

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: P582665

Luminaire Tested: **HCC6W45D010SL-HM64560930-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582665  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W45D010SL-HM64560930-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

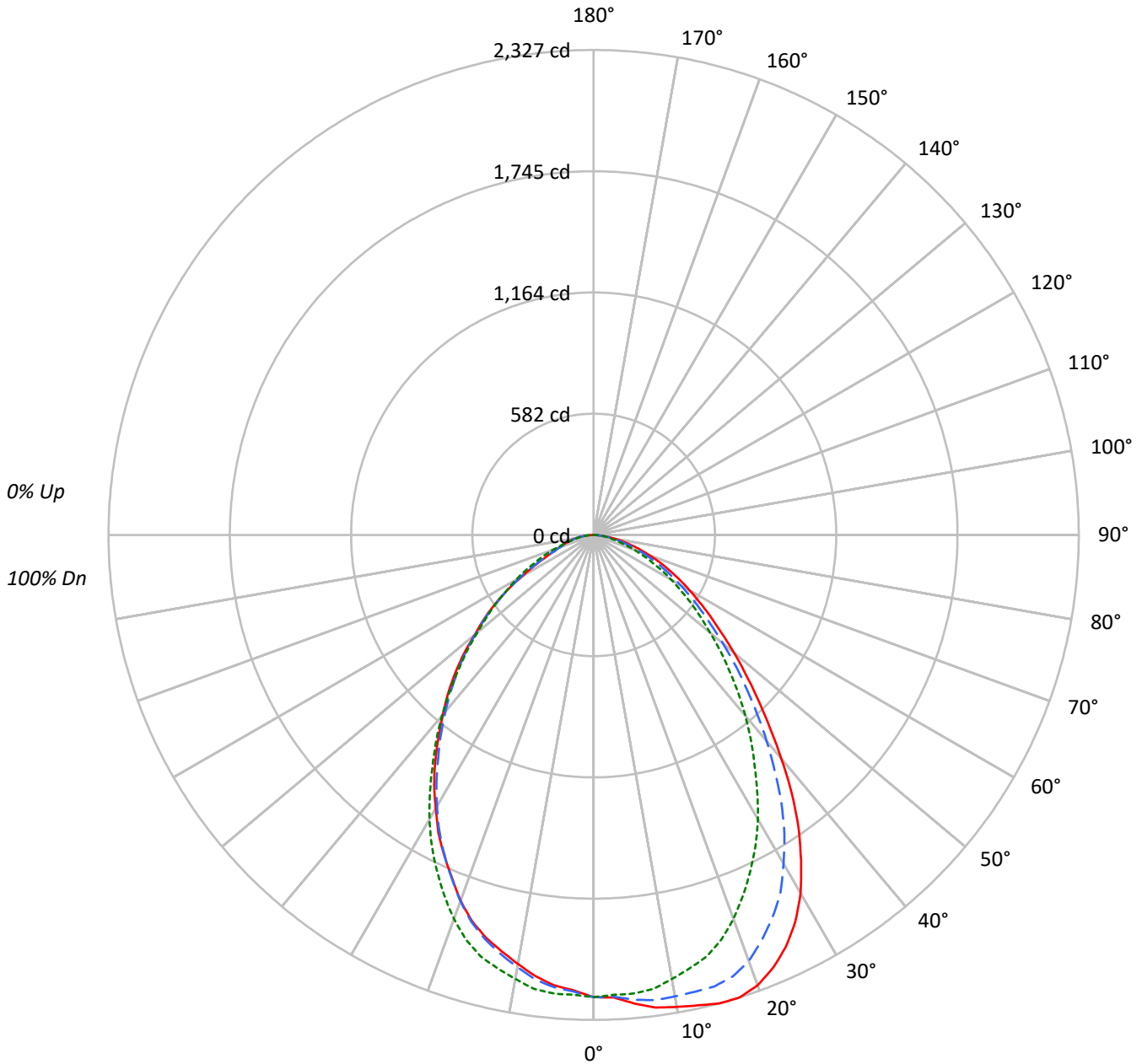
Lumens per Lamp: N/A  
Luminaire Lumens: 4343.4 lumens  
Efficiency: N/A  
Efficacy: 98.7 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582665  
CATALOG NUMBER: HCC6W45D010SL-HM64560930-61WWWB

### Luminous Intensity Polar Plot





TEST NUMBER: P582665

CATALOG NUMBER: HCC6W45D010SL-HM64560930-61WWWB

**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	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87					87			
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76					76			
3	94	85	78	72	92	84	77	72	81	75	71	78	73	69	76	72	68	66					66			
4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58					58			
5	81	70	61	56	79	68	61	55	66	60	55	65	59	54	63	58	54	52					52			
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	58	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	38	34	57	45	38	33	44	38	33	43	37	33	43	37	33	31					31			

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

	0°	90°	180°
0°	121586	121586	121586
5°	124218	121549	119387
10°	128015	120428	116375
15°	132067	118826	113491
20°	134161	114361	108883
25°	131953	107577	102629
30°	125627	99737	95895
35°	114566	90032	88613
40°	100181	80880	80444
45°	86210	71178	72814
50°	74940	62011	63307
55°	65450	54440	55023
60°	58131	47178	43187
65°	51886	39693	33013
70°	45649	32538	27681
75°	39163	25671	26307
80°	31538	22004	25824
85°	20945	19058	22895



TEST NUMBER: P582665  
 CATALOG NUMBER: HCC6W45D010SL-HM64560930-61WWWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.0	4.8
10°-20°	597.8	13.8
20°-30°	853.4	19.6
30°-40°	893.9	20.6
40°-50°	752.6	17.3
50°-60°	535.7	12.3
60°-70°	313.5	7.2
70°-80°	148.4	3.4
80°-90°	38.1	0.9
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°	1661.2	38.2
0°-40°	2555.1	58.8
0°-60°	3843.3	88.5
0°-90°	4343.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4343.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2218	2218	2218	2218	2218	
5°	2257	2239	2209	2178	2170	217
15°	2327	2242	2094	2009	2000	657
25°	2182	2027	1778	1694	1697	999
35°	1712	1570	1345	1300	1324	1063
45°	1112	1030	918	921	939	863
55°	685	627	570	570	576	617
65°	400	354	306	258	254	399
75°	185	154	121	118	124	198
85°	33	27	30	36	36	43
90°	0	0	0	0	0	

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



TEST NUMBER: P582665

CATALOG NUMBER: HCC6W45D010SL-HM64560930-61WWWB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2217.9	2217.9	2217.9	2217.9	2217.9	2217.9	2217.9	2217.9	2217.9
2.5°	2221.0	2221.0	2217.9	2214.9	2208.8	2199.7	2193.6	2187.6	2187.6
5°	2257.3	2251.2	2239.1	2223.9	2208.8	2190.6	2178.5	2169.5	2169.5
7.5°	2287.6	2275.5	2251.2	2223.9	2196.7	2172.4	2151.3	2139.1	2136.0
10°	2299.7	2284.5	2248.2	2205.7	2163.4	2130.1	2105.8	2090.6	2090.6
12.5°	2311.9	2293.7	2245.1	2184.6	2130.1	2084.5	2060.4	2048.2	2045.1
15°	2327.0	2302.7	2242.1	2166.4	2093.7	2042.2	2008.9	1999.7	1999.7
17.5°	2327.0	2296.6	2221.0	2127.0	2036.1	1978.5	1948.2	1939.1	1942.1
20°	2299.7	2266.4	2175.4	2060.4	1960.3	1899.8	1869.4	1863.4	1866.4
22.5°	2248.2	2208.8	2105.8	1981.5	1872.5	1808.9	1781.6	1781.6	1778.5
25°	2181.5	2139.1	2027.1	1896.7	1778.5	1714.9	1693.7	1696.7	1696.7
27.5°	2093.7	2051.2	1939.1	1799.7	1681.6	1617.9	1602.8	1608.9	1611.9
30°	1984.6	1939.1	1821.0	1684.7	1575.6	1511.9	1502.8	1511.9	1514.9
32.5°	1851.2	1817.9	1702.8	1563.4	1460.4	1405.8	1402.8	1411.9	1424.0
35°	1711.9	1675.5	1569.5	1442.2	1345.3	1299.8	1299.8	1314.9	1324.1
37.5°	1560.4	1524.1	1427.1	1321.0	1239.3	1196.8	1202.9	1218.0	1221.1
40°	1399.9	1372.5	1290.8	1199.9	1130.2	1096.9	1105.9	1121.0	1124.1
42.5°	1248.3	1224.0	1157.4	1075.6	1024.1	999.9	1011.9	1030.1	1036.2
45°	1112.0	1084.7	1030.1	960.5	918.1	905.9	921.0	933.2	939.2
47.5°	987.8	963.5	918.1	854.4	824.1	818.1	833.2	839.3	845.4
50°	878.7	854.4	809.0	751.4	727.1	727.1	739.3	745.3	742.3
52.5°	772.7	751.4	709.0	660.5	645.4	645.4	654.4	657.5	663.6
55°	684.8	663.6	627.2	581.7	569.6	563.5	569.6	569.6	575.7
57.5°	602.9	584.7	551.4	509.0	493.8	487.9	484.8	481.8	487.9
60°	530.2	515.1	478.7	442.3	430.3	415.1	402.9	390.8	393.9
62.5°	463.6	448.4	415.1	378.8	366.6	345.4	330.3	315.1	321.2
65°	400.0	384.7	354.5	324.2	306.0	281.8	257.6	248.4	254.5
67.5°	342.4	330.3	299.9	269.7	254.5	227.2	203.0	203.0	206.0
70°	284.8	272.7	248.4	221.2	203.0	178.8	169.6	172.7	172.7
72.5°	233.3	224.2	200.0	175.7	157.5	142.4	142.4	145.5	148.5
75°	184.9	178.8	154.5	133.4	121.2	112.1	118.1	121.2	124.2
77.5°	142.4	133.4	115.2	99.9	90.9	94.0	99.9	103.0	106.0
80°	99.9	97.0	81.8	72.7	69.7	72.7	78.8	81.8	81.8
82.5°	63.6	60.6	51.5	48.4	48.4	51.5	57.6	57.6	57.6
85°	33.3	30.3	27.2	27.2	30.3	33.3	36.4	36.4	36.4
87.5°	12.1	9.0	12.1	12.1	15.1	15.1	15.1	15.1	15.1
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)