

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: P584146

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584146
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-HM82555835-81WDWB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2815.2 lumens
Efficiency: N/A
Efficacy: 105.0 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

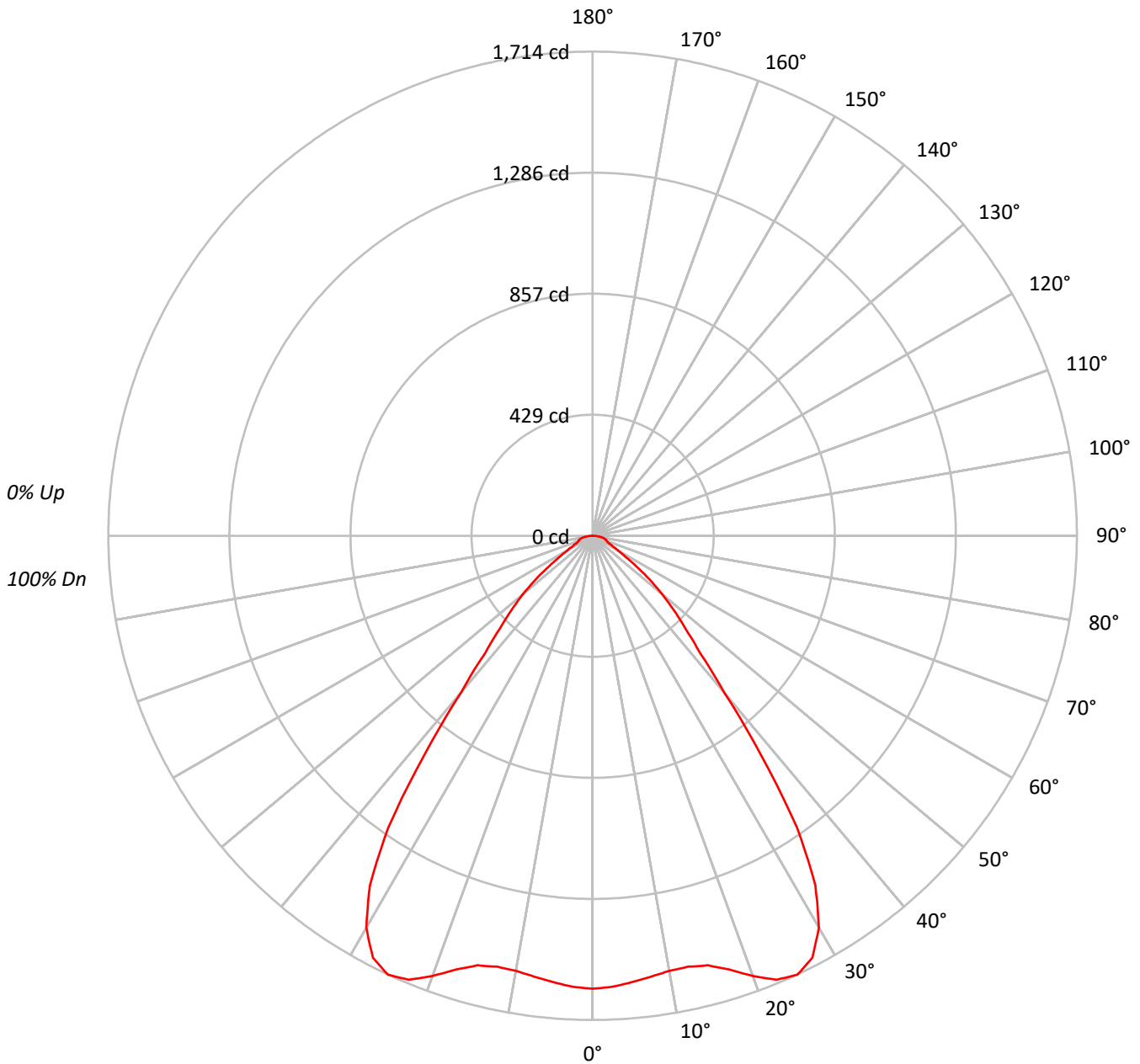
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	49443
5°	49102
10°	48972
15°	50258
20°	54411
25°	58334
30°	57031
35°	47488
40°	29172
45°	20200
50°	15414
55°	10107
60°	6328
65°	4735
70°	4778
75°	5492
80°	6073
85°	5449



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	5.4
10°-20°	451.9	16.1
20°-30°	778.0	27.6
30°-40°	753.8	26.8
40°-50°	371.2	13.2
50°-60°	175.2	6.2
60°-70°	69.0	2.5
70°-80°	47.6	1.7
80°-90°	17.7	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°	1380.7	49.0
0°-40°	2134.4	75.8
0°-60°	2680.8	95.2
0°-90°	2815.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1603	
5°	1586	151
15°	1574	452
25°	1714	778
35°	1262	754
45°	463	371
55°	188	175
65°	65	69
75°	46	48
85°	15	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1603.4
2.5°	1598.3
5°	1586.3
7.5°	1574.3
10°	1564.0
12.5°	1562.3
15°	1574.3
17.5°	1610.2
20°	1658.1
22.5°	1700.8
25°	1714.5
27.5°	1683.8
30°	1601.7
32.5°	1466.6
35°	1261.5
37.5°	979.5
40°	724.7
42.5°	562.4
45°	463.2
47.5°	389.7
50°	321.3
52.5°	252.9
55°	188.0
57.5°	136.7
60°	102.6
62.5°	80.4
65°	64.9
67.5°	56.4
70°	53.0
72.5°	49.5
75°	46.1
77.5°	41.0
80°	34.2
82.5°	25.7
85°	15.4
87.5°	6.8
90°	0.0



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— 0°-180°







(END OF REPORT)