

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: P582723

Luminaire Tested: **HCC6W50D010BZ-HM64560830-61MDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010BZ-HM64560830-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

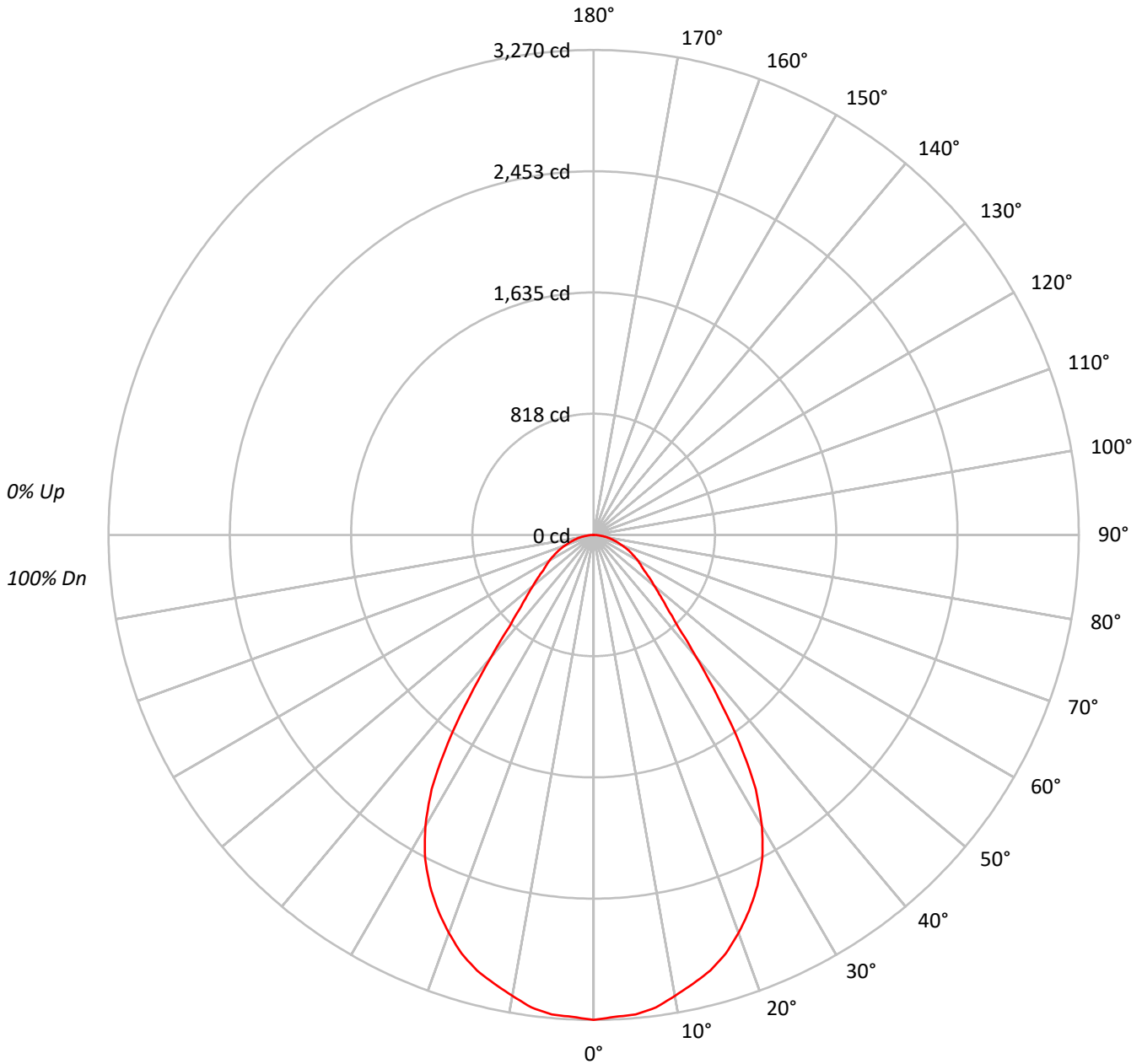
Lumens per Lamp: N/A  
Luminaire Lumens: 4815.7 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582723  
CATALOG NUMBER: HCC6W50D010BZ-HM64560830-61MDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582723

CATALOG NUMBER: HCC6W50D010BZ-HM64560830-61MDW

**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
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

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

	0°
0°	179273
5°	178609
10°	175626
15°	172532
20°	166574
25°	157945
30°	143661
35°	114793
40°	76594
45°	54595
50°	45500
55°	39655
60°	37464
65°	35283
70°	32409
75°	30267
80°	27529
85°	24153



TEST NUMBER: P582723  
 CATALOG NUMBER: HCC6W50D010BZ-HM64560830-61MDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.0	6.4
10°-20°	853.6	17.7
20°-30°	1192.8	24.8
30°-40°	1050.7	21.8
40°-50°	567.7	11.8
50°-60°	379.6	7.9
60°-70°	269.0	5.6
70°-80°	151.2	3.1
80°-90°	44.1	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°	2353.3	48.9
0°-40°	3404.1	70.7
0°-60°	4351.3	90.4
0°-90°	4815.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4815.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3270	
5°	3246	307
15°	3040	854
25°	2611	1193
35°	1715	1051
45°	704	568
55°	415	380
65°	272	269
75°	143	151
85°	38	44
90°	0	



TEST NUMBER: P582723  
CATALOG NUMBER: HCC6W50D010BZ-HM64560830-61MDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3270.2
2.5°	3252.7
5°	3245.7
7.5°	3214.3
10°	3155.0
12.5°	3099.3
15°	3040.0
17.5°	2959.8
20°	2855.3
22.5°	2740.3
25°	2611.2
27.5°	2461.3
30°	2269.5
32.5°	2032.5
35°	1715.3
37.5°	1370.1
40°	1070.3
42.5°	843.7
45°	704.2
47.5°	610.1
50°	533.5
52.5°	470.6
55°	414.9
57.5°	376.5
60°	341.7
62.5°	306.8
65°	272.0
67.5°	237.0
70°	202.2
72.5°	170.8
75°	142.9
77.5°	115.0
80°	87.2
82.5°	62.7
85°	38.4
87.5°	17.5
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)