

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: P584814

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

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC850D010-HM82555835-81MDH
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5303.3 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.81
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

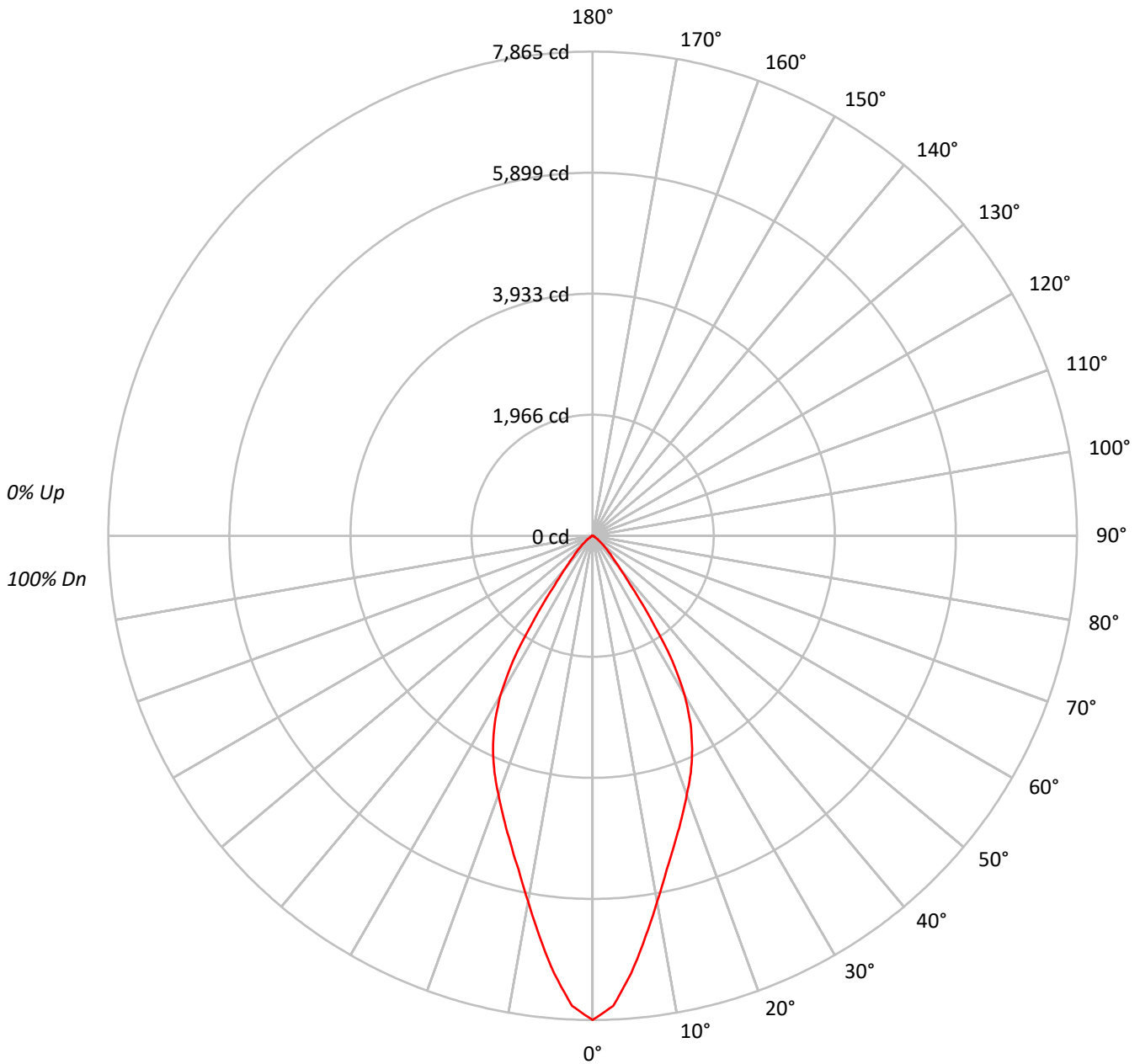
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	76	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58			
9	76	67	61	57	75	66	61	57	65	60	56	64	60	56	63	59	56	55			
10	73	63	57	54	72	63	57	53	62	57	53	61	56	53	60	56	53	52			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	242537
5°	221015
10°	188840
15°	164684
20°	146780
25°	130200
30°	106603
35°	61217
40°	27167
45°	15813
50°	9129
55°	5209
60°	2874
65°	1831
70°	1298
75°	846
80°	639
85°	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.3	12.2
10°-20°	1450.1	27.3
20°-30°	1735.7	32.7
30°-40°	1050.0	19.8
40°-50°	294.3	5.5
50°-60°	91.4	1.7
60°-70°	26.1	0.5
70°-80°	7.1	0.1
80°-90°	2.4	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°	3832.1	72.3
0°-40°	4882.1	92.1
0°-60°	5267.7	99.3
0°-90°	5303.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5303.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7865	
5°	7140	646
15°	5159	1450
25°	3827	1736
35°	1626	1050
45°	363	294
55°	97	91
65°	25	26
75°	7	7
85°	4	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	7865.3
2.5°	7642.7
5°	7140.1
7.5°	6572.9
10°	6030.9
12.5°	5557.1
15°	5158.6
17.5°	4806.8
20°	4472.9
22.5°	4164.2
25°	3826.7
27.5°	3446.2
30°	2993.9
32.5°	2408.7
35°	1626.2
37.5°	1012.4
40°	674.9
42.5°	484.7
45°	362.6
47.5°	265.6
50°	190.3
52.5°	132.8
55°	96.9
57.5°	64.6
60°	46.6
62.5°	32.3
65°	25.1
67.5°	18.0
70°	14.4
72.5°	7.1
75°	7.1
77.5°	3.6
80°	3.6
82.5°	3.6
85°	3.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)