

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: P584298

Luminaire Tested: **HC830D010-HM82555840-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584298
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: HC830D010-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: 3826.0 lumens
Efficiency: N/A
Efficacy: 136.6 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

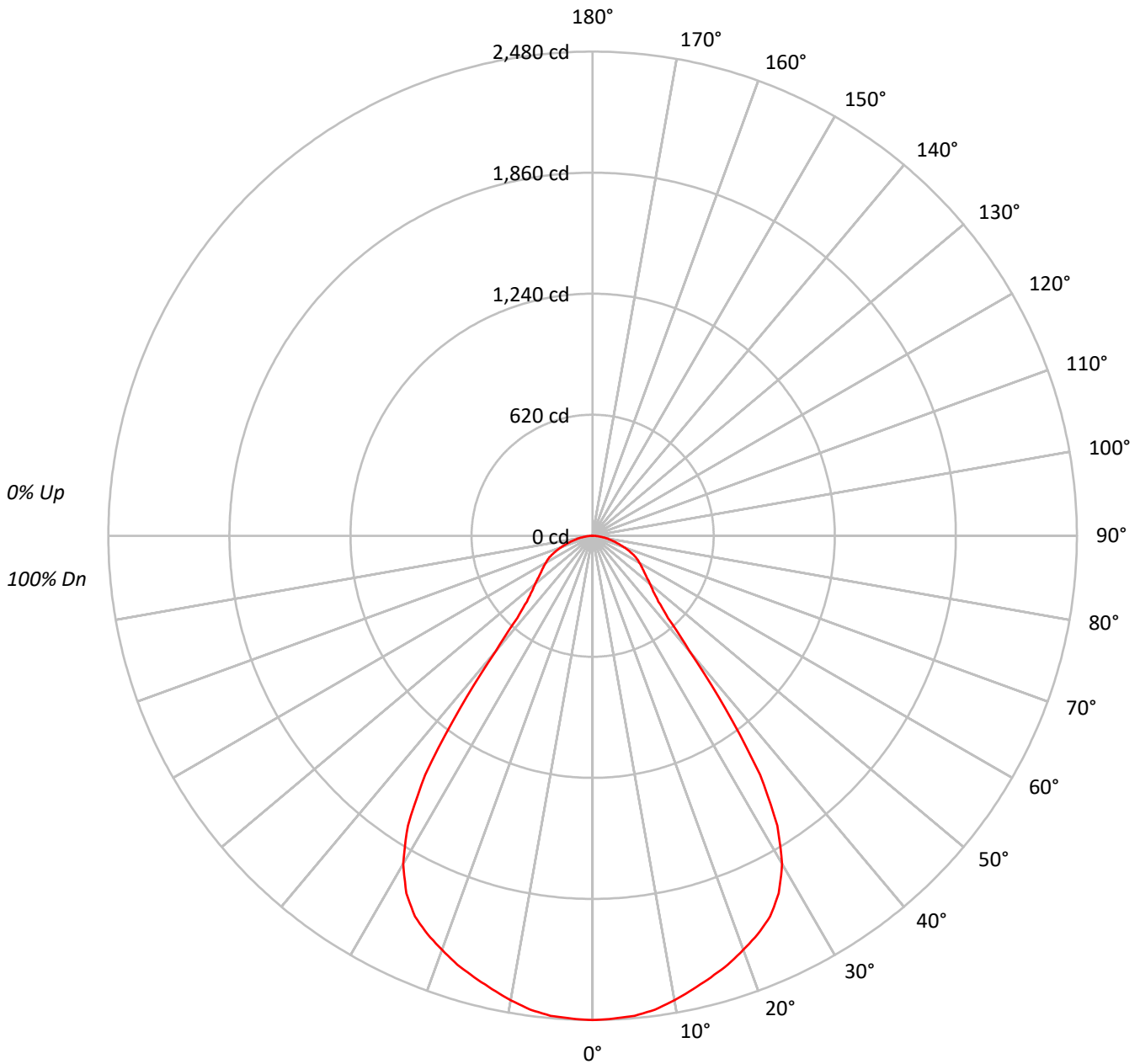
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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°	76489
5°	76395
10°	75644
15°	74734
20°	74044
25°	73210
30°	69081
35°	56252
40°	31076
45°	20745
50°	18402
55°	17274
60°	17046
65°	16899
70°	15264
75°	13654
80°	11951
85°	10543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	6.1
10°-20°	661.0	17.3
20°-30°	982.2	25.7
30°-40°	884.5	23.1
40°-50°	392.2	10.2
50°-60°	290.4	7.6
60°-70°	225.8	5.9
70°-80°	122.5	3.2
80°-90°	33.5	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°	1877.1	49.1
0°-40°	2761.7	72.2
0°-60°	3444.2	90.0
0°-90°	3826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3826.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2480	
5°	2468	234
15°	2341	661
25°	2152	982
35°	1494	885
45°	476	392
55°	321	290
65°	232	226
75°	115	122
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2480.5
2.5°	2475.5
5°	2468.0
7.5°	2448.2
10°	2415.8
12.5°	2378.4
15°	2341.0
17.5°	2303.7
20°	2256.4
22.5°	2209.0
25°	2151.7
27.5°	2064.6
30°	1940.1
32.5°	1760.8
35°	1494.3
37.5°	1115.8
40°	772.0
42.5°	570.4
45°	475.7
47.5°	420.9
50°	383.6
52.5°	348.6
55°	321.3
57.5°	298.9
60°	276.4
62.5°	256.5
65°	231.6
67.5°	201.8
70°	169.3
72.5°	142.0
75°	114.6
77.5°	89.7
80°	67.3
82.5°	47.3
85°	29.8
87.5°	12.5
90°	0.0



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— 0°-180°







(END OF REPORT)