

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: P584825

Luminaire Tested: **HC850D010-HM82555835-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584825
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-HM82555835-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5515.2 lumens
Efficiency: N/A
Efficacy: 114.9 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

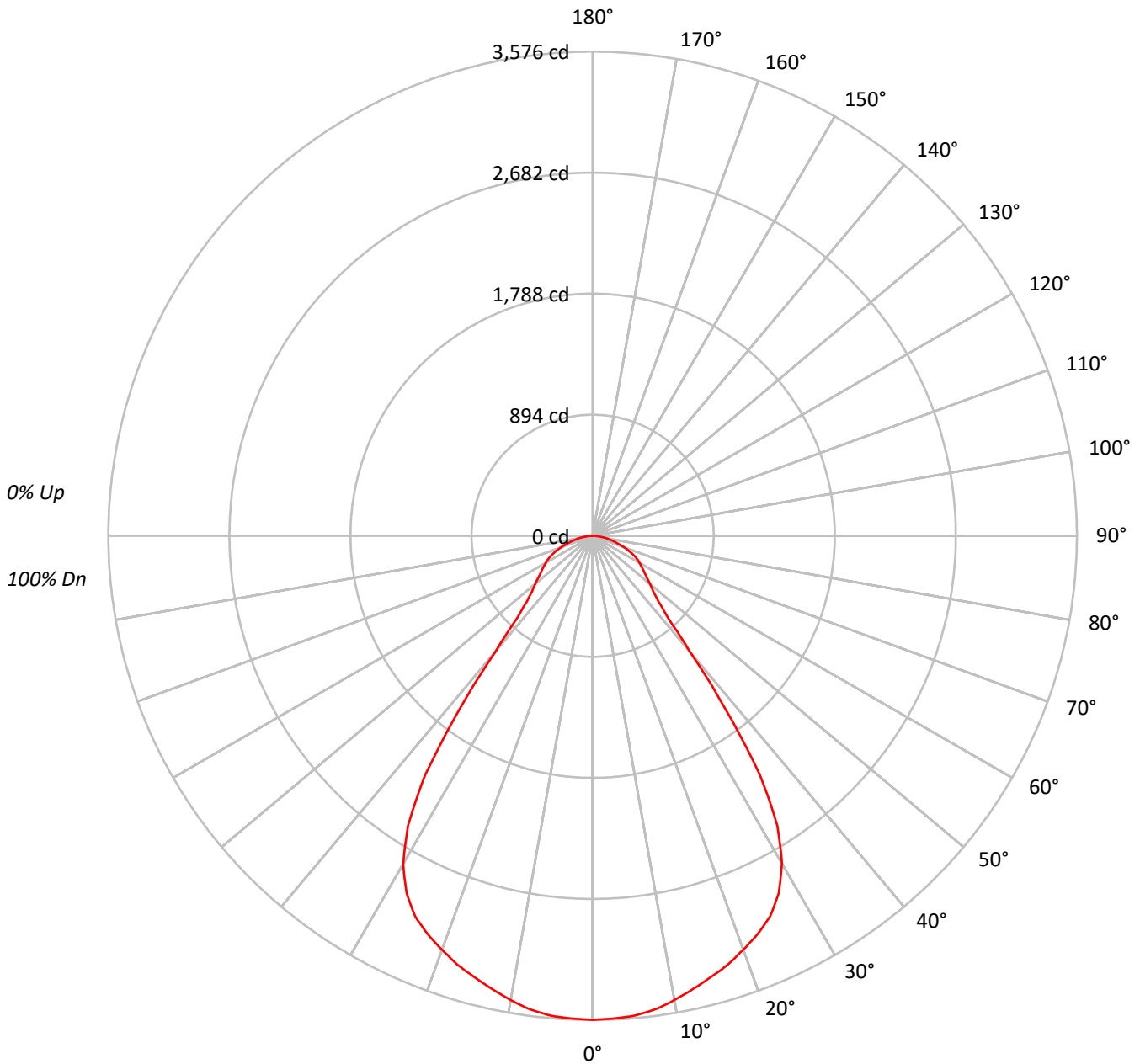
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	110261
5°	110125
10°	109038
15°	107734
20°	106735
25°	105536
30°	99578
35°	81086
40°	44799
45°	29903
50°	26519
55°	24902
60°	24577
65°	24363
70°	22008
75°	19682
80°	17207
85°	15249



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.2	6.1
10°-20°	952.9	17.3
20°-30°	1415.9	25.7
30°-40°	1275.0	23.1
40°-50°	565.3	10.2
50°-60°	418.6	7.6
60°-70°	325.5	5.9
70°-80°	176.5	3.2
80°-90°	48.4	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°	2705.9	49.1
0°-40°	3980.9	72.2
0°-60°	4964.8	90.0
0°-90°	5515.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5515.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3576	
5°	3558	337
15°	3375	953
25°	3102	1416
35°	2154	1275
45°	686	565
55°	463	419
65°	334	326
75°	165	177
85°	43	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3575.7
2.5°	3568.5
5°	3557.7
7.5°	3529.0
10°	3482.3
12.5°	3428.4
15°	3374.7
17.5°	3320.8
20°	3252.6
22.5°	3184.4
25°	3101.8
27.5°	2976.2
30°	2796.6
32.5°	2538.1
35°	2154.0
37.5°	1608.3
40°	1112.9
42.5°	822.2
45°	685.7
47.5°	606.7
50°	552.8
52.5°	502.6
55°	463.2
57.5°	430.8
60°	398.5
62.5°	369.8
65°	333.9
67.5°	290.8
70°	244.1
72.5°	204.6
75°	165.2
77.5°	129.3
80°	96.9
82.5°	68.2
85°	43.1
87.5°	18.0
90°	0.0



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— 0°-180°







(END OF REPORT)