

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: P584189

Luminaire Tested: **HC825D010-HM82555930-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P584189  
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-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: 2123.0 lumens  
Efficiency: N/A  
Efficacy: 79.2 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

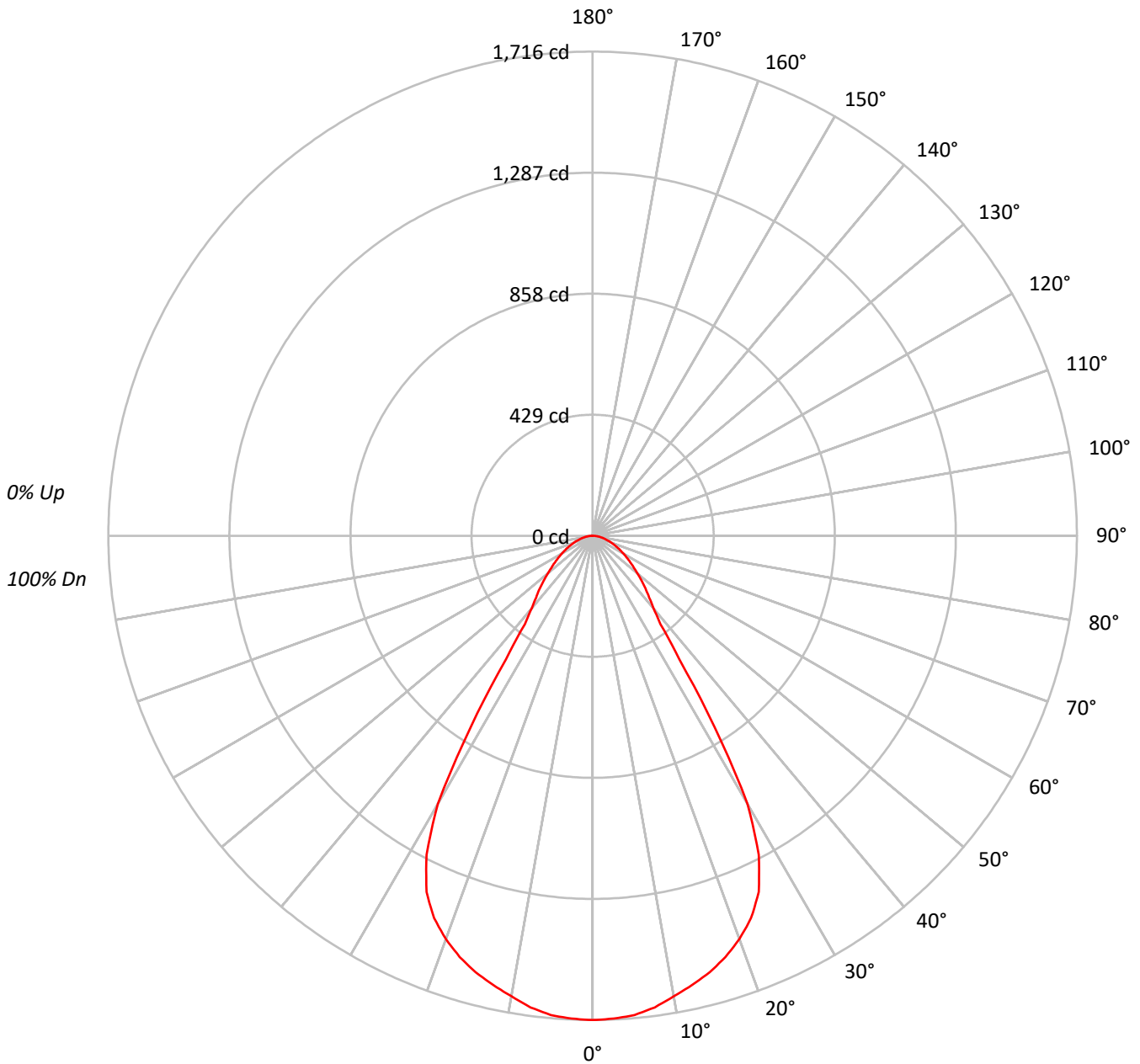
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	52918
5°	52774
10°	51893
15°	51136
20°	49912
25°	47379
30°	39078
35°	20121
40°	13469
45°	11548
50°	9969
55°	8699
60°	7728
65°	6939
70°	6293
75°	5671
80°	5079
85°	5024



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.2	7.6
10°-20°	450.7	21.2
20°-30°	624.4	29.4
30°-40°	375.1	17.7
40°-50°	205.3	9.7
50°-60°	145.9	6.9
60°-70°	94.7	4.5
70°-80°	50.6	2.4
80°-90°	15.1	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°	1236.3	58.2
0°-40°	1611.4	75.9
0°-60°	1962.6	92.4
0°-90°	2123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2123.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1716	
5°	1705	161
15°	1602	451
25°	1392	624
35°	534	375
45°	265	205
55°	162	146
65°	95	95
75°	48	51
85°	14	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1716.1
2.5°	1712.9
5°	1704.9
7.5°	1685.9
10°	1657.3
12.5°	1630.4
15°	1601.8
17.5°	1565.4
20°	1521.0
22.5°	1467.1
25°	1392.5
27.5°	1275.1
30°	1097.5
32.5°	804.1
35°	534.5
37.5°	394.9
40°	334.6
42.5°	296.6
45°	264.8
47.5°	234.8
50°	207.8
52.5°	182.4
55°	161.8
57.5°	142.7
60°	125.3
62.5°	109.5
65°	95.1
67.5°	80.9
70°	69.8
72.5°	57.1
75°	47.6
77.5°	38.1
80°	28.6
82.5°	20.7
85°	14.2
87.5°	6.3
90°	0.0



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— 0°-180°







(END OF REPORT)