

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: P584129

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584129
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-HM82555830-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2655.8 lumens
Efficiency: N/A
Efficacy: 99.1 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

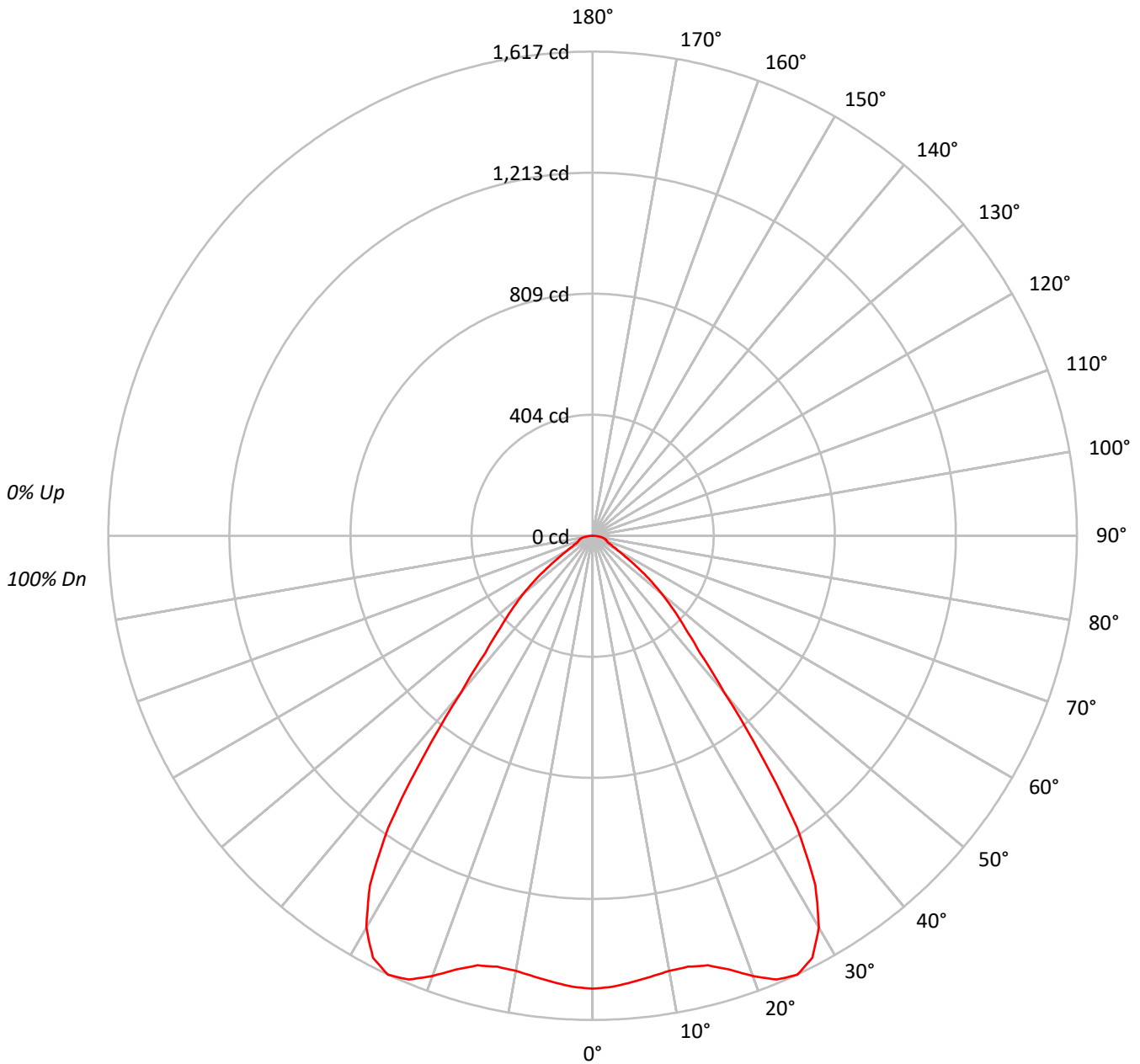
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	46643
5°	46323
10°	46201
15°	47414
20°	51330
25°	55031
30°	53798
35°	44800
40°	27522
45°	19057
50°	14541
55°	9537
60°	5964
65°	4473
70°	4508
75°	5183
80°	5718
85°	5166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.2	5.4
10°-20°	426.3	16.1
20°-30°	734.0	27.6
30°-40°	711.1	26.8
40°-50°	350.2	13.2
50°-60°	165.3	6.2
60°-70°	65.1	2.5
70°-80°	44.9	1.7
80°-90°	16.7	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°	1302.5	49.0
0°-40°	2013.6	75.8
0°-60°	2529.0	95.2
0°-90°	2655.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2655.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1513	
5°	1496	142
15°	1485	426
25°	1617	734
35°	1190	711
45°	437	350
55°	177	165
65°	61	65
75°	44	45
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1512.6
2.5°	1507.7
5°	1496.5
7.5°	1485.2
10°	1475.5
12.5°	1473.9
15°	1485.2
17.5°	1519.1
20°	1564.2
22.5°	1604.5
25°	1617.4
27.5°	1588.4
30°	1510.9
32.5°	1383.6
35°	1190.1
37.5°	923.9
40°	683.7
42.5°	530.5
45°	437.0
47.5°	367.7
50°	303.1
52.5°	238.6
55°	177.4
57.5°	129.0
60°	96.7
62.5°	75.8
65°	61.3
67.5°	53.2
70°	50.0
72.5°	46.8
75°	43.5
77.5°	38.7
80°	32.2
82.5°	24.2
85°	14.6
87.5°	6.4
90°	0.0



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— 0°-180°







(END OF REPORT)