

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: P584206

Luminaire Tested: **HC825D010-HM82555935-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584206  
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: HC825D010-HM82555935-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2134.4 lumens  
Efficiency: N/A  
Efficacy: 79.6 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

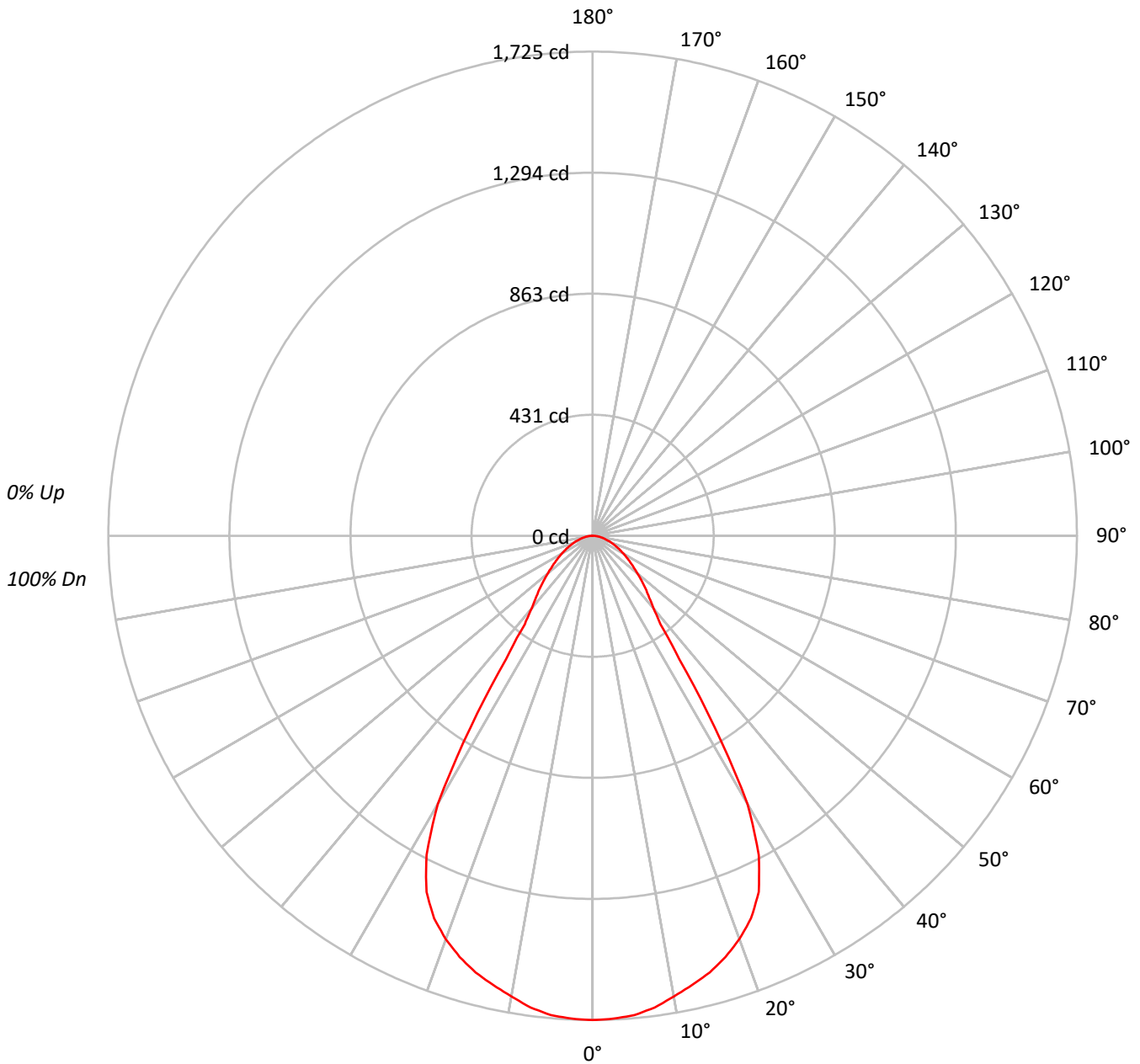
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	53202
5°	53058
10°	52175
15°	51414
20°	50178
25°	47634
30°	39288
35°	20230
40°	13541
45°	11613
50°	10022
55°	8742
60°	7765
65°	6983
70°	6329
75°	5695
80°	5097
85°	5059



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.1	7.6
10°-20°	453.1	21.2
20°-30°	627.8	29.4
30°-40°	377.1	17.7
40°-50°	206.4	9.7
50°-60°	146.6	6.9
60°-70°	95.2	4.5
70°-80°	50.9	2.4
80°-90°	15.2	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°	1243.0	58.2
0°-40°	1620.1	75.9
0°-60°	1973.1	92.4
0°-90°	2134.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2134.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1725	
5°	1714	162
15°	1610	453
25°	1400	628
35°	537	377
45°	266	206
55°	163	147
65°	96	95
75°	48	51
85°	14	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1725.3
2.5°	1722.1
5°	1714.1
7.5°	1695.0
10°	1666.3
12.5°	1639.1
15°	1610.5
17.5°	1573.8
20°	1529.1
22.5°	1474.9
25°	1400.0
27.5°	1282.0
30°	1103.4
32.5°	808.4
35°	537.4
37.5°	397.1
40°	336.4
42.5°	298.2
45°	266.3
47.5°	236.0
50°	208.9
52.5°	183.4
55°	162.6
57.5°	143.5
60°	125.9
62.5°	110.0
65°	95.7
67.5°	81.3
70°	70.2
72.5°	57.4
75°	47.8
77.5°	38.3
80°	28.7
82.5°	20.8
85°	14.3
87.5°	6.4
90°	0.0



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— 0°-180°







(END OF REPORT)