

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: P593319

Luminaire Tested: **HCC6W45D010MB-HM64560850-61WWBB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593319  
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: HCC6W45D010MB-HM64560850-61WWBB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

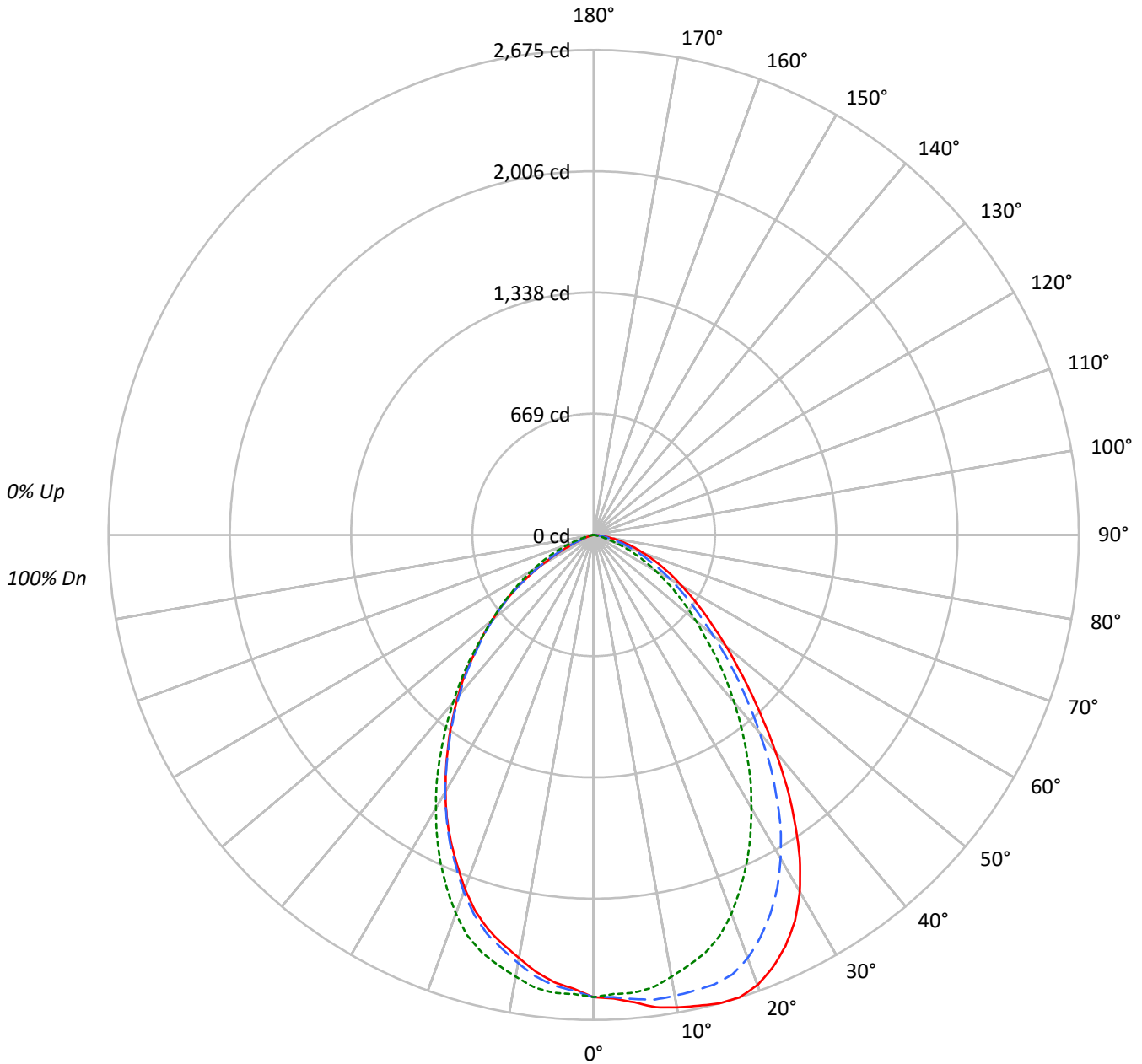
Lumens per Lamp: N/A  
Luminaire Lumens: 4542.6 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (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: P593319  
CATALOG NUMBER: HCC6W45D010MB-HM64560850-61WWBB

### Luminous Intensity Polar Plot



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



TEST NUMBER: P593319

CATALOG NUMBER: HCC6W45D010MB-HM64560850-61WWBB

**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	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°	139748	139748	139748
5°	142450	139483	136330
10°	147286	137712	131917
15°	151794	135313	127787
20°	154148	129675	121105
25°	151370	120793	112773
30°	143883	110074	103491
35°	129322	98377	93338
40°	111609	86212	83392
45°	94506	74217	72271
50°	81029	62685	62070
55°	70248	52768	50722
60°	61322	42847	36159
65°	53949	33013	19989
70°	46546	21831	9777
75°	39481	10633	3791
80°	30559	4514	2273
85°	18052	2264	2264



TEST NUMBER: P593319  
 CATALOG NUMBER: HCC6W45D010MB-HM64560850-61WWBB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	240.5	5.3
10°-20°	680.3	15.0
20°-30°	958.0	21.1
30°-40°	978.8	21.5
40°-50°	789.1	17.4
50°-60°	529.3	11.7
60°-70°	267.8	5.9
70°-80°	85.6	1.9
80°-90°	13.2	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°	1878.8	41.4
0°-40°	2857.5	62.9
0°-60°	4176.0	91.9
0°-90°	4542.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4542.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2549	2549	2549	2549	2549	
5°	2589	2571	2535	2495	2477	249
15°	2675	2567	2384	2277	2252	755
25°	2502	2305	1997	1875	1864	1146
35°	1932	1757	1470	1388	1395	1203
45°	1219	1122	957	925	932	948
55°	735	652	552	527	531	661
65°	416	344	254	169	154	415
75°	186	133	50	18	18	200
85°	29	14	4	4	4	39
90°	0	0	0	0	0	

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



TEST NUMBER: P593319

CATALOG NUMBER: HCC6W45D010MB-HM64560850-61WWBB

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	2549.2	2549.2	2549.2	2549.2	2549.2	2549.2	2549.2	2549.2	2549.2
2.5°	2559.8	2556.3	2552.7	2545.5	2534.7	2524.1	2516.9	2509.6	2506.1
5°	2588.6	2581.4	2570.6	2556.3	2534.7	2509.6	2495.3	2481.0	2477.4
7.5°	2628.0	2613.7	2584.9	2552.7	2516.9	2481.0	2455.9	2441.6	2430.8
10°	2645.9	2620.8	2581.4	2527.6	2473.9	2430.8	2398.6	2377.1	2369.8
12.5°	2660.2	2631.6	2574.3	2502.5	2430.8	2373.4	2337.6	2319.6	2312.5
15°	2674.6	2645.9	2567.0	2473.9	2384.2	2316.1	2276.7	2258.7	2251.6
17.5°	2674.6	2635.1	2541.9	2423.7	2316.1	2233.6	2194.2	2176.3	2172.6
20°	2642.3	2599.4	2484.5	2344.7	2222.8	2129.7	2093.8	2083.0	2075.9
22.5°	2581.4	2531.2	2402.1	2244.4	2111.8	2022.1	1982.6	1975.4	1968.3
25°	2502.5	2452.3	2305.3	2136.9	1997.0	1907.4	1875.0	1867.9	1864.4
27.5°	2402.1	2348.3	2194.2	2022.1	1871.5	1785.4	1756.8	1756.8	1753.2
30°	2273.0	2212.2	2061.5	1889.5	1738.9	1660.0	1638.4	1638.4	1634.9
32.5°	2115.3	2054.4	1918.1	1753.2	1609.8	1527.4	1509.4	1516.6	1512.9
35°	1932.4	1882.3	1756.8	1595.4	1470.0	1394.7	1387.5	1394.7	1394.7
37.5°	1749.6	1703.0	1595.4	1455.6	1337.3	1269.2	1269.2	1280.0	1276.3
40°	1559.6	1523.7	1423.3	1301.4	1204.7	1158.0	1150.8	1161.6	1165.3
42.5°	1380.3	1351.6	1265.5	1165.3	1079.2	1032.6	1043.3	1050.5	1054.1
45°	1219.0	1190.4	1122.2	1018.2	957.3	925.0	925.0	935.7	932.2
47.5°	1075.5	1054.1	985.9	885.6	831.8	817.5	824.6	831.8	831.8
50°	950.1	917.9	853.2	774.4	735.0	717.1	724.2	727.8	727.8
52.5°	831.8	810.3	745.7	674.0	638.2	627.4	627.4	631.0	631.0
55°	735.0	709.9	652.5	580.9	552.1	537.8	527.0	523.4	530.7
57.5°	641.7	620.3	566.4	498.4	466.0	451.7	430.3	423.1	430.3
60°	559.3	541.3	487.6	423.1	390.8	362.1	337.0	322.7	329.8
62.5°	487.6	466.0	412.3	358.5	322.7	290.4	251.0	229.4	240.2
65°	415.9	398.0	344.2	290.4	254.5	215.1	168.6	154.1	154.1
67.5°	351.3	333.5	283.3	236.6	193.7	147.0	103.9	100.4	103.9
70°	290.4	272.5	229.4	182.9	136.2	89.6	61.0	61.0	61.0
72.5°	240.2	218.6	179.2	132.7	86.1	46.6	32.3	35.9	35.9
75°	186.4	168.6	132.7	89.6	50.2	21.5	17.9	17.9	17.9
77.5°	139.8	125.5	93.3	57.4	25.1	7.2	7.2	7.2	7.2
80°	96.8	82.5	61.0	35.9	14.3	7.2	7.2	7.2	7.2
82.5°	57.4	50.2	35.9	17.9	7.2	3.6	3.6	3.6	3.6
85°	28.7	25.1	14.3	7.2	3.6	3.6	3.6	3.6	3.6
87.5°	7.2	7.2	3.6	3.6	0.0	3.6	3.6	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)