

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: P584645

Luminaire Tested: **HC845D010-HM82555827-81MDW**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC845D010-HM82555827-81MDW
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4877.4 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1 / 0.95
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

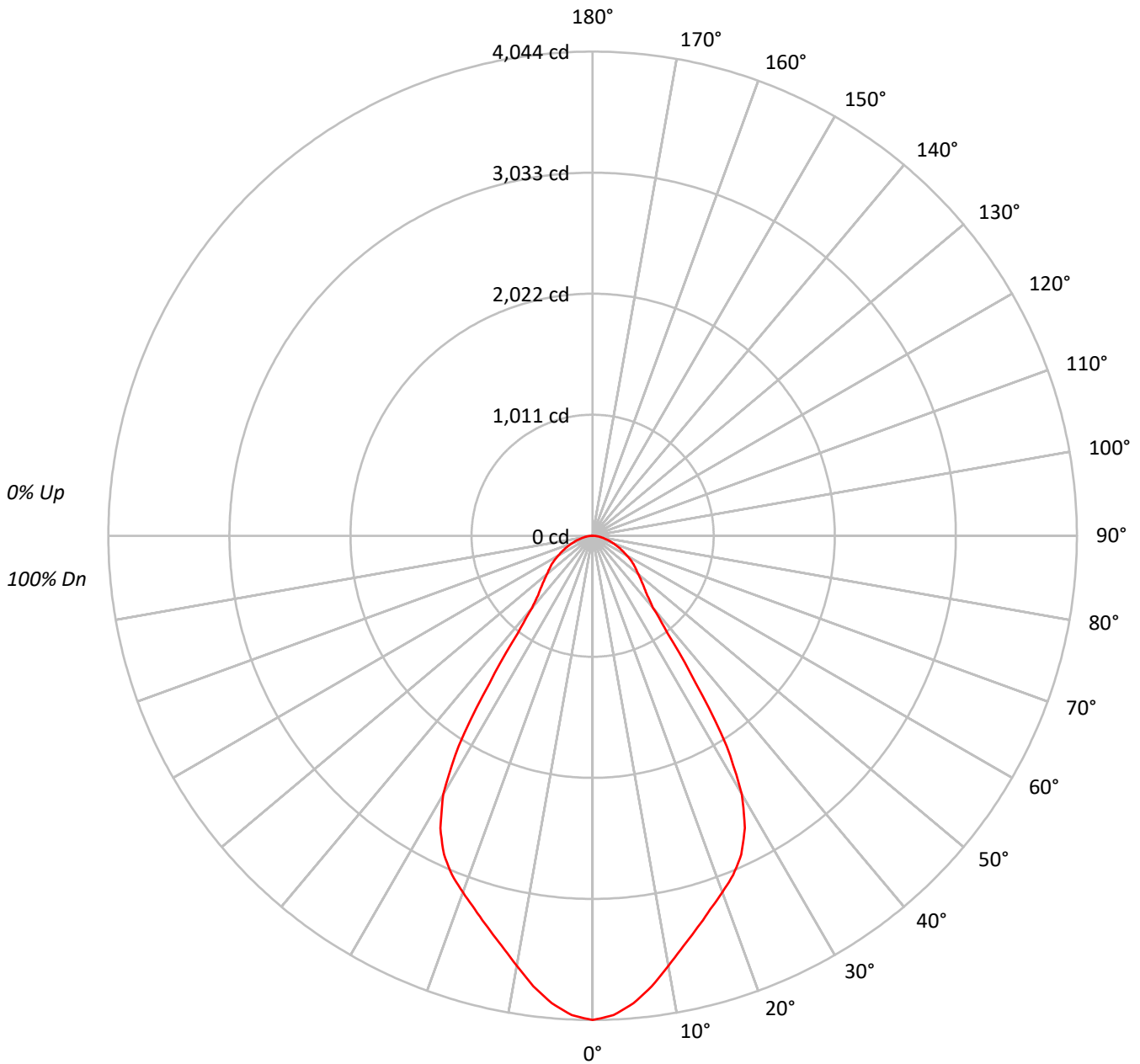
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	102	99	97	98	96	94	94	93	92	90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59			
6	81	70	63	58	79	69	62	57	67	61	57	66	61	56	64	60	56	54			
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43			
10	64	53	46	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124711
5°	121312
10°	114157
15°	108082
20°	103969
25°	99956
30°	88771
35°	56534
40°	31551
45°	26427
50°	23862
55°	22488
60°	20518
65°	18504
70°	16328
75°	14523
80°	12874
85°	11676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.4	7.5
10°-20°	954.8	19.6
20°-30°	1332.1	27.3
30°-40°	958.5	19.7
40°-50°	475.0	9.7
50°-60°	371.7	7.6
60°-70°	251.6	5.2
70°-80°	130.7	2.7
80°-90°	37.6	0.8
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°	2652.2	54.4
0°-40°	3610.7	74.0
0°-60°	4457.4	91.4
0°-90°	4877.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4877.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4044	
5°	3919	365
15°	3386	955
25°	2938	1332
35°	1502	959
45°	606	475
55°	418	372
65°	254	252
75°	122	131
85°	33	38
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4044.3
2.5°	4008.1
5°	3919.1
7.5°	3794.1
10°	3645.8
12.5°	3507.5
15°	3385.6
17.5°	3270.3
20°	3168.3
22.5°	3066.2
25°	2937.8
27.5°	2753.3
30°	2493.1
32.5°	2084.8
35°	1501.8
37.5°	1024.3
40°	783.8
42.5°	675.2
45°	606.0
47.5°	546.7
50°	497.4
52.5°	454.5
55°	418.3
57.5°	375.5
60°	332.7
62.5°	289.8
65°	253.6
67.5°	217.4
70°	181.1
72.5°	151.6
75°	121.9
77.5°	95.5
80°	72.5
82.5°	52.7
85°	33.0
87.5°	16.4
90°	0.0



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— 0°-180°







(END OF REPORT)