

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



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P584328

Luminaire Tested: **HCC8S30D010MB-HM82555930-81RWWH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584328  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC8S30D010MB-HM82555930-81RWWH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WALLWASH DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

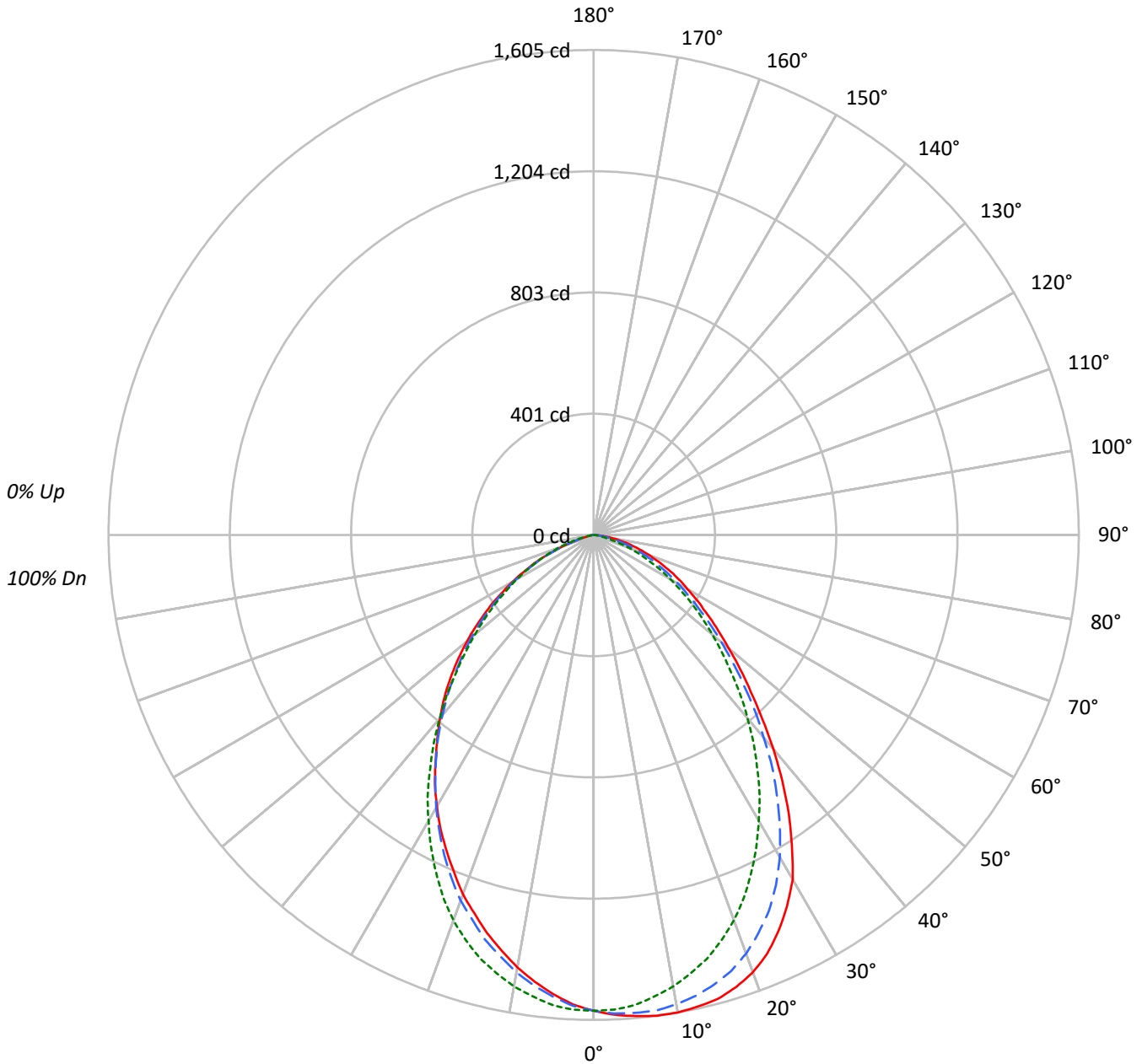
Lumens per Lamp: N/A  
Luminaire Lumens: 2952.4 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.07 / 1.16  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

Input Watts (W): 28  
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: 25 FT



TEST NUMBER: P584328  
CATALOG NUMBER: HCC8S30D010MB-HM82555930-81RWWH

### Luminous Intensity Polar Plot



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



TEST NUMBER: P584328

CATALOG NUMBER: HCC8S30D010MB-HM82555930-81RWWH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					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	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88								
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77								
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67								
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59								
5	81	70	62	56	79	69	62	56	67	60	55	65	59	55	63	58	54	52								
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47								
7	71	58	51	45	69	58	50	45	56	49	45	55	49	44	54	48	44	42								
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38								
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35								
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32								

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

	0°	90°	180°
0°	48564	48564	48564
5°	49477	48353	47230
10°	50250	47510	45506
15°	50753	46328	43535
20°	50559	44537	41528
25°	49229	41969	39209
30°	46883	38904	36931
35°	42338	35506	34301
40°	37195	31873	31785
45°	32105	28010	29222
50°	27949	24572	26208
55°	24784	21338	22832
60°	22110	18033	18958
65°	19927	14637	14951
70°	17698	10963	8854
75°	15262	6362	3813
80°	11738	2273	1137
85°	7536	743	743



TEST NUMBER: P584328  
 CATALOG NUMBER: HCC8S30D010MB-HM82555930-81RWWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.8	5.0
10°-20°	411.6	13.9
20°-30°	582.1	19.7
30°-40°	613.4	20.8
40°-50°	521.3	17.7
50°-60°	375.4	12.7
60°-70°	216.5	7.3
70°-80°	74.1	2.5
80°-90°	10.2	0.3
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°	1141.5	38.7
0°-40°	1754.9	59.4
0°-60°	2651.6	89.8
0°-90°	2952.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1575	1575	1575	1575	1575	
5°	1598	1588	1562	1534	1526	153
15°	1590	1541	1451	1387	1364	448
25°	1447	1372	1234	1169	1152	664
35°	1125	1058	943	909	911	700
45°	736	702	642	647	670	572
55°	461	425	397	412	425	415
65°	273	235	201	196	205	272
75°	128	96	53	34	32	135
85°	21	13	2	2	2	29
90°	0	0	0	0	0	



TEST NUMBER: P584328

CATALOG NUMBER: HCC8S30D010MB-HM82555930-81RWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9
2.5°	1589.8	1592.0	1589.8	1589.8	1587.7	1585.5	1583.4	1581.3	1577.1	1572.8	1572.8
5°	1598.4	1602.7	1598.4	1598.4	1592.0	1587.7	1583.4	1577.1	1568.5	1562.1	1562.1
7.5°	1604.8	1604.8	1604.8	1598.4	1594.1	1587.7	1577.1	1566.4	1555.7	1545.0	1540.7
10°	1604.8	1604.8	1602.7	1594.1	1589.8	1577.1	1566.4	1551.4	1536.5	1521.6	1517.3
12.5°	1598.4	1600.5	1596.2	1587.7	1577.1	1562.1	1547.1	1528.0	1510.9	1493.9	1485.3
15°	1589.8	1587.7	1583.4	1572.8	1560.0	1540.7	1525.8	1504.4	1481.0	1459.6	1451.2
17.5°	1568.5	1568.5	1562.1	1551.4	1534.4	1513.0	1489.6	1466.0	1440.5	1416.9	1406.3
20°	1540.7	1540.7	1532.3	1519.4	1502.3	1474.6	1449.0	1421.2	1391.4	1367.9	1357.2
22.5°	1500.2	1502.3	1491.7	1476.7	1457.5	1425.5	1399.9	1365.8	1335.8	1308.1	1299.6
25°	1446.9	1451.2	1440.5	1425.5	1399.9	1372.2	1340.1	1308.1	1274.0	1246.3	1233.5
27.5°	1384.9	1387.1	1376.4	1361.5	1335.8	1306.0	1274.0	1239.9	1207.9	1177.9	1165.2
30°	1316.7	1308.1	1303.9	1284.7	1256.9	1231.3	1195.1	1167.4	1133.1	1107.6	1092.6
32.5°	1220.6	1224.9	1212.1	1197.2	1175.8	1146.0	1116.1	1084.1	1052.0	1032.9	1022.2
35°	1124.7	1128.8	1122.5	1107.6	1084.1	1058.4	1028.6	1005.1	977.4	953.9	943.2
37.5°	1024.3	1024.3	1020.0	1011.5	994.5	970.9	941.1	917.7	894.1	875.0	868.6
40°	924.0	919.8	917.7	911.2	896.3	875.0	855.7	836.6	813.0	800.2	791.8
42.5°	825.9	825.9	821.6	815.2	800.2	789.6	770.4	749.1	731.9	719.1	719.1
45°	736.2	738.4	731.9	727.7	719.1	702.1	685.0	670.1	655.1	646.6	642.3
47.5°	657.3	657.3	650.9	646.6	638.0	623.2	608.2	595.3	584.8	578.3	576.2
50°	582.6	582.6	582.6	571.9	561.2	550.6	539.9	524.9	518.5	514.2	512.2
52.5°	518.5	516.4	516.4	507.9	497.2	484.4	473.7	461.0	454.6	450.3	452.4
55°	461.0	461.0	458.8	448.1	437.4	424.7	414.0	403.3	399.0	394.7	396.9
56°	437.4	437.4	435.3	426.9	414.0	403.3	390.5	379.9	373.5	375.6	375.6
57°	420.4	416.2	416.2	405.4	394.7	379.9	369.2	358.5	354.2	352.1	352.1
58°	399.0	396.9	394.7	384.2	373.5	360.6	349.9	339.3	332.9	332.9	330.8
59°	377.7	377.7	373.5	364.9	354.2	341.5	330.8	320.1	313.7	311.5	311.5
60°	358.5	360.6	354.2	345.8	337.2	322.2	309.4	300.9	294.5	292.4	292.4
61°	341.5	341.5	337.2	326.5	315.8	305.2	292.4	281.7	277.4	273.1	273.1
62°	326.5	322.2	320.1	309.4	298.8	286.0	275.3	264.7	258.3	254.0	256.1
63°	307.4	305.2	300.9	292.4	281.7	268.8	256.1	247.5	241.1	234.7	236.8
64°	292.4	290.2	283.8	275.3	264.7	251.8	239.0	230.4	226.1	219.8	217.7
65°	273.1	271.0	268.8	258.3	247.5	234.7	224.1	215.6	209.1	204.9	200.6
66°	256.1	258.3	254.0	245.4	232.6	222.0	207.0	198.4	194.2	187.7	183.6
67°	241.1	241.1	236.8	228.3	215.6	204.9	194.2	183.6	177.2	170.7	168.6
67.5°	232.6	232.6	228.3	217.7	209.1	196.3	185.6	177.2	168.6	164.3	160.0
68°	224.1	224.1	222.0	213.4	202.7	189.9	179.3	168.6	160.0	153.6	151.5
69°	209.1	211.3	207.0	198.4	187.7	175.0	164.3	155.8	147.2	140.9	136.6
70°	196.3	194.2	189.9	181.4	170.7	162.2	151.5	140.9	132.3	123.8	121.6
71°	179.3	179.3	175.0	168.6	157.9	147.2	136.6	128.1	119.5	108.8	106.7
72°	166.5	166.5	162.2	153.6	145.1	134.5	123.8	113.1	106.7	96.1	91.8
72.5°	157.9	160.0	155.8	147.2	138.8	125.9	117.4	108.8	98.2	89.7	85.4
73°	153.6	151.5	149.3	140.9	130.2	121.6	110.9	102.5	91.8	83.2	78.9



TEST NUMBER: P584328  
 CATALOG NUMBER: HCC8S30D010MB-HM82555930-81RWWH

**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
77.5°	96.1	96.1	93.9	85.4	76.8	68.2	59.8	51.2	42.7	34.1	29.8
80°	66.1	68.2	64.0	59.8	53.4	44.8	36.3	29.8	21.3	17.1	12.8
82.5°	42.7	42.7	40.5	36.3	32.0	25.6	21.3	15.0	10.7	8.6	6.4
85°	21.3	23.4	21.3	19.3	15.0	12.8	10.7	6.4	4.3	2.1	2.1
87.5°	8.6	8.6	8.6	6.4	6.4	4.3	2.1	2.1	2.1	0.0	0.0
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: P584328

CATALOG NUMBER: HCC8S30D010MB-HM82555930-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9	1574.9
2.5°	1568.5	1568.5	1564.2	1562.1	1560.0	1557.8	1555.7	1553.5	1553.5	1555.7
5°	1555.7	1551.4	1542.8	1540.7	1534.4	1532.3	1528.0	1525.8	1528.0	1525.8
7.5°	1536.5	1528.0	1517.3	1513.0	1504.4	1500.2	1493.9	1493.9	1489.6	1491.7
10°	1510.9	1498.0	1485.3	1476.7	1470.3	1463.9	1459.6	1455.3	1453.3	1453.3
12.5°	1478.9	1463.9	1451.2	1438.3	1427.6	1423.4	1414.8	1414.8	1410.6	1408.5
15°	1442.6	1423.4	1408.5	1395.6	1387.1	1378.5	1372.2	1367.9	1363.7	1363.7
17.5°	1395.6	1378.5	1363.7	1348.7	1335.8	1329.5	1323.1	1316.7	1316.7	1312.4
20°	1344.4	1325.3	1312.4	1297.4	1286.9	1276.2	1267.6	1267.6	1263.3	1265.5
22.5°	1286.9	1263.3	1250.5	1239.9	1229.2	1220.6	1212.1	1212.1	1209.9	1207.9
25°	1222.8	1203.6	1188.6	1175.8	1169.4	1160.9	1158.8	1154.5	1152.4	1152.4
27.5°	1154.5	1139.5	1120.4	1114.0	1105.4	1101.1	1101.1	1099.0	1094.7	1096.9
30°	1082.0	1064.9	1054.2	1049.9	1041.4	1041.4	1039.3	1035.0	1035.0	1037.2
32.5°	1011.5	994.5	985.9	983.8	975.2	975.2	973.1	975.2	975.2	977.4
35°	934.7	919.8	917.7	911.2	909.1	909.1	909.1	913.4	917.7	911.2
37.5°	862.1	851.4	845.0	842.9	845.0	845.0	847.2	853.6	851.4	849.3
40°	787.5	778.9	774.6	774.6	778.9	783.2	783.2	789.6	791.8	789.6
42.5°	712.8	706.4	706.4	708.5	712.8	714.9	721.2	727.7	729.8	731.9
45°	642.3	642.3	642.3	644.4	646.6	650.9	659.4	665.8	668.0	670.1
47.5°	574.0	571.9	578.3	580.5	586.9	589.0	595.3	603.9	606.0	608.2
50°	510.1	514.2	516.4	522.8	527.1	527.1	535.6	539.9	546.3	546.3
52.5°	450.3	456.7	458.8	465.3	467.4	469.5	473.7	480.1	484.4	484.4
55°	396.9	399.0	403.3	405.4	411.9	414.0	418.3	420.4	426.9	424.7
56°	373.5	377.7	379.9	384.2	388.4	390.5	394.7	396.9	401.2	403.3
57°	352.1	354.2	360.6	362.8	367.0	367.0	369.2	375.6	375.6	377.7
58°	330.8	335.1	337.2	339.3	343.6	345.8	349.9	352.1	354.2	352.1
59°	311.5	313.7	315.8	315.8	320.1	320.1	326.5	330.8	332.9	332.9
60°	292.4	292.4	294.5	296.7	300.9	303.1	303.1	307.4	307.4	307.4
61°	273.1	273.1	275.3	277.4	279.5	279.5	283.8	283.8	286.0	288.1
62°	256.1	254.0	254.0	256.1	256.1	260.4	262.5	264.7	266.7	264.7
63°	236.8	234.7	234.7	234.7	234.7	239.0	239.0	241.1	245.4	243.3
64°	215.6	215.6	215.6	215.6	217.7	217.7	222.0	224.1	226.1	228.3
65°	200.6	196.3	194.2	194.2	196.3	198.4	200.6	202.7	204.9	204.9
66°	183.6	179.3	177.2	177.2	177.2	177.2	181.4	181.4	185.6	185.6
67°	164.3	160.0	157.9	155.8	155.8	155.8	162.2	160.0	160.0	160.0
67.5°	157.9	151.5	149.3	147.2	145.1	149.3	147.2	149.3	149.3	147.2
68°	149.3	145.1	140.9	136.6	136.6	136.6	138.8	140.9	138.8	136.6
69°	132.3	130.2	123.8	119.5	117.4	119.5	117.4	119.5	117.4	119.5
70°	117.4	110.9	104.5	102.5	100.4	100.4	100.4	98.2	100.4	98.2
71°	102.5	96.1	89.7	85.4	83.2	83.2	81.1	83.2	81.1	83.2
72°	87.5	81.1	72.5	68.2	68.2	68.2	68.2	66.1	68.2	66.1
72.5°	81.1	72.5	66.1	61.8	59.8	59.8	59.8	59.8	57.7	59.8
73°	74.7	66.1	57.7	55.5	55.5	55.5	53.4	51.2	53.4	53.4





TEST NUMBER: P584328  
CATALOG NUMBER: HCC8S30D010MB-HM82555930-81RWWH

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
77.5°	25.6	19.3	17.1	17.1	17.1	17.1	17.1	17.1	15.0	15.0
80°	10.7	8.6	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
82.5°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report



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

Scaled Data Report



— 0°-180°    - - 45°-225°    - - - - 90°-270°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



74°	138.8	138.8	134.5	128.1	117.4	106.7	98.2	89.7	78.9	68.2	64.0
75°	128.1	125.9	121.6	115.2	106.7	96.1	87.5	76.8	68.2	57.7	53.4

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

Scaled Data Report





Classified

Scaled Data Report

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



74°	61.8	51.2	47.0	42.7	42.7	42.7	40.5	40.5	40.5	42.7
75°	49.1	40.5	36.3	32.0	34.1	32.0	34.1	32.0	32.0	32.0

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

Scaled Data Report



(END OF REPORT)