

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: P582786

Luminaire Tested: **HCC6W50D010SL-HM64560927-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582786  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6W50D010SL-HM64560927-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

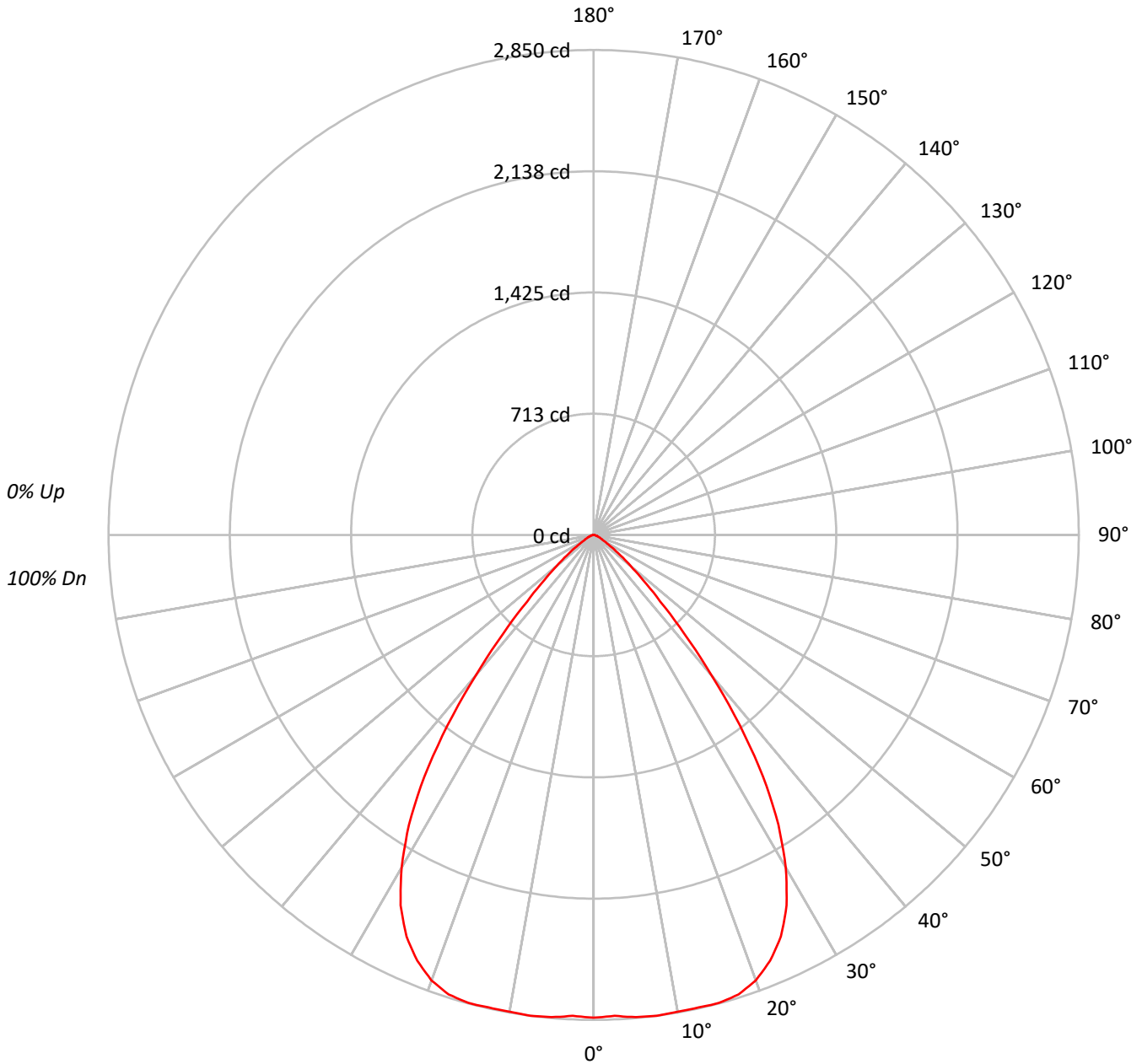
Lumens per Lamp: N/A  
Luminaire Lumens: 3971.1 lumens  
Efficiency: N/A  
Efficacy: 82.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582786  
CATALOG NUMBER: HCC6W50D010SL-HM64560927-61WDH

### Luminous Intensity Polar Plot





TEST NUMBER: P582786

CATALOG NUMBER: HCC6W50D010SL-HM64560927-61WDH

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	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	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92																												
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84																												
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77																												
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70																												
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64																												
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59																												
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54																												
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50																												
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46																												
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43																												

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

	0°
0°	155525
5°	156559
10°	158369
15°	161618
20°	162525
25°	157467
30°	142851
35°	116145
40°	77094
45°	42904
50°	24059
55°	13352
60°	7368
65°	5578
70°	3879
75°	2859
80°	1673
85°	1698



TEST NUMBER: P582786  
 CATALOG NUMBER: HCC6W50D010SL-HM64560927-61WDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.5	6.8
10°-20°	802.9	20.2
20°-30°	1183.5	29.8
30°-40°	1058.5	26.7
40°-50°	459.2	11.6
50°-60°	134.9	3.4
60°-70°	43.1	1.1
70°-80°	15.2	0.4
80°-90°	2.2	0.1
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°	2258.0	56.9
0°-40°	3316.5	83.5
0°-60°	3910.6	98.5
0°-90°	3971.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3971.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2837	
5°	2845	272
15°	2848	803
25°	2603	1183
35°	1736	1059
45°	553	459
55°	140	135
65°	43	43
75°	14	15
85°	3	2
90°	0	



TEST NUMBER: P582786

CATALOG NUMBER: HCC6W50D010SL-HM64560927-61WDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2837.0
2.5°	2828.8
5°	2845.0
7.5°	2850.3
10°	2845.0
12.5°	2845.0
15°	2847.7
17.5°	2831.6
20°	2785.9
22.5°	2708.0
25°	2603.3
27.5°	2455.4
30°	2256.7
32.5°	2020.2
35°	1735.5
37.5°	1410.5
40°	1077.3
42.5°	787.1
45°	553.4
47.5°	394.9
50°	282.1
52.5°	201.5
55°	139.7
57.5°	94.0
60°	67.2
62.5°	53.7
65°	43.0
67.5°	32.2
70°	24.2
72.5°	18.8
75°	13.5
77.5°	10.7
80°	5.3
82.5°	2.7
85°	2.7
87.5°	0.0
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)