

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: P585125

Luminaire Tested: **HC860D010-HM86080927-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P585125  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC860D010-HM86080927-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4515.6 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

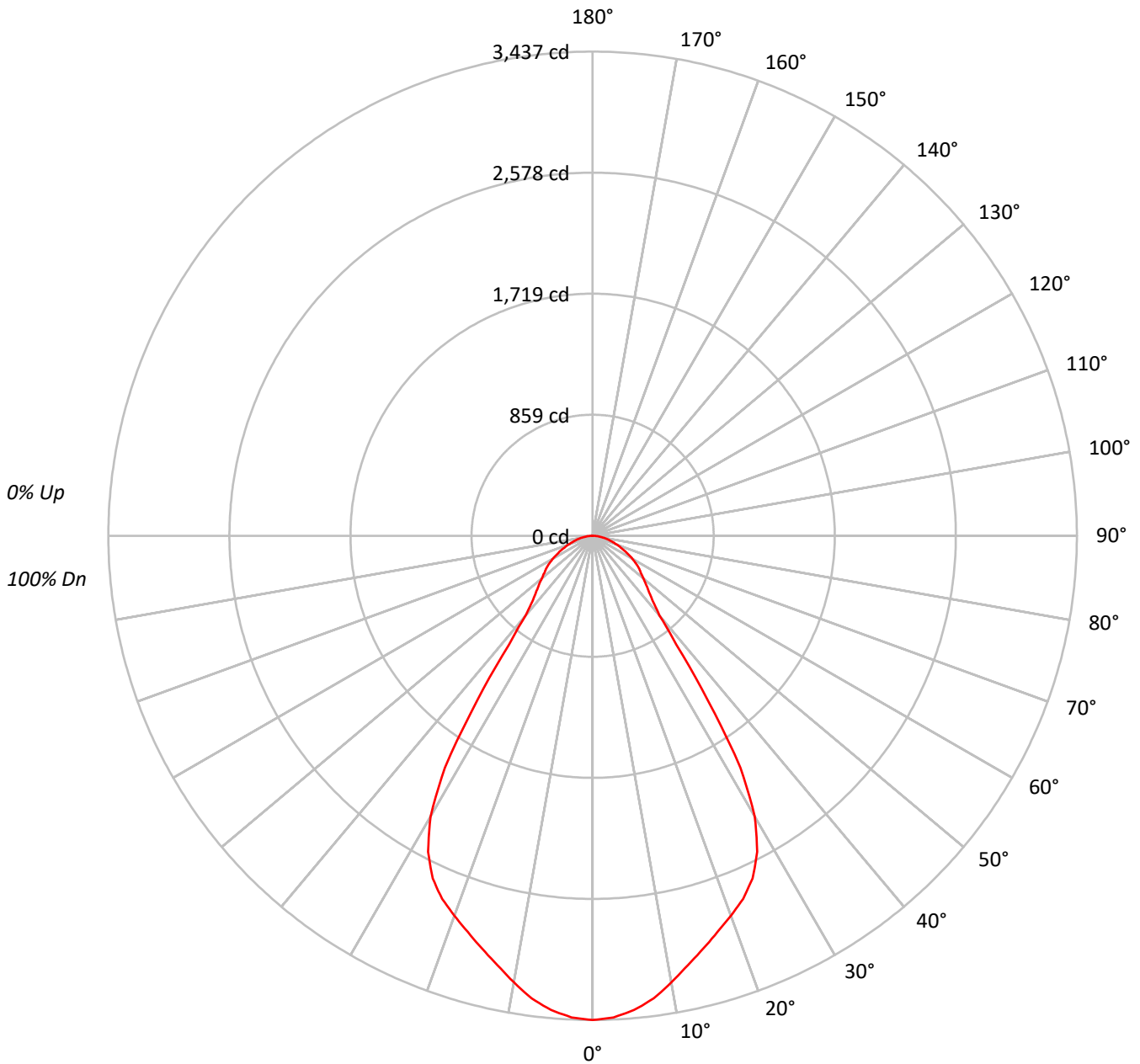
Input Watts (W): 56  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			79
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			71
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			64
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			53
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			39

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

	0°
0°	105997
5°	104616
10°	100784
15°	96839
20°	94164
25°	91331
30°	81956
35°	53726
40°	29699
45°	24761
50°	22581
55°	21548
60°	20037
65°	18168
70°	16427
75°	14833
80°	13478
85°	12879



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.5	7.0
10°-20°	855.8	19.0
20°-30°	1218.0	27.0
30°-40°	901.5	20.0
40°-50°	446.5	9.9
50°-60°	356.3	7.9
60°-70°	247.4	5.5
70°-80°	133.3	3.0
80°-90°	39.2	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°	2391.4	53.0
0°-40°	3292.8	72.9
0°-60°	4095.6	90.7
0°-90°	4515.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3437	
5°	3380	318
15°	3033	856
25°	2684	1218
35°	1427	901
45°	568	446
55°	401	356
65°	249	247
75°	124	133
85°	36	39
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3437.4
2.5°	3422.1
5°	3379.7
7.5°	3312.9
10°	3218.7
12.5°	3121.6
15°	3033.4
17.5°	2948.4
20°	2869.5
22.5°	2790.5
25°	2684.3
27.5°	2529.4
30°	2301.7
32.5°	1952.5
35°	1427.2
37.5°	974.7
40°	737.8
42.5°	631.6
45°	567.8
47.5°	516.3
50°	470.7
52.5°	431.1
55°	400.8
57.5°	364.4
60°	324.9
62.5°	285.5
65°	249.0
67.5°	212.6
70°	182.2
72.5°	151.8
75°	124.5
77.5°	100.2
80°	75.9
82.5°	54.7
85°	36.4
87.5°	15.2
90°	0.0



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— 0°-180°







(END OF REPORT)