

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: P775971

Luminaire Tested: HCDJBL51525CSD-HCD42TRMW-2500lm-3000K

Issue Date: 2/13/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P775971  
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-2500lm-3000K  
Description: 4 INCH ROUND NARROW MATTE WHITE TRIM  
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

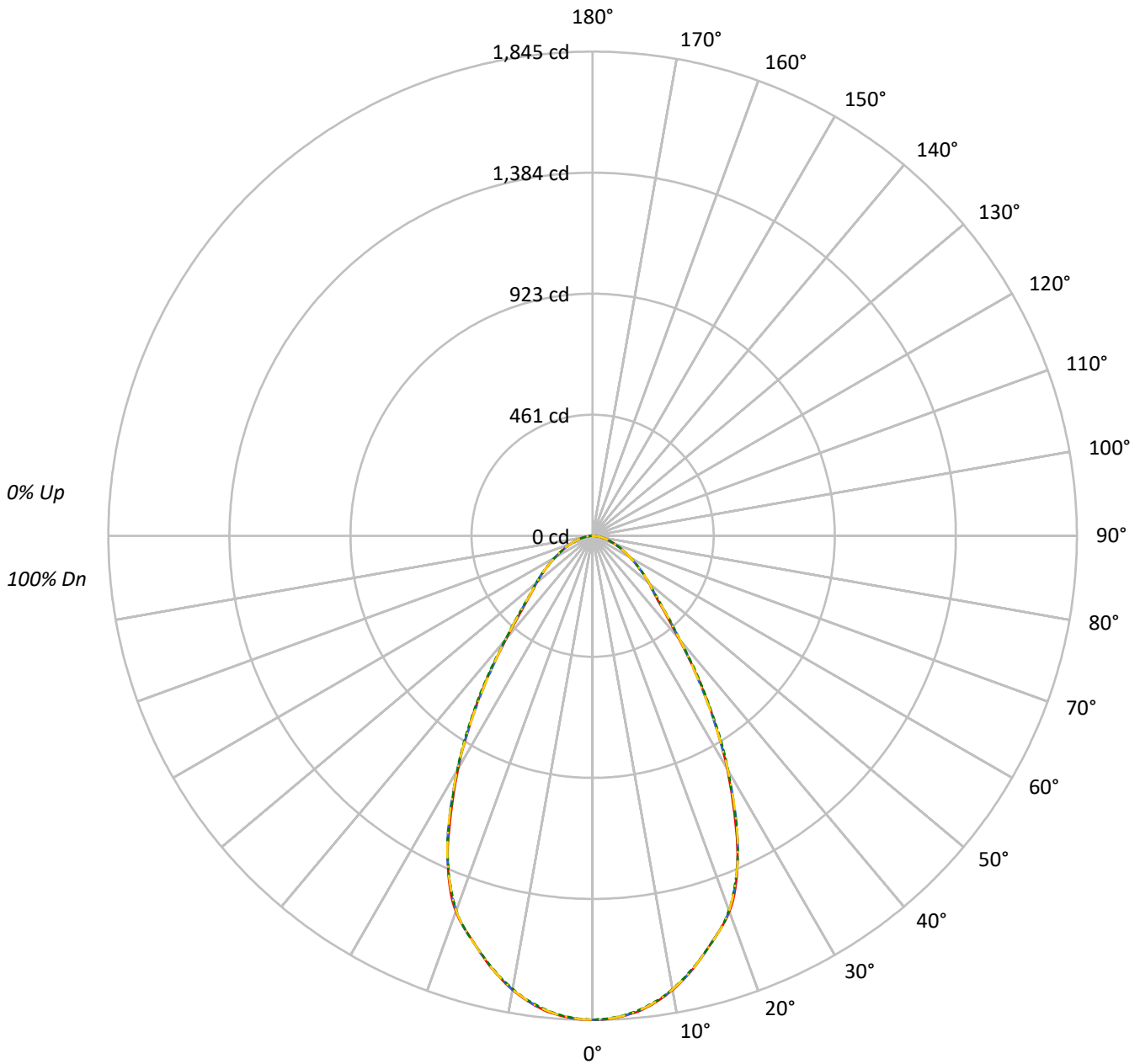
Lumens per Lamp: N/A  
Luminaire Lumens: 2382.0 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 0.96 / 0.97 / 0.95  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 25  
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: P775971  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P775971

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2500lm-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	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°	232155	232155	232155	232155
5°	230515	230010	230515	230010
10°	224568	224056	224568	224056
15°	214626	214365	214626	214365
20°	204077	203354	204077	203354
25°	181129	181712	181129	181712
30°	149024	149809	149024	149809
35°	115610	116870	115610	116870
40°	83966	85428	83966	85428
45°	63574	65158	63574	65158
50°	54762	55193	54762	55193
55°	47591	48139	47591	48139
60°	41606	41983	41606	41983
65°	36568	36866	36568	36866
70°	32270	32454	32270	32454
75°	28348	28348	28348	28348
80°	24496	24351	24496	24351
85°	19638	19638	19638	19638

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 65158 cd/sqm



TEST NUMBER: P775971

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.9	7.2
10°-20°	462.7	19.4
20°-30°	592.6	24.9
30°-40°	469.6	19.7
40°-50°	287.5	12.1
50°-60°	196.6	8.3
60°-70°	123.0	5.2
70°-80°	62.4	2.6
80°-90°	15.7	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°	1227.2	51.5
0°-40°	1696.8	71.2
0°-60°	2180.9	91.6
0°-90°	2382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1845	1845	1845	1845	1845	
5°	1825	1821	1825	1821	1825	172
15°	1647	1645	1647	1645	1647	463
25°	1304	1309	1304	1309	1304	591
35°	752	761	752	761	752	469
45°	357	366	357	366	357	284
55°	217	219	217	219	217	195
65°	123	124	123	124	123	123
75°	58	58	58	58	58	62
85°	14	14	14	14	14	16
90°	0	1	0	1	0	



TEST NUMBER: P775971

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2500lm-3000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7
0.5°	1845.0	1844.7	1844.2	1844.0	1843.2	1844.0	1844.2	1844.7	1845.0	1844.7	1844.2
1°	1844.2	1844.0	1843.7	1843.5	1842.5	1843.5	1843.7	1844.0	1844.2	1844.0	1843.7
1.5°	1843.2	1842.7	1842.7	1842.2	1841.5	1842.2	1842.7	1842.7	1843.2	1842.7	1842.7
2°	1841.7	1841.5	1841.0	1840.8	1839.8	1840.8	1841.0	1841.5	1841.7	1841.5	1841.0
2.5°	1840.0	1839.5	1839.0	1838.8	1837.5	1838.8	1839.0	1839.5	1840.0	1839.5	1839.0
3°	1837.5	1837.0	1836.6	1836.1	1834.8	1836.1	1836.6	1837.0	1837.5	1837.0	1836.6
3.5°	1834.8	1834.3	1833.6	1833.1	1832.4	1833.1	1833.6	1834.3	1834.8	1834.3	1833.6
4°	1831.6	1831.4	1830.4	1829.9	1828.6	1829.9	1830.4	1831.4	1831.6	1831.4	1830.4
4.5°	1828.2	1827.7	1826.7	1826.2	1824.7	1826.2	1826.7	1827.7	1828.2	1827.7	1826.7
5°	1824.7	1824.0	1823.0	1822.5	1820.7	1822.5	1823.0	1824.0	1824.7	1824.0	1823.0
5.5°	1821.0	1819.3	1818.0	1817.5	1816.0	1817.5	1818.0	1819.3	1821.0	1819.3	1818.0
6°	1815.3	1814.3	1813.1	1812.3	1810.4	1812.3	1813.1	1814.3	1815.3	1814.3	1813.1
6.5°	1809.6	1808.9	1807.4	1806.7	1804.7	1806.7	1807.4	1808.9	1809.6	1808.9	1807.4
7°	1803.7	1802.7	1802.0	1800.7	1799.0	1800.7	1802.0	1802.7	1803.7	1802.7	1802.0
7.5°	1797.0	1796.0	1795.0	1794.6	1792.8	1794.6	1795.0	1796.0	1797.0	1796.0	1795.0
8°	1789.9	1789.1	1788.1	1787.4	1786.4	1787.4	1788.1	1789.1	1789.9	1789.1	1788.1
8.5°	1782.4	1781.5	1780.5	1779.7	1778.7	1779.7	1780.5	1781.5	1782.4	1781.5	1780.5
9°	1774.5	1773.8	1772.6	1771.8	1770.8	1771.8	1772.6	1773.8	1774.5	1773.8	1772.6
9.5°	1765.9	1765.4	1764.2	1763.4	1762.4	1763.4	1764.2	1765.4	1765.9	1765.4	1764.2
10°	1757.3	1756.5	1755.5	1754.5	1753.3	1754.5	1755.5	1756.5	1757.3	1756.5	1755.5
10.5°	1747.6	1747.1	1745.9	1745.1	1744.2	1745.1	1745.9	1747.1	1747.6	1747.1	1745.9
11°	1738.0	1737.5	1736.5	1735.5	1734.3	1735.5	1736.5	1737.5	1738.0	1737.5	1736.5
11.5°	1727.9	1727.4	1726.4	1725.4	1724.4	1725.4	1726.4	1727.4	1727.9	1727.4	1726.4
12°	1717.5	1717.0	1716.2	1715.0	1714.0	1715.0	1716.2	1717.0	1717.5	1717.0	1716.2
12.5°	1706.6	1706.1	1705.4	1704.1	1702.9	1704.1	1705.4	1706.1	1706.6	1706.1	1705.4
13°	1695.5	1695.0	1694.3	1693.3	1692.0	1693.3	1694.3	1695.0	1695.5	1695.0	1694.3
13.5°	1683.9	1683.4	1682.9	1681.9	1680.9	1681.9	1682.9	1683.4	1683.9	1683.4	1682.9
14°	1672.0	1671.8	1671.3	1670.3	1669.3	1670.3	1671.3	1671.8	1672.0	1671.8	1671.3
14.5°	1659.7	1659.4	1659.2	1658.2	1657.2	1658.2	1659.2	1659.4	1659.7	1659.4	1659.2
15°	1647.3	1647.3	1646.8	1646.3	1645.3	1646.3	1646.8	1647.3	1647.3	1647.3	1646.8
15.5°	1634.5	1634.5	1635.0	1634.5	1634.0	1634.5	1635.0	1634.5	1634.5	1634.5	1635.0
16°	1622.1	1622.4	1623.1	1622.9	1622.4	1622.9	1623.1	1622.4	1622.1	1622.4	1623.1
16.5°	1609.8	1610.3	1611.2	1611.2	1611.0	1611.2	1611.2	1610.3	1609.8	1610.3	1611.2
17°	1598.2	1598.6	1599.6	1599.4	1599.6	1599.4	1599.6	1598.6	1598.2	1598.6	1599.6
17.5°	1586.8	1587.3	1588.0	1587.8	1587.5	1587.8	1588.0	1587.3	1586.8	1587.3	1588.0
18°	1575.7	1575.9	1576.4	1575.9	1575.4	1575.9	1576.4	1575.9	1575.7	1575.9	1576.4
18.5°	1563.8	1563.8	1563.8	1563.3	1562.6	1563.3	1563.8	1563.8	1563.8	1563.8	1563.8
19°	1551.7	1551.0	1550.5	1549.7	1549.0	1549.7	1550.5	1551.0	1551.7	1551.0	1550.5
19.5°	1538.4	1537.4	1535.9	1535.4	1534.7	1535.4	1535.9	1537.4	1538.4	1537.4	1535.9
20°	1523.8	1522.6	1519.8	1520.1	1518.4	1520.1	1519.8	1522.6	1523.8	1522.6	1519.8
20.5°	1507.7	1505.8	1502.5	1503.5	1501.6	1503.5	1502.5	1505.8	1507.7	1505.8	1502.5
21°	1490.9	1488.0	1484.3	1485.5	1483.0	1485.5	1484.3	1488.0	1490.9	1488.0	1484.3



TEST NUMBER: P775971

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1429.4	1426.5	1424.0	1423.7	1422.5	1423.7	1424.0	1426.5	1429.4	1426.5	1424.0
23°	1405.9	1403.5	1403.0	1401.3	1400.8	1401.3	1403.0	1403.5	1405.9	1403.5	1403.0
23.5°	1382.0	1379.8	1381.0	1378.0	1379.3	1378.0	1381.0	1379.8	1382.0	1379.8	1381.0
24°	1357.0	1355.3	1358.3	1354.3	1356.5	1354.3	1358.3	1355.3	1357.0	1355.3	1358.3
24.5°	1331.3	1330.6	1334.3	1330.4	1333.3	1330.4	1334.3	1330.6	1331.3	1330.6	1334.3
25°	1304.4	1304.9	1309.4	1306.4	1308.6	1306.4	1309.4	1304.9	1304.4	1304.9	1309.4
25.5°	1276.5	1279.7	1283.7	1282.4	1282.9	1282.4	1283.7	1279.7	1276.5	1279.7	1283.7
26°	1247.8	1253.5	1257.2	1257.5	1255.5	1257.5	1257.2	1253.5	1247.8	1253.5	1257.2
26.5°	1218.4	1226.8	1229.8	1231.5	1227.1	1231.5	1229.8	1226.8	1218.4	1226.8	1229.8
27°	1189.8	1199.2	1202.1	1204.9	1198.2	1204.9	1202.1	1199.2	1189.8	1199.2	1202.1
27.5°	1161.6	1170.5	1174.0	1177.4	1168.8	1177.4	1174.0	1170.5	1161.6	1170.5	1174.0
28°	1133.5	1141.9	1145.3	1148.8	1139.4	1148.8	1145.3	1141.9	1133.5	1141.9	1145.3
28.5°	1106.0	1112.7	1116.7	1119.6	1111.0	1119.6	1116.7	1112.7	1106.0	1112.7	1116.7
29°	1078.9	1083.3	1088.0	1090.0	1084.0	1090.0	1088.0	1083.3	1078.9	1083.3	1088.0
29.5°	1052.2	1054.4	1059.6	1060.3	1057.6	1060.3	1059.6	1054.4	1052.2	1054.4	1059.6
30°	1025.5	1024.8	1030.4	1030.7	1030.9	1030.7	1030.4	1024.8	1025.5	1024.8	1030.4
30.5°	997.8	996.1	1001.5	1002.0	1005.7	1002.0	1001.5	996.1	997.8	996.1	1001.5
31°	970.4	966.7	972.4	973.4	979.1	973.4	972.4	966.7	970.4	966.7	972.4
31.5°	942.2	938.5	943.2	945.0	952.1	945.0	943.2	938.5	942.2	938.5	943.2
32°	913.6	910.1	914.3	917.0	924.5	917.0	914.3	910.1	913.6	910.1	914.3
32.5°	885.9	882.9	885.9	889.4	896.8	889.4	885.9	882.9	885.9	882.9	885.9
33°	858.0	855.8	856.8	861.7	868.6	861.7	856.8	855.8	858.0	855.8	856.8
33.5°	833.0	828.6	827.9	834.0	840.2	834.0	827.9	828.6	833.0	828.6	827.9
34°	806.1	801.4	799.2	806.9	813.3	806.9	799.2	801.4	806.1	801.4	799.2
34.5°	779.4	774.5	771.3	779.4	786.6	779.4	771.3	774.5	779.4	774.5	771.3
35°	752.5	748.3	744.8	753.0	760.7	753.0	744.8	748.3	752.5	748.3	744.8
35.5°	726.3	722.4	718.7	726.8	735.2	726.8	718.7	722.4	726.3	722.4	718.7
36°	700.6	696.4	693.2	701.6	710.3	701.6	693.2	696.4	700.6	696.4	693.2
36.5°	675.2	671.5	668.5	676.7	684.8	676.7	668.5	671.5	675.2	671.5	668.5
37°	649.5	646.8	644.3	652.5	659.6	652.5	644.3	646.8	649.5	646.8	644.3
37.5°	624.5	622.8	621.1	629.2	634.4	629.2	621.1	622.8	624.5	622.8	621.1
38°	599.8	599.6	598.8	606.5	609.5	606.5	598.8	599.6	599.8	599.6	598.8
38.5°	576.6	577.1	577.6	584.3	585.5	584.3	577.6	577.1	576.6	577.1	577.6
39°	554.1	555.4	556.4	562.8	562.5	562.8	556.4	555.4	554.1	555.4	556.4
39.5°	532.1	534.4	536.1	541.5	540.8	541.5	536.1	534.4	532.1	534.4	536.1
40°	511.1	513.6	516.6	521.0	520.0	521.0	516.6	513.6	511.1	513.6	516.6
40.5°	491.4	493.8	497.8	501.0	500.8	501.0	497.8	493.8	491.4	493.8	497.8
41°	472.4	474.8	480.0	482.2	483.0	482.2	480.0	474.8	472.4	474.8	480.0
41.5°	454.3	457.0	463.0	464.2	466.4	464.2	463.0	457.0	454.3	457.0	463.0
42°	437.5	440.2	446.7	447.4	450.4	447.4	446.7	440.2	437.5	440.2	446.7
42.5°	421.7	424.4	431.3	431.6	434.8	431.6	431.3	424.4	421.7	424.4	431.3
43°	406.6	409.6	416.3	416.8	419.7	416.8	416.3	409.6	406.6	409.6	416.3
43.5°	392.8	395.8	402.2	402.4	405.2	402.4	402.2	395.8	392.8	395.8	402.2



TEST NUMBER: P775971

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	357.2	359.7	363.7	364.9	366.1	364.9	363.7	359.7	357.2	359.7	363.7
45.5°	346.9	348.8	352.5	353.8	354.8	353.8	352.5	348.8	346.9	348.8	352.5
46°	337.0	338.7	341.9	343.6	344.1	343.6	341.9	338.7	337.0	338.7	341.9
46.5°	327.8	329.3	331.8	333.8	334.3	333.8	331.8	329.3	327.8	329.3	331.8
47°	319.2	320.2	322.6	324.6	325.4	324.6	322.6	320.2	319.2	320.2	322.6
47.5°	311.0	311.8	314.0	316.2	317.2	316.2	314.0	311.8	311.0	311.8	314.0
48°	303.4	304.4	306.6	308.6	309.6	308.6	306.6	304.4	303.4	304.4	306.6
48.5°	297.2	297.7	299.4	301.4	302.1	301.4	299.4	297.7	297.2	297.7	299.4
49°	291.3	291.5	293.0	294.5	295.2	294.5	293.0	291.5	291.3	291.5	293.0
49.5°	285.6	285.8	286.8	288.1	288.3	288.1	286.8	285.8	285.6	285.8	286.8
50°	279.7	279.9	280.6	281.6	281.9	281.6	280.6	279.9	279.7	279.9	280.6
50.5°	273.7	274.0	274.5	275.5	275.5	275.5	274.5	274.0	273.7	274.0	274.5
51°	267.1	267.6	268.3	269.3	269.3	269.3	268.3	267.6	267.1	267.6	268.3
51.5°	260.6	260.9	261.9	263.1	263.4	263.1	261.9	260.9	260.6	260.9	261.9
52°	254.0	254.5	255.4	256.7	256.9	256.7	255.4	254.5	254.0	254.5	255.4
52.5°	247.3	247.8	249.0	250.0	250.5	250.0	249.0	247.8	247.3	247.8	249.0
53°	241.1	241.6	242.6	243.6	244.1	243.6	242.6	241.6	241.1	241.6	242.6
53.5°	234.7	235.2	236.2	237.4	237.9	237.4	236.2	235.2	234.7	235.2	236.2
54°	228.8	229.0	230.0	231.0	231.5	231.0	230.0	229.0	228.8	229.0	230.0
54.5°	222.8	223.1	224.1	225.1	225.6	225.1	224.1	223.1	222.8	223.1	224.1
55°	216.9	217.4	218.4	219.1	219.4	219.1	218.4	217.4	216.9	217.4	218.4
55.5°	211.2	211.7	212.7	213.4	213.7	213.4	212.7	211.7	211.2	211.7	212.7
56°	205.8	206.3	207.0	207.8	208.0	207.8	207.0	206.3	205.8	206.3	207.0
56.5°	200.4	200.8	201.6	202.3	202.6	202.3	201.6	200.8	200.4	200.8	201.6
57°	194.9	195.4	196.2	196.9	197.1	196.9	196.2	195.4	194.9	195.4	196.2
57.5°	189.5	190.2	191.0	191.5	192.0	191.5	191.0	190.2	189.5	190.2	191.0
58°	184.8	185.0	185.8	186.5	186.8	186.5	185.8	185.0	184.8	185.0	185.8
58.5°	179.9	180.1	180.8	181.3	181.6	181.3	180.8	180.1	179.9	180.1	180.8
59°	174.9	175.2	175.7	176.1	176.6	176.1	175.7	175.2	174.9	175.2	175.7
59.5°	170.0	170.2	170.7	171.5	171.7	171.5	170.7	170.2	170.0	170.2	170.7
60°	165.3	165.5	166.0	166.5	166.8	166.5	166.0	165.5	165.3	165.5	166.0
60.5°	160.6	160.8	161.3	161.8	162.1	161.8	161.3	160.8	160.6	160.8	161.3
61°	156.1	156.4	156.9	157.4	157.6	157.4	156.9	156.4	156.1	156.4	156.9
61.5°	151.7	151.9	152.4	152.9	153.2	152.9	152.4	151.9	151.7	151.9	152.4
62°	147.5	147.5	148.0	148.5	148.5	148.5	148.0	147.5	147.5	147.5	148.0
62.5°	143.0	143.3	143.5	144.0	144.3	144.0	143.5	143.3	143.0	143.3	143.5
63°	138.8	139.1	139.3	139.8	139.8	139.8	139.3	139.1	138.8	139.1	139.3
63.5°	134.6	134.9	135.1	135.6	135.9	135.6	135.1	134.9	134.6	134.9	135.1
64°	130.7	130.9	131.2	131.4	131.7	131.4	131.2	130.9	130.7	130.9	131.2
64.5°	126.7	127.0	127.2	127.5	127.7	127.5	127.2	127.0	126.7	127.0	127.2
65°	122.8	123.0	123.3	123.5	123.8	123.5	123.3	123.0	122.8	123.0	123.3
65.5°	119.1	119.1	119.3	119.8	119.8	119.8	119.3	119.1	119.1	119.1	119.3
66°	115.1	115.4	115.6	115.9	116.1	115.9	115.6	115.4	115.1	115.4	115.6





TEST NUMBER: P775971

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	104.3	104.5	104.7	105.0	105.0	105.0	104.7	104.5	104.3	104.5	104.7
68°	100.8	101.0	101.3	101.5	101.5	101.5	101.3	101.0	100.8	101.0	101.3
68.5°	97.3	97.6	97.8	97.8	98.1	97.8	97.8	97.6	97.3	97.6	97.8
69°	94.1	94.1	94.1	94.6	94.6	94.6	94.1	94.1	94.1	94.1	94.1
69.5°	90.7	90.9	90.9	91.2	91.4	91.2	90.9	90.9	90.7	90.9	90.9
70°	87.7	87.9	87.7	87.9	88.2	87.9	87.7	87.9	87.7	87.9	87.7
70.5°	84.5	84.7	84.7	84.7	85.0	84.7	84.7	84.7	84.5	84.7	84.7
71°	81.5	81.5	81.5	81.5	81.8	81.5	81.5	81.5	81.5	81.5	81.5
71.5°	78.3	78.3	78.6	78.6	78.6	78.6	78.6	78.3	78.3	78.3	78.6
72°	75.3	75.3	75.3	75.6	75.6	75.6	75.3	75.3	75.3	75.3	75.3
72.5°	72.4	72.4	72.4	72.6	72.6	72.6	72.4	72.4	72.4	72.4	72.4
73°	69.4	69.4	69.4	69.7	69.7	69.7	69.4	69.4	69.4	69.4	69.4
73.5°	66.5	66.5	66.7	66.7	66.7	66.7	66.7	66.5	66.5	66.5	66.7
74°	63.7	63.7	63.7	64.0	64.0	64.0	63.7	63.7	63.7	63.7	63.7
74.5°	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0	61.0
75°	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3	58.3
75.5°	55.6	55.6	55.6	55.6	55.8	55.6	55.6	55.6	55.6	55.6	55.6
76°	53.1	52.9	52.9	53.1	53.1	53.1	52.9	52.9	53.1	52.9	52.9
76.5°	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4	50.4
77°	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9	47.9
77.5°	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5	45.5
78°	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0	43.0
78.5°	40.8	40.8	40.5	40.5	40.8	40.5	40.5	40.8	40.8	40.8	40.5
79°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
79.5°	36.1	36.1	35.8	36.1	36.1	36.1	35.8	36.1	36.1	36.1	35.8
80°	33.8	33.8	33.6	33.6	33.6	33.6	33.6	33.8	33.8	33.8	33.6
80.5°	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6	31.6
81°	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4	29.4
81.5°	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
82°	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2	25.2
82.5°	23.2	23.2	23.2	23.2	23.0	23.2	23.2	23.2	23.2	23.2	23.2
83°	21.2	21.2	21.2	21.0	21.0	21.0	21.2	21.2	21.2	21.2	21.2
83.5°	19.3	19.3	19.3	19.0	19.0	19.0	19.3	19.3	19.3	19.3	19.3
84°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
84.5°	15.6	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.6	15.3	15.3
85°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
85.5°	11.9	11.6	11.9	11.6	11.9	11.6	11.9	11.6	11.9	11.6	11.9
86°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
86.5°	8.4	8.2	8.2	8.2	8.4	8.2	8.2	8.2	8.4	8.2	8.2
87°	6.7	6.7	6.7	6.4	6.7	6.4	6.7	6.7	6.7	6.7	6.7
87.5°	4.9	4.9	4.9	4.9	5.2	4.9	4.9	4.9	4.9	4.9	4.9
88°	3.2	3.5	3.5	3.7	3.7	3.7	3.5	3.5	3.2	3.5	3.5
88.5°	2.0	2.0	2.2	2.5	3.0	2.5	2.2	2.0	2.0	2.0	2.2



TEST NUMBER: P775971  
CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-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	0.5	0.7	0.5	0.2	0.0	0.0	0.0	0.2



TEST NUMBER: P775971

CATALOG NUMBER: HCDJBL5125CSD-HCD42TRMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1844.7	1844.7	1844.7	1844.7	1844.7	1844.7
0.5°	1844.0	1843.2	1844.0	1844.2	1844.7	1845.0
1°	1843.5	1842.5	1843.5	1843.7	1844.0	1844.2
1.5°	1842.2	1841.5	1842.2	1842.7	1842.7	1843.2
2°	1840.8	1839.8	1840.8	1841.0	1841.5	1841.7
2.5°	1838.8	1837.5	1838.8	1839.0	1839.5	1840.0
3°	1836.1	1834.8	1836.1	1836.6	1837.0	1837.5
3.5°	1833.1	1832.4	1833.1	1833.6	1834.3	1834.8
4°	1829.9	1828.6	1829.9	1830.4	1831.4	1831.6
4.5°	1826.2	1824.7	1826.2	1826.7	1827.7	1828.2
5°	1822.5	1820.7	1822.5	1823.0	1824.0	1824.7
5.5°	1817.5	1816.0	1817.5	1818.0	1819.3	1821.0
6°	1812.3	1810.4	1812.3	1813.1	1814.3	1815.3
6.5°	1806.7	1804.7	1806.7	1807.4	1808.9	1809.6
7°	1800.7	1799.0	1800.7	1802.0	1802.7	1803.7
7.5°	1794.6	1792.8	1794.6	1795.0	1796.0	1797.0
8°	1787.4	1786.4	1787.4	1788.1	1789.1	1789.9
8.5°	1779.7	1778.7	1779.7	1780.5	1781.5	1782.4
9°	1771.8	1770.8	1771.8	1772.6	1773.8	1774.5
9.5°	1763.4	1762.4	1763.4	1764.2	1765.4	1765.9
10°	1754.5	1753.3	1754.5	1755.5	1756.5	1757.3
10.5°	1745.1	1744.2	1745.1	1745.9	1747.1	1747.6
11°	1735.5	1734.3	1735.5	1736.5	1737.5	1738.0
11.5°	1725.4	1724.4	1725.4	1726.4	1727.4	1727.9
12°	1715.0	1714.0	1715.0	1716.2	1717.0	1717.5
12.5°	1704.1	1702.9	1704.1	1705.4	1706.1	1706.6
13°	1693.3	1692.0	1693.3	1694.3	1695.0	1695.5
13.5°	1681.9	1680.9	1681.9	1682.9	1683.4	1683.9
14°	1670.3	1669.3	1670.3	1671.3	1671.8	1672.0
14.5°	1658.2	1657.2	1658.2	1659.2	1659.4	1659.7
15°	1646.3	1645.3	1646.3	1646.8	1647.3	1647.3
15.5°	1634.5	1634.0	1634.5	1635.0	1634.5	1634.5
16°	1622.9	1622.4	1622.9	1623.1	1622.4	1622.1
16.5°	1611.2	1611.0	1611.2	1611.2	1610.3	1609.8
17°	1599.4	1599.6	1599.4	1599.6	1598.6	1598.2
17.5°	1587.8	1587.5	1587.8	1588.0	1587.3	1586.8
18°	1575.9	1575.4	1575.9	1576.4	1575.9	1575.7
18.5°	1563.3	1562.6	1563.3	1563.8	1563.8	1563.8
19°	1549.7	1549.0	1549.7	1550.5	1551.0	1551.7
19.5°	1535.4	1534.7	1535.4	1535.9	1537.4	1538.4
20°	1520.1	1518.4	1520.1	1519.8	1522.6	1523.8
20.5°	1503.5	1501.6	1503.5	1502.5	1505.8	1507.7
21°	1485.5	1483.0	1485.5	1484.3	1488.0	1490.9



TEST NUMBER: P775971

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1423.7	1422.5	1423.7	1424.0	1426.5	1429.4
23°	1401.3	1400.8	1401.3	1403.0	1403.5	1405.9
23.5°	1378.0	1379.3	1378.0	1381.0	1379.8	1382.0
24°	1354.3	1356.5	1354.3	1358.3	1355.3	1357.0
24.5°	1330.4	1333.3	1330.4	1334.3	1330.6	1331.3
25°	1306.4	1308.6	1306.4	1309.4	1304.9	1304.4
25.5°	1282.4	1282.9	1282.4	1283.7	1279.7	1276.5
26°	1257.5	1255.5	1257.5	1257.2	1253.5	1247.8
26.5°	1231.5	1227.1	1231.5	1229.8	1226.8	1218.4
27°	1204.9	1198.2	1204.9	1202.1	1199.2	1189.8
27.5°	1177.4	1168.8	1177.4	1174.0	1170.5	1161.6
28°	1148.8	1139.4	1148.8	1145.3	1141.9	1133.5
28.5°	1119.6	1111.0	1119.6	1116.7	1112.7	1106.0
29°	1090.0	1084.0	1090.0	1088.0	1083.3	1078.9
29.5°	1060.3	1057.6	1060.3	1059.6	1054.4	1052.2
30°	1030.7	1030.9	1030.7	1030.4	1024.8	1025.5
30.5°	1002.0	1005.7	1002.0	1001.5	996.1	997.8
31°	973.4	979.1	973.4	972.4	966.7	970.4
31.5°	945.0	952.1	945.0	943.2	938.5	942.2
32°	917.0	924.5	917.0	914.3	910.1	913.6
32.5°	889.4	896.8	889.4	885.9	882.9	885.9
33°	861.7	868.6	861.7	856.8	855.8	858.0
33.5°	834.0	840.2	834.0	827.9	828.6	833.0
34°	806.9	813.3	806.9	799.2	801.4	806.1
34.5°	779.4	786.6	779.4	771.3	774.5	779.4
35°	753.0	760.7	753.0	744.8	748.3	752.5
35.5°	726.8	735.2	726.8	718.7	722.4	726.3
36°	701.6	710.3	701.6	693.2	696.4	700.6
36.5°	676.7	684.8	676.7	668.5	671.5	675.2
37°	652.5	659.6	652.5	644.3	646.8	649.5
37.5°	629.2	634.4	629.2	621.1	622.8	624.5
38°	606.5	609.5	606.5	598.8	599.6	599.8
38.5°	584.3	585.5	584.3	577.6	577.1	576.6
39°	562.8	562.5	562.8	556.4	555.4	554.1
39.5°	541.5	540.8	541.5	536.1	534.4	532.1
40°	521.0	520.0	521.0	516.6	513.6	511.1
40.5°	501.0	500.8	501.0	497.8	493.8	491.4
41°	482.2	483.0	482.2	480.0	474.8	472.4
41.5°	464.2	466.4	464.2	463.0	457.0	454.3
42°	447.4	450.4	447.4	446.7	440.2	437.5
42.5°	431.6	434.8	431.6	431.3	424.4	421.7
43°	416.8	419.7	416.8	416.3	409.6	406.6
43.5°	402.4	405.2	402.4	402.2	395.8	392.8

TEST NUMBER: P775971

CATALOG NUMBER: HCDJBLS1525CSD-HCD42TRMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
45°	364.9	366.1	364.9	363.7	359.7	357.2
45.5°	353.8	354.8	353.8	352.5	348.8	346.9
46°	343.6	344.1	343.6	341.9	338.7	337.0
46.5°	333.8	334.3	333.8	331.8	329.3	327.8
47°	324.6	325.4	324.6	322.6	320.2	319.2
47.5°	316.2	317.2	316.2	314.0	311.8	311.0
48°	308.6	309.6	308.6	306.6	304.4	303.4
48.5°	301.4	302.1	301.4	299.4	297.7	297.2
49°	294.5	295.2	294.5	293.0	291.5	291.3
49.5°	288.1	288.3	288.1	286.8	285.8	285.6
50°	281.6	281.9	281.6	280.6	279.9	279.7
50.5°	275.5	275.5	275.5	274.5	274.0	273.7
51°	269.3	269.3	269.3	268.3	267.6	267.1
51.5°	263.1	263.4	263.1	261.9	260.9	260.6
52°	256.7	256.9	256.7	255.4	254.5	254.0
52.5°	250.0	250.5	250.0	249.0	247.8	247.3
53°	243.6	244.1	243.6	242.6	241.6	241.1
53.5°	237.4	237.9	237.4	236.2	235.2	234.7
54°	231.0	231.5	231.0	230.0	229.0	228.8
54.5°	225.1	225.6	225.1	224.1	223.1	222.8
55°	219.1	219.4	219.1	218.4	217.4	216.9
55.5°	213.4	213.7	213.4	212.7	211.7	211.2
56°	207.8	208.0	207.8	207.0	206.3	205.8
56.5°	202.3	202.6	202.3	201.6	200.8	200.4
57°	196.9	197.1	196.9	196.2	195.4	194.9
57.5°	191.5	192.0	191.5	191.0	190.2	189.5
58°	186.5	186.8	186.5	185.8	185.0	184.8
58.5°	181.3	181.6	181.3	180.8	180.1	179.9
59°	176.1	176.6	176.1	175.7	175.2	174.9
59.5°	171.5	171.7	171.5	170.7	170.2	170.0
60°	166.5	166.8	166.5	166.0	165.5	165.3
60.5°	161.8	162.1	161.8	161.3	160.8	160.6
61°	157.4	157.6	157.4	156.9	156.4	156.1
61.5°	152.9	153.2	152.9	152.4	151.9	151.7
62°	148.5	148.5	148.5	148.0	147.5	147.5
62.5°	144.0	144.3	144.0	143.5	143.3	143.0
63°	139.8	139.8	139.8	139.3	139.1	138.8
63.5°	135.6	135.9	135.6	135.1	134.9	134.6
64°	131.4	131.7	131.4	131.2	130.9	130.7
64.5°	127.5	127.7	127.5	127.2	127.0	126.7
65°	123.5	123.8	123.5	123.3	123.0	122.8
65.5°	119.8	119.8	119.8	119.3	119.1	119.1
66°	115.9	116.1	115.9	115.6	115.4	115.1



TEST NUMBER: P775971

CATALOG NUMBER: HCDJBL51525CSD-HCD42TRMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	105.0	105.0	105.0	104.7	104.5	104.3
68°	101.5	101.5	101.5	101.3	101.0	100.8
68.5°	97.8	98.1	97.8	97.8	97.6	97.3
69°	94.6	94.6	94.6	94.1	94.1	94.1
69.5°	91.2	91.4	91.2	90.9	90.9	90.7
70°	87.9	88.2	87.9	87.7	87.9	87.7
70.5°	84.7	85.0	84.7	84.7	84.7	84.5
71°	81.5	81.8	81.5	81.5	81.5	81.5
71.5°	78.6	78.6	78.6	78.6	78.3	78.3
72°	75.6	75.6	75.6	75.3	75.3	75.3
72.5°	72.6	72.6	72.6	72.4	72.4	72.4
73°	69.7	69.7	69.7	69.4	69.4	69.4
73.5°	66.7	66.7	66.7	66.7	66.5	66.5
74°	64.0	64.0	64.0	63.7	63.7	63.7
74.5°	61.0	61.0	61.0	61.0	61.0	61.0
75°	58.3	58.3	58.3	58.3	58.3	58.3
75.5°	55.6	55.8	55.6	55.6	55.6	55.6
76°	53.1	53.1	53.1	52.9	52.9	53.1
76.5°	50.4	50.4	50.4	50.4	50.4	50.4
77°	47.9	47.9	47.9	47.9	47.9	47.9
77.5°	45.5	45.5	45.5	45.5	45.5	45.5
78°	43.0	43.0	43.0	43.0	43.0	43.0
78.5°	40.5	40.8	40.5	40.5	40.8	40.8
79°	38.3	38.3	38.3	38.3	38.3	38.3
79.5°	36.1	36.1	36.1	35.8	36.1	36.1
80°	33.6	33.6	33.6	33.6	33.8	33.8
80.5°	31.6	31.6	31.6	31.6	31.6	31.6
81°	29.4	29.4	29.4	29.4	29.4	29.4
81.5°	27.2	27.2	27.2	27.2	27.2	27.2
82°	25.2	25.2	25.2	25.2	25.2	25.2
82.5°	23.2	23.0	23.2	23.2	23.2	23.2
83°	21.0	21.0	21.0	21.2	21.2	21.2
83.5°	19.0	19.0	19.0	19.3	19.3	19.3
84°	17.3	17.3	17.3	17.3	17.3	17.3
84.5°	15.3	15.3	15.3	15.3	15.3	15.6
85°	13.6	13.6	13.6	13.6	13.6	13.6
85.5°	11.6	11.9	11.6	11.9	11.6	11.9
86°	9.9	9.9	9.9	9.9	9.9	9.9
86.5°	8.2	8.4	8.2	8.2	8.2	8.4
87°	6.4	6.7	6.4	6.7	6.7	6.7
87.5°	4.9	5.2	4.9	4.9	4.9	4.9
88°	3.7	3.7	3.7	3.5	3.5	3.2
88.5°	2.5	3.0	2.5	2.2	2.0	2.0



TEST NUMBER: P775971

CATALOG NUMBER: HCDJBL1525CSD-HCD42TRMW-2500lm-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.5	0.7	0.5	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°	1471.4	1468.9	1464.7	1466.0	1463.5	1466.0	1464.7	1468.9	1471.4	1468.9	1464.7
22°	1450.9	1448.4	1444.7	1445.2	1442.8	1445.2	1444.7	1448.4	1450.9	1448.4	1444.7



44°	380.0	382.9	388.6	389.1	391.6	389.1	388.6	382.9	380.0	382.9	388.6
44.5°	368.1	371.1	376.0	376.7	378.5	376.7	376.0	371.1	368.1	371.1	376.0



66.5°	111.4	111.7	111.9	112.2	112.4	112.2	111.9	111.7	111.4	111.7	111.9
67°	108.0	108.0	108.2	108.5	108.7	108.5	108.2	108.0	108.0	108.0	108.2



89°	0.7	1.0	1.5	1.7	2.0	1.7	1.5	1.0	0.7	1.0	1.5
89.5°	0.0	0.2	0.7	1.0	1.2	1.0	0.7	0.2	0.0	0.2	0.7



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

Scaled Data Report





21.5°	1466.0	1463.5	1466.0	1464.7	1468.9	1471.4
22°	1445.2	1442.8	1445.2	1444.7	1448.4	1450.9



44°	389.1	391.6	389.1	388.6	382.9	380.0
44.5°	376.7	378.5	376.7	376.0	371.1	368.1

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

Scaled Data Report



66.5°	112.2	112.4	112.2	111.9	111.7	111.4
67°	108.5	108.7	108.5	108.2	108.0	108.0

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

Scaled Data Report



89°	1.7	2.0	1.7	1.5	1.0	0.7
89.5°	1.0	1.2	1.0	0.7	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)