

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: P584299

Luminaire Tested: **HC830D010-HM82555840-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584299  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC830D010-HM82555840-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4102.5 lumens  
Efficiency: N/A  
Efficacy: 146.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

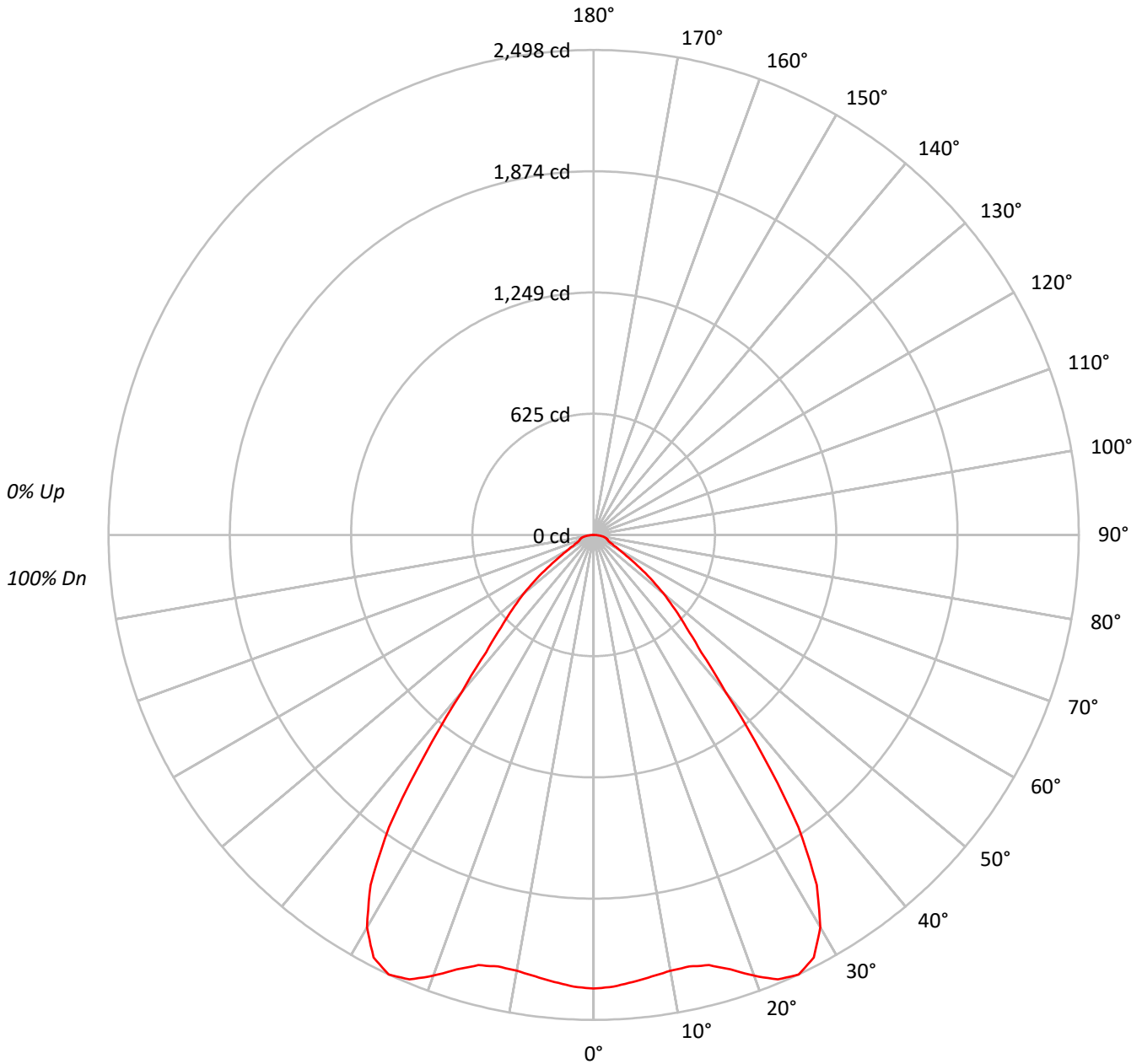
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

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

	0°
0°	72049
5°	71550
10°	71366
15°	73240
20°	79288
25°	85006
30°	83106
35°	69201
40°	42516
45°	29436
50°	22466
55°	14725
60°	9220
65°	6902
70°	6960
75°	8018
80°	8843
85°	7961



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.6	5.4
10°-20°	658.6	16.1
20°-30°	1133.7	27.6
30°-40°	1098.4	26.8
40°-50°	541.1	13.2
50°-60°	255.3	6.2
60°-70°	100.6	2.5
70°-80°	69.4	1.7
80°-90°	25.8	0.6
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°	2012.0	49.0
0°-40°	3110.4	75.8
0°-60°	3906.7	95.2
0°-90°	4102.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4102.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2336	
5°	2312	220
15°	2294	659
25°	2498	1134
35°	1838	1098
45°	675	541
55°	274	255
65°	95	101
75°	67	69
85°	22	26
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2336.5
2.5°	2329.0
5°	2311.5
7.5°	2294.2
10°	2279.2
12.5°	2276.7
15°	2294.2
17.5°	2346.5
20°	2416.2
22.5°	2478.5
25°	2498.4
27.5°	2453.6
30°	2334.0
32.5°	2137.2
35°	1838.3
37.5°	1427.3
40°	1056.2
42.5°	819.6
45°	675.0
47.5°	568.0
50°	468.3
52.5°	368.7
55°	273.9
57.5°	199.3
60°	149.5
62.5°	117.1
65°	94.6
67.5°	82.2
70°	77.2
72.5°	72.3
75°	67.3
77.5°	59.8
80°	49.8
82.5°	37.3
85°	22.5
87.5°	10.0
90°	0.0



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— 0°-180°







(END OF REPORT)