

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: P580922

Luminaire Tested: **HC450D010-HM44560930-41WDWB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580922
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-HM44560930-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4279.6 lumens
Efficiency: N/A
Efficacy: 89.2 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

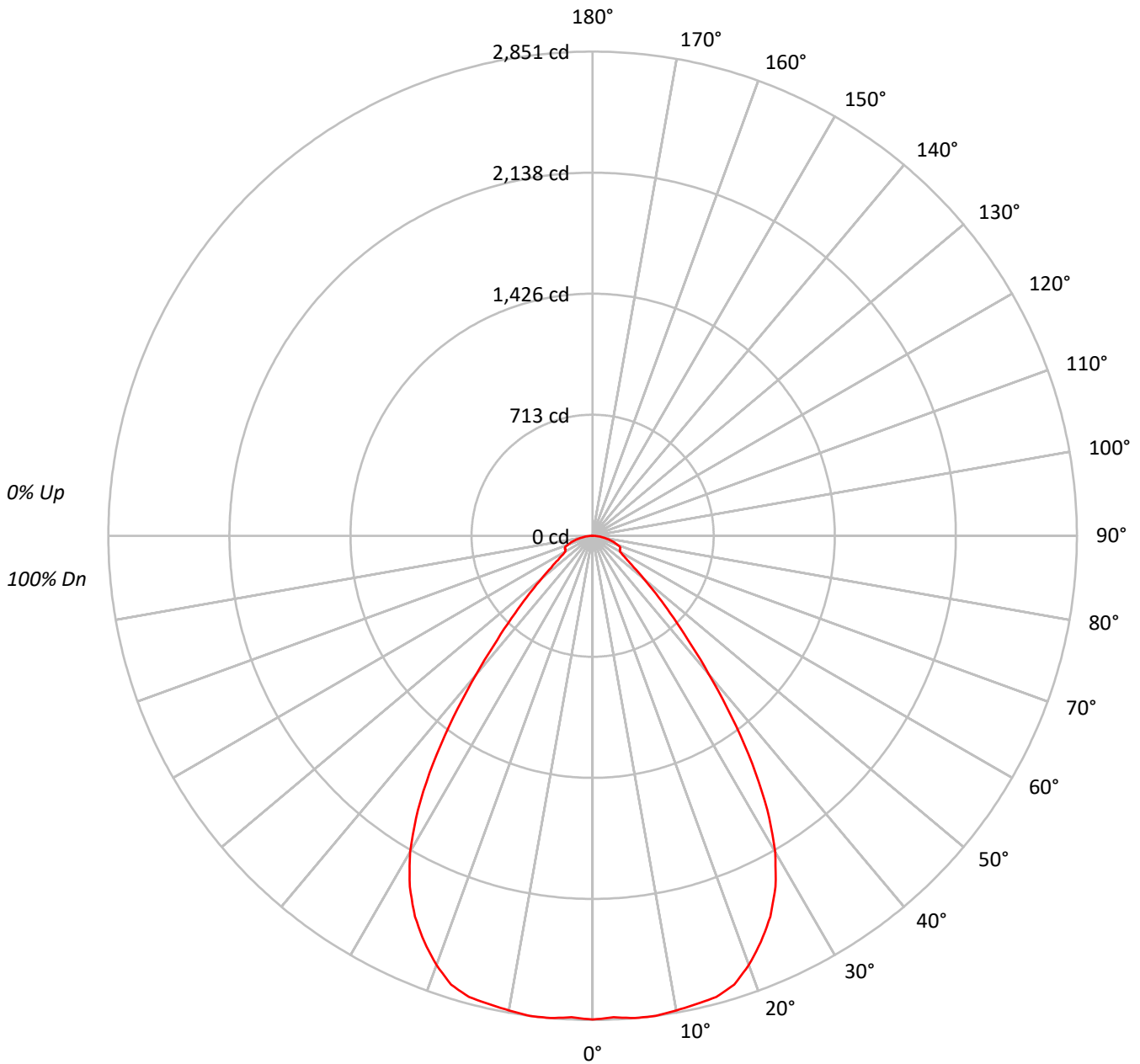
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	351338
5°	353014
10°	355430
15°	358981
20°	352989
25°	336772
30°	305962
35°	246796
40°	171241
45°	112425
50°	75318
55°	53611
60°	45786
65°	52622
70°	56440
75°	54329
80°	49012
85°	45004



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.7	6.3
10°-20°	789.7	18.5
20°-30°	1128.3	26.4
30°-40°	1008.0	23.6
40°-50°	517.0	12.1
50°-60°	235.0	5.5
60°-70°	175.2	4.1
70°-80°	119.3	2.8
80°-90°	35.4	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°	2189.8	51.2
0°-40°	3197.8	74.7
0°-60°	3949.7	92.3
0°-90°	4279.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4279.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2848	
5°	2851	272
15°	2811	790
25°	2474	1128
35°	1639	1008
45°	644	517
55°	249	235
65°	180	175
75°	114	119
85°	32	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2848.4
2.5°	2837.8
5°	2851.1
7.5°	2851.1
10°	2837.8
12.5°	2824.5
15°	2811.2
17.5°	2771.5
20°	2689.2
22.5°	2588.5
25°	2474.5
27.5°	2331.2
30°	2148.2
32.5°	1914.9
35°	1639.0
37.5°	1344.7
40°	1063.5
42.5°	830.1
45°	644.5
47.5°	503.9
50°	392.5
52.5°	307.6
55°	249.3
57.5°	209.6
60°	185.6
62.5°	180.3
65°	180.3
67.5°	175.0
70°	156.5
72.5°	135.3
75°	114.0
77.5°	90.2
80°	69.0
82.5°	50.4
85°	31.8
87.5°	13.3
90°	0.0



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— 0°-180°







(END OF REPORT)