

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: P584207

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584207
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555935-81PSMDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2370.3 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.97
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

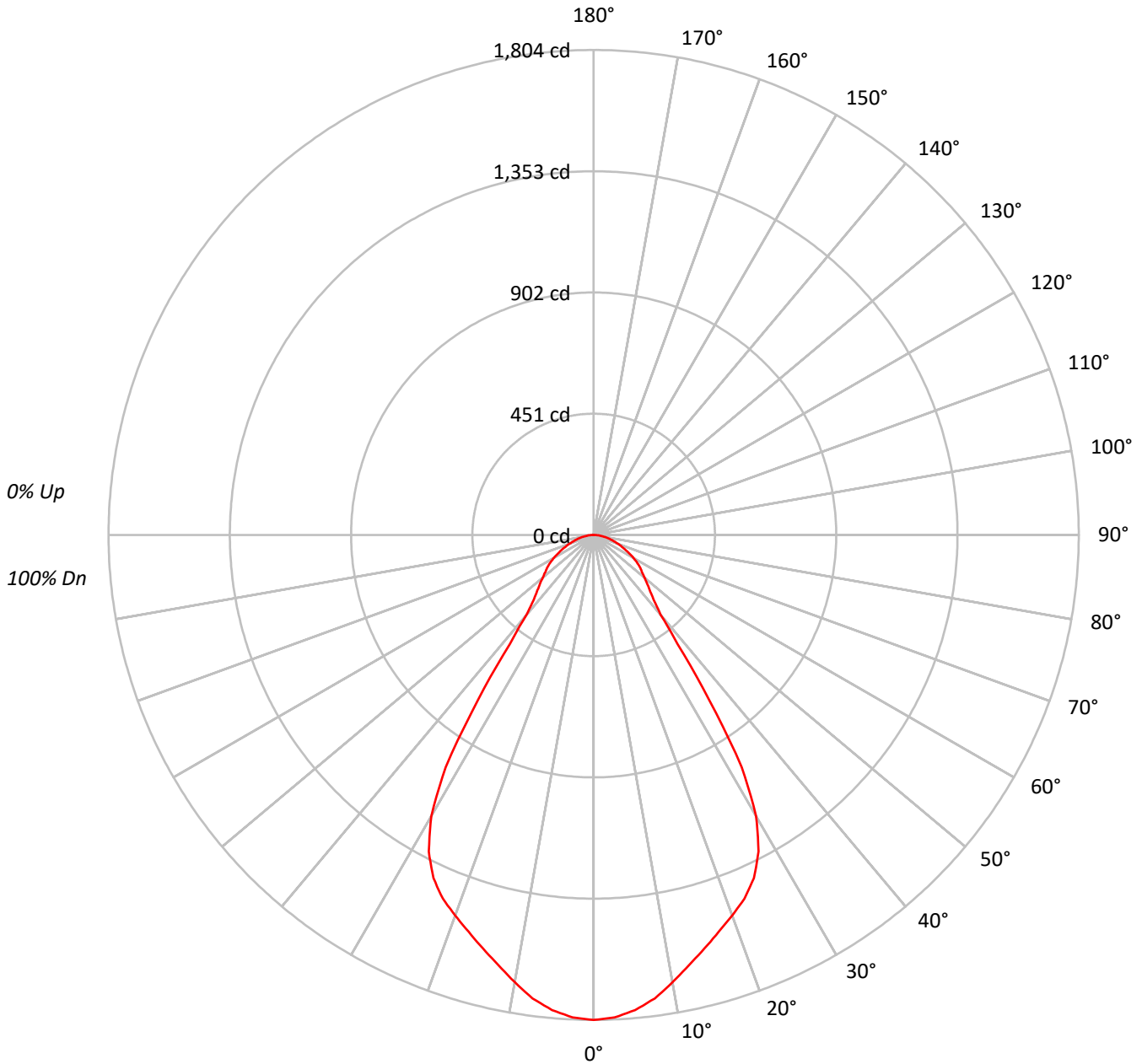
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79			
3	97	89	83	77	95	87	82	77	85	80	76	82	78	74	80	76	73	71			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64			
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	62	57	78	68	61	56	67	61	56	65	60	56	64	59	55	53			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	55638
5°	54916
10°	52902
15°	50836
20°	49426
25°	47940
30°	43016
35°	28199
40°	15590
45°	13000
50°	11854
55°	11311
60°	10521
65°	9544
70°	8628
75°	7792
80°	7068
85°	6793



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	7.0
10°-20°	449.2	19.0
20°-30°	639.3	27.0
30°-40°	473.2	20.0
40°-50°	234.4	9.9
50°-60°	187.1	7.9
60°-70°	129.9	5.5
70°-80°	70.0	3.0
80°-90°	20.6	0.9
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°	1255.3	53.0
0°-40°	1728.4	72.9
0°-60°	2149.8	90.7
0°-90°	2370.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2370.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1804	
5°	1774	167
15°	1592	449
25°	1409	639
35°	749	473
45°	298	234
55°	210	187
65°	131	130
75°	65	70
85°	19	21
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1804.3
2.5°	1796.3
5°	1774.1
7.5°	1739.0
10°	1689.5
12.5°	1638.5
15°	1592.4
17.5°	1547.6
20°	1506.2
22.5°	1464.8
25°	1409.0
27.5°	1327.8
30°	1208.1
32.5°	1024.8
35°	749.1
37.5°	511.7
40°	387.3
42.5°	331.5
45°	298.1
47.5°	270.9
50°	247.1
52.5°	226.3
55°	210.4
57.5°	191.3
60°	170.6
62.5°	149.8
65°	130.8
67.5°	111.6
70°	95.7
72.5°	79.7
75°	65.4
77.5°	52.6
80°	39.8
82.5°	28.7
85°	19.2
87.5°	7.9
90°	0.0



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— 0°-180°







(END OF REPORT)