

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: P584143

Luminaire Tested: **HC825D010-HM82555835-81WDC**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555835-81WDC
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2871.6 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.05
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

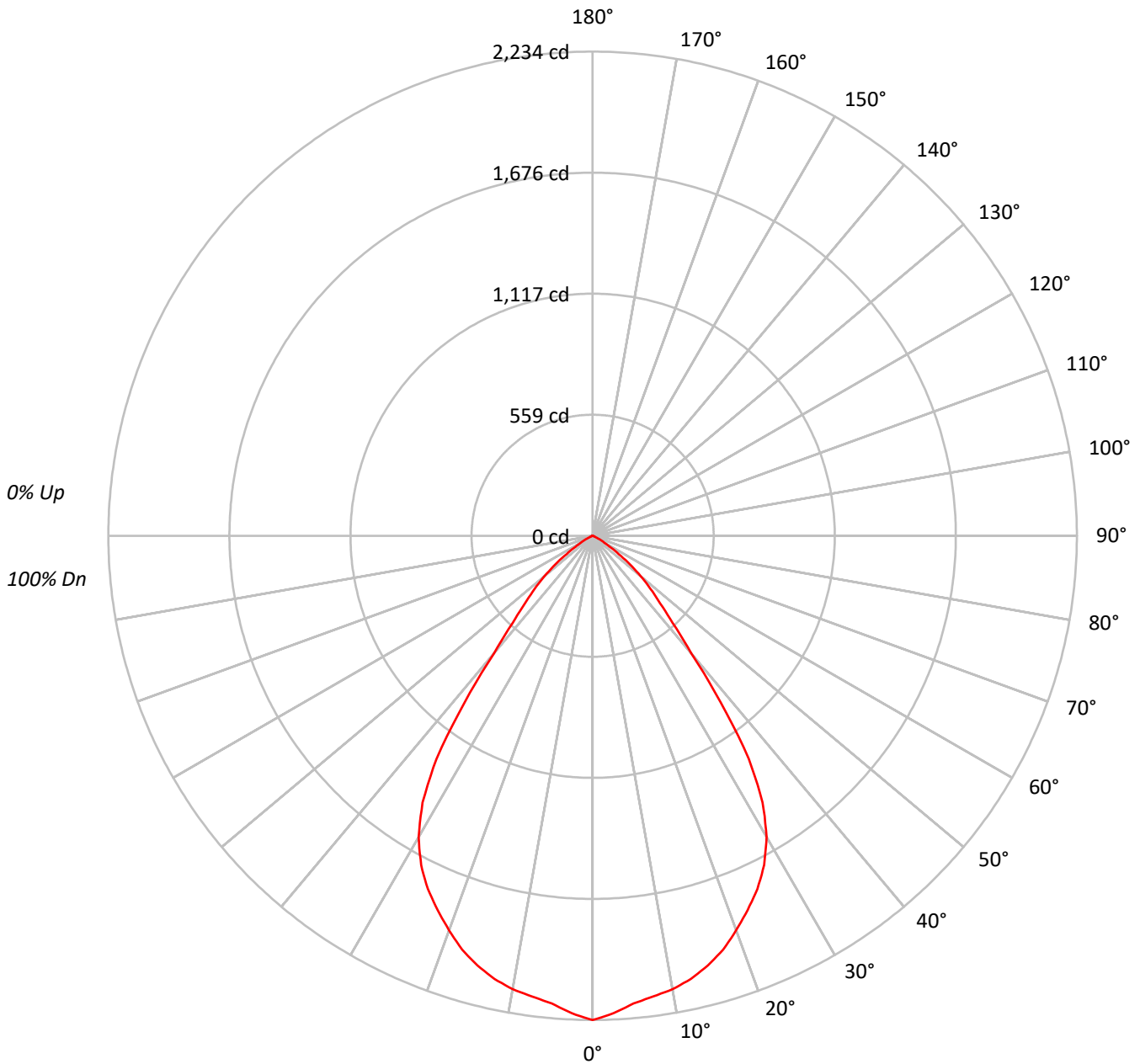
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77			
4	94	86	79	75	92	84	79	74	82	77	73	80	76	72	78	75	71	70			
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	59			
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	63	59	55	54			
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	68898
5°	67043
10°	66532
15°	65540
20°	63557
25°	61186
30°	57156
35°	47296
40°	28556
45°	19236
50°	13859
55°	7903
60°	3478
65°	1248
70°	460
75°	203
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	7.2
10°-20°	577.0	20.1
20°-30°	823.1	28.7
30°-40°	749.5	26.1
40°-50°	353.6	12.3
50°-60°	139.0	4.8
60°-70°	22.2	0.8
70°-80°	1.6	0.1
80°-90°	0.0	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°	1605.8	55.9
0°-40°	2355.3	82.0
0°-60°	2847.9	99.2
0°-90°	2871.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2871.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2234	
5°	2166	206
15°	2053	577
25°	1798	823
35°	1256	749
45°	441	354
55°	147	139
65°	17	22
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2234.3
2.5°	2205.2
5°	2165.9
7.5°	2143.6
10°	2124.8
12.5°	2094.1
15°	2053.0
17.5°	2001.8
20°	1936.8
22.5°	1868.4
25°	1798.3
27.5°	1712.9
30°	1605.2
32.5°	1459.9
35°	1256.4
37.5°	970.9
40°	709.4
42.5°	545.3
45°	441.1
47.5°	362.4
50°	288.9
52.5°	217.1
55°	147.0
57.5°	92.3
60°	56.4
62.5°	34.2
65°	17.1
67.5°	8.6
70°	5.1
72.5°	1.7
75°	1.7
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)