9
35.5°	596.7	593.4	590.4	597.1	604.0	597.1	590.4	593.4	596.7	593.4	590.4
36°	575.6	572.1	569.5	576.4	583.5	576.4	569.5	572.1	575.6	572.1	569.5
36.5°	554.7	551.6	549.2	555.9	562.6	555.9	549.2	551.6	554.7	551.6	549.2
37°	533.5	531.3	529.3	536.0	541.9	536.0	529.3	531.3	533.5	531.3	529.3
37.5°	513.1	511.6	510.2	516.9	521.2	516.9	510.2	511.6	513.1	511.6	510.2
38°	492.8	492.6	491.9	498.2	500.7	498.2	491.9	492.6	492.8	492.6	491.9
38.5°	473.7	474.1	474.5	480.0	481.0	480.0	474.5	474.1	473.7	474.1	474.5
39°	455.2	456.2	457.0	462.3	462.1	462.3	457.0	456.2	455.2	456.2	457.0
39.5°	437.1	439.0	440.4	444.9	444.3	444.9	440.4	439.0	437.1	439.0	440.4
40°	419.9	421.9	424.4	428.0	427.2	428.0	424.4	421.9	419.9	421.9	424.4
40.5°	403.7	405.7	408.9	411.6	411.4	411.6	408.9	405.7	403.7	405.7	408.9
41°	388.0	390.1	394.3	396.2	396.8	396.2	394.3	390.1	388.0	390.1	394.3
41.5°	373.2	375.5	380.3	381.3	383.2	381.3	380.3	375.5	373.2	375.5	380.3
42°	359.4	361.7	366.9	367.5	370.0	367.5	366.9	361.7	359.4	361.7	366.9
42.5°	346.4	348.7	354.3	354.5	357.2	354.5	354.3	348.7	346.4	348.7	354.3
43°	334.1	336.5	342.0	342.4	344.8	342.4	342.0	336.5	334.1	336.5	342.0
43.5°	322.7	325.1	330.4	330.6	332.8	330.6	330.4	325.1	322.7	325.1	330.4



TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	293.5	295.5	298.7	299.8	300.8	299.8	298.7	295.5	293.5	295.5	298.7
45.5°	284.9	286.6	289.6	290.6	291.4	290.6	289.6	286.6	284.9	286.6	289.6
46°	276.8	278.2	280.9	282.3	282.7	282.3	280.9	278.2	276.8	278.2	280.9
46.5°	269.3	270.5	272.6	274.2	274.6	274.2	272.6	270.5	269.3	270.5	272.6
47°	262.2	263.0	265.0	266.7	267.3	266.7	265.0	263.0	262.2	263.0	265.0
47.5°	255.5	256.1	257.9	259.8	260.6	259.8	257.9	256.1	255.5	256.1	257.9
48°	249.2	250.0	251.9	253.5	254.3	253.5	251.9	250.0	249.2	250.0	251.9
48.5°	244.1	244.6	246.0	247.6	248.2	247.6	246.0	244.6	244.1	244.6	246.0
49°	239.3	239.5	240.7	241.9	242.5	241.9	240.7	239.5	239.3	239.5	240.7
49.5°	234.6	234.8	235.6	236.6	236.8	236.6	235.6	234.8	234.6	234.8	235.6
50°	229.7	229.9	230.5	231.4	231.6	231.4	230.5	229.9	229.7	229.9	230.5
50.5°	224.9	225.1	225.5	226.3	226.3	226.3	225.5	225.1	224.9	225.1	225.5
51°	219.4	219.8	220.4	221.2	221.2	221.2	220.4	219.8	219.4	219.8	220.4
51.5°	214.1	214.3	215.1	216.1	216.3	216.1	215.1	214.3	214.1	214.3	215.1
52°	208.6	209.0	209.8	210.9	211.1	210.9	209.8	209.0	208.6	209.0	209.8
52.5°	203.2	203.6	204.6	205.4	205.8	205.4	204.6	203.6	203.2	203.6	204.6
53°	198.1	198.5	199.3	200.1	200.5	200.1	199.3	198.5	198.1	198.5	199.3
53.5°	192.8	193.2	194.0	195.0	195.4	195.0	194.0	193.2	192.8	193.2	194.0
54°	187.9	188.1	188.9	189.8	190.2	189.8	188.9	188.1	187.9	188.1	188.9
54.5°	183.1	183.3	184.1	184.9	185.3	184.9	184.1	183.3	183.1	183.3	184.1
55°	178.2	178.6	179.4	180.0	180.2	180.0	179.4	178.6	178.2	178.6	179.4
55.5°	173.5	173.9	174.7	175.3	175.5	175.3	174.7	173.9	173.5	173.9	174.7
56°	169.1	169.5	170.1	170.7	170.9	170.7	170.1	169.5	169.1	169.5	170.1
56.5°	164.6	165.0	165.6	166.2	166.4	166.2	165.6	165.0	164.6	165.0	165.6
57°	160.1	160.5	161.1	161.7	162.0	161.7	161.1	160.5	160.1	160.5	161.1
57.5°	155.7	156.3	156.9	157.3	157.7	157.3	156.9	156.3	155.7	156.3	156.9
58°	151.8	152.0	152.6	153.2	153.4	153.2	152.6	152.0	151.8	152.0	152.6
58.5°	147.7	147.9	148.6	149.0	149.2	149.0	148.6	147.9	147.7	147.9	148.6
59°	143.7	143.9	144.3	144.7	145.1	144.7	144.3	143.9	143.7	143.9	144.3
59.5°	139.6	139.8	140.2	140.8	141.0	140.8	140.2	139.8	139.6	139.8	140.2
60°	135.8	136.0	136.4	136.8	137.0	136.8	136.4	136.0	135.8	136.0	136.4
60.5°	131.9	132.1	132.5	132.9	133.1	132.9	132.5	132.1	131.9	132.1	132.5
61°	128.3	128.5	128.9	129.3	129.5	129.3	128.9	128.5	128.3	128.5	128.9
61.5°	124.6	124.8	125.2	125.6	125.8	125.6	125.2	124.8	124.6	124.8	125.2
62°	121.2	121.2	121.6	122.0	122.0	122.0	121.6	121.2	121.2	121.2	121.6
62.5°	117.5	117.7	117.9	118.3	118.5	118.3	117.9	117.7	117.5	117.7	117.9
63°	114.1	114.3	114.5	114.9	114.9	114.9	114.5	114.3	114.1	114.3	114.5
63.5°	110.6	110.8	111.0	111.4	111.6	111.4	111.0	110.8	110.6	110.8	111.0
64°	107.4	107.6	107.8	108.0	108.2	108.0	107.8	107.6	107.4	107.6	107.8
64.5°	104.1	104.3	104.5	104.7	104.9	104.7	104.5	104.3	104.1	104.3	104.5
65°	100.9	101.1	101.3	101.5	101.7	101.5	101.3	101.1	100.9	101.1	101.3
65.5°	97.8	97.8	98.0	98.4	98.4	98.4	98.0	97.8	97.8	97.8	98.0
66°	94.6	94.8	95.0	95.2	95.4	95.2	95.0	94.8	94.6	94.8	95.0





TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRMW-2000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	85.6	85.8	86.0	86.3	86.3	86.3	86.0	85.8	85.6	85.8	86.0
68°	82.8	83.0	83.2	83.4	83.4	83.4	83.2	83.0	82.8	83.0	83.2
68.5°	80.0	80.2	80.4	80.4	80.6	80.4	80.4	80.2	80.0	80.2	80.4
69°	77.3	77.3	77.3	77.7	77.7	77.7	77.3	77.3	77.3	77.3	77.3
69.5°	74.5	74.7	74.7	74.9	75.1	74.9	74.7	74.7	74.5	74.7	74.7
70°	72.0	72.2	72.0	72.2	72.5	72.2	72.0	72.2	72.0	72.2	72.0
70.5°	69.4	69.6	69.6	69.6	69.8	69.6	69.6	69.6	69.4	69.6	69.6
71°	67.0	67.0	67.0	67.0	67.2	67.0	67.0	67.0	67.0	67.0	67.0
71.5°	64.3	64.3	64.5	64.5	64.5	64.5	64.5	64.3	64.3	64.3	64.5
72°	61.9	61.9	61.9	62.1	62.1	62.1	61.9	61.9	61.9	61.9	61.9
72.5°	59.5	59.5	59.5	59.7	59.7	59.7	59.5	59.5	59.5	59.5	59.5
73°	57.0	57.0	57.0	57.2	57.2	57.2	57.0	57.0	57.0	57.0	57.0
73.5°	54.6	54.6	54.8	54.8	54.8	54.8	54.8	54.6	54.6	54.6	54.8
74°	52.4	52.4	52.4	52.6	52.6	52.6	52.4	52.4	52.4	52.4	52.4
74.5°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
75°	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
75.5°	45.7	45.7	45.7	45.7	45.9	45.7	45.7	45.7	45.7	45.7	45.7
76°	43.6	43.4	43.4	43.6	43.6	43.6	43.4	43.4	43.6	43.4	43.4
76.5°	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4	41.4
77°	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4	39.4
77.5°	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3	37.3
78°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
78.5°	33.5	33.5	33.3	33.3	33.5	33.3	33.3	33.5	33.5	33.5	33.3
79°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
79.5°	29.6	29.6	29.4	29.6	29.6	29.6	29.4	29.6	29.6	29.6	29.4
80°	27.8	27.8	27.6	27.6	27.6	27.6	27.6	27.8	27.8	27.8	27.6
80.5°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
81°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
81.5°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
82°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7	20.7
82.5°	19.1	19.1	19.1	19.1	18.9	19.1	19.1	19.1	19.1	19.1	19.1
83°	17.5	17.5	17.5	17.3	17.3	17.3	17.5	17.5	17.5	17.5	17.5
83.5°	15.8	15.8	15.8	15.6	15.6	15.6	15.8	15.8	15.8	15.8	15.8
84°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
84.5°	12.8	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	12.6	12.6
85°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
85.5°	9.7	9.5	9.7	9.5	9.7	9.5	9.7	9.5	9.7	9.5	9.7
86°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
86.5°	6.9	6.7	6.7	6.7	6.9	6.7	6.7	6.7	6.9	6.7	6.7
87°	5.5	5.5	5.5	5.3	5.5	5.3	5.5	5.5	5.5	5.5	5.5
87.5°	4.1	4.1	4.1	4.1	4.3	4.1	4.1	4.1	4.1	4.1	4.1
88°	2.6	2.8	2.8	3.0	3.0	3.0	2.8	2.8	2.6	2.8	2.8
88.5°	1.6	1.6	1.8	2.0	2.4	2.0	1.8	1.6	1.6	1.6	1.8



TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-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	0.2	0.4	0.6	0.4	0.2	0.0	0.0	0.0	0.2



TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRMW-2000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1515.4	1515.4	1515.4	1515.4	1515.4	1515.4
0.5°	1514.8	1514.2	1514.8	1515.0	1515.4	1515.6
1°	1514.4	1513.6	1514.4	1514.6	1514.8	1515.0
1.5°	1513.4	1512.8	1513.4	1513.8	1513.8	1514.2
2°	1512.2	1511.3	1512.2	1512.4	1512.8	1513.0
2.5°	1510.5	1509.5	1510.5	1510.7	1511.1	1511.6
3°	1508.3	1507.3	1508.3	1508.7	1509.1	1509.5
3.5°	1505.9	1505.3	1505.9	1506.3	1506.9	1507.3
4°	1503.2	1502.2	1503.2	1503.6	1504.4	1504.7
4.5°	1500.2	1499.0	1500.2	1500.6	1501.4	1501.8
5°	1497.1	1495.7	1497.1	1497.5	1498.4	1499.0
5.5°	1493.1	1491.9	1493.1	1493.5	1494.5	1495.9
6°	1488.8	1487.2	1488.8	1489.4	1490.4	1491.3
6.5°	1484.2	1482.5	1484.2	1484.8	1486.0	1486.6
7°	1479.3	1477.9	1479.3	1480.3	1480.9	1481.7
7.5°	1474.2	1472.8	1474.2	1474.6	1475.4	1476.2
8°	1468.3	1467.5	1468.3	1468.9	1469.7	1470.4
8.5°	1462.0	1461.2	1462.0	1462.6	1463.5	1464.3
9°	1455.5	1454.7	1455.5	1456.1	1457.2	1457.8
9.5°	1448.6	1447.8	1448.6	1449.2	1450.3	1450.7
10°	1441.3	1440.3	1441.3	1442.1	1443.0	1443.6
10.5°	1433.6	1432.8	1433.6	1434.2	1435.2	1435.6
11°	1425.7	1424.7	1425.7	1426.5	1427.3	1427.7
11.5°	1417.4	1416.6	1417.4	1418.2	1419.0	1419.4
12°	1408.9	1408.0	1408.9	1409.9	1410.5	1410.9
12.5°	1399.9	1398.9	1399.9	1400.9	1401.6	1402.0
13°	1391.0	1390.0	1391.0	1391.8	1392.4	1392.8
13.5°	1381.7	1380.9	1381.7	1382.5	1382.9	1383.3
14°	1372.1	1371.3	1372.1	1372.9	1373.3	1373.5
14.5°	1362.2	1361.4	1362.2	1363.0	1363.2	1363.4
15°	1352.4	1351.6	1352.4	1352.8	1353.3	1353.3
15.5°	1342.7	1342.3	1342.7	1343.1	1342.7	1342.7
16°	1333.2	1332.8	1333.2	1333.4	1332.8	1332.6
16.5°	1323.6	1323.4	1323.6	1323.6	1322.8	1322.4
17°	1313.9	1314.1	1313.9	1314.1	1313.3	1312.9
17.5°	1304.3	1304.1	1304.3	1304.5	1303.9	1303.5
18°	1294.6	1294.2	1294.6	1295.0	1294.6	1294.4
18.5°	1284.2	1283.6	1284.2	1284.7	1284.7	1284.7
19°	1273.1	1272.5	1273.1	1273.7	1274.1	1274.7
19.5°	1261.3	1260.7	1261.3	1261.7	1262.9	1263.8
20°	1248.7	1247.3	1248.7	1248.5	1250.8	1251.8
20.5°	1235.1	1233.5	1235.1	1234.3	1237.0	1238.6
21°	1220.3	1218.3	1220.3	1219.3	1222.4	1224.8

TEST NUMBER: P775921

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1169.6	1168.6	1169.6	1169.8	1171.8	1174.3
23°	1151.1	1150.7	1151.1	1152.5	1152.9	1155.0
23.5°	1132.0	1133.1	1132.0	1134.5	1133.5	1135.3
24°	1112.6	1114.4	1112.6	1115.8	1113.4	1114.8
24.5°	1092.9	1095.3	1092.9	1096.1	1093.1	1093.7
25°	1073.2	1075.0	1073.2	1075.6	1072.0	1071.6
25.5°	1053.5	1053.9	1053.5	1054.5	1051.3	1048.6
26°	1033.0	1031.4	1033.0	1032.8	1029.8	1025.1
26.5°	1011.7	1008.0	1011.7	1010.3	1007.8	1000.9
27°	989.8	984.3	989.8	987.5	985.1	977.4
27.5°	967.2	960.1	967.2	964.4	961.6	954.3
28°	943.7	936.0	943.7	940.9	938.0	931.1
28.5°	919.8	912.7	919.8	917.3	914.1	908.6
29°	895.4	890.5	895.4	893.8	889.9	886.3
29.5°	871.0	868.8	871.0	870.4	866.2	864.4
30°	846.7	846.9	846.7	846.5	841.8	842.4
30.5°	823.2	826.2	823.2	822.7	818.3	819.7
31°	799.6	804.3	799.6	798.8	794.1	797.2
31.5°	776.3	782.2	776.3	774.9	771.0	774.0
32°	753.3	759.4	753.3	751.1	747.7	750.5
32.5°	730.6	736.7	730.6	727.8	725.3	727.8
33°	707.9	713.6	707.9	703.8	703.0	704.8
33.5°	685.1	690.2	685.1	680.1	680.7	684.3
34°	662.8	668.1	662.8	656.5	658.4	662.2
34.5°	640.3	646.2	640.3	633.6	636.2	640.3
35°	618.6	624.9	618.6	611.9	614.7	618.2
35.5°	597.1	604.0	597.1	590.4	593.4	596.7
36°	576.4	583.5	576.4	569.5	572.1	575.6
36.5°	555.9	562.6	555.9	549.2	551.6	554.7
37°	536.0	541.9	536.0	529.3	531.3	533.5
37.5°	516.9	521.2	516.9	510.2	511.6	513.1
38°	498.2	500.7	498.2	491.9	492.6	492.8
38.5°	480.0	481.0	480.0	474.5	474.1	473.7
39°	462.3	462.1	462.3	457.0	456.2	455.2
39.5°	444.9	444.3	444.9	440.4	439.0	437.1
40°	428.0	427.2	428.0	424.4	421.9	419.9
40.5°	411.6	411.4	411.6	408.9	405.7	403.7
41°	396.2	396.8	396.2	394.3	390.1	388.0
41.5°	381.3	383.2	381.3	380.3	375.5	373.2
42°	367.5	370.0	367.5	366.9	361.7	359.4
42.5°	354.5	357.2	354.5	354.3	348.7	346.4
43°	342.4	344.8	342.4	342.0	336.5	334.1
43.5°	330.6	332.8	330.6	330.4	325.1	322.7



TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	299.8	300.8	299.8	298.7	295.5	293.5
45.5°	290.6	291.4	290.6	289.6	286.6	284.9
46°	282.3	282.7	282.3	280.9	278.2	276.8
46.5°	274.2	274.6	274.2	272.6	270.5	269.3
47°	266.7	267.3	266.7	265.0	263.0	262.2
47.5°	259.8	260.6	259.8	257.9	256.1	255.5
48°	253.5	254.3	253.5	251.9	250.0	249.2
48.5°	247.6	248.2	247.6	246.0	244.6	244.1
49°	241.9	242.5	241.9	240.7	239.5	239.3
49.5°	236.6	236.8	236.6	235.6	234.8	234.6
50°	231.4	231.6	231.4	230.5	229.9	229.7
50.5°	226.3	226.3	226.3	225.5	225.1	224.9
51°	221.2	221.2	221.2	220.4	219.8	219.4
51.5°	216.1	216.3	216.1	215.1	214.3	214.1
52°	210.9	211.1	210.9	209.8	209.0	208.6
52.5°	205.4	205.8	205.4	204.6	203.6	203.2
53°	200.1	200.5	200.1	199.3	198.5	198.1
53.5°	195.0	195.4	195.0	194.0	193.2	192.8
54°	189.8	190.2	189.8	188.9	188.1	187.9
54.5°	184.9	185.3	184.9	184.1	183.3	183.1
55°	180.0	180.2	180.0	179.4	178.6	178.2
55.5°	175.3	175.5	175.3	174.7	173.9	173.5
56°	170.7	170.9	170.7	170.1	169.5	169.1
56.5°	166.2	166.4	166.2	165.6	165.0	164.6
57°	161.7	162.0	161.7	161.1	160.5	160.1
57.5°	157.3	157.7	157.3	156.9	156.3	155.7
58°	153.2	153.4	153.2	152.6	152.0	151.8
58.5°	149.0	149.2	149.0	148.6	147.9	147.7
59°	144.7	145.1	144.7	144.3	143.9	143.7
59.5°	140.8	141.0	140.8	140.2	139.8	139.6
60°	136.8	137.0	136.8	136.4	136.0	135.8
60.5°	132.9	133.1	132.9	132.5	132.1	131.9
61°	129.3	129.5	129.3	128.9	128.5	128.3
61.5°	125.6	125.8	125.6	125.2	124.8	124.6
62°	122.0	122.0	122.0	121.6	121.2	121.2
62.5°	118.3	118.5	118.3	117.9	117.7	117.5
63°	114.9	114.9	114.9	114.5	114.3	114.1
63.5°	111.4	111.6	111.4	111.0	110.8	110.6
64°	108.0	108.2	108.0	107.8	107.6	107.4
64.5°	104.7	104.9	104.7	104.5	104.3	104.1
65°	101.5	101.7	101.5	101.3	101.1	100.9
65.5°	98.4	98.4	98.4	98.0	97.8	97.8
66°	95.2	95.4	95.2	95.0	94.8	94.6



TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	86.3	86.3	86.3	86.0	85.8	85.6
68°	83.4	83.4	83.4	83.2	83.0	82.8
68.5°	80.4	80.6	80.4	80.4	80.2	80.0
69°	77.7	77.7	77.7	77.3	77.3	77.3
69.5°	74.9	75.1	74.9	74.7	74.7	74.5
70°	72.2	72.5	72.2	72.0	72.2	72.0
70.5°	69.6	69.8	69.6	69.6	69.6	69.4
71°	67.0	67.2	67.0	67.0	67.0	67.0
71.5°	64.5	64.5	64.5	64.5	64.3	64.3
72°	62.1	62.1	62.1	61.9	61.9	61.9
72.5°	59.7	59.7	59.7	59.5	59.5	59.5
73°	57.2	57.2	57.2	57.0	57.0	57.0
73.5°	54.8	54.8	54.8	54.8	54.6	54.6
74°	52.6	52.6	52.6	52.4	52.4	52.4
74.5°	50.1	50.1	50.1	50.1	50.1	50.1
75°	47.9	47.9	47.9	47.9	47.9	47.9
75.5°	45.7	45.9	45.7	45.7	45.7	45.7
76°	43.6	43.6	43.6	43.4	43.4	43.6
76.5°	41.4	41.4	41.4	41.4	41.4	41.4
77°	39.4	39.4	39.4	39.4	39.4	39.4
77.5°	37.3	37.3	37.3	37.3	37.3	37.3
78°	35.3	35.3	35.3	35.3	35.3	35.3
78.5°	33.3	33.5	33.3	33.3	33.5	33.5
79°	31.5	31.5	31.5	31.5	31.5	31.5
79.5°	29.6	29.6	29.6	29.4	29.6	29.6
80°	27.6	27.6	27.6	27.6	27.8	27.8
80.5°	26.0	26.0	26.0	26.0	26.0	26.0
81°	24.2	24.2	24.2	24.2	24.2	24.2
81.5°	22.3	22.3	22.3	22.3	22.3	22.3
82°	20.7	20.7	20.7	20.7	20.7	20.7
82.5°	19.1	18.9	19.1	19.1	19.1	19.1
83°	17.3	17.3	17.3	17.5	17.5	17.5
83.5°	15.6	15.6	15.6	15.8	15.8	15.8
84°	14.2	14.2	14.2	14.2	14.2	14.2
84.5°	12.6	12.6	12.6	12.6	12.6	12.8
85°	11.2	11.2	11.2	11.2	11.2	11.2
85.5°	9.5	9.7	9.5	9.7	9.5	9.7
86°	8.1	8.1	8.1	8.1	8.1	8.1
86.5°	6.7	6.9	6.7	6.7	6.7	6.9
87°	5.3	5.5	5.3	5.5	5.5	5.5
87.5°	4.1	4.3	4.1	4.1	4.1	4.1
88°	3.0	3.0	3.0	2.8	2.8	2.6
88.5°	2.0	2.4	2.0	1.8	1.6	1.6



TEST NUMBER: P775921

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2000lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.4	0.6	0.4	0.2	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9



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

Scaled Data Report





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

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

Scaled Data Report



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

Scaled Data Report





21.5°	1208.8	1206.7	1203.3	1204.3	1202.3	1204.3	1203.3	1206.7	1208.8	1206.7	1203.3
22°	1191.9	1189.9	1186.8	1187.2	1185.2	1187.2	1186.8	1189.9	1191.9	1189.9	1186.8



44°	312.1	314.6	319.2	319.6	321.7	319.6	319.2	314.6	312.1	314.6	319.2
44.5°	302.4	304.8	308.9	309.5	310.9	309.5	308.9	304.8	302.4	304.8	308.9



66.5°	91.5	91.7	91.9	92.1	92.3	92.1	91.9	91.7	91.5	91.7	91.9
67°	88.7	88.7	88.9	89.1	89.3	89.1	88.9	88.7	88.7	88.7	88.9



89°	0.6	0.8	1.2	1.4	1.6	1.4	1.2	0.8	0.6	0.8	1.2
89.5°	0.0	0.2	0.6	0.8	1.0	0.8	0.6	0.2	0.0	0.2	0.6



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°	1204.3	1202.3	1204.3	1203.3	1206.7	1208.8
22°	1187.2	1185.2	1187.2	1186.8	1189.9	1191.9



44°	319.6	321.7	319.6	319.2	314.6	312.1
44.5°	309.5	310.9	309.5	308.9	304.8	302.4



66.5°	92.1	92.3	92.1	91.9	91.7	91.5
67°	89.1	89.3	89.1	88.9	88.7	88.7



89°	1.4	1.6	1.4	1.2	0.8	0.6
89.5°	0.8	1.0	0.8	0.6	0.2	0.0

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

Scaled Data Report



(END OF REPORT)