

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: P593627

Luminaire Tested: **HC825D010-HM82555850-81NDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593627  
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-HM82555850-81NDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2478.9 lumens  
Efficiency: N/A  
Efficacy: 92.5 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

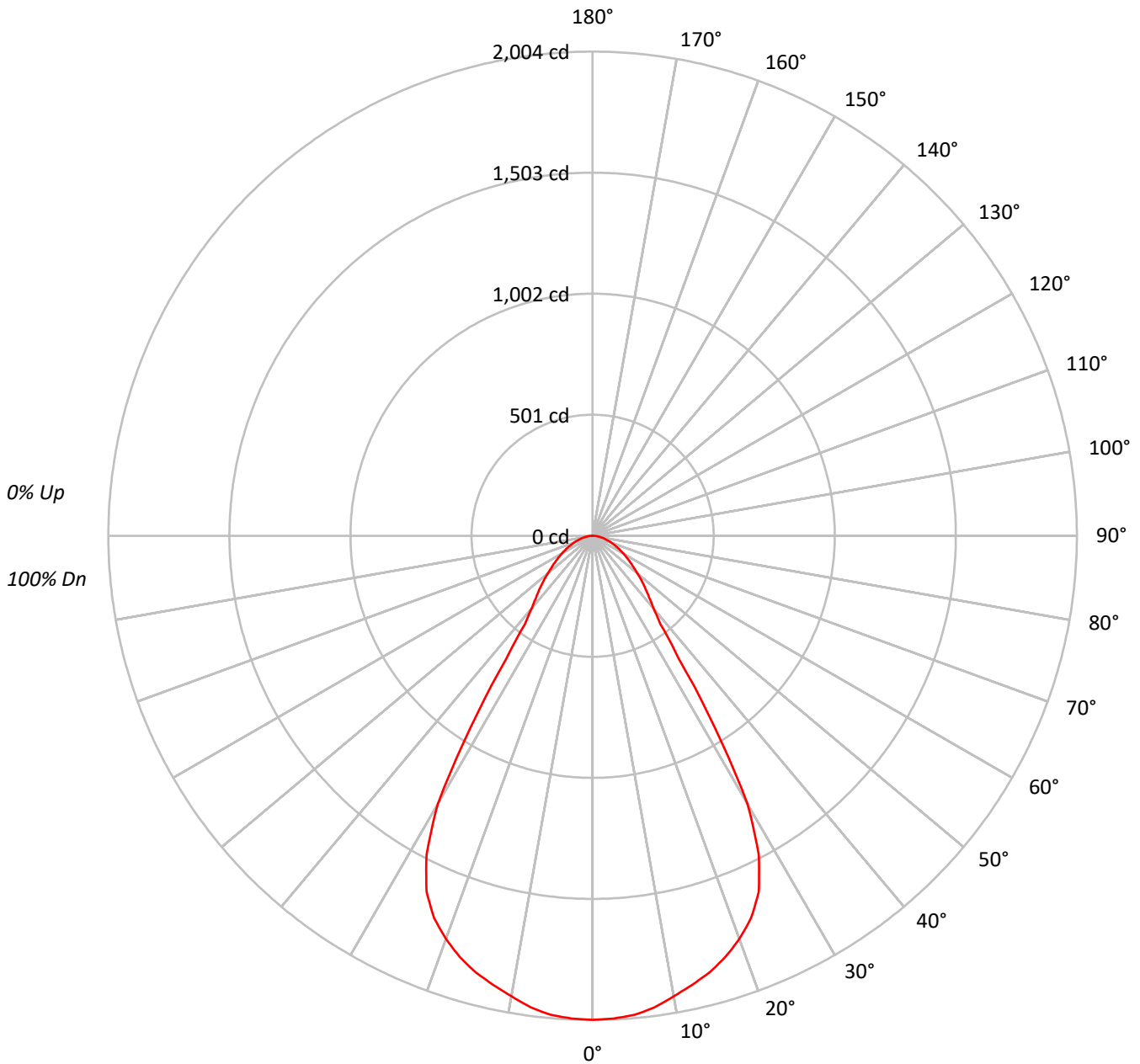
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	61787
5°	61620
10°	60595
15°	59711
20°	58277
25°	55323
30°	45626
35°	23490
40°	15731
45°	13484
50°	11638
55°	10156
60°	9023
65°	8106
70°	7348
75°	6612
80°	5931
85°	5909



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.2	7.6
10°-20°	526.2	21.2
20°-30°	729.1	29.4
30°-40°	437.9	17.7
40°-50°	239.7	9.7
50°-60°	170.3	6.9
60°-70°	110.6	4.5
70°-80°	59.1	2.4
80°-90°	17.7	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°	1443.6	58.2
0°-40°	1881.5	75.9
0°-60°	2291.5	92.4
0°-90°	2478.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2478.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2004	
5°	1991	188
15°	1870	526
25°	1626	729
35°	624	438
45°	309	240
55°	189	170
65°	111	111
75°	56	59
85°	17	18
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2003.7
2.5°	2000.0
5°	1990.7
7.5°	1968.5
10°	1935.2
12.5°	1903.7
15°	1870.4
17.5°	1827.8
20°	1775.9
22.5°	1713.0
25°	1626.0
27.5°	1488.9
30°	1281.4
32.5°	938.9
35°	624.0
37.5°	461.1
40°	390.8
42.5°	346.3
45°	309.2
47.5°	274.0
50°	242.6
52.5°	212.9
55°	188.9
57.5°	166.7
60°	146.3
62.5°	127.8
65°	111.1
67.5°	94.5
70°	81.5
72.5°	66.7
75°	55.5
77.5°	44.4
80°	33.4
82.5°	24.1
85°	16.7
87.5°	7.4
90°	0.0



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— 0°-180°







(END OF REPORT)