

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: P584162

Luminaire Tested: **HC825D010-HM82555840-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584162
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-HM82555840-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2843.6 lumens
Efficiency: N/A
Efficacy: 106.1 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

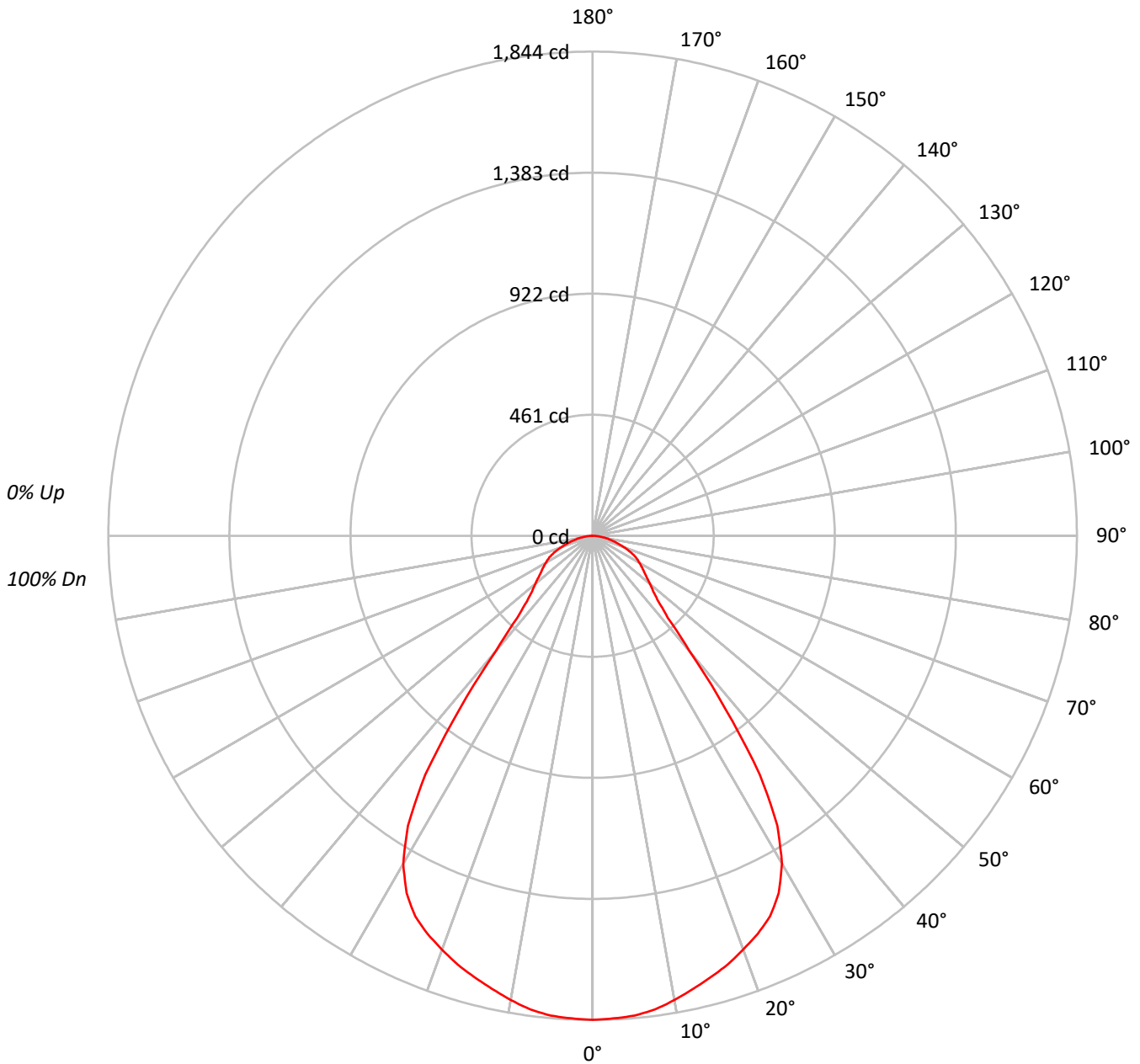
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	56850
5°	56779
10°	56221
15°	55545
20°	55031
25°	54411
30°	51341
35°	41808
40°	23098
45°	15416
50°	13672
55°	12838
60°	12668
65°	12565
70°	11342
75°	10151
80°	8879
85°	7890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	6.1
10°-20°	491.3	17.3
20°-30°	730.0	25.7
30°-40°	657.4	23.1
40°-50°	291.4	10.2
50°-60°	215.8	7.6
60°-70°	167.8	5.9
70°-80°	91.0	3.2
80°-90°	24.9	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°	1395.1	49.1
0°-40°	2052.5	72.2
0°-60°	2559.8	90.0
0°-90°	2843.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2843.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1844	
5°	1834	174
15°	1740	491
25°	1599	730
35°	1111	657
45°	354	291
55°	239	216
65°	172	168
75°	85	91
85°	22	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1843.6
2.5°	1839.9
5°	1834.3
7.5°	1819.5
10°	1795.5
12.5°	1767.6
15°	1739.9
17.5°	1712.1
20°	1677.0
22.5°	1641.8
25°	1599.2
27.5°	1534.5
30°	1441.9
32.5°	1308.6
35°	1110.6
37.5°	829.2
40°	573.8
42.5°	423.8
45°	353.5
47.5°	312.8
50°	285.0
52.5°	259.2
55°	238.8
57.5°	222.1
60°	205.4
62.5°	190.7
65°	172.2
67.5°	149.9
70°	125.8
72.5°	105.5
75°	85.2
77.5°	66.7
80°	50.0
82.5°	35.2
85°	22.3
87.5°	9.2
90°	0.0



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— 0°-180°







(END OF REPORT)