

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: P776169

Luminaire Tested: HCDJBL51525CSD-HCD82TRMB-2500lm-5000K

Issue Date: 2/13/2024

Test Information

Test Method: LM-79-2019
Report Number: P776169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B065-HCD82TRMB)
Test Lab:
Issue Date: 2/13/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL51525CSD-HCD82TRMB-2500lm-5000K
Description: 8 INCH ROUND NARROW MATTE BLACK TRIM
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

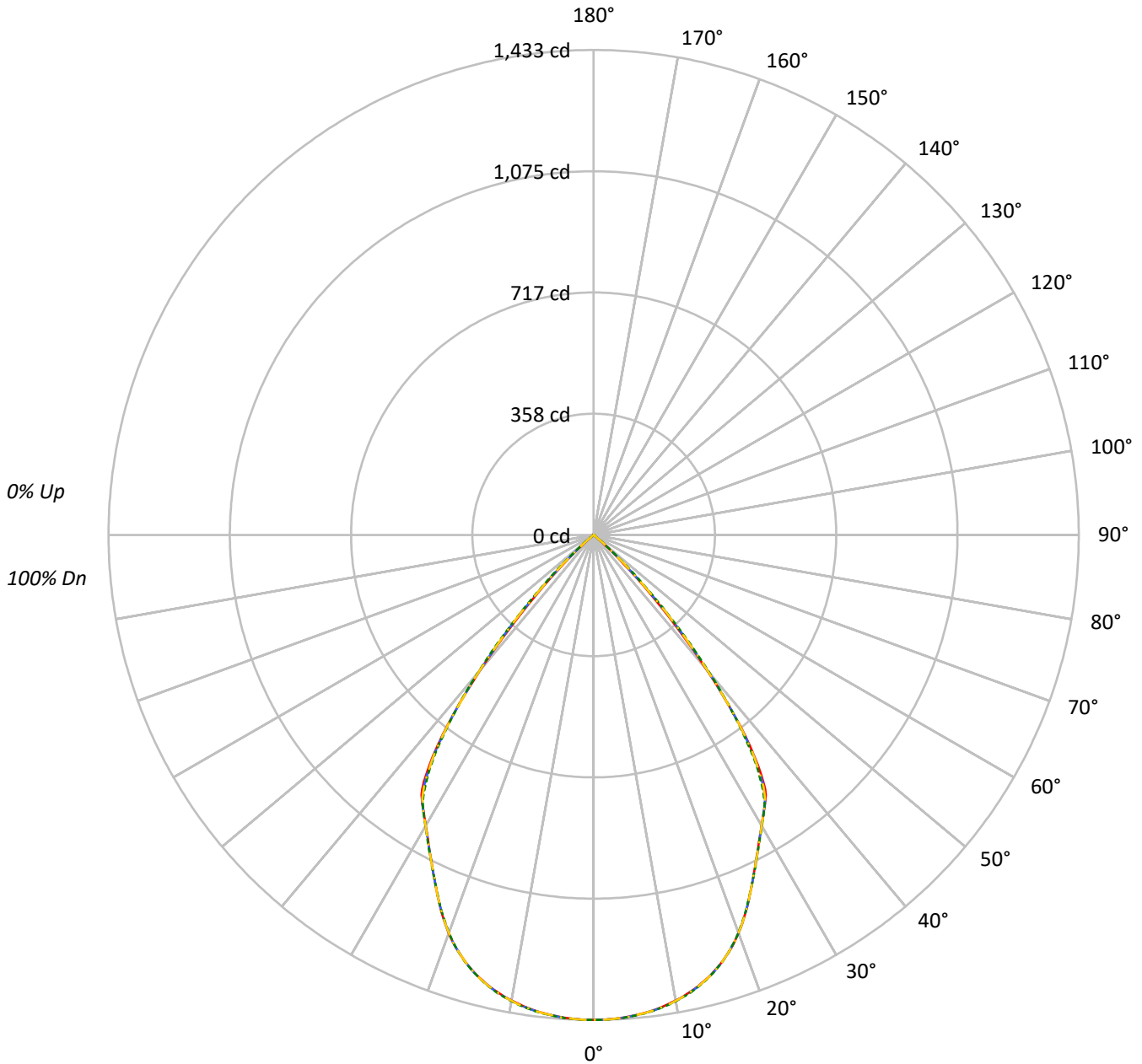
Lumens per Lamp: N/A
Luminaire Lumens: 1704.6 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.08
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 25
Input Voltage (V): NR
Input Current (A_{in}): 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: P776169
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P776169

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-5000K

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					100			
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93					93			
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86					86			
3	101	95	89	85	99	93	88	85	91	86	83	88	85	82	86	83	81	79					79			
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	81	77	74	73					73			
5	90	82	75	71	89	81	75	70	79	74	70	77	73	69	75	72	69	67					67			
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62					62			
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57					57			
8	76	66	60	55	75	66	60	55	64	59	55	63	58	55	62	58	55	53					53			
9	72	62	56	51	71	61	55	51	60	55	51	60	55	51	59	54	51	49					49			
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46					46			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	43756	43756	43756	43756
5°	43653	43693	43653	43693
10°	43309	43374	43309	43374
15°	42474	42515	42474	42515
20°	40674	40632	40674	40632
25°	37570	37604	37570	37604
30°	34975	35031	34975	35031
35°	32109	31453	32109	31453
40°	20716	21294	20716	21294
45°	7603	9140	7603	9140
50°	869	1396	869	1396
55°	138	138	138	138
60°	79	79	79	79
65°	58	58	58	58
70°	45	45	45	45
75°	35	35	35	35
80°	0	0	0	0
85°	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9140 cd/sqm



TEST NUMBER: P776169

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.2	7.9
10°-20°	377.0	22.1
20°-30°	513.9	30.1
30°-40°	507.4	29.8
40°-50°	166.2	9.7
50°-60°	3.9	0.2
60°-70°	0.8	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°	1026.0	60.2
0°-40°	1533.5	90.0
0°-60°	1703.5	99.9
0°-90°	1704.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1433	1433	1433	1433	1433	
5°	1424	1426	1424	1426	1424	135
15°	1344	1345	1344	1345	1344	377
25°	1115	1116	1115	1116	1115	514
35°	862	844	862	844	862	509
45°	176	212	176	212	176	156
55°	3	3	3	3	3	3
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	



TEST NUMBER: P776169

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2
0.5°	1432.9	1432.9	1433.2	1432.9	1433.2	1432.9	1433.2	1432.9	1432.9	1432.9	1433.2
1°	1432.7	1432.7	1432.9	1432.7	1433.2	1432.7	1432.9	1432.7	1432.7	1432.7	1432.9
1.5°	1432.2	1432.4	1432.4	1432.4	1432.7	1432.4	1432.4	1432.4	1432.2	1432.4	1432.4
2°	1431.6	1431.6	1431.9	1431.9	1432.2	1431.9	1431.9	1431.6	1431.6	1431.6	1431.9
2.5°	1430.9	1431.1	1431.1	1431.1	1431.4	1431.1	1431.1	1431.1	1430.9	1431.1	1431.1
3°	1430.1	1430.1	1430.3	1430.3	1430.6	1430.3	1430.3	1430.1	1430.1	1430.1	1430.3
3.5°	1429.1	1429.1	1429.3	1429.3	1429.6	1429.3	1429.3	1429.1	1429.1	1429.1	1429.3
4°	1427.8	1427.8	1428.0	1428.0	1428.5	1428.0	1428.0	1427.8	1427.8	1427.8	1428.0
4.5°	1426.2	1426.2	1426.5	1426.7	1427.0	1426.7	1426.5	1426.2	1426.2	1426.2	1426.5
5°	1424.4	1424.7	1424.9	1425.2	1425.7	1425.2	1424.9	1424.7	1424.4	1424.7	1424.9
5.5°	1422.9	1422.9	1423.1	1423.4	1423.9	1423.4	1423.1	1422.9	1422.9	1422.9	1423.1
6°	1420.8	1420.8	1421.3	1421.6	1422.1	1421.6	1421.3	1420.8	1420.8	1420.8	1421.3
6.5°	1418.5	1418.7	1419.2	1419.5	1420.0	1419.5	1419.2	1418.7	1418.5	1418.7	1419.2
7°	1416.1	1416.1	1416.9	1417.2	1417.7	1417.2	1416.9	1416.1	1416.1	1416.1	1416.9
7.5°	1413.6	1413.6	1414.3	1414.6	1415.1	1414.6	1414.3	1413.6	1413.6	1413.6	1414.3
8°	1410.7	1411.0	1411.5	1412.0	1412.5	1412.0	1411.5	1411.0	1410.7	1411.0	1411.5
8.5°	1407.6	1407.9	1408.4	1408.9	1409.4	1408.9	1408.4	1407.9	1407.6	1407.9	1408.4
9°	1404.3	1404.5	1405.3	1405.8	1406.3	1405.8	1405.3	1404.5	1404.3	1404.5	1405.3
9.5°	1400.6	1400.9	1401.7	1402.5	1403.0	1402.5	1401.7	1400.9	1400.6	1400.9	1401.7
10°	1397.0	1397.3	1397.8	1398.6	1399.1	1398.6	1397.8	1397.3	1397.0	1397.3	1397.8
10.5°	1392.9	1393.2	1393.9	1394.7	1395.2	1394.7	1393.9	1393.2	1392.9	1393.2	1393.9
11°	1388.8	1389.0	1389.8	1390.3	1390.8	1390.3	1389.8	1389.0	1388.8	1389.0	1389.8
11.5°	1384.1	1384.4	1385.2	1385.7	1386.4	1385.7	1385.2	1384.4	1384.1	1384.4	1385.2
12°	1379.5	1379.5	1380.2	1381.0	1381.5	1381.0	1380.2	1379.5	1379.5	1379.5	1380.2
12.5°	1374.3	1374.3	1375.1	1375.9	1376.4	1375.9	1375.1	1374.3	1374.3	1374.3	1375.1
13°	1368.9	1369.1	1369.7	1370.4	1370.7	1370.4	1369.7	1369.1	1368.9	1369.1	1369.7
13.5°	1362.9	1363.2	1364.0	1364.5	1365.0	1364.5	1364.0	1363.2	1362.9	1363.2	1364.0
14°	1357.0	1357.3	1357.8	1358.3	1358.8	1358.3	1357.8	1357.3	1357.0	1357.3	1357.8
14.5°	1350.5	1350.8	1351.3	1351.8	1352.4	1351.8	1351.3	1350.8	1350.5	1350.8	1351.3
15°	1343.8	1343.8	1344.4	1344.9	1345.1	1344.9	1344.4	1343.8	1343.8	1343.8	1344.4
15.5°	1336.6	1336.6	1337.1	1337.6	1337.9	1337.6	1337.1	1336.6	1336.6	1336.6	1337.1
16°	1328.9	1329.1	1329.4	1329.6	1330.1	1329.6	1329.4	1329.1	1328.9	1329.1	1329.4
16.5°	1321.1	1321.1	1321.4	1321.6	1321.9	1321.6	1321.4	1321.1	1321.1	1321.1	1321.4
17°	1312.6	1312.6	1312.8	1313.1	1313.4	1313.1	1312.8	1312.6	1312.6	1312.6	1312.8
17.5°	1303.6	1303.6	1303.8	1303.8	1304.1	1303.8	1303.8	1303.6	1303.6	1303.6	1303.8
18°	1294.5	1294.3	1294.3	1294.3	1294.5	1294.3	1294.3	1294.3	1294.5	1294.3	1294.3
18.5°	1284.4	1284.4	1284.2	1284.2	1284.2	1284.2	1284.2	1284.4	1284.4	1284.4	1284.2
19°	1274.1	1274.1	1273.9	1273.6	1273.6	1273.6	1273.9	1274.1	1274.1	1274.1	1273.9
19.5°	1263.3	1263.0	1262.8	1262.5	1262.5	1262.5	1262.8	1263.0	1263.3	1263.0	1262.8
20°	1251.9	1251.6	1251.4	1250.9	1250.6	1250.9	1251.4	1251.6	1251.9	1251.6	1251.4
20.5°	1239.8	1239.5	1239.0	1238.5	1238.2	1238.5	1239.0	1239.5	1239.8	1239.5	1239.0
21°	1227.1	1227.1	1226.6	1225.6	1225.0	1225.6	1226.6	1227.1	1227.1	1227.1	1226.6



TEST NUMBER: P776169

CATALOG NUMBER: HCDJBL1525CSD-HCD82TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	1186.6	1186.6	1186.1	1185.3	1185.3	1185.3	1186.1	1186.6	1186.6	1186.6	1186.1
23°	1172.4	1172.4	1172.1	1171.3	1171.3	1171.3	1172.1	1172.4	1172.4	1172.4	1172.1
23.5°	1157.9	1158.2	1157.9	1157.4	1157.4	1157.4	1157.9	1158.2	1157.9	1158.2	1157.9
24°	1143.4	1143.7	1143.7	1143.4	1143.7	1143.4	1143.7	1143.7	1143.4	1143.7	1143.7
24.5°	1129.5	1129.5	1129.8	1129.5	1130.0	1129.5	1129.8	1129.5	1129.5	1129.5	1129.8
25°	1115.3	1115.6	1115.8	1115.8	1116.3	1115.8	1115.8	1115.6	1115.3	1115.6	1115.8
25.5°	1101.9	1101.9	1102.1	1102.4	1102.9	1102.4	1102.1	1101.9	1101.9	1101.9	1102.1
26°	1088.4	1088.7	1089.0	1089.2	1089.7	1089.2	1089.0	1088.7	1088.4	1088.7	1089.0
26.5°	1075.3	1075.5	1075.8	1076.1	1076.8	1076.1	1075.8	1075.5	1075.3	1075.5	1075.8
27°	1062.6	1062.6	1063.1	1063.1	1063.9	1063.1	1063.1	1062.6	1062.6	1062.6	1063.1
27.5°	1050.0	1050.2	1050.5	1051.0	1051.5	1051.0	1050.5	1050.2	1050.0	1050.2	1050.5
28°	1037.6	1037.8	1038.3	1038.6	1039.4	1038.6	1038.3	1037.8	1037.6	1037.8	1038.3
28.5°	1025.7	1026.2	1026.5	1026.7	1027.5	1026.7	1026.5	1026.2	1025.7	1026.2	1026.5
29°	1014.3	1014.6	1014.8	1015.1	1015.9	1015.1	1014.8	1014.6	1014.3	1014.6	1014.8
29.5°	1003.0	1003.2	1003.7	1004.0	1004.5	1004.0	1003.7	1003.2	1003.0	1003.2	1003.7
30°	992.1	992.1	992.6	992.9	993.7	992.9	992.6	992.1	992.1	992.1	992.6
30.5°	981.3	981.5	981.8	982.3	982.8	982.3	981.8	981.5	981.3	981.5	981.8
31°	970.9	971.2	971.7	972.0	972.8	972.0	971.7	971.2	970.9	971.2	971.7
31.5°	961.1	961.4	961.4	961.7	962.2	961.7	961.4	961.4	961.1	961.4	961.4
32°	951.6	951.6	951.6	951.3	951.8	951.3	951.6	951.6	951.6	951.6	951.6
32.5°	942.3	942.0	941.5	940.5	939.4	940.5	941.5	942.0	942.3	942.0	941.5
33°	932.2	931.7	929.1	926.5	923.7	926.5	929.1	931.7	932.2	931.7	929.1
33.5°	921.4	918.8	913.9	909.5	905.9	909.5	913.9	918.8	921.4	918.8	913.9
34°	905.9	902.5	895.8	890.1	886.2	890.1	895.8	902.5	905.9	902.5	895.8
34.5°	885.5	882.6	875.1	869.7	865.8	869.7	875.1	882.6	885.5	882.6	875.1
35°	861.5	858.6	851.9	847.5	843.9	847.5	851.9	858.6	861.5	858.6	851.9
35.5°	835.1	833.6	827.4	822.7	819.1	822.7	827.4	833.6	835.1	833.6	827.4
36°	807.0	805.7	800.5	795.9	792.0	795.9	800.5	805.7	807.0	805.7	800.5
36.5°	777.0	776.0	771.6	766.7	762.6	766.7	771.6	776.0	777.0	776.0	771.6
37°	743.4	742.7	740.1	736.5	732.3	736.5	740.1	742.7	743.4	742.7	740.1
37.5°	708.8	707.8	706.8	704.5	701.1	704.5	706.8	707.8	708.8	707.8	706.8
38°	672.2	670.6	671.1	670.9	669.3	670.9	671.1	670.6	672.2	670.6	671.1
38.5°	636.5	634.2	634.7	636.0	637.3	636.0	634.7	634.2	636.5	634.2	634.7
39°	598.1	597.3	597.8	600.9	604.3	600.9	597.8	597.3	598.1	597.3	597.8
39.5°	559.8	560.4	561.4	565.3	569.9	565.3	561.4	560.4	559.8	560.4	561.4
40°	519.8	522.4	524.7	529.9	534.3	529.9	524.7	522.4	519.8	522.4	524.7
40.5°	481.3	485.0	489.3	495.0	498.9	495.0	489.3	485.0	481.3	485.0	489.3
41°	441.8	446.7	454.0	460.4	464.3	460.4	454.0	446.7	441.8	446.7	454.0
41.5°	404.4	409.6	418.3	426.1	429.7	426.1	418.3	409.6	404.4	409.6	418.3
42°	367.7	372.4	382.7	392.0	395.4	392.0	382.7	372.4	367.7	372.4	382.7
42.5°	332.1	337.8	349.4	358.7	361.8	358.7	349.4	337.8	332.1	337.8	349.4
43°	297.7	304.2	315.8	325.6	329.0	325.6	315.8	304.2	297.7	304.2	315.8
43.5°	265.7	271.9	283.3	293.4	298.0	293.4	283.3	271.9	265.7	271.9	283.3



TEST NUMBER: P776169

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	176.1	181.5	193.4	205.3	211.7	205.3	193.4	181.5	176.1	181.5	193.4
45.5°	149.0	155.5	167.6	180.0	185.9	180.0	167.6	155.5	149.0	155.5	167.6
46°	125.2	130.7	144.4	156.5	163.7	156.5	144.4	130.7	125.2	130.7	144.4
46.5°	103.8	109.5	122.4	134.0	141.8	134.0	122.4	109.5	103.8	109.5	122.4
47°	87.0	90.4	101.2	112.8	119.6	112.8	101.2	90.4	87.0	90.4	101.2
47.5°	71.0	73.1	82.9	93.0	97.4	93.0	82.9	73.1	71.0	73.1	82.9
48°	56.6	58.6	66.1	75.1	79.8	75.1	66.1	58.6	56.6	58.6	66.1
48.5°	45.4	46.5	52.9	59.7	63.8	59.7	52.9	46.5	45.4	46.5	52.9
49°	34.1	35.4	40.8	47.3	49.6	47.3	40.8	35.4	34.1	35.4	40.8
49.5°	25.8	26.3	30.0	35.6	38.7	35.6	30.0	26.3	25.8	26.3	30.0
50°	18.3	17.8	22.7	27.9	29.4	27.9	22.7	17.8	18.3	17.8	22.7
50.5°	11.4	12.4	16.0	20.9	23.8	20.9	16.0	12.4	11.4	12.4	16.0
51°	6.2	8.3	11.1	13.9	18.1	13.9	11.1	8.3	6.2	8.3	11.1
51.5°	4.9	5.2	7.2	9.0	13.4	9.0	7.2	5.2	4.9	5.2	7.2
52°	4.1	4.4	4.6	5.7	8.8	5.7	4.6	4.4	4.1	4.4	4.6
52.5°	3.4	3.9	3.9	4.4	4.1	4.4	3.9	3.9	3.4	3.9	3.9
53°	3.4	3.4	3.6	3.6	3.4	3.6	3.6	3.4	3.4	3.4	3.6
53.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
54°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
54.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
55°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
55.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
56°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
56.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
57°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
57.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
58°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
58.5°	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.5	1.8	1.8
59°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
59.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
60.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
61°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
61.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
63°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
63.5°	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.8	1.0	1.0
64°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
64.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
66°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P776169

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3	0.5	0.5
71°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3
78°	0.0	0.0	0.0	0.3	0.3	0.3	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: P776169
CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-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: P776169

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1433.2	1433.2	1433.2	1433.2	1433.2	1433.2
0.5°	1432.9	1433.2	1432.9	1433.2	1432.9	1432.9
1°	1432.7	1433.2	1432.7	1432.9	1432.7	1432.7
1.5°	1432.4	1432.7	1432.4	1432.4	1432.4	1432.2
2°	1431.9	1432.2	1431.9	1431.9	1431.6	1431.6
2.5°	1431.1	1431.4	1431.1	1431.1	1431.1	1430.9
3°	1430.3	1430.6	1430.3	1430.3	1430.1	1430.1
3.5°	1429.3	1429.6	1429.3	1429.3	1429.1	1429.1
4°	1428.0	1428.5	1428.0	1428.0	1427.8	1427.8
4.5°	1426.7	1427.0	1426.7	1426.5	1426.2	1426.2
5°	1425.2	1425.7	1425.2	1424.9	1424.7	1424.4
5.5°	1423.4	1423.9	1423.4	1423.1	1422.9	1422.9
6°	1421.6	1422.1	1421.6	1421.3	1420.8	1420.8
6.5°	1419.5	1420.0	1419.5	1419.2	1418.7	1418.5
7°	1417.2	1417.7	1417.2	1416.9	1416.1	1416.1
7.5°	1414.6	1415.1	1414.6	1414.3	1413.6	1413.6
8°	1412.0	1412.5	1412.0	1411.5	1411.0	1410.7
8.5°	1408.9	1409.4	1408.9	1408.4	1407.9	1407.6
9°	1405.8	1406.3	1405.8	1405.3	1404.5	1404.3
9.5°	1402.5	1403.0	1402.5	1401.7	1400.9	1400.6
10°	1398.6	1399.1	1398.6	1397.8	1397.3	1397.0
10.5°	1394.7	1395.2	1394.7	1393.9	1393.2	1392.9
11°	1390.3	1390.8	1390.3	1389.8	1389.0	1388.8
11.5°	1385.7	1386.4	1385.7	1385.2	1384.4	1384.1
12°	1381.0	1381.5	1381.0	1380.2	1379.5	1379.5
12.5°	1375.9	1376.4	1375.9	1375.1	1374.3	1374.3
13°	1370.4	1370.7	1370.4	1369.7	1369.1	1368.9
13.5°	1364.5	1365.0	1364.5	1364.0	1363.2	1362.9
14°	1358.3	1358.8	1358.3	1357.8	1357.3	1357.0
14.5°	1351.8	1352.4	1351.8	1351.3	1350.8	1350.5
15°	1344.9	1345.1	1344.9	1344.4	1343.8	1343.8
15.5°	1337.6	1337.9	1337.6	1337.1	1336.6	1336.6
16°	1329.6	1330.1	1329.6	1329.4	1329.1	1328.9
16.5°	1321.6	1321.9	1321.6	1321.4	1321.1	1321.1
17°	1313.1	1313.4	1313.1	1312.8	1312.6	1312.6
17.5°	1303.8	1304.1	1303.8	1303.8	1303.6	1303.6
18°	1294.3	1294.5	1294.3	1294.3	1294.3	1294.5
18.5°	1284.2	1284.2	1284.2	1284.2	1284.4	1284.4
19°	1273.6	1273.6	1273.6	1273.9	1274.1	1274.1
19.5°	1262.5	1262.5	1262.5	1262.8	1263.0	1263.3
20°	1250.9	1250.6	1250.9	1251.4	1251.6	1251.9
20.5°	1238.5	1238.2	1238.5	1239.0	1239.5	1239.8
21°	1225.6	1225.0	1225.6	1226.6	1227.1	1227.1



TEST NUMBER: P776169

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1185.3	1185.3	1185.3	1186.1	1186.6	1186.6
23°	1171.3	1171.3	1171.3	1172.1	1172.4	1172.4
23.5°	1157.4	1157.4	1157.4	1157.9	1158.2	1157.9
24°	1143.4	1143.7	1143.4	1143.7	1143.7	1143.4
24.5°	1129.5	1130.0	1129.5	1129.8	1129.5	1129.5
25°	1115.8	1116.3	1115.8	1115.8	1115.6	1115.3
25.5°	1102.4	1102.9	1102.4	1102.1	1101.9	1101.9
26°	1089.2	1089.7	1089.2	1089.0	1088.7	1088.4
26.5°	1076.1	1076.8	1076.1	1075.8	1075.5	1075.3
27°	1063.1	1063.9	1063.1	1063.1	1062.6	1062.6
27.5°	1051.0	1051.5	1051.0	1050.5	1050.2	1050.0
28°	1038.6	1039.4	1038.6	1038.3	1037.8	1037.6
28.5°	1026.7	1027.5	1026.7	1026.5	1026.2	1025.7
29°	1015.1	1015.9	1015.1	1014.8	1014.6	1014.3
29.5°	1004.0	1004.5	1004.0	1003.7	1003.2	1003.0
30°	992.9	993.7	992.9	992.6	992.1	992.1
30.5°	982.3	982.8	982.3	981.8	981.5	981.3
31°	972.0	972.8	972.0	971.7	971.2	970.9
31.5°	961.7	962.2	961.7	961.4	961.4	961.1
32°	951.3	951.8	951.3	951.6	951.6	951.6
32.5°	940.5	939.4	940.5	941.5	942.0	942.3
33°	926.5	923.7	926.5	929.1	931.7	932.2
33.5°	909.5	905.9	909.5	913.9	918.8	921.4
34°	890.1	886.2	890.1	895.8	902.5	905.9
34.5°	869.7	865.8	869.7	875.1	882.6	885.5
35°	847.5	843.9	847.5	851.9	858.6	861.5
35.5°	822.7	819.1	822.7	827.4	833.6	835.1
36°	795.9	792.0	795.9	800.5	805.7	807.0
36.5°	766.7	762.6	766.7	771.6	776.0	777.0
37°	736.5	732.3	736.5	740.1	742.7	743.4
37.5°	704.5	701.1	704.5	706.8	707.8	708.8
38°	670.9	669.3	670.9	671.1	670.6	672.2
38.5°	636.0	637.3	636.0	634.7	634.2	636.5
39°	600.9	604.3	600.9	597.8	597.3	598.1
39.5°	565.3	569.9	565.3	561.4	560.4	559.8
40°	529.9	534.3	529.9	524.7	522.4	519.8
40.5°	495.0	498.9	495.0	489.3	485.0	481.3
41°	460.4	464.3	460.4	454.0	446.7	441.8
41.5°	426.1	429.7	426.1	418.3	409.6	404.4
42°	392.0	395.4	392.0	382.7	372.4	367.7
42.5°	358.7	361.8	358.7	349.4	337.8	332.1
43°	325.6	329.0	325.6	315.8	304.2	297.7
43.5°	293.4	298.0	293.4	283.3	271.9	265.7



TEST NUMBER: P776169

CATALOG NUMBER: HCDJBLS1525CSD-HCD82TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	205.3	211.7	205.3	193.4	181.5	176.1
45.5°	180.0	185.9	180.0	167.6	155.5	149.0
46°	156.5	163.7	156.5	144.4	130.7	125.2
46.5°	134.0	141.8	134.0	122.4	109.5	103.8
47°	112.8	119.6	112.8	101.2	90.4	87.0
47.5°	93.0	97.4	93.0	82.9	73.1	71.0
48°	75.1	79.8	75.1	66.1	58.6	56.6
48.5°	59.7	63.8	59.7	52.9	46.5	45.4
49°	47.3	49.6	47.3	40.8	35.4	34.1
49.5°	35.6	38.7	35.6	30.0	26.3	25.8
50°	27.9	29.4	27.9	22.7	17.8	18.3
50.5°	20.9	23.8	20.9	16.0	12.4	11.4
51°	13.9	18.1	13.9	11.1	8.3	6.2
51.5°	9.0	13.4	9.0	7.2	5.2	4.9
52°	5.7	8.8	5.7	4.6	4.4	4.1
52.5°	4.4	4.1	4.4	3.9	3.9	3.4
53°	3.6	3.4	3.6	3.6	3.4	3.4
53.5°	3.1	3.1	3.1	3.1	3.1	3.1
54°	2.8	2.8	2.8	2.8	2.8	2.8
54.5°	2.8	2.8	2.8	2.8	2.8	2.8
55°	2.6	2.6	2.6	2.6	2.6	2.6
55.5°	2.6	2.6	2.6	2.6	2.6	2.6
56°	2.3	2.3	2.3	2.3	2.3	2.3
56.5°	2.1	2.1	2.1	2.1	2.1	2.1
57°	2.1	2.1	2.1	2.1	2.1	2.1
57.5°	1.8	1.8	1.8	1.8	1.8	1.8
58°	1.8	1.8	1.8	1.8	1.8	1.8
58.5°	1.8	1.8	1.8	1.8	1.8	1.5
59°	1.5	1.5	1.5	1.5	1.5	1.5
59.5°	1.5	1.5	1.5	1.5	1.5	1.5
60°	1.3	1.3	1.3	1.3	1.3	1.3
60.5°	1.3	1.3	1.3	1.3	1.3	1.3
61°	1.3	1.3	1.3	1.3	1.3	1.3
61.5°	1.0	1.0	1.0	1.0	1.0	1.0
62°	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0
63°	1.0	1.0	1.0	1.0	1.0	1.0
63.5°	1.0	1.0	1.0	1.0	1.0	0.8
64°	0.8	0.8	0.8	0.8	0.8	0.8
64.5°	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8
65.5°	0.8	0.8	0.8	0.8	0.8	0.8
66°	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P776169

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	0.5	0.5	0.5	0.5	0.5	0.5
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	0.3
71°	0.3	0.3	0.3	0.3	0.3	0.3
71.5°	0.3	0.3	0.3	0.3	0.3	0.3
72°	0.3	0.3	0.3	0.3	0.3	0.3
72.5°	0.3	0.3	0.3	0.3	0.3	0.3
73°	0.3	0.3	0.3	0.3	0.3	0.3
73.5°	0.3	0.3	0.3	0.3	0.3	0.3
74°	0.3	0.3	0.3	0.3	0.3	0.3
74.5°	0.3	0.3	0.3	0.3	0.3	0.3
75°	0.3	0.3	0.3	0.3	0.3	0.3
75.5°	0.3	0.3	0.3	0.3	0.3	0.3
76°	0.3	0.3	0.3	0.3	0.3	0.3
76.5°	0.3	0.3	0.3	0.3	0.3	0.3
77°	0.3	0.3	0.3	0.3	0.3	0.3
77.5°	0.3	0.3	0.3	0.3	0.3	0.0
78°	0.3	0.3	0.3	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: P776169

CATALOG NUMBER: HCDJBL51525CSD-HCD82TRMB-2500lm-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



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°	1213.9	1213.7	1213.2	1212.4	1212.1	1212.4	1213.2	1213.7	1213.9	1213.7	1213.2
22°	1200.5	1200.3	1199.7	1199.0	1198.7	1199.0	1199.7	1200.3	1200.5	1200.3	1199.7



44°	234.7	239.6	251.5	262.1	268.3	262.1	251.5	239.6	234.7	239.6	251.5
44.5°	205.0	209.7	221.6	233.2	239.4	233.2	221.6	209.7	205.0	209.7	221.6



66.5°	0.5	0.5	0.8	0.8	0.8	0.8	0.8	0.5	0.5	0.5	0.8
67°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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

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

Scaled Data Report





21.5°	1212.4	1212.1	1212.4	1213.2	1213.7	1213.9
22°	1199.0	1198.7	1199.0	1199.7	1200.3	1200.5

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

Scaled Data Report



44°	262.1	268.3	262.1	251.5	239.6	234.7
44.5°	233.2	239.4	233.2	221.6	209.7	205.0

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

Scaled Data Report



66.5°	0.8	0.8	0.8	0.8	0.5	0.5
67°	0.5	0.5	0.5	0.5	0.5	0.5

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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

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

Scaled Data Report



(END OF REPORT)