

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: P584461

Luminaire Tested: **HC835D010-HM82555930-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584461  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC835D010-HM82555930-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3432.8 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

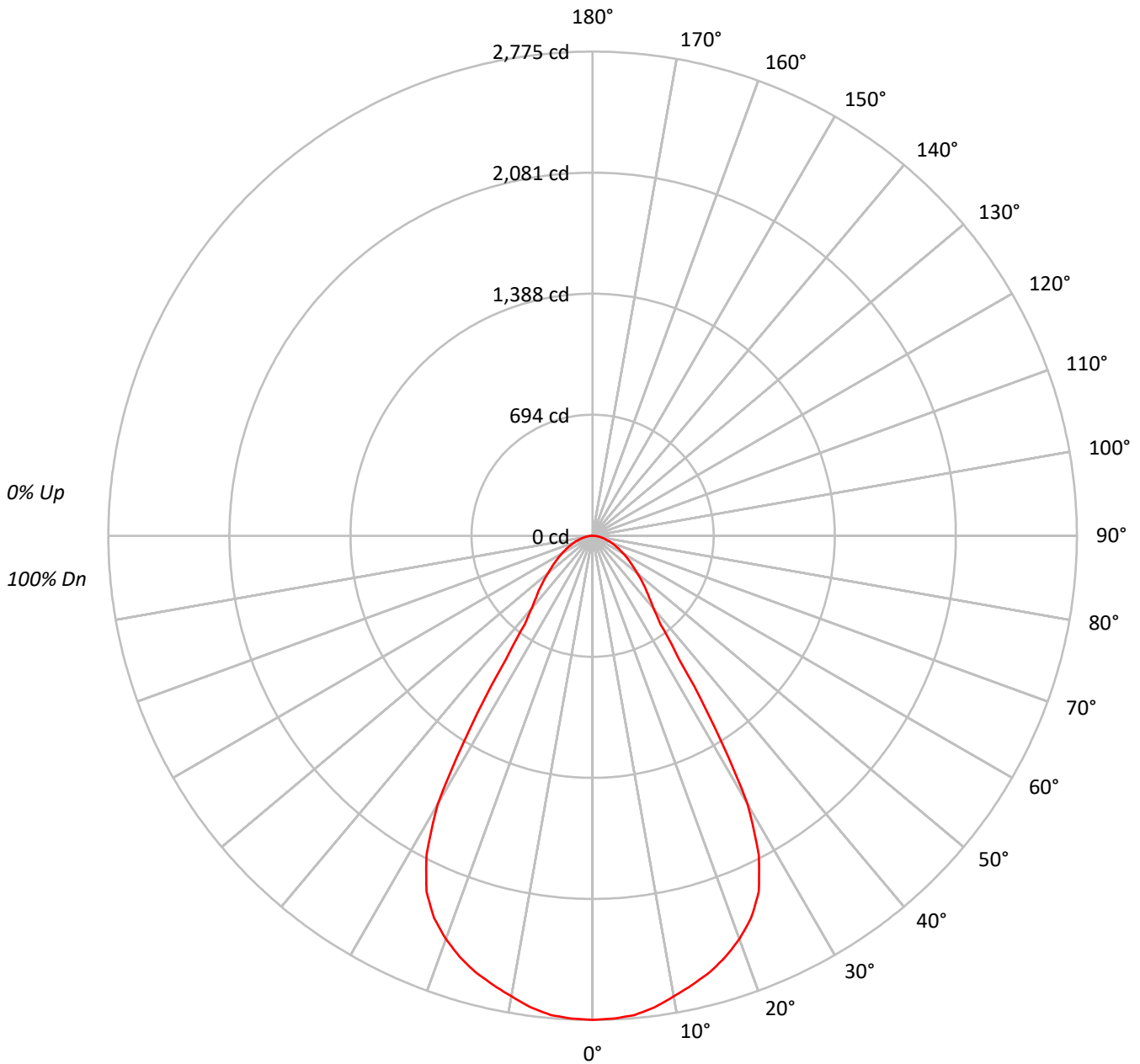
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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	101	102	100	98	98	96	95	95	93	92	90		
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56		
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52		
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48		
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45		
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42		

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

	0°
0°	85565
5°	85334
10°	83913
15°	82687
20°	80706
25°	76609
30°	63188
35°	32532
40°	21781
45°	18678
50°	16114
55°	14059
60°	12495
65°	11222
70°	10179
75°	9162
80°	8186
85°	8173



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.7	7.6
10°-20°	728.7	21.2
20°-30°	1009.7	29.4
30°-40°	606.5	17.7
40°-50°	332.0	9.7
50°-60°	235.8	6.9
60°-70°	153.1	4.5
70°-80°	81.8	2.4
80°-90°	24.4	0.7
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°	1999.1	58.2
0°-40°	2605.5	75.9
0°-60°	3173.4	92.4
0°-90°	3432.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3432.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2775	
5°	2757	261
15°	2590	729
25°	2252	1010
35°	864	606
45°	428	332
55°	262	236
65°	154	153
75°	77	82
85°	23	24
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2774.8
2.5°	2769.7
5°	2756.8
7.5°	2726.0
10°	2679.9
12.5°	2636.3
15°	2590.1
17.5°	2531.1
20°	2459.4
22.5°	2372.2
25°	2251.6
27.5°	2061.9
30°	1774.6
32.5°	1300.2
35°	864.2
37.5°	638.5
40°	541.1
42.5°	479.6
45°	428.3
47.5°	379.5
50°	335.9
52.5°	294.9
55°	261.5
57.5°	230.9
60°	202.6
62.5°	176.9
65°	153.8
67.5°	130.8
70°	112.9
72.5°	92.4
75°	76.9
77.5°	61.6
80°	46.1
82.5°	33.3
85°	23.1
87.5°	10.3
90°	0.0



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— 0°-180°







(END OF REPORT)