

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: P580950

Luminaire Tested: **HC450D010-HM44560935-41PSMDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560935-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3902.7 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 0.99
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

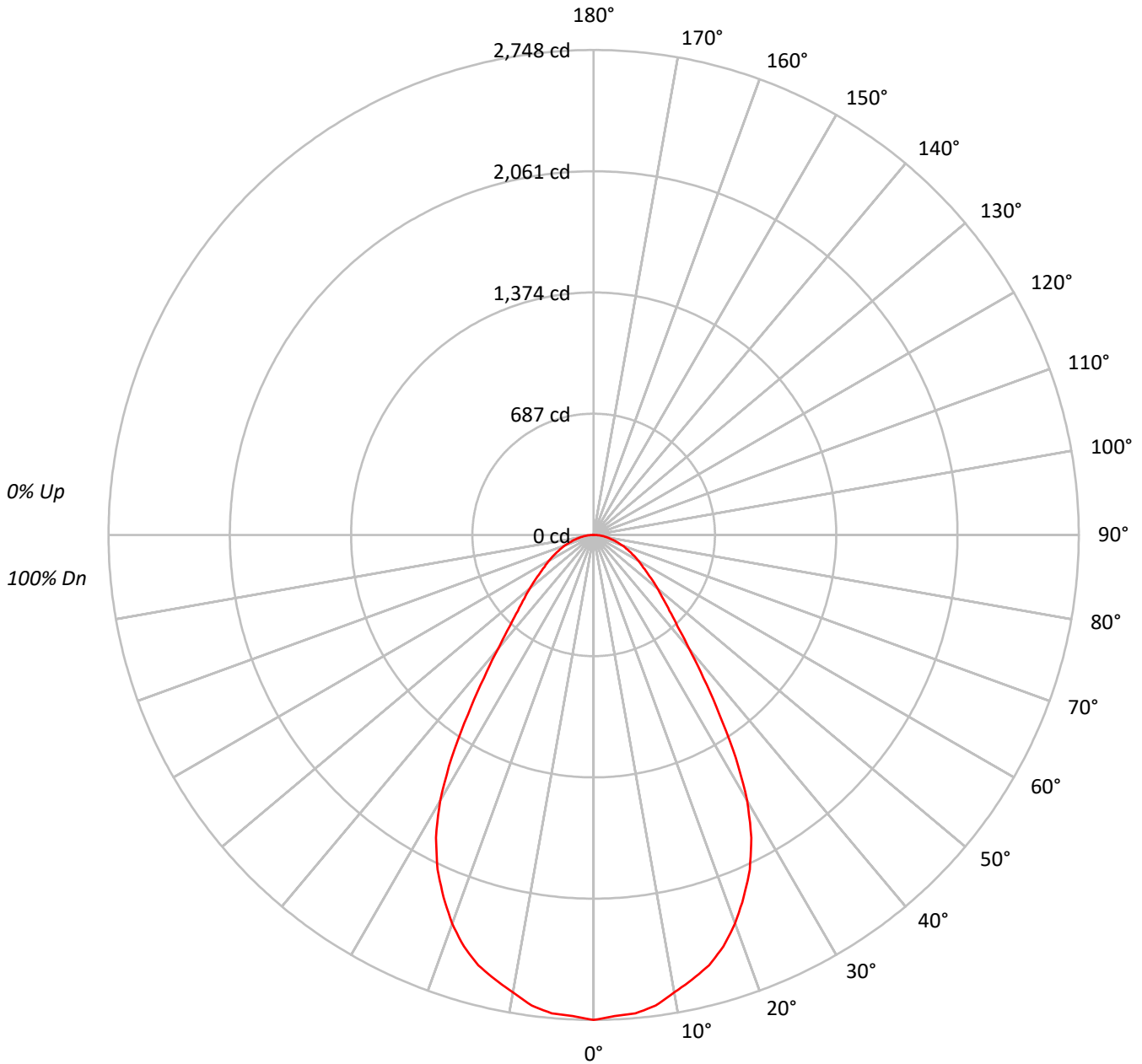
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	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°	338978
5°	336868
10°	329691
15°	322396
20°	307494
25°	284660
30°	247581
35°	186972
40°	135495
45°	105901
50°	90535
55°	78320
60°	72157
65°	66048
70°	61669
75°	56569
80°	52919
85°	50807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	6.6
10°-20°	707.2	18.1
20°-30°	951.0	24.4
30°-40°	782.0	20.0
40°-50°	480.2	12.3
50°-60°	332.3	8.5
60°-70°	226.6	5.8
70°-80°	126.2	3.2
80°-90°	40.2	1.0
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°	1915.2	49.1
0°-40°	2697.1	69.1
0°-60°	3509.7	89.9
0°-90°	3902.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3902.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2748	
5°	2721	257
15°	2525	707
25°	2092	951
35°	1242	782
45°	607	480
55°	364	332
65°	226	227
75°	119	126
85°	36	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2748.2
2.5°	2729.0
5°	2720.7
7.5°	2690.3
10°	2632.3
12.5°	2580.0
15°	2524.7
17.5°	2444.7
20°	2342.6
22.5°	2221.2
25°	2091.6
27.5°	1934.3
30°	1738.3
32.5°	1498.3
35°	1241.7
37.5°	1021.0
40°	841.5
42.5°	703.6
45°	607.1
47.5°	532.6
50°	471.8
52.5°	416.7
55°	364.2
57.5°	325.6
60°	292.5
62.5°	259.4
65°	226.3
67.5°	198.7
70°	171.0
72.5°	143.5
75°	118.7
77.5°	93.8
80°	74.5
82.5°	55.2
85°	35.9
87.5°	19.3
90°	0.0



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— 0°-180°







(END OF REPORT)