

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: P580886

Luminaire Tested: **HC450D010-HM44560840-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580886
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560840-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5785.6 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

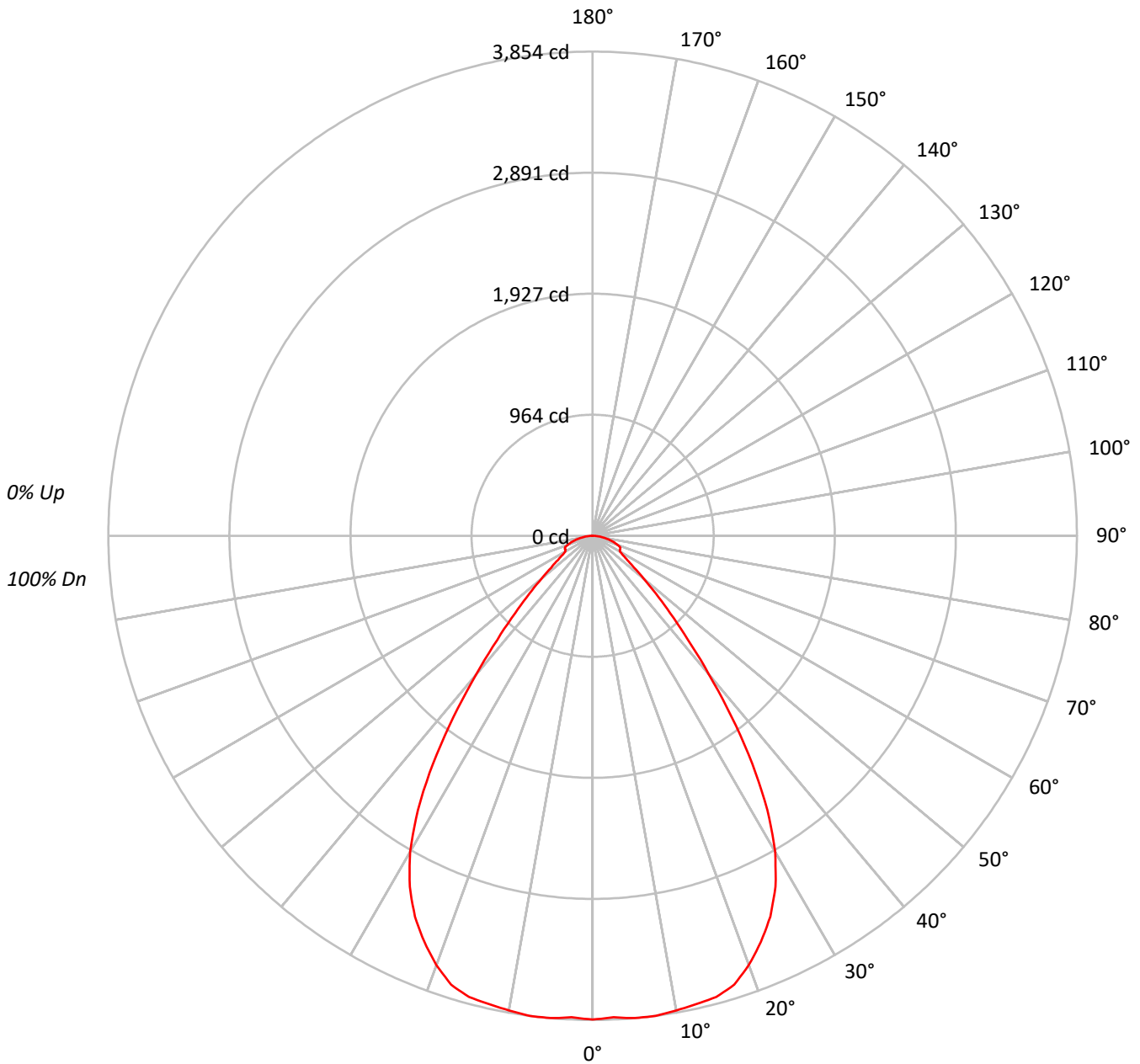
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	474967
5°	477215
10°	480503
15°	485324
20°	477215
25°	455258
30°	413637
35°	333649
40°	231509
45°	151970
50°	101818
55°	72492
60°	61920
65°	71156
70°	76275
75°	73487
80°	66202
85°	60997



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.3	6.3
10°-20°	1067.7	18.5
20°-30°	1525.4	26.4
30°-40°	1362.7	23.6
40°-50°	698.9	12.1
50°-60°	317.7	5.5
60°-70°	236.9	4.1
70°-80°	161.2	2.8
80°-90°	47.8	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°	2960.3	51.2
0°-40°	4323.0	74.7
0°-60°	5339.6	92.3
0°-90°	5785.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5785.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3851	
5°	3854	367
15°	3801	1068
25°	3345	1525
35°	2216	1363
45°	871	699
55°	337	318
65°	244	237
75°	154	161
85°	43	48
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3850.7
2.5°	3836.4
5°	3854.2
7.5°	3854.2
10°	3836.4
12.5°	3818.5
15°	3800.6
17.5°	3746.8
20°	3635.6
22.5°	3499.3
25°	3345.1
27.5°	3151.5
30°	2904.2
32.5°	2588.6
35°	2215.8
37.5°	1817.8
40°	1437.8
42.5°	1122.3
45°	871.2
47.5°	681.2
50°	530.6
52.5°	415.9
55°	337.1
57.5°	283.3
60°	251.0
62.5°	243.8
65°	243.8
67.5°	236.7
70°	211.5
72.5°	182.9
75°	154.2
77.5°	121.9
80°	93.2
82.5°	68.1
85°	43.1
87.5°	17.9
90°	0.0



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— 0°-180°







(END OF REPORT)