

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: P582734

Luminaire Tested: **HCC6W50D010MB-HM64560830-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010MB-HM64560830-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

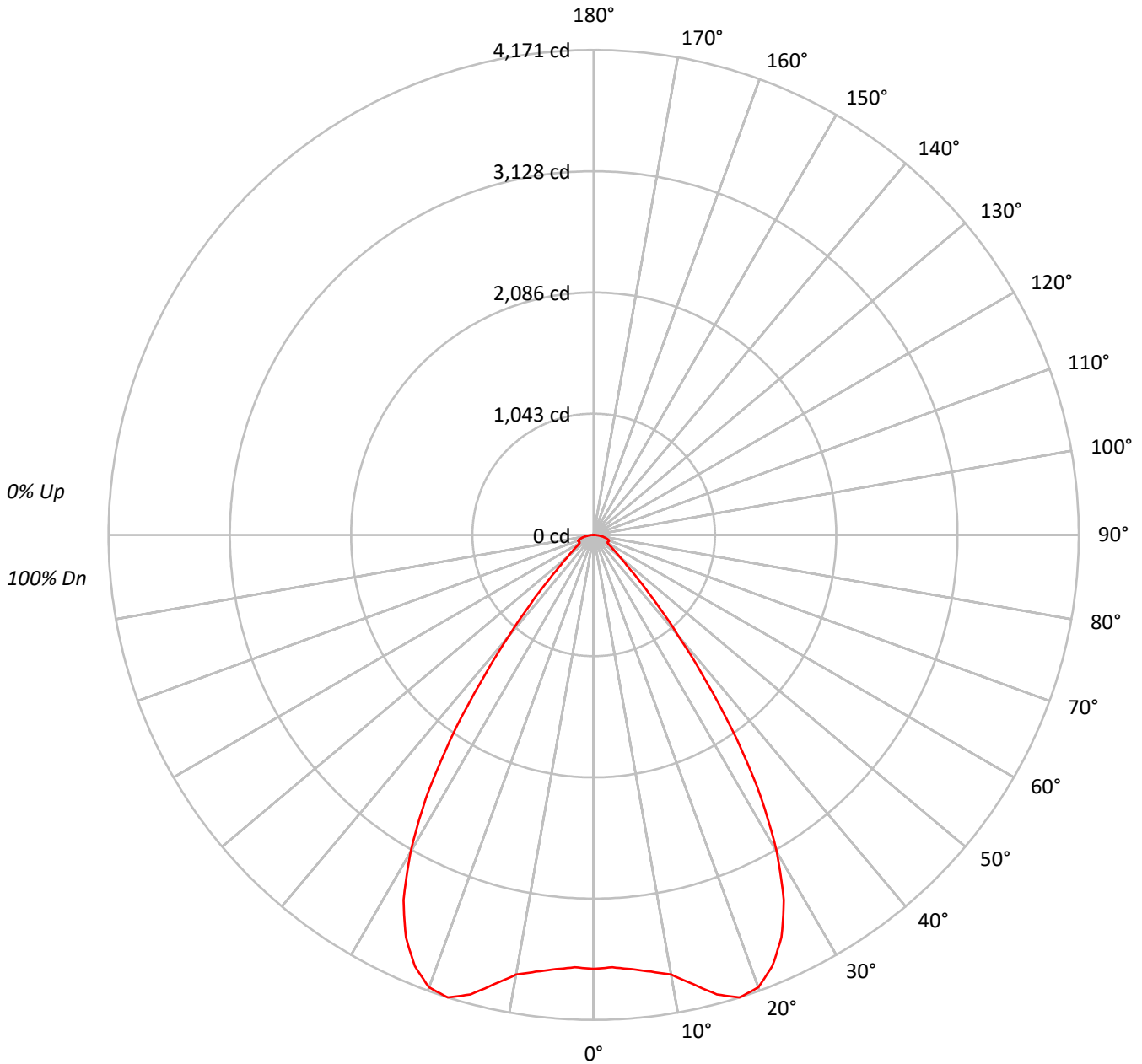
Lumens per Lamp: N/A  
Luminaire Lumens: 5485.2 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 48  
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: P582734  
CATALOG NUMBER: HCC6W50D010MB-HM64560830-61WDWB

### Luminous Intensity Polar Plot





TEST NUMBER: P582734

CATALOG NUMBER: HCC6W50D010MB-HM64560830-61WDWB

**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	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75	75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69	69	69	69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63	63	63	63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58	58	58	58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54	54	54	54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50	50	50	50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43	43	43	43

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

	0°
0°	204578
5°	206322
10°	213757
15°	232186
20°	241521
25°	231007
30°	199366
35°	143543
40°	80866
45°	41904
50°	24989
55°	18007
60°	15295
65°	17654
70°	22360
75°	23638
80°	23109
85°	21889



TEST NUMBER: P582734  
 CATALOG NUMBER: HCC6W50D010MB-HM64560830-61WDWB

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.8	6.6
10°-20°	1153.9	21.0
20°-30°	1724.7	31.4
30°-40°	1318.4	24.0
40°-50°	460.5	8.4
50°-60°	175.5	3.2
60°-70°	137.7	2.5
70°-80°	116.4	2.1
80°-90°	37.4	0.7
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°	3239.3	59.1
0°-40°	4557.7	83.1
0°-60°	5193.7	94.7
0°-90°	5485.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5485.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3732	
5°	3749	361
15°	4091	1154
25°	3819	1725
35°	2145	1318
45°	540	460
55°	188	175
65°	136	138
75°	112	116
85°	35	37
90°	0	



TEST NUMBER: P582734  
CATALOG NUMBER: HCC6W50D010MB-HM64560830-61WDWB

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3731.8
2.5°	3721.4
5°	3749.3
7.5°	3787.7
10°	3840.0
12.5°	3958.6
15°	4091.1
17.5°	4171.3
20°	4140.0
22.5°	4014.3
25°	3819.1
27.5°	3540.0
30°	3149.5
32.5°	2682.1
35°	2144.9
37.5°	1590.5
40°	1130.0
42.5°	791.7
45°	540.5
47.5°	380.2
50°	293.0
52.5°	230.2
55°	188.4
57.5°	153.4
60°	139.5
62.5°	136.1
65°	136.1
67.5°	143.0
70°	139.5
72.5°	129.1
75°	111.6
77.5°	94.1
80°	73.2
82.5°	52.3
85°	34.8
87.5°	13.9
90°	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°

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)