

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: P584270

Luminaire Tested: **HC830D010-HM82555835-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584270  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC830D010-HM82555835-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3396.9 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

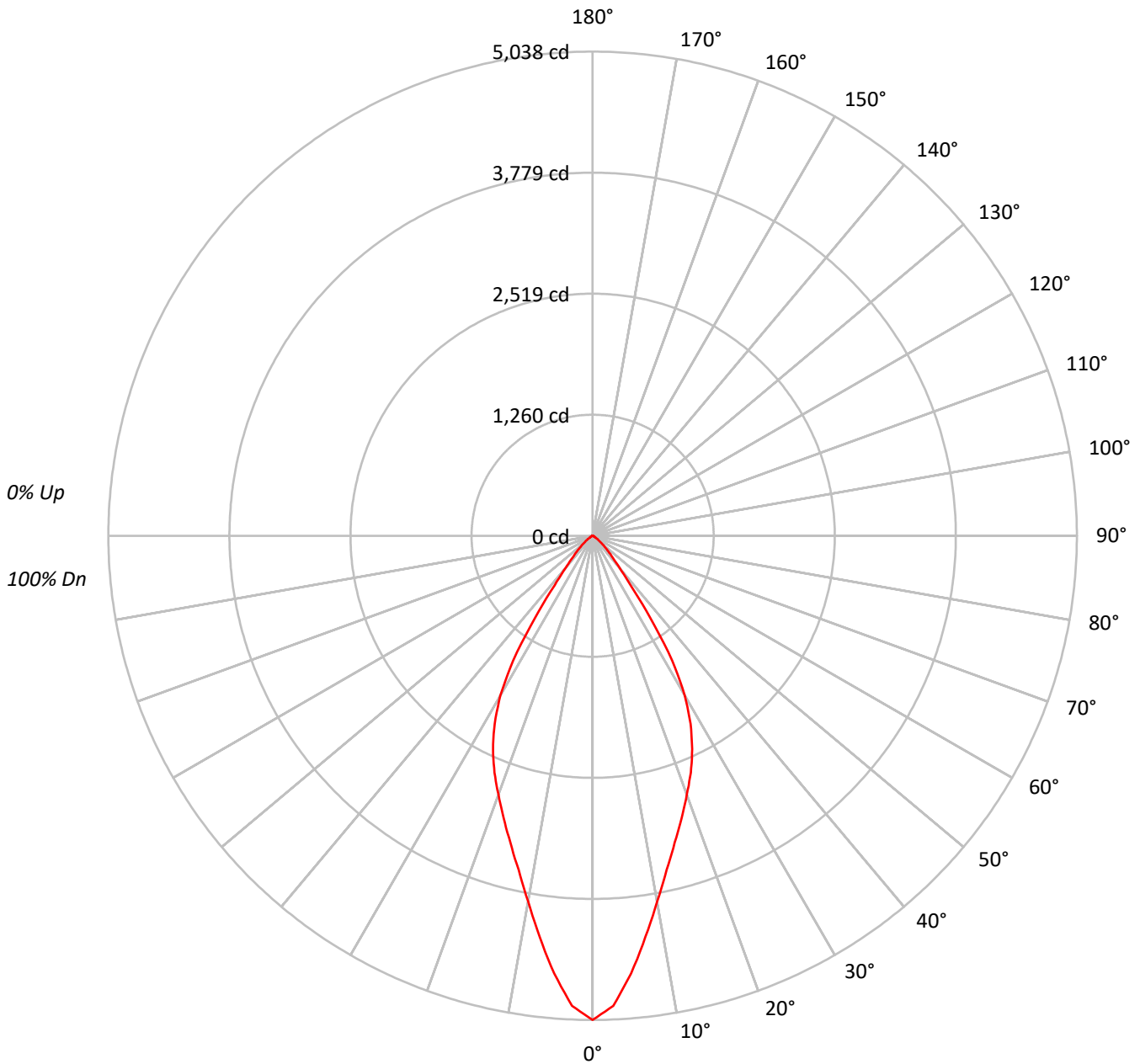
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P584270

CATALOG NUMBER: HC830D010-HM82555835-81MDH

### Luminous Intensity Polar Plot





TEST NUMBER: P584270

CATALOG NUMBER: HC830D010-HM82555835-81MDH

**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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

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

	0°
0°	155347
5°	141565
10°	120955
15°	105480
20°	94016
25°	83396
30°	68279
35°	39210
40°	17402
45°	10126
50°	5848
55°	3339
60°	1838
65°	1175
70°	829
75°	548
80°	408
85°	814



TEST NUMBER: P584270

CATALOG NUMBER: HC830D010-HM82555835-81MDH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.0	12.2
10°-20°	928.8	27.3
20°-30°	1111.8	32.7
30°-40°	672.6	19.8
40°-50°	188.5	5.5
50°-60°	58.5	1.7
60°-70°	16.7	0.5
70°-80°	4.5	0.1
80°-90°	1.6	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°	2454.5	72.3
0°-40°	3127.1	92.1
0°-60°	3374.1	99.3
0°-90°	3396.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3396.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5038	
5°	4573	414
15°	3304	929
25°	2451	1112
35°	1042	673
45°	232	188
55°	62	59
65°	16	17
75°	5	5
85°	2	2
90°	0	



TEST NUMBER: P584270

CATALOG NUMBER: HC830D010-HM82555835-81MDH

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	5037.8
2.5°	4895.2
5°	4573.4
7.5°	4210.1
10°	3862.9
12.5°	3559.4
15°	3304.1
17.5°	3078.8
20°	2865.0
22.5°	2667.3
25°	2451.1
27.5°	2207.4
30°	1917.6
32.5°	1542.8
35°	1041.6
37.5°	648.4
40°	432.3
42.5°	310.4
45°	232.2
47.5°	170.1
50°	121.9
52.5°	85.1
55°	62.1
57.5°	41.4
60°	29.8
62.5°	20.7
65°	16.1
67.5°	11.5
70°	9.2
72.5°	4.6
75°	4.6
77.5°	2.3
80°	2.3
82.5°	2.3
85°	2.3
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)