

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: P580930

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560930-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3828.9 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

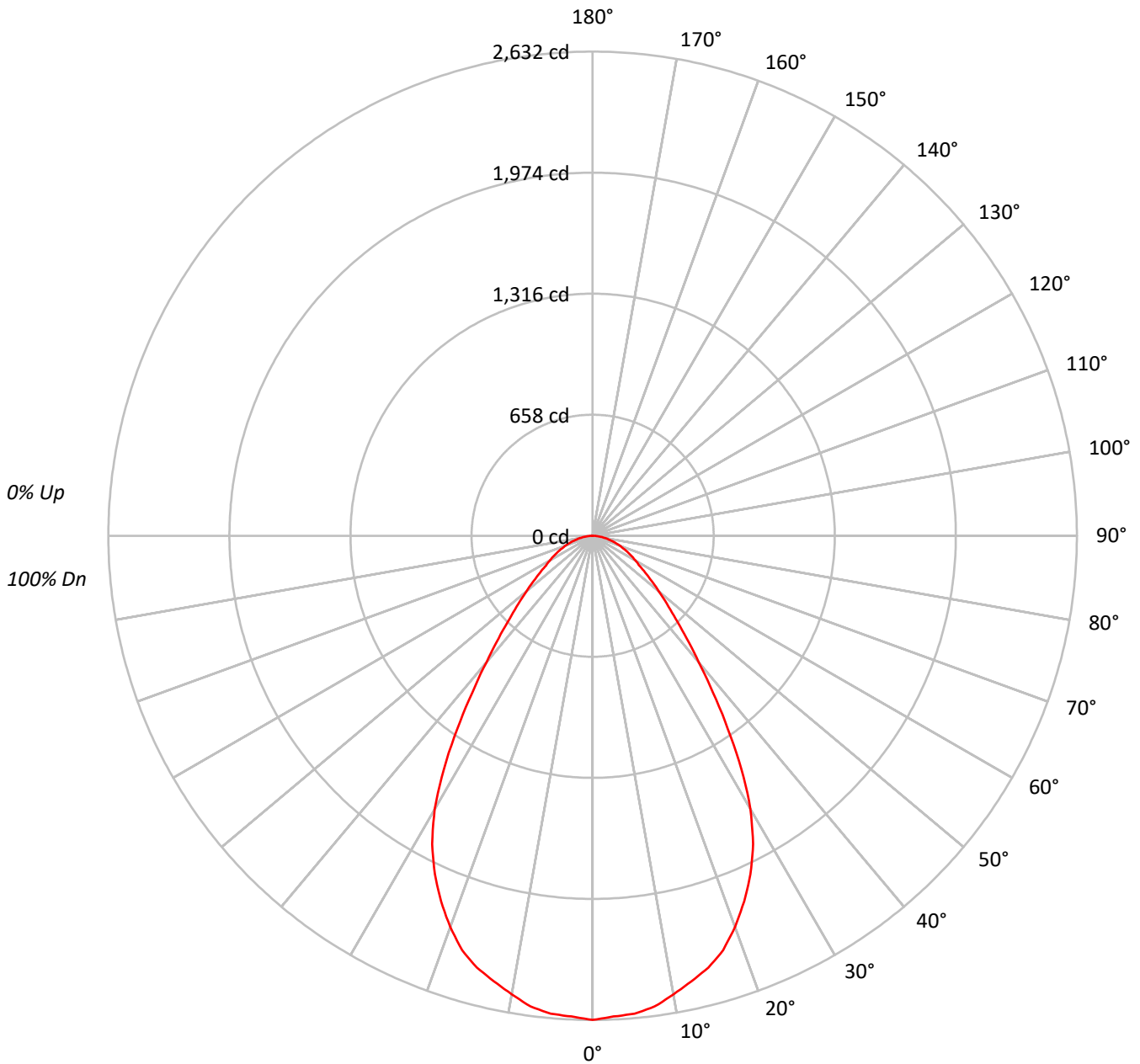
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	324609
5°	322902
10°	316991
15°	310316
20°	297032
25°	276209
30°	244462
35°	192950
40°	144383
45°	111064
50°	90112
55°	74729
60°	66089
65°	61174
70°	56440
75°	51851
80°	47094
85°	37645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.5	6.4
10°-20°	681.5	17.8
20°-30°	925.4	24.2
30°-40°	801.6	20.9
40°-50°	503.2	13.1
50°-60°	316.6	8.3
60°-70°	208.0	5.4
70°-80°	114.7	3.0
80°-90°	31.4	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°	1853.4	48.4
0°-40°	2655.0	69.3
0°-60°	3474.8	90.8
0°-90°	3828.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3828.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2632	
5°	2608	247
15°	2430	681
25°	2030	925
35°	1281	802
45°	637	503
55°	348	317
65°	210	208
75°	109	115
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2631.7
2.5°	2615.8
5°	2607.9
7.5°	2581.3
10°	2530.9
12.5°	2480.5
15°	2430.1
17.5°	2361.1
20°	2262.9
22.5°	2151.6
25°	2029.5
27.5°	1888.9
30°	1716.4
32.5°	1506.8
35°	1281.4
37.5°	1074.5
40°	896.7
42.5°	756.1
45°	636.7
47.5°	546.5
50°	469.6
52.5°	403.3
55°	347.5
57.5°	299.8
60°	267.9
62.5°	238.8
65°	209.6
67.5°	180.4
70°	156.5
72.5°	130.0
75°	108.8
77.5°	84.9
80°	66.3
82.5°	45.1
85°	26.6
87.5°	10.6
90°	0.0



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— 0°-180°







(END OF REPORT)