

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: P584179

Luminaire Tested: **HC825D010-HM82555927-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC825D010-HM82555927-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2045.1 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

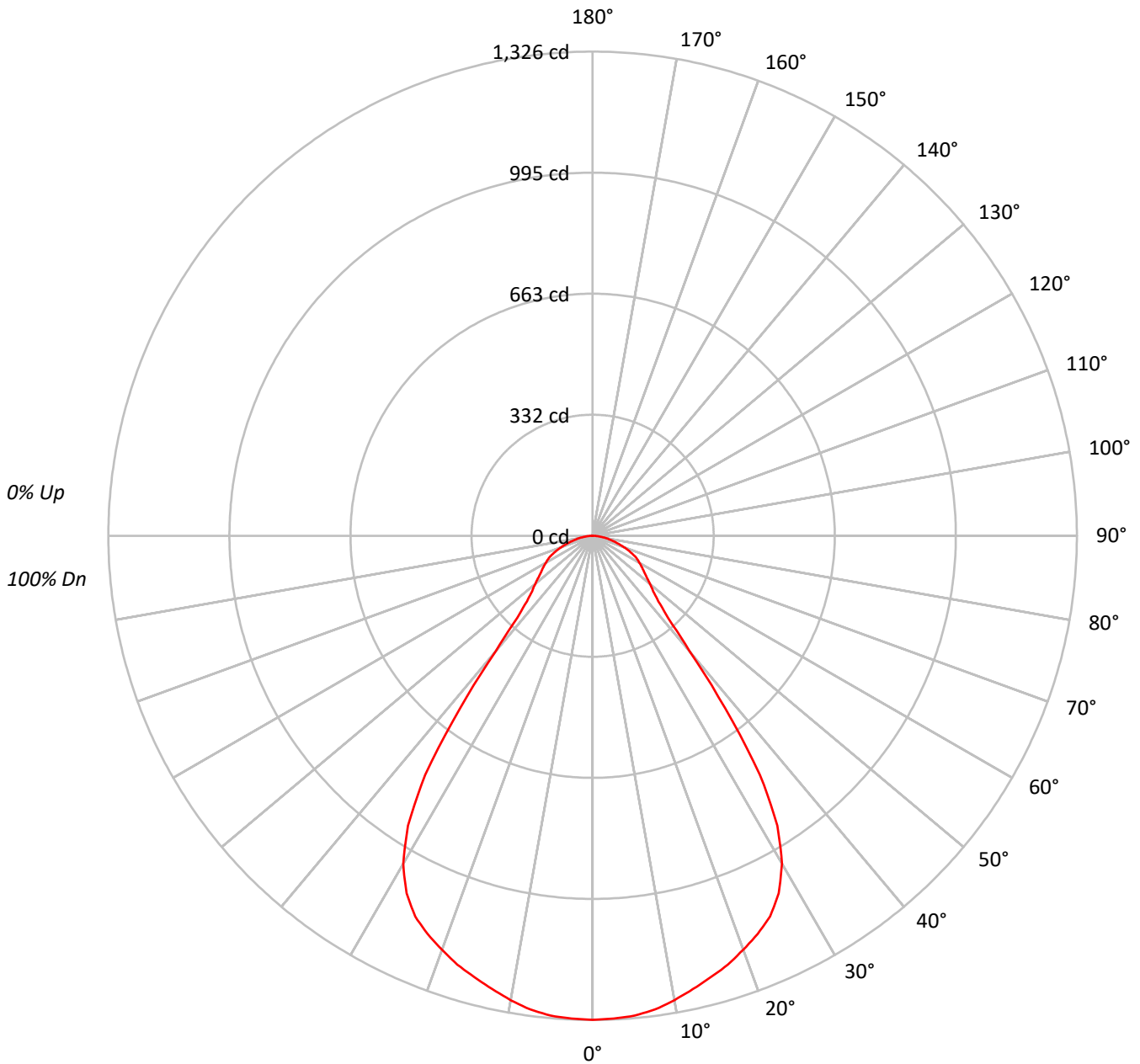
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40883
5°	40835
10°	40433
15°	39950
20°	39579
25°	39131
30°	36924
35°	30070
40°	16613
45°	11085
50°	9834
55°	9231
60°	9115
65°	9033
70°	8159
75°	7292
80°	6393
85°	5626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	6.1
10°-20°	353.3	17.3
20°-30°	525.0	25.7
30°-40°	472.8	23.1
40°-50°	209.6	10.2
50°-60°	155.2	7.6
60°-70°	120.7	5.9
70°-80°	65.4	3.2
80°-90°	17.9	0.9
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°	1003.4	49.1
0°-40°	1476.2	72.2
0°-60°	1841.0	90.0
0°-90°	2045.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2045.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1326	
5°	1319	125
15°	1251	353
25°	1150	525
35°	799	473
45°	254	210
55°	172	155
65°	124	121
75°	61	65
85°	16	18
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1325.8
2.5°	1323.3
5°	1319.2
7.5°	1308.6
10°	1291.3
12.5°	1271.3
15°	1251.4
17.5°	1231.4
20°	1206.1
22.5°	1180.7
25°	1150.1
27.5°	1103.6
30°	1037.0
32.5°	941.2
35°	798.8
37.5°	596.4
40°	412.7
42.5°	304.8
45°	254.2
47.5°	225.0
50°	205.0
52.5°	186.4
55°	171.7
57.5°	159.8
60°	147.8
62.5°	137.1
65°	123.8
67.5°	107.9
70°	90.5
72.5°	75.9
75°	61.2
77.5°	47.9
80°	36.0
82.5°	25.3
85°	15.9
87.5°	6.6
90°	0.0



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— 0°-180°







(END OF REPORT)