

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: P584672

Luminaire Tested: **HC845D010-HM82555830-81WDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584672
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: HC845D010-HM82555830-81WDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4939.6 lumens
Efficiency: N/A
Efficacy: 112.3 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

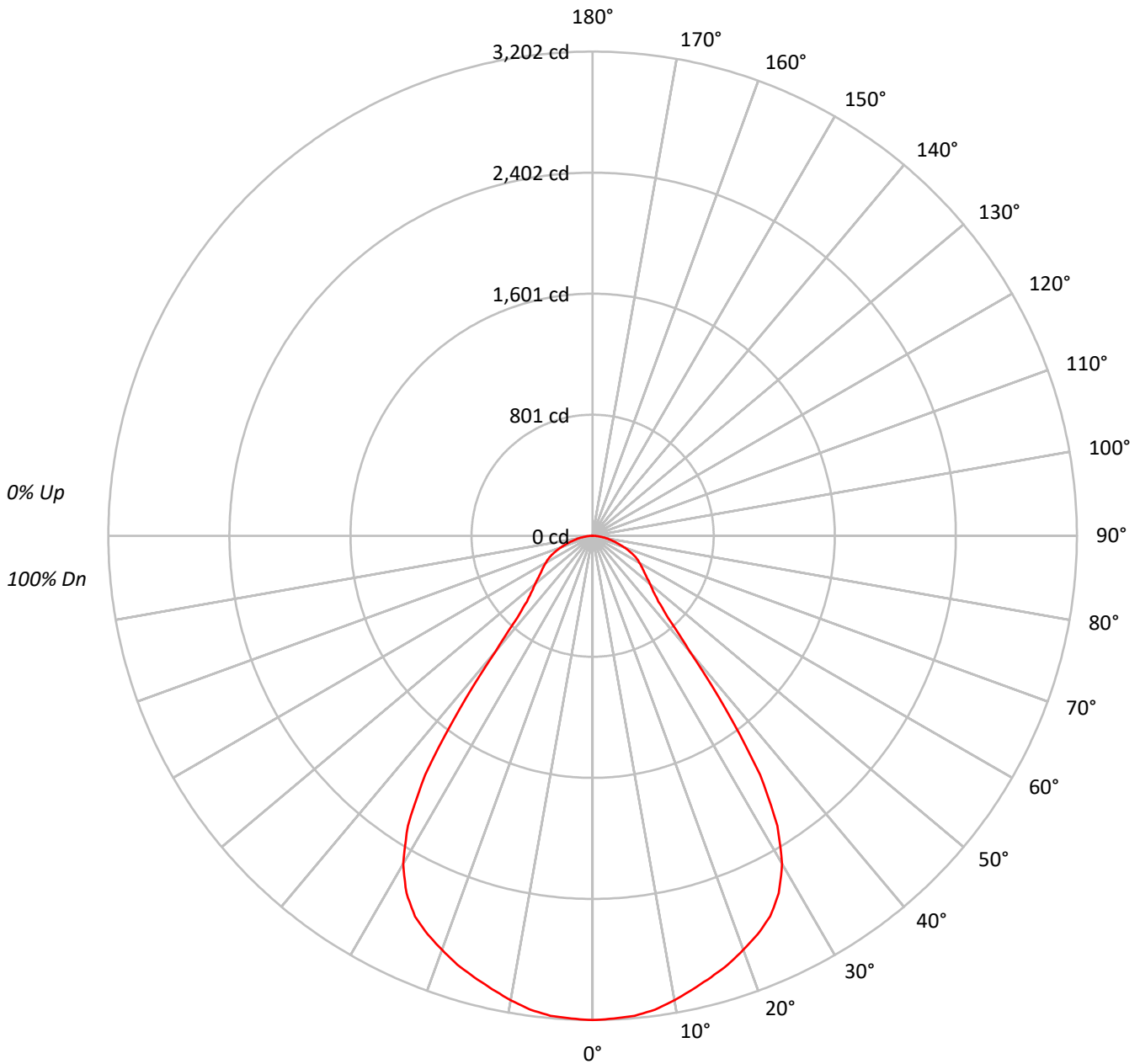
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98753
5°	98635
10°	97659
15°	96491
20°	95594
25°	94519
30°	89184
35°	72623
40°	40125
45°	26785
50°	23751
55°	22300
60°	22011
65°	21817
70°	19709
75°	17621
80°	15414
85°	13657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.0	6.1
10°-20°	853.4	17.3
20°-30°	1268.1	25.7
30°-40°	1142.0	23.1
40°-50°	506.3	10.2
50°-60°	374.9	7.6
60°-70°	291.5	5.9
70°-80°	158.1	3.2
80°-90°	43.3	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°	2423.5	49.1
0°-40°	3565.4	72.2
0°-60°	4446.7	90.0
0°-90°	4939.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4939.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3202	
5°	3186	302
15°	3022	853
25°	2778	1268
35°	1929	1142
45°	614	506
55°	415	375
65°	299	292
75°	148	158
85°	39	43
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3202.5
2.5°	3196.1
5°	3186.5
7.5°	3160.6
10°	3118.9
12.5°	3070.7
15°	3022.5
17.5°	2974.3
20°	2913.1
22.5°	2852.0
25°	2778.0
27.5°	2665.5
30°	2504.7
32.5°	2273.3
35°	1929.2
37.5°	1440.4
40°	996.8
42.5°	736.3
45°	614.2
47.5°	543.5
50°	495.1
52.5°	450.2
55°	414.8
57.5°	385.8
60°	356.9
62.5°	331.1
65°	299.0
67.5°	260.4
70°	218.6
72.5°	183.2
75°	147.9
77.5°	115.8
80°	86.8
82.5°	61.1
85°	38.6
87.5°	16.1
90°	0.0



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— 0°-180°







(END OF REPORT)