

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: P584223

Luminaire Tested: **HC825D010-HM82555940-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584223
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-HM82555940-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2359.3 lumens
Efficiency: N/A
Efficacy: 88.0 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

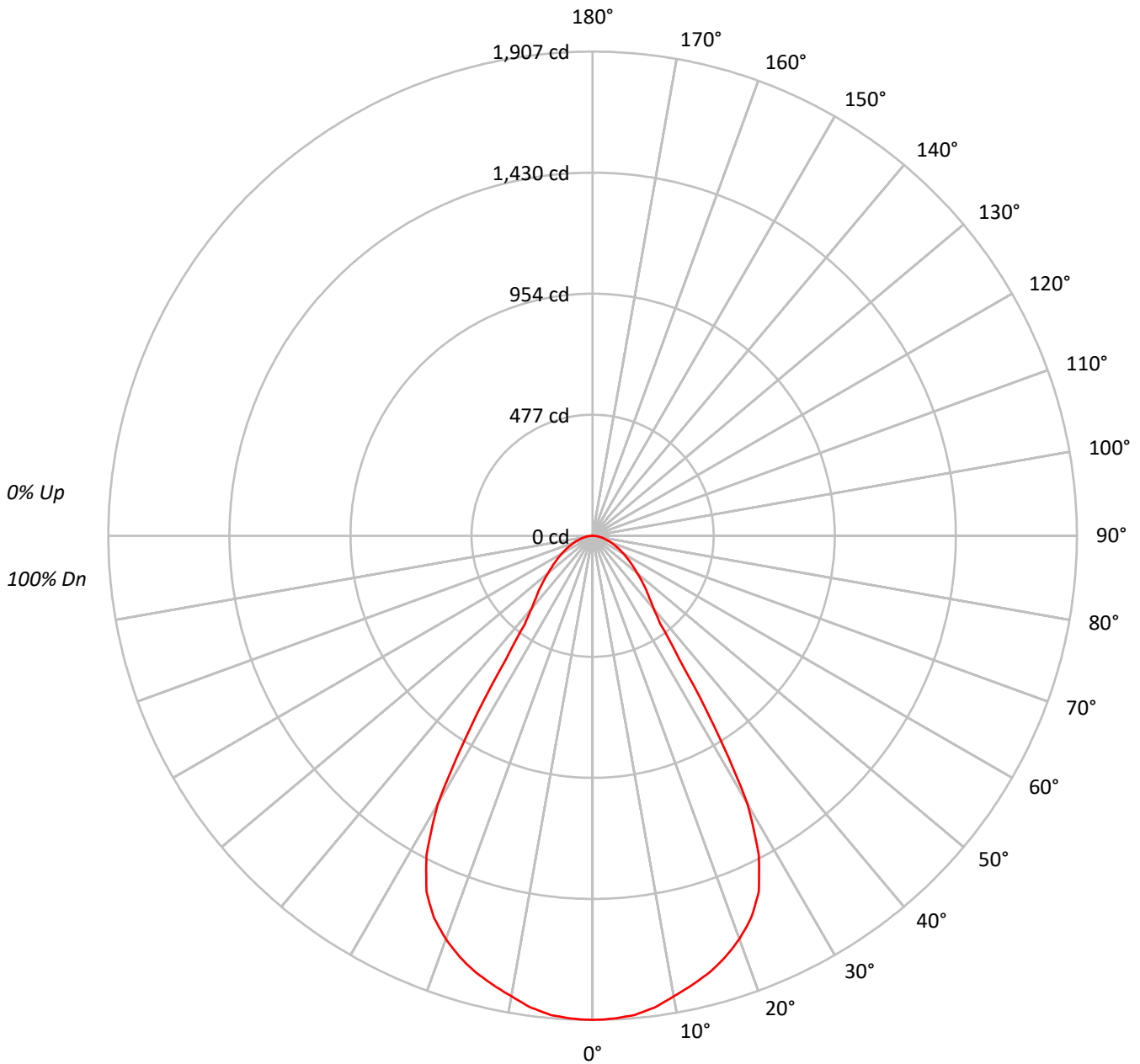
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	58808
5°	58646
10°	57670
15°	56831
20°	55468
25°	52649
30°	43430
35°	22361
40°	14970
45°	12839
50°	11077
55°	9666
60°	8585
65°	7712
70°	6996
75°	6303
80°	5629
85°	5590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	7.6
10°-20°	500.8	21.2
20°-30°	693.9	29.4
30°-40°	416.8	17.7
40°-50°	228.2	9.7
50°-60°	162.1	6.9
60°-70°	105.2	4.5
70°-80°	56.3	2.4
80°-90°	16.8	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°	1373.9	58.2
0°-40°	1790.8	75.9
0°-60°	2181.1	92.4
0°-90°	2359.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2359.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1907	
5°	1895	179
15°	1780	501
25°	1547	694
35°	594	417
45°	294	228
55°	180	162
65°	106	105
75°	53	56
85°	16	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1907.1
2.5°	1903.5
5°	1894.6
7.5°	1873.6
10°	1841.8
12.5°	1811.8
15°	1780.2
17.5°	1739.6
20°	1690.3
22.5°	1630.4
25°	1547.4
27.5°	1417.1
30°	1219.7
32.5°	893.6
35°	594.0
37.5°	438.9
40°	371.9
42.5°	329.6
45°	294.4
47.5°	260.9
50°	230.9
52.5°	202.7
55°	179.8
57.5°	158.6
60°	139.2
62.5°	121.7
65°	105.7
67.5°	89.9
70°	77.6
72.5°	63.5
75°	52.9
77.5°	42.3
80°	31.7
82.5°	22.9
85°	15.8
87.5°	7.1
90°	0.0



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— 0°-180°







(END OF REPORT)