

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: P593643

Luminaire Tested: **HC825D010-HM82555950-81MDW**

Issue Date: 10/21/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593643  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 10/21/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC825D010-HM82555950-81MDW  
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2609.4 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1 / 0.95  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

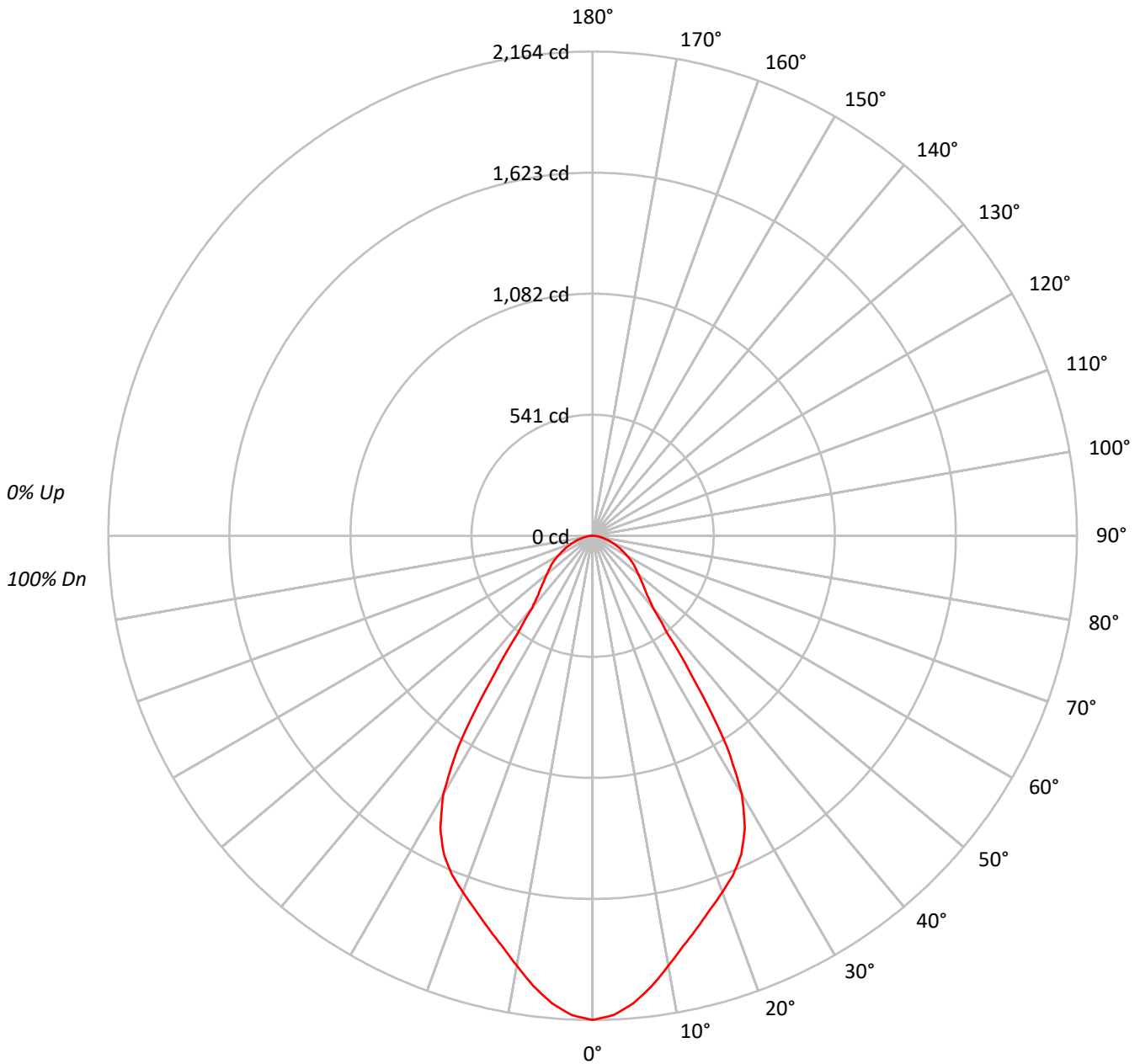
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	66724
5°	64908
10°	61077
15°	57827
20°	55625
25°	53476
30°	47496
35°	30247
40°	16878
45°	14138
50°	12766
55°	12026
60°	10972
65°	9901
70°	8736
75°	7768
80°	6872
85°	6262



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.5	7.5
10°-20°	510.9	19.6
20°-30°	712.7	27.3
30°-40°	512.8	19.7
40°-50°	254.1	9.7
50°-60°	198.8	7.6
60°-70°	134.6	5.2
70°-80°	69.9	2.7
80°-90°	20.1	0.8
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°	1419.0	54.4
0°-40°	1931.8	74.0
0°-60°	2384.7	91.4
0°-90°	2609.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2609.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2164	
5°	2097	195
15°	1811	511
25°	1572	713
35°	804	513
45°	324	254
55°	224	199
65°	136	135
75°	65	70
85°	18	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2163.8
2.5°	2144.4
5°	2096.9
7.5°	2029.9
10°	1950.6
12.5°	1876.6
15°	1811.4
17.5°	1749.8
20°	1695.1
22.5°	1640.5
25°	1571.7
27.5°	1473.1
30°	1333.9
32.5°	1115.4
35°	803.5
37.5°	547.9
40°	419.3
42.5°	361.2
45°	324.2
47.5°	292.5
50°	266.1
52.5°	243.2
55°	223.7
57.5°	200.8
60°	177.9
62.5°	155.0
65°	135.7
67.5°	116.3
70°	96.9
72.5°	81.1
75°	65.2
77.5°	51.1
80°	38.7
82.5°	28.1
85°	17.7
87.5°	8.8
90°	0.0



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— 0°-180°







(END OF REPORT)