

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: P582699

Luminaire Tested: **HCC6S45D010MW-HM64560940-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582699  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S45D010MW-HM64560940-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

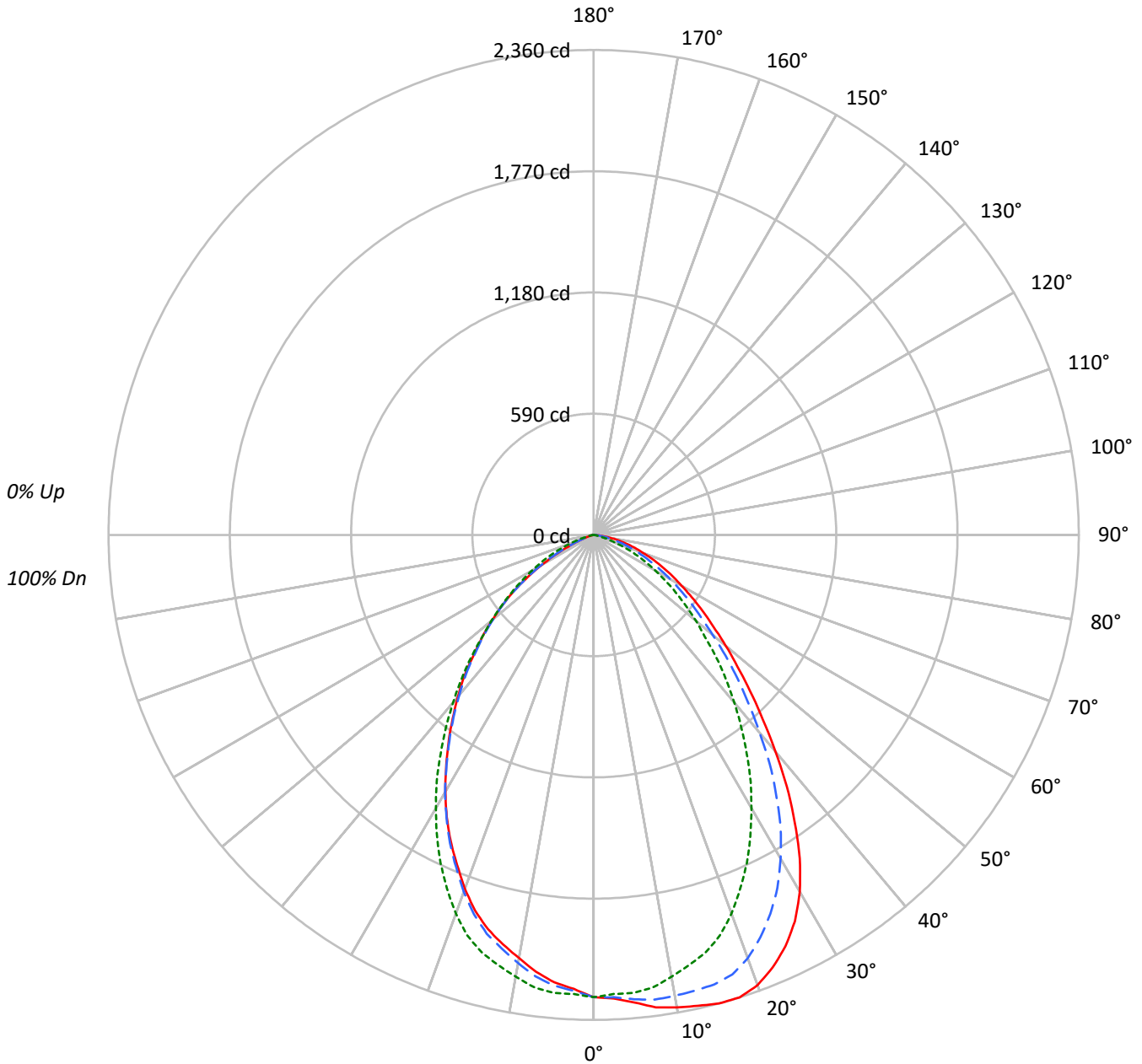
Lumens per Lamp: N/A  
Luminaire Lumens: 4008.0 lumens  
Efficiency: N/A  
Efficacy: 91.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): 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: P582699  
CATALOG NUMBER: HCC6S45D010MW-HM64560940-61WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P582699

CATALOG NUMBER: HCC6S45D010MW-HM64560940-61WWBB

**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	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89								
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78								
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72	78	74	71	69								
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64	71	66	63	61								
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54								
6	77	65	58	52	75	65	57	52	63	56	51	61	55	51	60	55	51	49								
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44								
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40								
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37								
10	60	48	40	36	58	47	40	36	46	40	36	45	40	35	45	39	35	34								

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

	0°	90°	180°
0°	123296	123296	123296
5°	125682	123068	120289
10°	129952	121502	116397
15°	133928	119393	112748
20°	136004	114419	106847
25°	133562	106579	99496
30°	126956	97116	91305
35°	114111	86799	82349
40°	98470	76064	73574
45°	83381	65480	63766
50°	71486	55299	54762
55°	61972	46555	44739
60°	54108	37793	31905
65°	47593	29134	17654
70°	41065	19266	8607
75°	34843	9383	3347
80°	26961	4009	1989
85°	15913	2013	2013



TEST NUMBER: P582699  
 CATALOG NUMBER: HCC6S45D010MW-HM64560940-61WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.2	5.3
10°-20°	600.2	15.0
20°-30°	845.2	21.1
30°-40°	863.6	21.5
40°-50°	696.3	17.4
50°-60°	467.0	11.7
60°-70°	236.3	5.9
70°-80°	75.5	1.9
80°-90°	11.7	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°	1657.7	41.4
0°-40°	2521.2	62.9
0°-60°	3684.5	91.9
0°-90°	4008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2249	2249	2249	2249	2249	
5°	2284	2268	2236	2202	2186	220
15°	2360	2265	2104	2009	1987	666
25°	2208	2034	1762	1654	1645	1011
35°	1705	1550	1297	1224	1230	1061
45°	1076	990	845	816	822	836
55°	648	576	487	465	468	583
65°	367	304	225	149	136	366
75°	164	117	44	16	16	177
85°	25	13	3	3	3	34
90°	0	0	0	0	0	

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



TEST NUMBER: P582699

CATALOG NUMBER: HCC6S45D010MW-HM64560940-61WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2249.1	2249.1	2249.1	2249.1	2249.1	2249.1	2249.1	2249.1	2249.1
2.5°	2258.6	2255.4	2252.3	2245.9	2236.4	2226.9	2220.6	2214.3	2211.2
5°	2283.9	2277.6	2268.1	2255.4	2236.4	2214.3	2201.7	2189.1	2185.9
7.5°	2318.7	2306.1	2280.8	2252.3	2220.6	2189.1	2166.9	2154.2	2144.7
10°	2334.5	2312.3	2277.6	2230.1	2182.7	2144.7	2116.2	2097.3	2091.0
12.5°	2347.2	2321.8	2271.3	2208.1	2144.7	2094.2	2062.5	2046.7	2040.3
15°	2359.8	2334.5	2264.9	2182.7	2103.7	2043.5	2008.8	1992.9	1986.6
17.5°	2359.8	2325.0	2242.8	2138.4	2043.5	1970.8	1935.9	1920.1	1917.0
20°	2331.3	2293.4	2192.2	2068.8	1961.3	1879.0	1847.4	1837.9	1831.5
22.5°	2277.6	2233.3	2119.4	1980.3	1863.2	1784.1	1749.3	1743.0	1736.6
25°	2208.1	2163.7	2034.0	1885.4	1762.0	1682.9	1654.4	1648.1	1644.9
27.5°	2119.4	2072.0	1935.9	1784.1	1651.2	1575.3	1550.0	1550.0	1546.8
30°	2005.6	1951.8	1819.0	1667.1	1534.2	1464.6	1445.6	1445.6	1442.4
32.5°	1866.4	1812.6	1692.4	1546.8	1420.4	1347.5	1331.7	1338.0	1334.9
35°	1705.1	1660.7	1550.0	1407.7	1297.0	1230.5	1224.3	1230.5	1230.5
37.5°	1543.7	1502.6	1407.7	1284.3	1179.9	1119.9	1119.9	1129.4	1126.2
40°	1376.0	1344.4	1255.8	1148.2	1062.9	1021.8	1015.5	1025.0	1028.1
42.5°	1217.9	1192.6	1116.7	1028.1	952.1	911.1	920.6	926.9	930.1
45°	1075.5	1050.2	990.1	898.4	844.6	816.2	816.2	825.7	822.5
47.5°	949.0	930.1	869.9	781.3	733.9	721.3	727.6	733.9	733.9
50°	838.2	809.8	752.8	683.3	648.4	632.7	639.1	642.1	642.1
52.5°	733.9	714.9	657.9	594.7	563.0	553.5	553.5	556.7	556.7
55°	648.4	626.4	575.7	512.5	487.1	474.5	465.0	461.8	468.1
57.5°	566.2	547.2	499.8	439.8	411.3	398.6	379.6	373.2	379.6
60°	493.5	477.6	430.3	373.2	344.7	319.5	297.4	284.7	291.0
62.5°	430.3	411.3	363.7	316.4	284.7	256.2	221.5	202.5	212.0
65°	366.9	351.1	303.7	256.2	224.6	189.8	148.6	136.1	136.1
67.5°	310.0	294.2	249.8	208.8	170.8	129.7	91.7	88.6	91.7
70°	256.2	240.5	202.5	161.3	120.2	79.1	53.7	53.7	53.7
72.5°	212.0	193.0	158.1	117.1	75.9	41.2	28.5	31.7	31.7
75°	164.5	148.6	117.1	79.1	44.3	19.0	15.8	15.8	15.8
77.5°	123.4	110.7	82.2	50.6	22.2	6.3	6.3	6.3	6.3
80°	85.4	72.7	53.7	31.7	12.7	6.3	6.3	6.3	6.3
82.5°	50.6	44.3	31.7	15.8	6.3	3.2	3.2	3.2	3.2
85°	25.3	22.2	12.7	6.3	3.2	3.2	3.2	3.2	3.2
87.5°	6.3	6.3	3.2	3.2	0.0	3.2	3.2	0.0	0.0
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)