

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: P584682

Luminaire Tested: **HC845D010-HM82555835-81NDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555835-81NDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4564.5 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.06 / 0.92
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

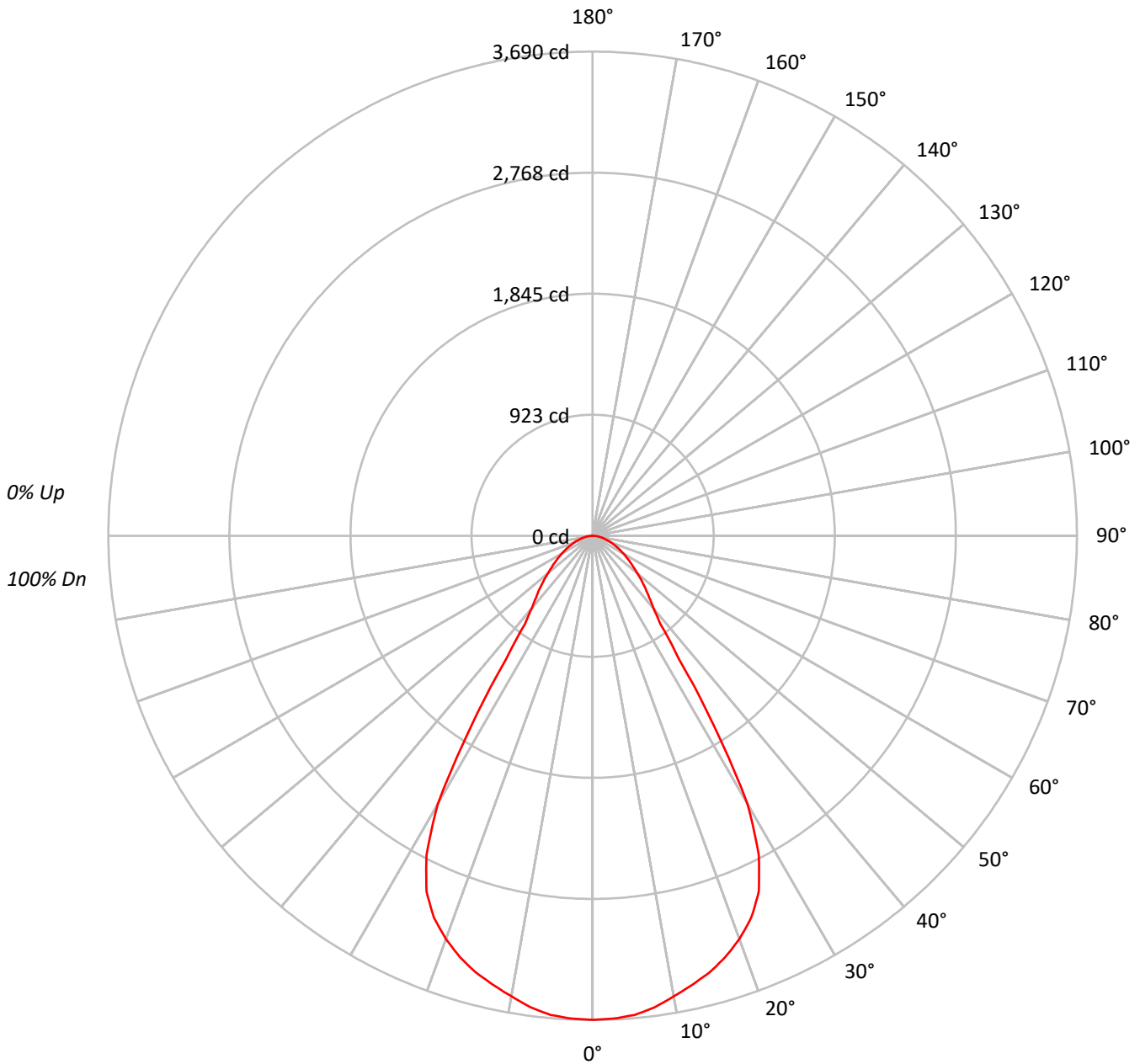
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81			
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56			
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52			
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48			
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			
10	65	55	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	113774
5°	113468
10°	111580
15°	109947
20°	107313
25°	101868
30°	84021
35°	43261
40°	28963
45°	24835
50°	21429
55°	18698
60°	16615
65°	14929
70°	13524
75°	12188
80°	10886
85°	10862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	7.6
10°-20°	969.0	21.2
20°-30°	1342.6	29.4
30°-40°	806.4	17.7
40°-50°	441.4	9.7
50°-60°	313.6	6.9
60°-70°	203.6	4.5
70°-80°	108.8	2.4
80°-90°	32.4	0.7
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°	2658.2	58.2
0°-40°	3464.6	75.9
0°-60°	4219.6	92.4
0°-90°	4564.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4564.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3690	
5°	3666	347
15°	3444	969
25°	2994	1343
35°	1149	806
45°	570	441
55°	348	314
65°	205	204
75°	102	109
85°	31	32
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3689.6
2.5°	3682.8
5°	3665.7
7.5°	3624.8
10°	3563.5
12.5°	3505.4
15°	3444.0
17.5°	3365.7
20°	3270.2
22.5°	3154.2
25°	2994.0
27.5°	2741.7
30°	2359.7
32.5°	1728.9
35°	1149.2
37.5°	849.1
40°	719.5
42.5°	637.6
45°	569.5
47.5°	504.6
50°	446.7
52.5°	392.1
55°	347.8
57.5°	306.9
60°	269.4
62.5°	235.3
65°	204.6
67.5°	174.0
70°	150.0
72.5°	122.8
75°	102.3
77.5°	81.9
80°	61.3
82.5°	44.3
85°	30.7
87.5°	13.6
90°	0.0



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— 0°-180°







(END OF REPORT)