

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: P584125

Luminaire Tested: **HC825D010-HM82555830-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584125
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555830-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2415.5 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

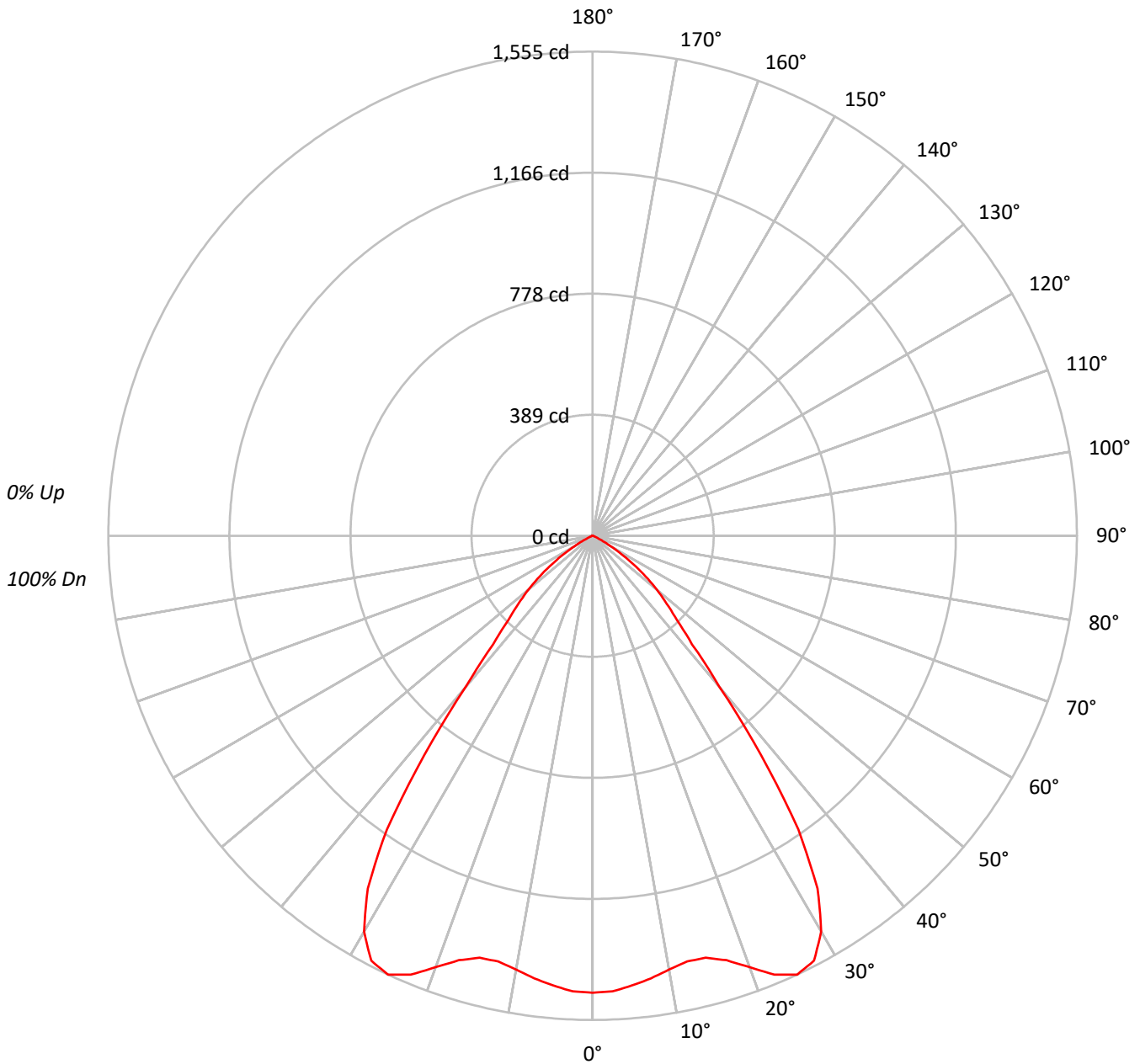
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	95	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68		
5	87	77	71	66	85	76	70	65	74	69	65	73	68	64	71	67	63	62		
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56		
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51		
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47		
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	45	42	50	45	41	40		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	45258
5°	44883
10°	44288
15°	44796
20°	48373
25°	52901
30°	52260
35°	43347
40°	25517
45°	16667
50°	12919
55°	8580
60°	4175
65°	1299
70°	433
75°	381
80°	284
85°	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	5.7
10°-20°	403.1	16.7
20°-30°	704.8	29.2
30°-40°	685.6	28.4
40°-50°	311.8	12.9
50°-60°	144.5	6.0
60°-70°	24.2	1.0
70°-80°	2.9	0.1
80°-90°	1.1	0.0
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°	1245.3	51.6
0°-40°	1930.9	79.9
0°-60°	2387.2	98.8
0°-90°	2415.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2415.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1468	
5°	1450	137
15°	1403	403
25°	1555	705
35°	1152	686
45°	382	312
55°	160	145
65°	18	24
75°	3	3
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1467.7
2.5°	1464.5
5°	1450.0
7.5°	1433.8
10°	1414.4
12.5°	1400.0
15°	1403.2
17.5°	1429.0
20°	1474.1
22.5°	1525.8
25°	1554.8
27.5°	1538.7
30°	1467.7
32.5°	1343.5
35°	1151.5
37.5°	887.0
40°	633.9
42.5°	472.6
45°	382.2
47.5°	322.6
50°	269.3
52.5°	214.5
55°	159.6
57.5°	109.7
60°	67.7
62.5°	37.1
65°	17.8
67.5°	8.0
70°	4.8
72.5°	3.2
75°	3.2
77.5°	1.6
80°	1.6
82.5°	1.6
85°	1.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)