

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: P580968

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580968
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-HM44560940-41PSMDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3872.3 lumens
Efficiency: N/A
Efficacy: 80.7 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

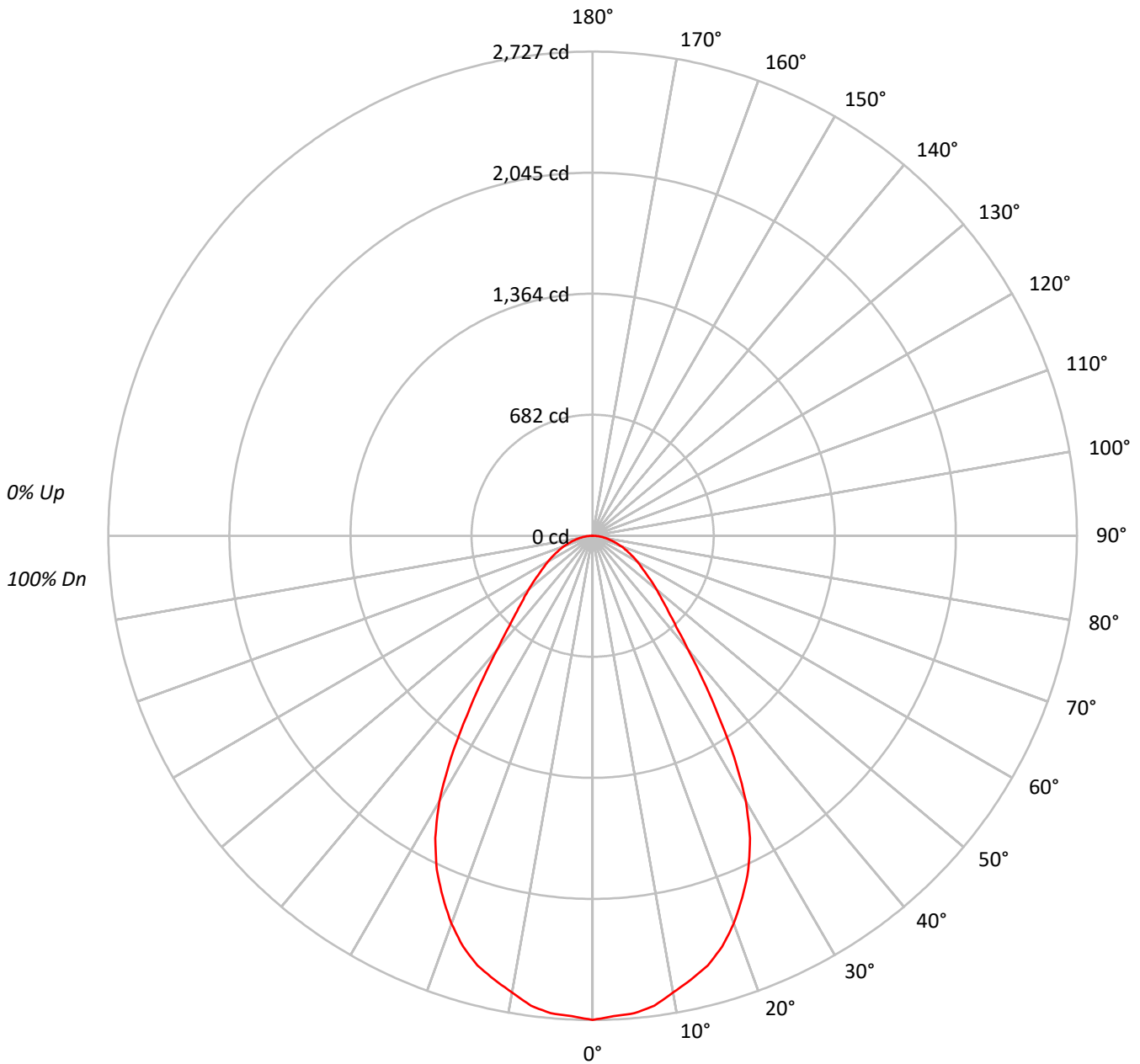
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63			63
5	84	74	66	61	82	72	66	60	71	64	60	69	63	59	67	62	59	57			57
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	53	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	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	336351
5°	334231
10°	327136
15°	319880
20°	305105
25°	282428
30°	245659
35°	185511
40°	134449
45°	105063
50°	89844
55°	77718
60°	71614
65°	65523
70°	61200
75°	56092
80°	52493
85°	50382



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	6.6
10°-20°	701.7	18.1
20°-30°	943.6	24.4
30°-40°	775.9	20.0
40°-50°	476.5	12.3
50°-60°	329.7	8.5
60°-70°	224.8	5.8
70°-80°	125.3	3.2
80°-90°	39.9	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°	1900.2	49.1
0°-40°	2676.1	69.1
0°-60°	3482.3	89.9
0°-90°	3872.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3872.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2727	
5°	2699	255
15°	2505	702
25°	2075	944
35°	1232	776
45°	602	476
55°	361	330
65°	224	225
75°	118	125
85°	36	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2726.9
2.5°	2707.6
5°	2699.4
7.5°	2669.3
10°	2611.9
12.5°	2559.8
15°	2505.0
17.5°	2425.7
20°	2324.4
22.5°	2203.9
25°	2075.2
27.5°	1919.2
30°	1724.8
32.5°	1486.6
35°	1232.0
37.5°	1013.0
40°	835.0
42.5°	698.2
45°	602.3
47.5°	528.4
50°	468.2
52.5°	413.4
55°	361.4
57.5°	323.0
60°	290.3
62.5°	257.4
65°	224.5
67.5°	197.2
70°	169.7
72.5°	142.4
75°	117.7
77.5°	93.1
80°	73.9
82.5°	54.8
85°	35.6
87.5°	19.2
90°	0.0



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— 0°-180°







(END OF REPORT)