

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: P584316

Luminaire Tested: **HC830D010-HM82555927-81WDWB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584316  
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-HM82555927-81WDWB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2950.5 lumens  
Efficiency: N/A  
Efficacy: 105.4 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

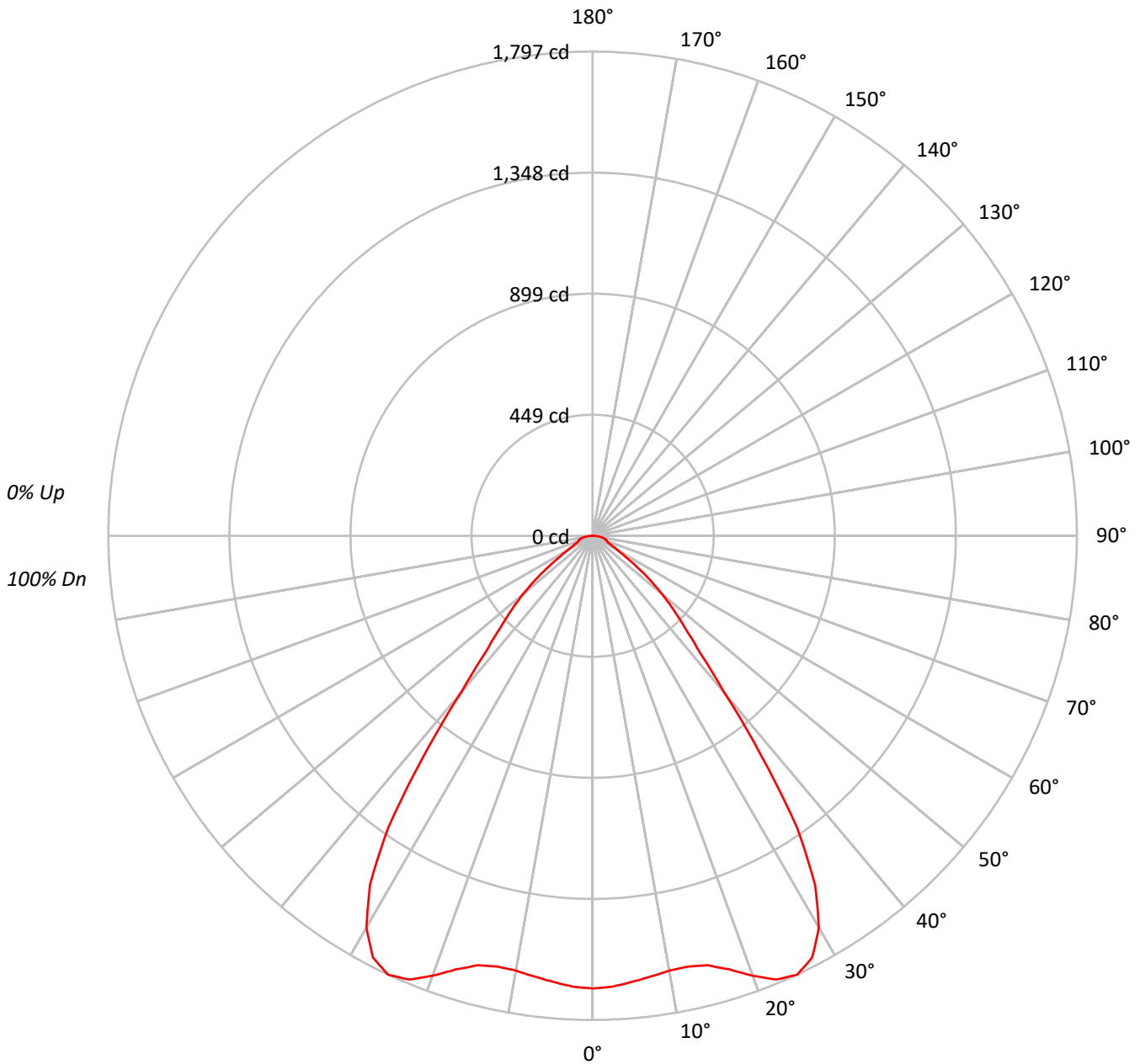
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	51817
5°	51461
10°	51327
15°	52675
20°	57023
25°	61135
30°	59769
35°	49773
40°	30573
45°	21172
50°	16157
55°	10591
60°	6630
65°	4969
70°	5004
75°	5766
80°	6357
85°	5732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.0	5.4
10°-20°	473.6	16.1
20°-30°	815.4	27.6
30°-40°	790.0	26.8
40°-50°	389.1	13.2
50°-60°	183.6	6.2
60°-70°	72.4	2.5
70°-80°	49.9	1.7
80°-90°	18.5	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°	1447.0	49.0
0°-40°	2237.0	75.8
0°-60°	2809.6	95.2
0°-90°	2950.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2950.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1680	
5°	1662	158
15°	1650	474
25°	1797	815
35°	1322	790
45°	486	389
55°	197	184
65°	68	72
75°	48	50
85°	16	19
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1680.4
2.5°	1675.1
5°	1662.5
7.5°	1650.0
10°	1639.2
12.5°	1637.4
15°	1650.0
17.5°	1687.5
20°	1737.7
22.5°	1782.5
25°	1796.8
27.5°	1764.6
30°	1678.6
32.5°	1537.1
35°	1322.2
37.5°	1026.5
40°	759.5
42.5°	589.4
45°	485.5
47.5°	408.4
50°	336.8
52.5°	265.1
55°	197.0
57.5°	143.3
60°	107.5
62.5°	84.2
65°	68.1
67.5°	59.1
70°	55.5
72.5°	52.0
75°	48.4
77.5°	43.0
80°	35.8
82.5°	26.9
85°	16.2
87.5°	7.1
90°	0.0



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— 0°-180°







(END OF REPORT)