

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: P582709

Luminaire Tested: **HCC6W50D010BZ-HM64560827-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582709  
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: HCC6W50D010BZ-HM64560827-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

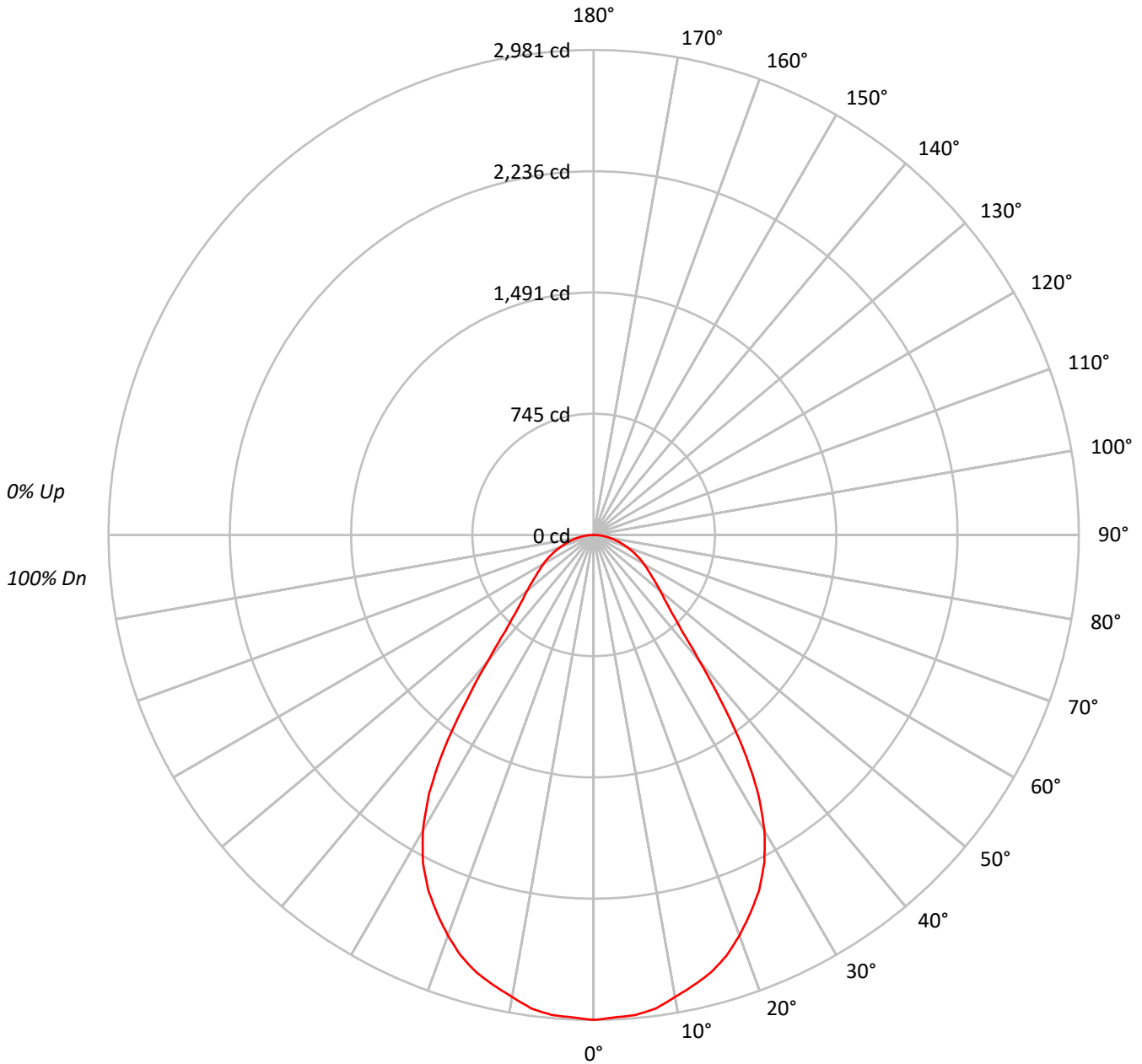
Lumens per Lamp: N/A  
Luminaire Lumens: 4572.3 lumens  
Efficiency: N/A  
Efficacy: 95.3 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**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			
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°	163424
5°	162981
10°	160551
15°	158009
20°	152806
25°	145545
30°	132888
35°	106990
40°	72114
45°	52579
50°	45448
55°	41050
60°	38944
65°	36878
70°	34685
75°	32852
80°	30559
85°	28430



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	280.3	6.1
10°-20°	781.8	17.1
20°-30°	1098.5	24.0
30°-40°	977.8	21.4
40°-50°	546.4	12.0
50°-60°	389.3	8.5
60°-70°	283.3	6.2
70°-80°	164.0	3.6
80°-90°	51.0	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°	2160.6	47.3
0°-40°	3138.4	68.6
0°-60°	4074.1	89.1
0°-90°	4572.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2981	
5°	2962	280
15°	2784	782
25°	2406	1098
35°	1599	978
45°	678	546
55°	430	389
65°	284	283
75°	155	164
85°	45	51
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2981.1
2.5°	2968.2
5°	2961.7
7.5°	2935.8
10°	2884.2
12.5°	2835.8
15°	2784.1
17.5°	2713.0
20°	2619.3
22.5°	2516.0
25°	2406.2
27.5°	2270.6
30°	2099.3
32.5°	1879.8
35°	1598.7
37.5°	1282.2
40°	1007.7
42.5°	804.3
45°	678.2
47.5°	594.3
50°	532.9
52.5°	478.1
55°	429.5
57.5°	390.8
60°	355.2
62.5°	323.0
65°	284.3
67.5°	251.9
70°	216.4
72.5°	184.1
75°	155.1
77.5°	126.0
80°	96.8
82.5°	71.1
85°	45.2
87.5°	22.6
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)