

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: P584117

Luminaire Tested: **HC825D010-HM82555830-81MDH**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584117  
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-HM82555830-81MDH  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2381.6 lumens  
Efficiency: N/A  
Efficacy: 88.9 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

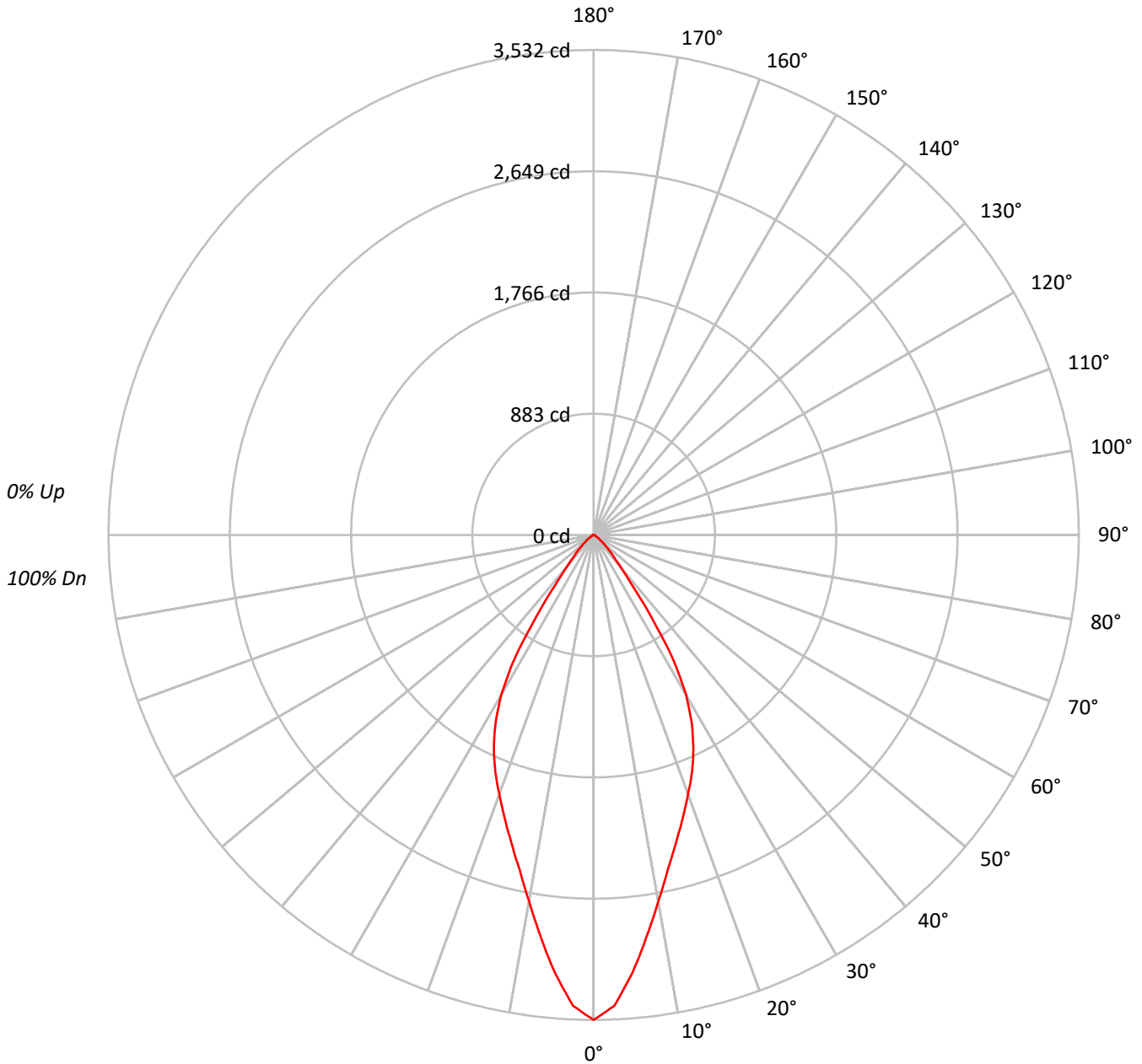
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	108920
5°	99257
10°	84805
15°	73959
20°	65916
25°	58470
30°	47877
35°	27492
40°	12201
45°	7104
50°	4102
55°	2339
60°	1295
65°	817
70°	577
75°	381
80°	284
85°	566



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	290.3	12.2
10°-20°	651.2	27.3
20°-30°	779.5	32.7
30°-40°	471.6	19.8
40°-50°	132.2	5.5
50°-60°	41.0	1.7
60°-70°	11.7	0.5
70°-80°	3.2	0.1
80°-90°	1.1	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°	1720.9	72.3
0°-40°	2192.5	92.1
0°-60°	2365.7	99.3
0°-90°	2381.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2381.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3532	
5°	3207	290
15°	2317	651
25°	1718	779
35°	730	472
45°	163	132
55°	44	41
65°	11	12
75°	3	3
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3532.2
2.5°	3432.2
5°	3206.6
7.5°	2951.8
10°	2708.4
12.5°	2495.6
15°	2316.7
17.5°	2158.6
20°	2008.7
22.5°	1870.1
25°	1718.5
27.5°	1547.6
30°	1344.6
32.5°	1081.8
35°	730.3
37.5°	454.6
40°	303.1
42.5°	217.6
45°	162.9
47.5°	119.3
50°	85.5
52.5°	59.6
55°	43.5
57.5°	29.0
60°	21.0
62.5°	14.6
65°	11.2
67.5°	8.0
70°	6.4
72.5°	3.2
75°	3.2
77.5°	1.6
80°	1.6
82.5°	1.6
85°	1.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)