

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: P584339

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

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584339  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC830D010-HM82555935-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3176.3 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

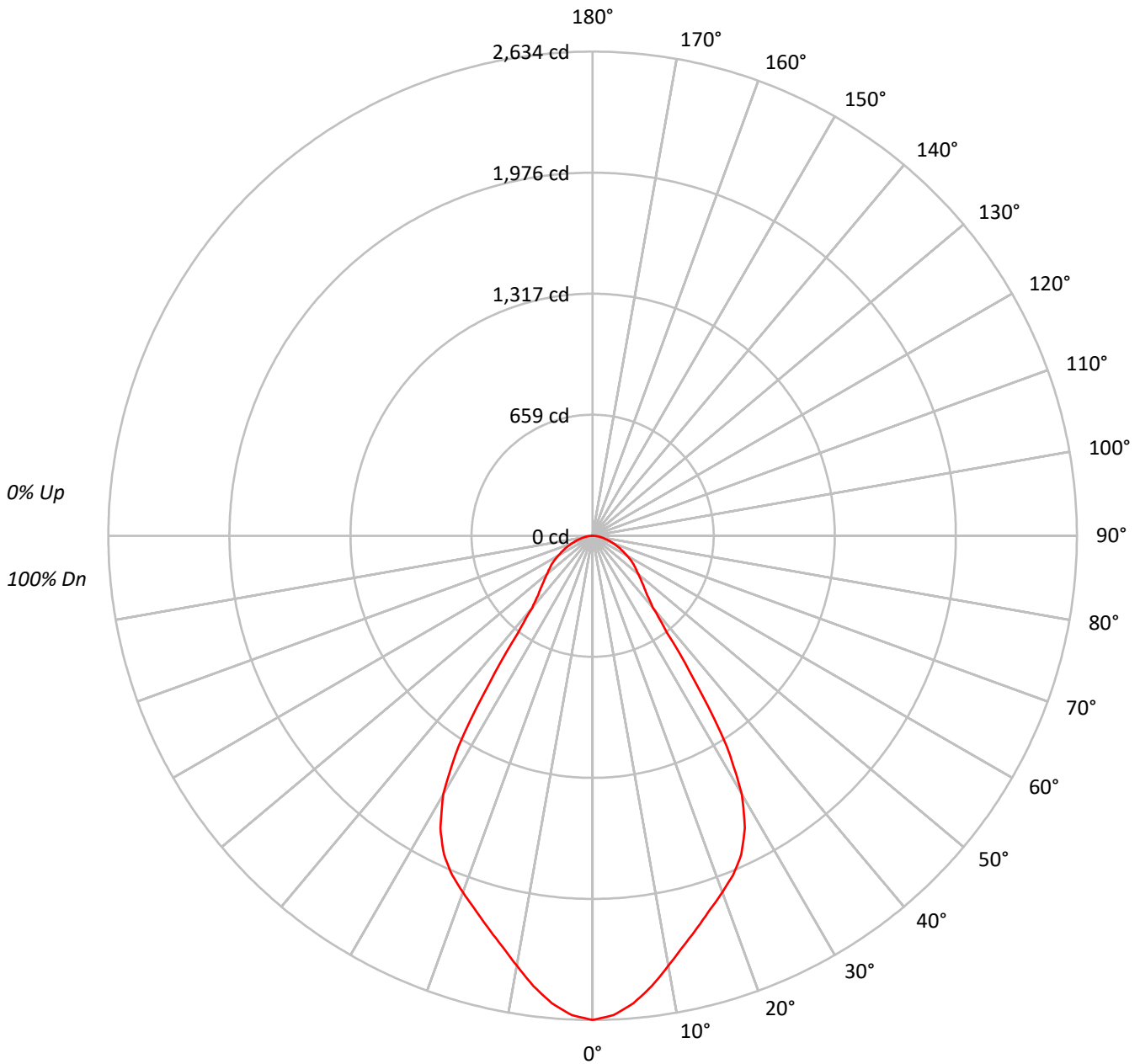
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
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	46	42	50	45	42	40			

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

	0°
0°	81220
5°	79007
10°	74344
15°	70389
20°	67711
25°	65095
30°	57815
35°	36820
40°	20546
45°	17208
50°	15538
55°	14645
60°	13358
65°	12054
70°	10630
75°	9448
80°	8382
85°	7571



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.9	7.5
10°-20°	621.8	19.6
20°-30°	867.5	27.3
30°-40°	624.2	19.7
40°-50°	309.3	9.7
50°-60°	242.0	7.6
60°-70°	163.9	5.2
70°-80°	85.1	2.7
80°-90°	24.5	0.8
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°	1727.3	54.4
0°-40°	2351.5	74.0
0°-60°	2902.9	91.4
0°-90°	3176.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3176.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2634	
5°	2552	238
15°	2205	622
25°	1913	868
35°	978	624
45°	395	309
55°	272	242
65°	165	164
75°	79	85
85°	21	25
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2633.9
2.5°	2610.3
5°	2552.4
7.5°	2470.9
10°	2374.3
12.5°	2284.3
15°	2204.9
17.5°	2129.9
20°	2063.4
22.5°	1996.9
25°	1913.2
27.5°	1793.1
30°	1623.7
32.5°	1357.7
35°	978.1
37.5°	667.0
40°	510.4
42.5°	439.7
45°	394.6
47.5°	356.1
50°	323.9
52.5°	295.9
55°	272.4
57.5°	244.5
60°	216.6
62.5°	188.7
65°	165.2
67.5°	141.6
70°	117.9
72.5°	98.7
75°	79.3
77.5°	62.2
80°	47.2
82.5°	34.4
85°	21.4
87.5°	10.7
90°	0.0



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— 0°-180°







(END OF REPORT)