

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: P584892

Luminaire Tested: **HC850D010-HM82555935-81WDH**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-8)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555935-81WDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5327.5 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.06
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

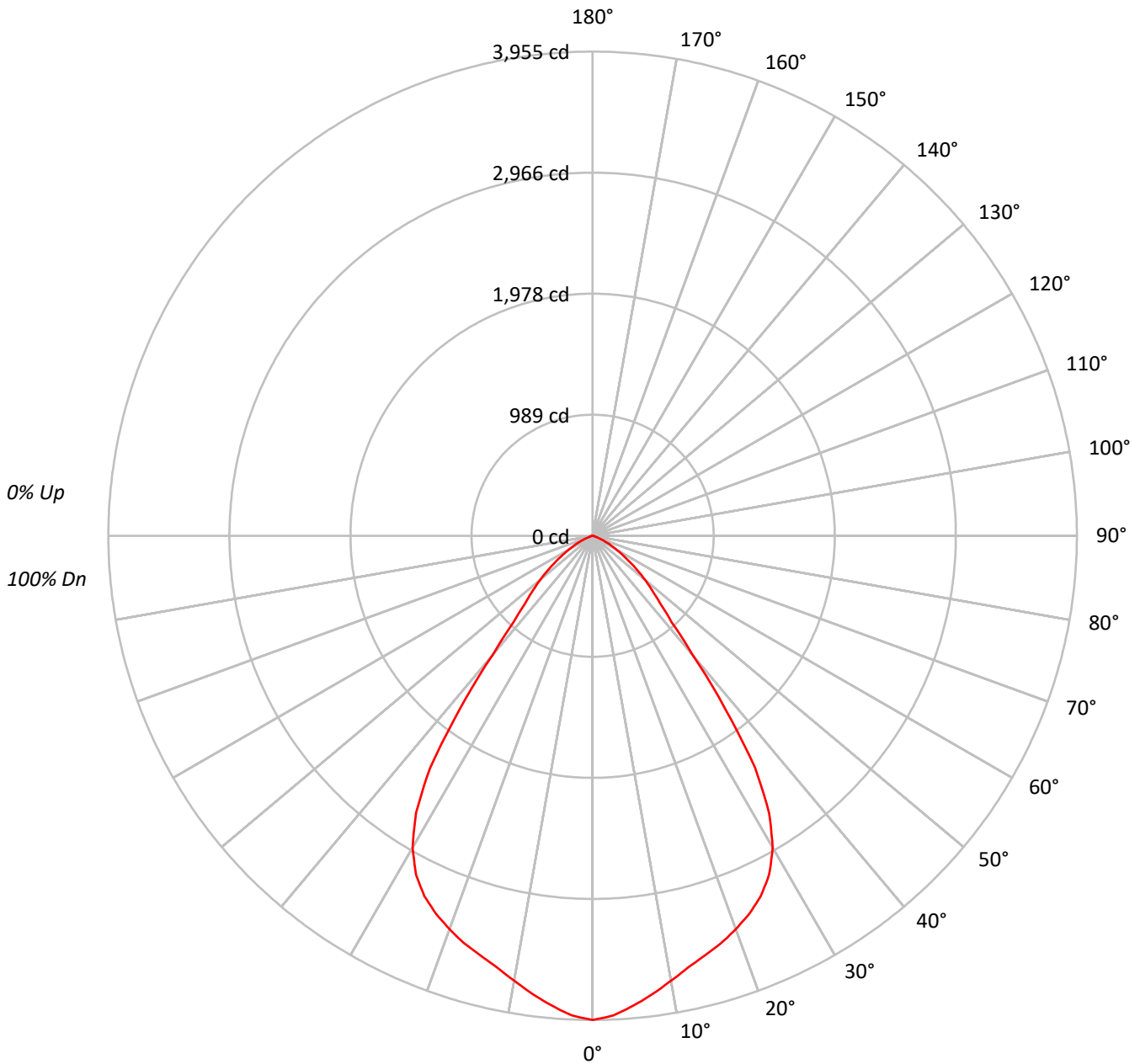
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	80	71	64	60	69	64	59	68	63	59	66	62	58	57			
7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44			
10	65	54	47	43	64	53	47	43	53	47	43	52	46	43	51	46	42	41			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	121964
5°	119217
10°	115560
15°	113222
20°	112209
25°	110527
30°	104702
35°	86992
40°	51231
45°	33884
50°	26673
55°	19628
60°	13636
65°	8311
70°	3624
75°	1597
80°	1190
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.7	6.8
10°-20°	1002.7	18.8
20°-30°	1485.6	27.9
30°-40°	1372.7	25.8
40°-50°	633.0	11.9
50°-60°	332.9	6.2
60°-70°	117.7	2.2
70°-80°	18.5	0.3
80°-90°	1.8	0.0
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°	2850.9	53.5
0°-40°	4223.6	79.3
0°-60°	5189.5	97.4
0°-90°	5327.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5327.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3955	
5°	3851	363
15°	3547	1003
25°	3248	1486
35°	2311	1373
45°	777	633
55°	365	333
65°	114	118
75°	13	19
85°	0	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3955.2
2.5°	3921.8
5°	3851.4
7.5°	3774.4
10°	3690.6
12.5°	3610.2
15°	3546.6
17.5°	3489.7
20°	3419.4
22.5°	3342.4
25°	3248.5
27.5°	3121.3
30°	2940.5
32.5°	2682.6
35°	2310.9
37.5°	1775.0
40°	1272.7
42.5°	954.5
45°	777.0
47.5°	659.8
50°	556.0
52.5°	455.4
55°	365.1
57.5°	288.0
60°	221.1
62.5°	167.4
65°	113.9
67.5°	67.0
70°	40.2
72.5°	23.5
75°	13.4
77.5°	10.1
80°	6.7
82.5°	3.4
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)