

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: P593679

Luminaire Tested: **HC830D010-HM82555950-81PSMDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593679  
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: HC830D010-HM82555950-81PSMDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3525.2 lumens  
Efficiency: N/A  
Efficacy: 125.9 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

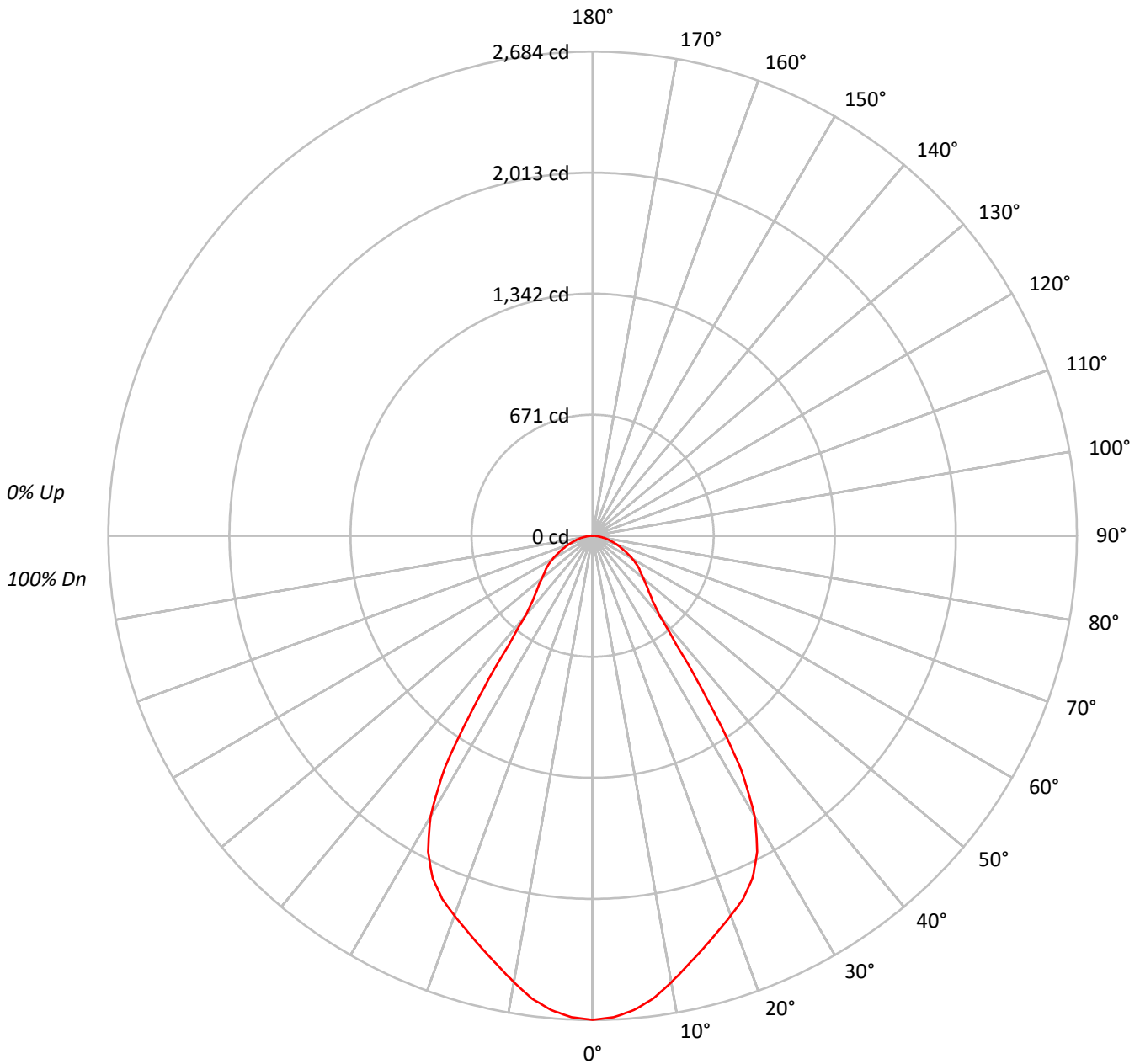
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	82749
5°	81669
10°	78681
15°	75606
20°	73513
25°	71301
30°	63982
35°	41943
40°	23190
45°	19332
50°	17625
55°	16822
60°	15640
65°	14184
70°	12821
75°	11569
80°	10513
85°	10048



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	247.9	7.0
10°-20°	668.1	19.0
20°-30°	950.9	27.0
30°-40°	703.8	20.0
40°-50°	348.6	9.9
50°-60°	278.2	7.9
60°-70°	193.1	5.5
70°-80°	104.0	3.0
80°-90°	30.6	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°	1866.9	53.0
0°-40°	2570.7	72.9
0°-60°	3197.4	90.7
0°-90°	3525.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3525.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2684	
5°	2638	248
15°	2368	668
25°	2096	951
35°	1114	704
45°	443	349
55°	313	278
65°	194	193
75°	97	104
85°	28	31
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2683.5
2.5°	2671.7
5°	2638.4
7.5°	2586.3
10°	2512.8
12.5°	2437.0
15°	2368.3
17.5°	2301.8
20°	2240.2
22.5°	2178.6
25°	2095.6
27.5°	1974.7
30°	1796.9
32.5°	1524.3
35°	1114.2
37.5°	761.0
40°	576.1
42.5°	493.1
45°	443.3
47.5°	403.0
50°	367.4
52.5°	336.6
55°	312.9
57.5°	284.4
60°	253.6
62.5°	222.8
65°	194.4
67.5°	166.0
70°	142.2
72.5°	118.5
75°	97.1
77.5°	78.2
80°	59.2
82.5°	42.7
85°	28.4
87.5°	11.9
90°	0.0



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— 0°-180°







(END OF REPORT)