

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: P584346

Luminaire Tested: **HC830D010-HM82555935-81WDBB**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584346  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC830D010-HM82555935-81WDBB  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3212.7 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

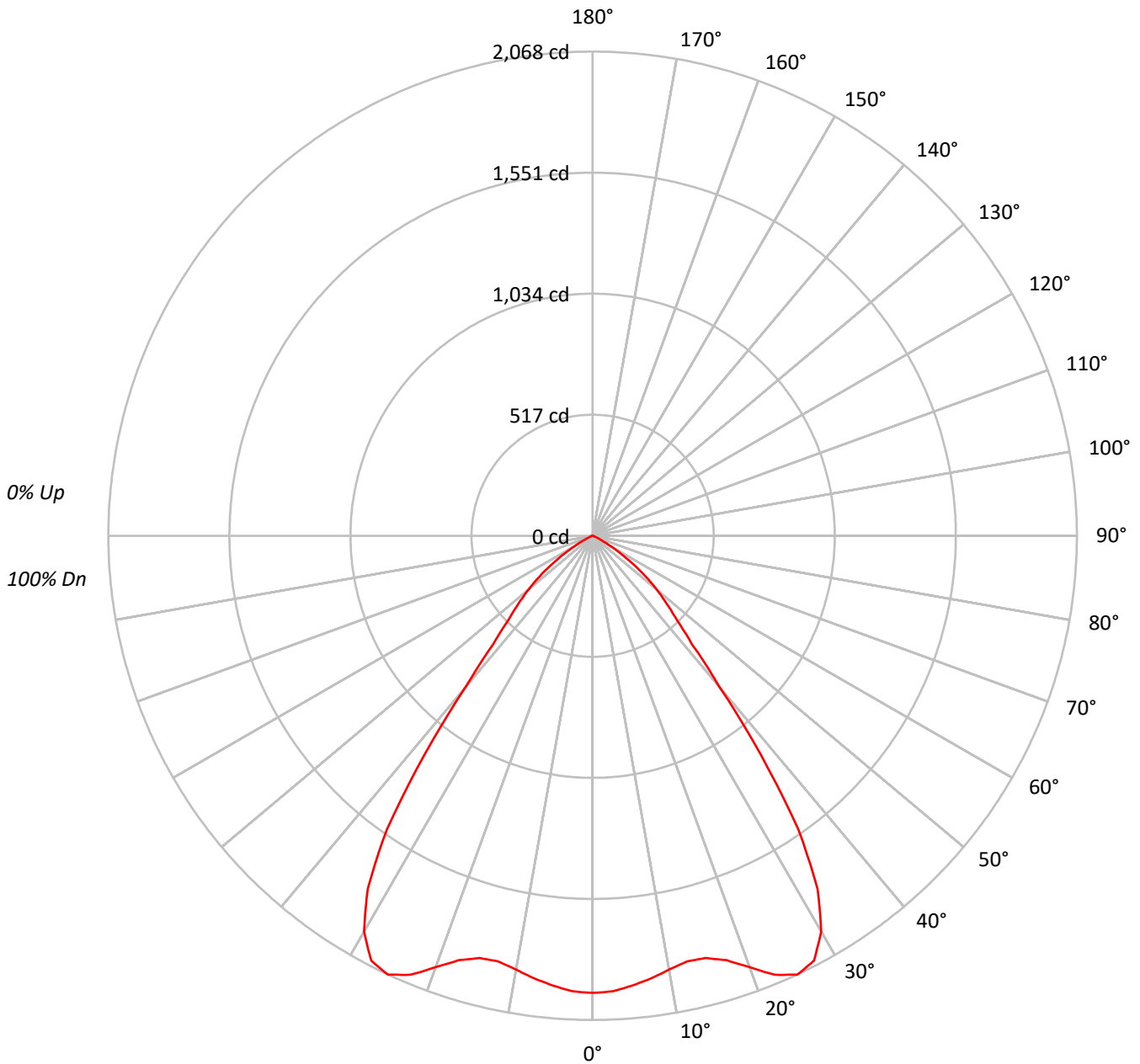
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62			
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56			
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51			
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40			

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

	0°
0°	60196
5°	59698
10°	58910
15°	59583
20°	64341
25°	70362
30°	69508
35°	57660
40°	33938
45°	22171
50°	17184
55°	11419
60°	5557
65°	1715
70°	577
75°	512
80°	373
85°	743



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.6	5.7
10°-20°	536.2	16.7
20°-30°	937.5	29.2
30°-40°	911.9	28.4
40°-50°	414.7	12.9
50°-60°	192.3	6.0
60°-70°	32.2	1.0
70°-80°	3.9	0.1
80°-90°	1.4	0.0
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°	1656.3	51.6
0°-40°	2568.2	79.9
0°-60°	3175.2	98.8
0°-90°	3212.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3212.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1952	
5°	1929	183
15°	1866	536
25°	2068	937
35°	1532	912
45°	508	415
55°	212	192
65°	24	32
75°	4	4
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1952.1
2.5°	1947.8
5°	1928.6
7.5°	1907.0
10°	1881.4
12.5°	1862.1
15°	1866.4
17.5°	1900.6
20°	1960.7
22.5°	2029.4
25°	2068.0
27.5°	2046.5
30°	1952.1
32.5°	1786.9
35°	1531.7
37.5°	1179.8
40°	843.1
42.5°	628.5
45°	508.4
47.5°	429.0
50°	358.2
52.5°	285.4
55°	212.4
57.5°	145.9
60°	90.1
62.5°	49.3
65°	23.5
67.5°	10.7
70°	6.4
72.5°	4.3
75°	4.3
77.5°	2.1
80°	2.1
82.5°	2.1
85°	2.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)