

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: P582781

Luminaire Tested: **HCC6W50D010MB-HM64560927-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010MB-HM64560927-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

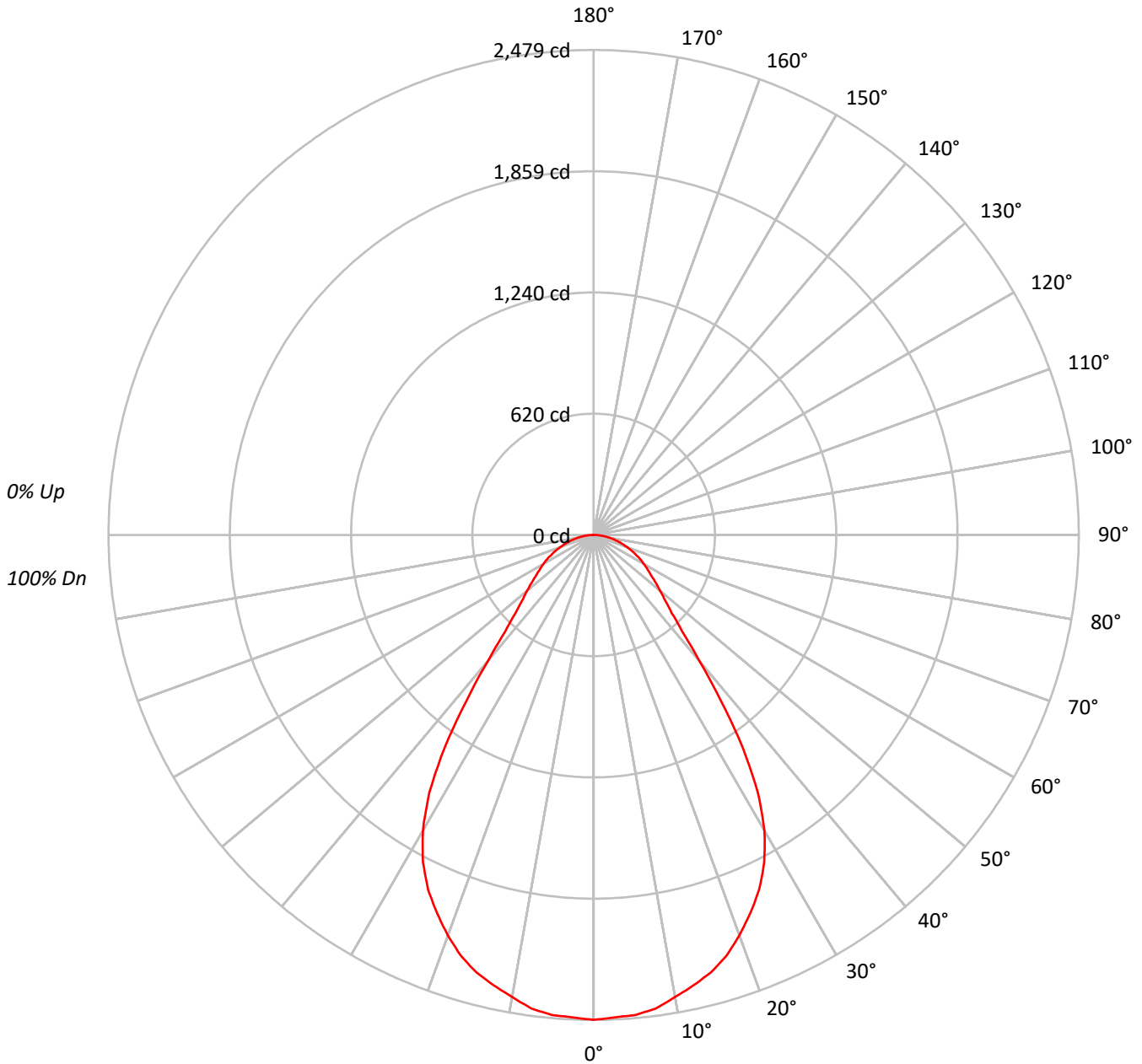
Lumens per Lamp: N/A  
Luminaire Lumens: 3801.9 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582781  
CATALOG NUMBER: HCC6W50D010MB-HM64560927-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582781  
 CATALOG NUMBER: HCC6W50D010MB-HM64560927-61PSMDW

**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		0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102		100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90		88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80		78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71		69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64		62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58		56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53		51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48		46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44		43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41		39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38		36

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

	0°
0°	135888
5°	135521
10°	133503
15°	131386
20°	127061
25°	121029
30°	110498
35°	88961
40°	59962
45°	43718
50°	37790
55°	34130
60°	32388
65°	30652
70°	28851
75°	27323
80°	25414
85°	23650



TEST NUMBER: P582781  
 CATALOG NUMBER: HCC6W50D010MB-HM64560927-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.1	6.1
10°-20°	650.1	17.1
20°-30°	913.4	24.0
30°-40°	813.0	21.4
40°-50°	454.3	11.9
50°-60°	323.7	8.5
60°-70°	235.5	6.2
70°-80°	136.4	3.6
80°-90°	42.4	1.1
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°	1796.6	47.3
0°-40°	2609.6	68.6
0°-60°	3387.6	89.1
0°-90°	3801.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2479	
5°	2463	233
15°	2315	650
25°	2001	913
35°	1329	813
45°	564	454
55°	357	324
65°	236	236
75°	129	136
85°	38	42
90°	0	



TEST NUMBER: P582781  
CATALOG NUMBER: HCC6W50D010MB-HM64560927-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2478.8
2.5°	2468.1
5°	2462.7
7.5°	2441.2
10°	2398.3
12.5°	2358.0
15°	2315.0
17.5°	2255.9
20°	2178.0
22.5°	2092.1
25°	2000.9
27.5°	1887.9
30°	1745.6
32.5°	1563.1
35°	1329.3
37.5°	1066.2
40°	837.9
42.5°	668.7
45°	563.9
47.5°	494.1
50°	443.1
52.5°	397.5
55°	357.1
57.5°	325.0
60°	295.4
62.5°	268.6
65°	236.3
67.5°	209.5
70°	180.0
72.5°	153.1
75°	129.0
77.5°	104.8
80°	80.5
82.5°	59.0
85°	37.6
87.5°	18.8
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)