

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: P582646

Luminaire Tested: **HCC6S45D010SL-HM64560927-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582646  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S45D010SL-HM64560927-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

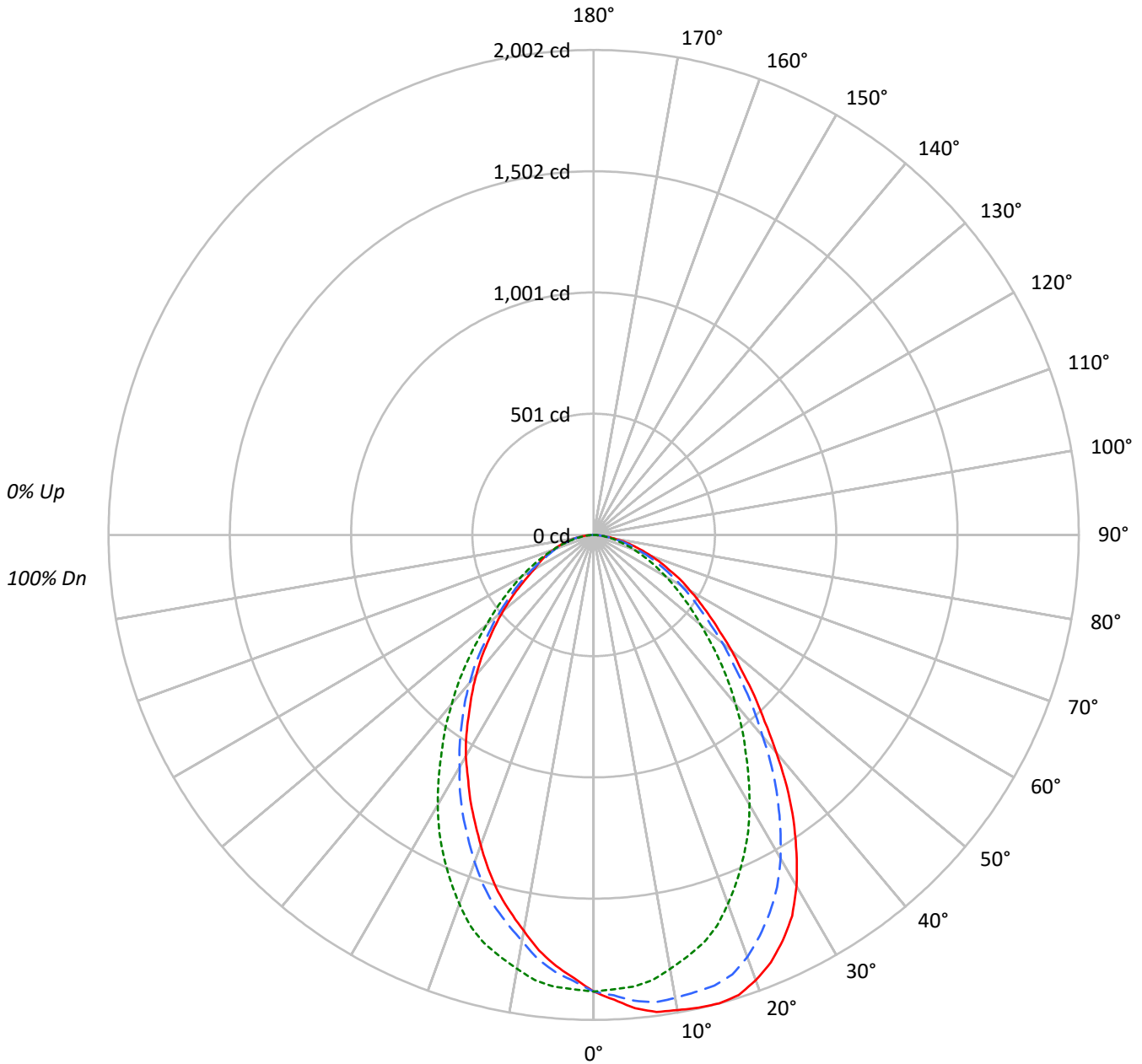
Lumens per Lamp: N/A  
Luminaire Lumens: 3511.3 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
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: P582646  
CATALOG NUMBER: HCC6S45D010SL-HM64560927-61WWW

### Luminous Intensity Polar Plot





TEST NUMBER: P582646

CATALOG NUMBER: HCC6S45D010SL-HM64560927-61WWW

**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	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	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	99	93	88	83	90	85	81	86	83	79	83	80	78	76					76			
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66					66			
4	87	76	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58					58			
5	81	69	61	55	79	68	61	55	66	60	55	64	59	54	63	58	53	51					51			
6	75	63	55	49	73	62	55	49	61	54	49	59	53	48	57	52	48	46					46			
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42					42			
8	66	53	46	40	64	53	45	40	51	45	40	50	44	40	49	44	39	38					38			
9	62	49	42	37	60	49	42	37	48	41	36	47	41	36	46	40	36	34					34			
10	58	46	39	34	57	45	38	34	44	38	33	44	38	33	43	37	33	32					32			

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

	0°	90°	180°
0°	103336	103336	103336
5°	107918	103032	98283
10°	110859	101256	92361
15°	113605	99058	86539
20°	114110	94572	79474
25°	111714	88541	72887
30°	105997	81418	66801
35°	96262	73180	59936
40°	83879	65179	53922
45°	72581	57037	47400
50°	63392	49116	41542
55°	56008	43162	35640
60°	50347	37826	30875
65°	45089	32909	29938
70°	40247	28050	28050
75°	34927	23659	26328
80°	28034	20047	24025
85°	19184	17549	20757



TEST NUMBER: P582646  
 CATALOG NUMBER: HCC6S45D010SL-HM64560927-61WWW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.2	5.0
10°-20°	492.5	14.0
20°-30°	686.3	19.5
30°-40°	707.1	20.1
40°-50°	586.1	16.7
50°-60°	421.2	12.0
60°-70°	268.2	7.6
70°-80°	137.7	3.9
80°-90°	35.1	1.0
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°	1355.9	38.6
0°-40°	2063.1	58.8
0°-60°	3070.3	87.4
0°-90°	3511.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3511.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1885	1885	1885	1885	1885	
5°	1961	1931	1872	1811	1786	188
15°	2002	1926	1745	1586	1525	564
25°	1847	1720	1464	1276	1205	846
35°	1438	1322	1094	949	896	894
45°	936	870	736	642	611	725
55°	586	538	452	401	373	528
65°	348	310	254	221	231	348
75°	165	142	112	117	124	176
85°	30	28	28	30	33	39
90°	0	0	0	0	0	

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



TEST NUMBER: P582646

CATALOG NUMBER: HCC6S45D010SL-HM64560927-61WWW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1885.0	1885.0	1885.0	1885.0	1885.0	1885.0	1885.0	1885.0	1885.0
2.5°	1920.6	1912.9	1902.7	1892.6	1877.4	1859.6	1844.4	1839.3	1831.8
5°	1961.1	1950.9	1930.6	1905.3	1872.3	1839.3	1811.3	1793.6	1786.0
7.5°	1986.5	1973.8	1945.9	1902.7	1854.5	1806.3	1765.7	1740.4	1730.2
10°	1991.5	1978.9	1940.8	1882.4	1819.0	1753.0	1702.3	1671.9	1659.2
12.5°	1999.1	1981.4	1933.2	1864.7	1783.5	1707.4	1644.0	1606.0	1593.2
15°	2001.7	1981.4	1925.6	1841.8	1745.4	1654.2	1585.7	1539.9	1524.8
17.5°	1991.5	1968.6	1902.7	1801.3	1692.2	1595.7	1514.6	1466.4	1446.1
20°	1956.0	1930.6	1854.5	1740.4	1621.1	1519.6	1436.0	1385.2	1362.3
22.5°	1910.3	1877.4	1791.1	1669.3	1545.1	1438.4	1354.7	1304.0	1281.2
25°	1846.9	1816.5	1720.1	1590.7	1463.8	1352.2	1276.1	1222.9	1205.0
27.5°	1773.3	1737.8	1638.9	1509.5	1380.2	1268.5	1194.9	1146.7	1123.9
30°	1674.5	1641.4	1542.5	1413.1	1286.2	1182.3	1106.1	1065.6	1055.3
32.5°	1557.7	1529.8	1433.4	1311.6	1189.9	1093.5	1030.0	986.8	976.8
35°	1438.4	1405.5	1321.7	1207.6	1093.5	1007.1	948.8	910.8	895.6
37.5°	1309.1	1278.7	1207.6	1106.1	1004.7	923.5	872.7	839.8	824.5
40°	1172.1	1149.3	1083.3	1002.1	910.8	839.8	796.6	768.7	753.5
42.5°	1045.3	1022.4	976.8	900.6	824.5	761.0	723.0	697.7	685.0
45°	936.2	915.9	870.1	804.2	735.7	682.5	641.9	624.2	611.4
47.5°	827.1	816.9	776.3	715.4	652.0	606.3	578.4	558.1	548.0
50°	743.3	730.7	692.5	629.2	575.9	540.4	515.1	497.2	487.1
52.5°	657.1	644.4	608.9	555.7	512.5	479.5	454.1	438.9	428.7
55°	586.0	575.9	537.8	489.6	451.6	423.7	400.8	383.1	372.9
57.5°	520.1	509.9	474.4	428.7	395.8	370.4	350.1	334.9	322.2
60°	459.2	451.6	416.1	372.9	345.0	319.6	301.9	289.3	281.6
62.5°	406.0	390.7	360.2	322.2	296.8	276.5	258.8	251.1	256.2
65°	347.6	339.9	309.6	276.5	253.7	233.4	220.8	225.8	230.8
67.5°	299.3	289.3	263.8	233.4	213.1	197.9	190.3	200.5	202.9
70°	251.1	241.1	218.2	192.8	175.0	164.9	164.9	172.5	175.0
72.5°	205.5	197.9	177.6	157.3	144.6	137.0	142.1	147.1	149.7
75°	164.9	157.3	142.1	124.3	111.7	111.7	116.7	121.8	124.3
77.5°	126.8	121.8	106.5	93.8	88.8	88.8	93.8	96.4	98.9
80°	88.8	83.8	76.1	68.5	63.5	68.5	73.5	73.5	76.1
82.5°	58.3	55.8	50.8	45.6	45.6	48.2	50.8	53.3	53.3
85°	30.5	30.5	27.9	25.3	27.9	30.5	30.5	33.0	33.0
87.5°	10.2	10.2	10.2	10.2	12.7	12.7	12.7	12.7	12.7
90°	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



(END OF REPORT)