

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: P582799

Luminaire Tested: **HCC6W50D010SL-HM64560930-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582799  
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: HCC6W50D010SL-HM64560930-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

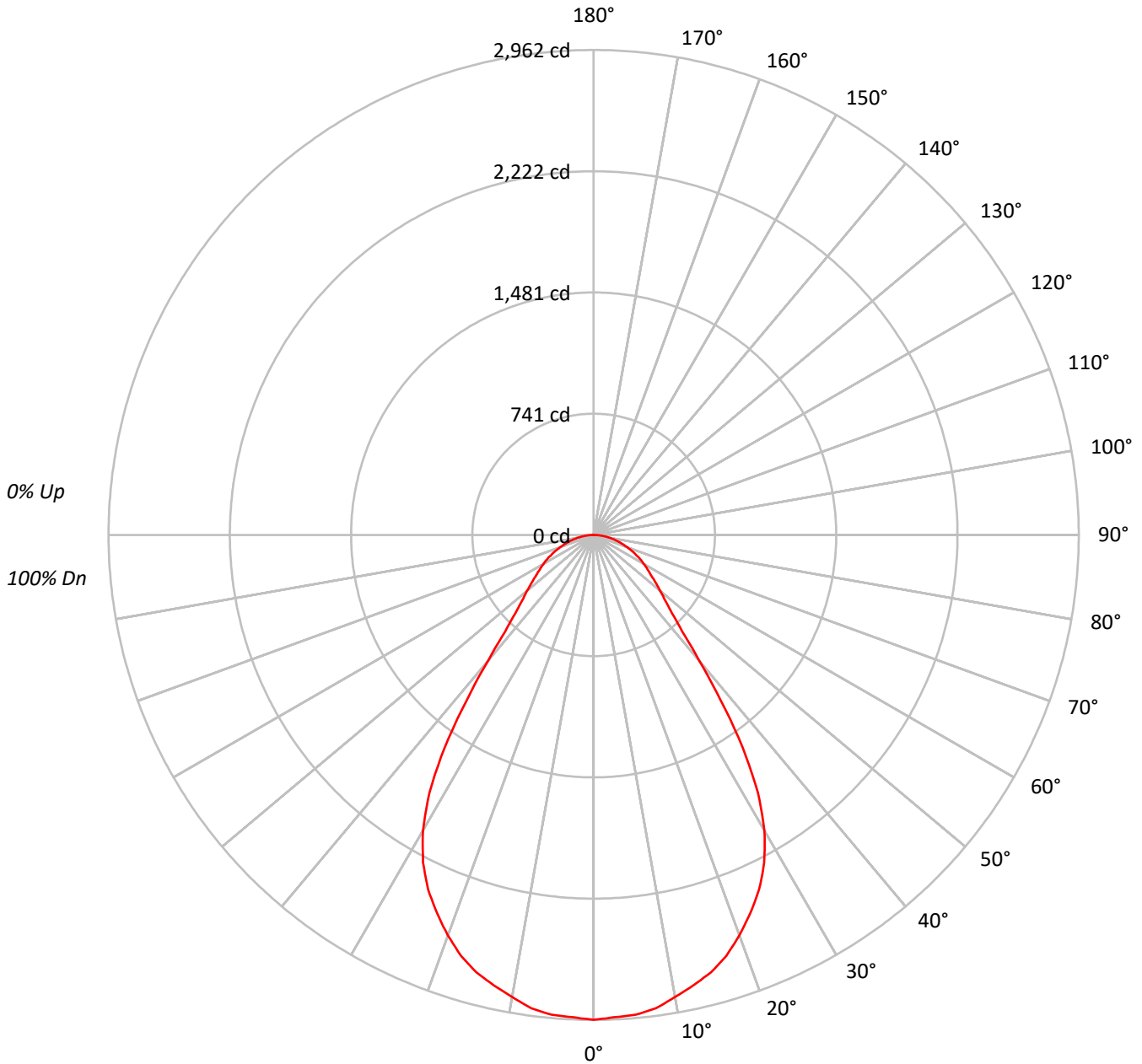
Lumens per Lamp: N/A  
Luminaire Lumens: 4542.2 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P582799  
CATALOG NUMBER: HCC6W50D010SL-HM64560930-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P582799

CATALOG NUMBER: HCC6W50D010SL-HM64560930-61PSMDW

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

RF	20									20									20									20									
RC	80									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	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°	162350
5°	161908
10°	159494
15°	156965
20°	151802
25°	144583
30°	132014
35°	106287
40°	71634
45°	52238
50°	45150
55°	40782
60°	38692
65°	36632
70°	34445
75°	32619
80°	30402
85°	28242



TEST NUMBER: P582799  
 CATALOG NUMBER: HCC6W50D010SL-HM64560930-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.5	6.1
10°-20°	776.7	17.1
20°-30°	1091.2	24.0
30°-40°	971.3	21.4
40°-50°	542.8	12.0
50°-60°	386.7	8.5
60°-70°	281.4	6.2
70°-80°	162.9	3.6
80°-90°	50.6	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°	2146.3	47.3
0°-40°	3117.7	68.6
0°-60°	4047.2	89.1
0°-90°	4542.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4542.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2962	
5°	2942	278
15°	2766	777
25°	2390	1091
35°	1588	971
45°	674	543
55°	427	387
65°	282	281
75°	154	163
85°	45	51
90°	0	



TEST NUMBER: P582799

CATALOG NUMBER: HCC6W50D010SL-HM64560930-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2961.5
2.5°	2948.6
5°	2942.2
7.5°	2916.5
10°	2865.2
12.5°	2817.0
15°	2765.7
17.5°	2695.2
20°	2602.1
22.5°	2499.5
25°	2390.3
27.5°	2255.6
30°	2085.5
32.5°	1867.4
35°	1588.2
37.5°	1273.8
40°	1001.0
42.5°	798.9
45°	673.8
47.5°	590.4
50°	529.4
52.5°	474.9
55°	426.7
57.5°	388.2
60°	352.9
62.5°	320.9
65°	282.4
67.5°	250.3
70°	214.9
72.5°	182.9
75°	154.0
77.5°	125.2
80°	96.3
82.5°	70.6
85°	44.9
87.5°	22.4
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)