

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: P584151

Luminaire Tested: **HC825D010-HM82555840-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584151  
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: HC825D010-HM82555840-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2734.3 lumens  
Efficiency: N/A  
Efficacy: 102.0 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

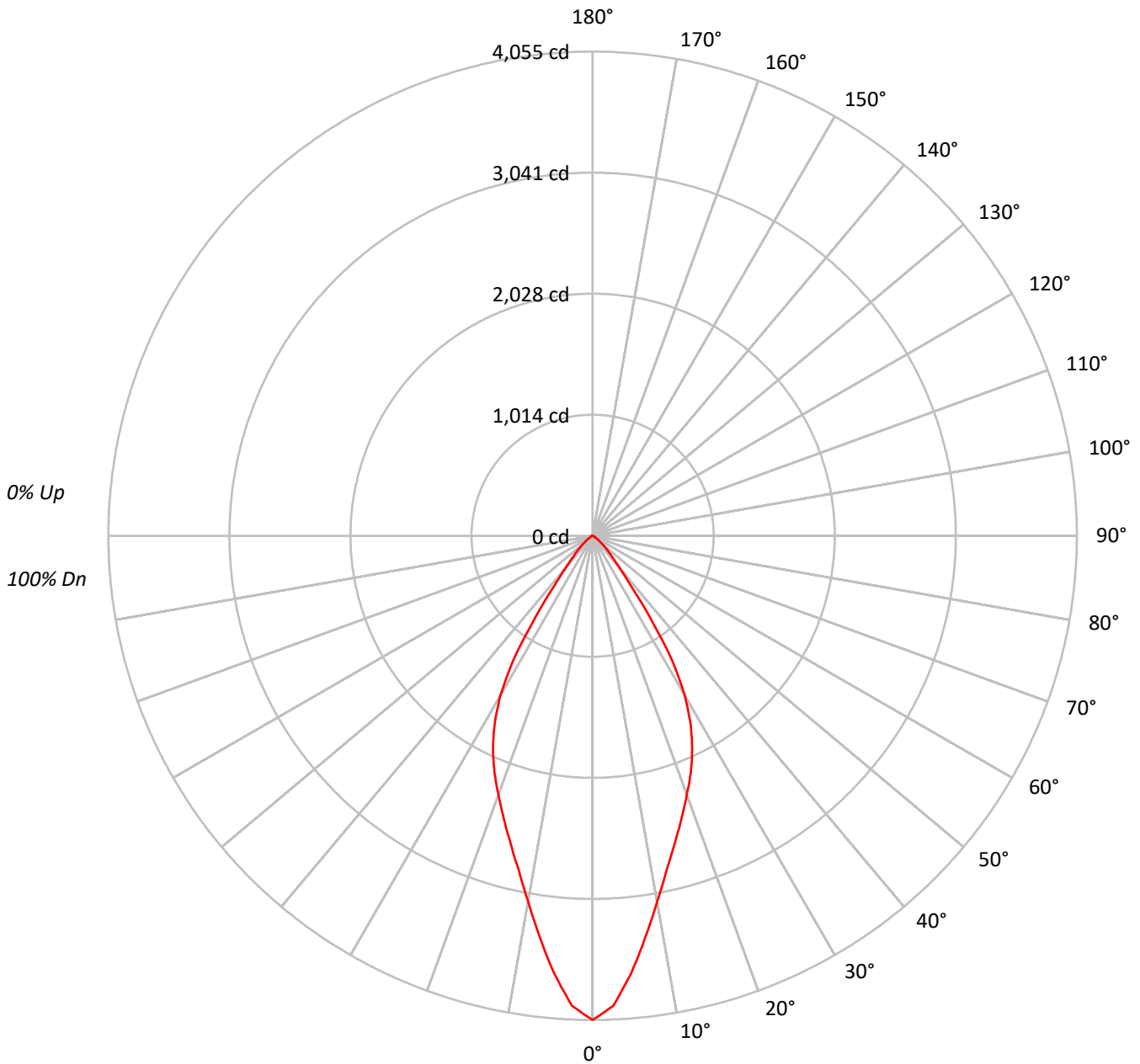
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	91	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	57	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°	125047
5°	113951
10°	97362
15°	84909
20°	75679
25°	67130
30°	54963
35°	31565
40°	14008
45°	8151
50°	4706
55°	2688
60°	1486
65°	941
70°	667
75°	441
80°	320
85°	637



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.2	12.2
10°-20°	747.6	27.3
20°-30°	894.9	32.7
30°-40°	541.4	19.8
40°-50°	151.7	5.5
50°-60°	47.1	1.7
60°-70°	13.4	0.5
70°-80°	3.6	0.1
80°-90°	1.2	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°	1975.7	72.3
0°-40°	2517.1	92.1
0°-60°	2716.0	99.3
0°-90°	2734.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2734.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4055	
5°	3681	333
15°	2660	748
25°	1973	895
35°	838	541
45°	187	152
55°	50	47
65°	13	13
75°	4	4
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4055.2
2.5°	3940.5
5°	3681.3
7.5°	3388.9
10°	3109.4
12.5°	2865.1
15°	2659.7
17.5°	2478.2
20°	2306.2
22.5°	2147.0
25°	1973.0
27.5°	1776.8
30°	1543.6
32.5°	1241.9
35°	838.5
37.5°	521.9
40°	348.0
42.5°	249.8
45°	186.9
47.5°	137.0
50°	98.1
52.5°	68.5
55°	50.0
57.5°	33.3
60°	24.1
62.5°	16.7
65°	12.9
67.5°	9.2
70°	7.4
72.5°	3.7
75°	3.7
77.5°	1.8
80°	1.8
82.5°	1.8
85°	1.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)