

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: P584491

Luminaire Tested: **HC835D010-HM82555940-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584491  
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: HC835D010-HM82555940-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4208.1 lumens  
Efficiency: N/A  
Efficacy: 124.9 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

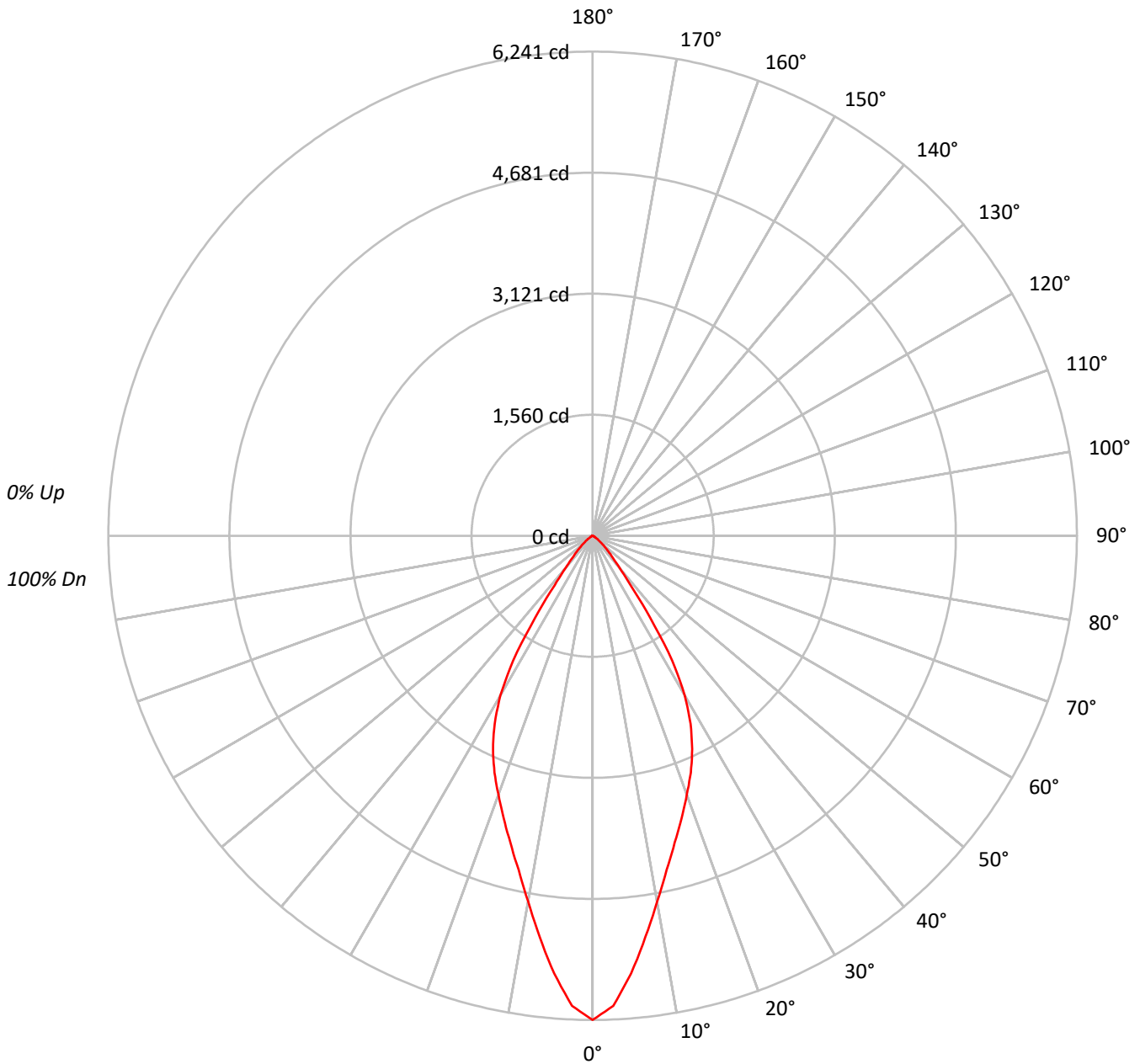
Input Watts (W): 33.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	192446
5°	175370
10°	149837
15°	130669
20°	116465
25°	103307
30°	84584
35°	48576
40°	21556
45°	12542
50°	7239
55°	4134
60°	2282
65°	1452
70°	1028
75°	691
80°	515
85°	1026



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	512.8	12.2
10°-20°	1150.6	27.3
20°-30°	1377.2	32.7
30°-40°	833.2	19.8
40°-50°	233.5	5.5
50°-60°	72.5	1.7
60°-70°	20.7	0.5
70°-80°	5.7	0.1
80°-90°	2.0	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°	3040.6	72.3
0°-40°	3873.8	92.1
0°-60°	4179.7	99.3
0°-90°	4208.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4208.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	6241	
5°	5666	513
15°	4093	1151
25°	3036	1377
35°	1290	833
45°	288	233
55°	77	73
65°	20	21
75°	6	6
85°	3	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	6240.9
2.5°	6064.2
5°	5665.5
7.5°	5215.4
10°	4785.3
12.5°	4409.4
15°	4093.1
17.5°	3814.0
20°	3549.1
22.5°	3304.1
25°	3036.3
27.5°	2734.4
30°	2375.5
32.5°	1911.3
35°	1290.4
37.5°	803.3
40°	535.5
42.5°	384.6
45°	287.6
47.5°	210.7
50°	150.9
52.5°	105.4
55°	76.9
57.5°	51.3
60°	37.0
62.5°	25.6
65°	19.9
67.5°	14.3
70°	11.4
72.5°	5.8
75°	5.8
77.5°	2.9
80°	2.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)