

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: P580967

Luminaire Tested: **HC450D010-HM44560940-41NDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580967
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-3)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560940-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3768.1 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

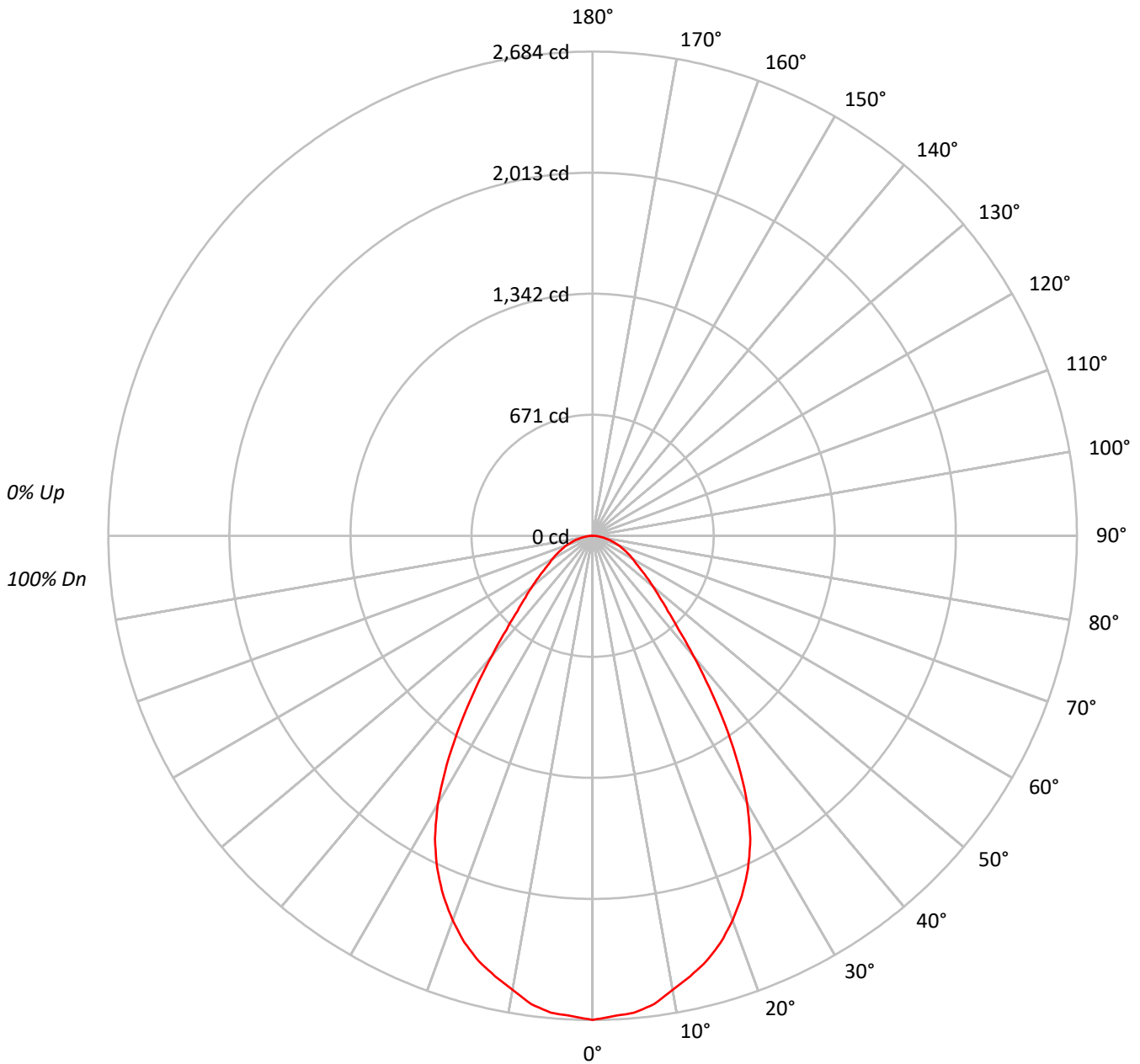
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	97	98	96	94	94	92	91	89		
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79		
3	97	88	82	77	95	87	81	76	84	79	75	82	77	74	79	76	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64		
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58		
6	79	68	61	56	78	67	60	55	66	60	55	64	59	55	63	58	54	52		
7	75	63	56	51	73	62	56	51	61	55	50	60	54	50	59	53	50	48		
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	63	51	44	40	62	51	44	40	50	44	40	49	43	39	48	43	39	38		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	331047
5°	328585
10°	320035
15°	311606
20°	297662
25°	277325
30°	244177
35°	192588
40°	139794
45°	102709
50°	83569
55°	70084
60°	63523
65°	58343
70°	54348
75°	49611
80°	44750
85°	38636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.2	6.6
10°-20°	684.5	18.2
20°-30°	927.8	24.6
30°-40°	796.1	21.1
40°-50°	470.1	12.5
50°-60°	297.9	7.9
60°-70°	200.1	5.3
70°-80°	110.5	2.9
80°-90°	30.9	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°	1862.5	49.4
0°-40°	2658.6	70.6
0°-60°	3426.6	90.9
0°-90°	3768.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3768.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2684	
5°	2654	250
15°	2440	684
25°	2038	928
35°	1279	796
45°	589	470
55°	326	298
65°	200	200
75°	104	110
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2683.9
2.5°	2664.8
5°	2653.8
7.5°	2618.2
10°	2555.2
12.5°	2500.5
15°	2440.2
17.5°	2363.6
20°	2267.7
22.5°	2160.9
25°	2037.7
27.5°	1892.4
30°	1714.4
32.5°	1503.5
35°	1279.0
37.5°	1062.6
40°	868.2
42.5°	706.6
45°	588.8
47.5°	503.9
50°	435.5
52.5°	377.9
55°	325.9
57.5°	284.8
60°	257.5
62.5°	230.0
65°	199.9
67.5°	175.2
70°	150.7
72.5°	126.0
75°	104.1
77.5°	82.1
80°	63.0
82.5°	43.8
85°	27.3
87.5°	11.0
90°	0.0



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— 0°-180°







(END OF REPORT)