

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: P584112

Luminaire Tested: **HC825D010-HM82555827-81WDWB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555827-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2719.7 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

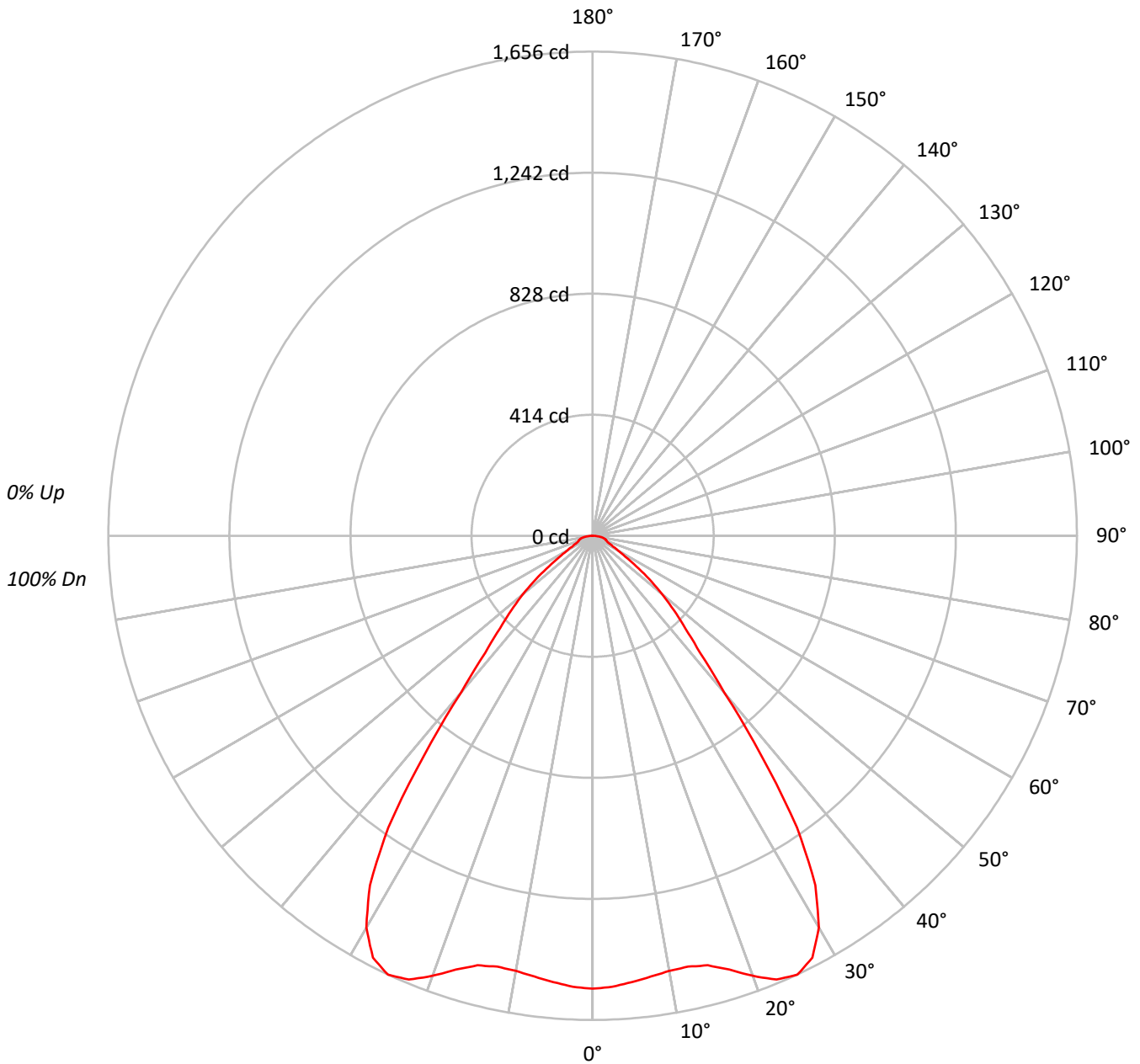
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90			
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	88	85	83	81			
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65			
5	86	75	68	63	84	74	68	63	73	67	62	71	66	62	69	65	61	59			
6	80	69	62	57	79	69	62	57	67	61	56	65	60	56	64	59	56	54			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	59	55	51	49			
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	47	45			
9	67	55	48	43	65	55	48	43	54	47	43	53	47	43	52	47	43	41			
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	47762
5°	47437
10°	47309
15°	48553
20°	52564
25°	56354
30°	55094
35°	45877
40°	28186
45°	19515
50°	14891
55°	9768
60°	6112
65°	4575
70°	4607
75°	5314
80°	5878
85°	5272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	5.4
10°-20°	436.6	16.1
20°-30°	751.6	27.6
30°-40°	728.2	26.8
40°-50°	358.6	13.2
50°-60°	169.3	6.2
60°-70°	66.7	2.5
70°-80°	46.0	1.7
80°-90°	17.1	0.6
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°	1333.8	49.0
0°-40°	2062.0	75.8
0°-60°	2589.9	95.2
0°-90°	2719.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2719.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1549	
5°	1532	146
15°	1521	437
25°	1656	752
35°	1219	728
45°	448	359
55°	182	169
65°	63	67
75°	45	46
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1548.9
2.5°	1544.0
5°	1532.5
7.5°	1520.9
10°	1510.9
12.5°	1509.3
15°	1520.9
17.5°	1555.6
20°	1601.8
22.5°	1643.1
25°	1656.3
27.5°	1626.6
30°	1547.3
32.5°	1416.9
35°	1218.7
37.5°	946.2
40°	700.2
42.5°	543.2
45°	447.5
47.5°	376.5
50°	310.4
52.5°	244.4
55°	181.7
57.5°	132.1
60°	99.1
62.5°	77.6
65°	62.7
67.5°	54.5
70°	51.1
72.5°	47.9
75°	44.6
77.5°	39.6
80°	33.1
82.5°	24.7
85°	14.9
87.5°	6.6
90°	0.0



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— 0°-180°







(END OF REPORT)