

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: P584859

Luminaire Tested: **HC850D010-HM82555927-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584859
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: HC850D010-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: 4296.1 lumens
Efficiency: N/A
Efficacy: 89.5 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

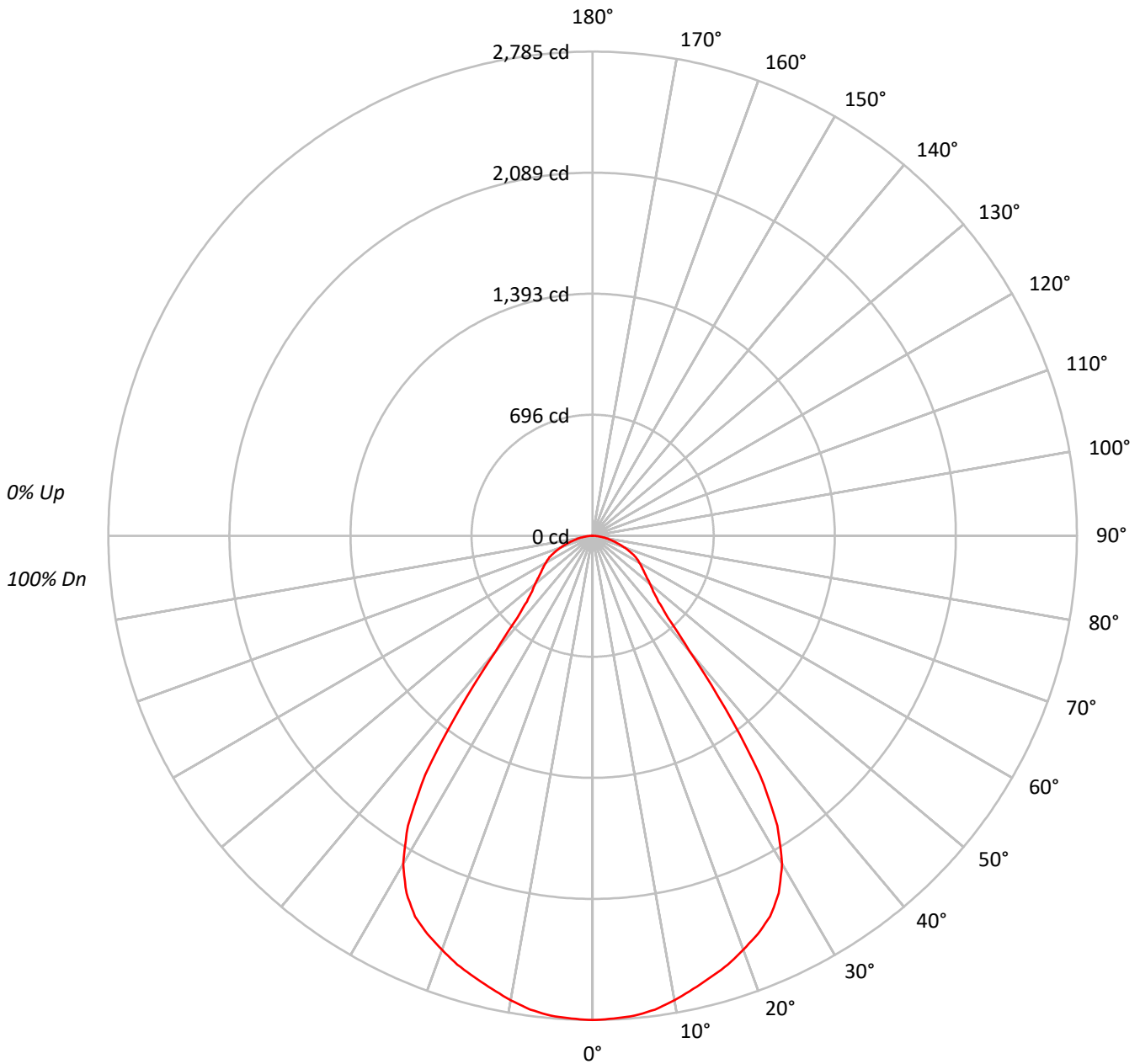
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	85888
5°	85780
10°	84934
15°	83916
20°	83141
25°	82206
30°	77566
35°	63163
40°	34896
45°	23292
50°	20662
55°	19397
60°	19143
65°	18978
70°	17148
75°	15322
80°	13407
85°	11888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.6	6.1
10°-20°	742.2	17.3
20°-30°	1102.8	25.7
30°-40°	993.2	23.1
40°-50°	440.3	10.2
50°-60°	326.1	7.6
60°-70°	253.6	5.9
70°-80°	137.5	3.2
80°-90°	37.7	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°	2107.7	49.1
0°-40°	3100.9	72.2
0°-60°	3867.3	90.0
0°-90°	4296.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4296.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2785	
5°	2771	263
15°	2629	742
25°	2416	1103
35°	1678	993
45°	534	440
55°	361	326
65°	260	254
75°	129	138
85°	34	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2785.3
2.5°	2779.6
5°	2771.2
7.5°	2748.9
10°	2712.5
12.5°	2670.6
15°	2628.6
17.5°	2586.6
20°	2533.6
22.5°	2480.4
25°	2416.1
27.5°	2318.2
30°	2178.4
32.5°	1977.0
35°	1677.9
37.5°	1252.8
40°	866.9
42.5°	640.4
45°	534.1
47.5°	472.6
50°	430.7
52.5°	391.5
55°	360.8
57.5°	335.6
60°	310.4
62.5°	288.0
65°	260.1
67.5°	226.6
70°	190.2
72.5°	159.5
75°	128.6
77.5°	100.7
80°	75.5
82.5°	53.2
85°	33.6
87.5°	14.0
90°	0.0



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— 0°-180°







(END OF REPORT)