

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: P580912

Luminaire Tested: **HC450D010-HM44560927-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580912
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-HM44560927-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3524.9 lumens
Efficiency: N/A
Efficacy: 73.4 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

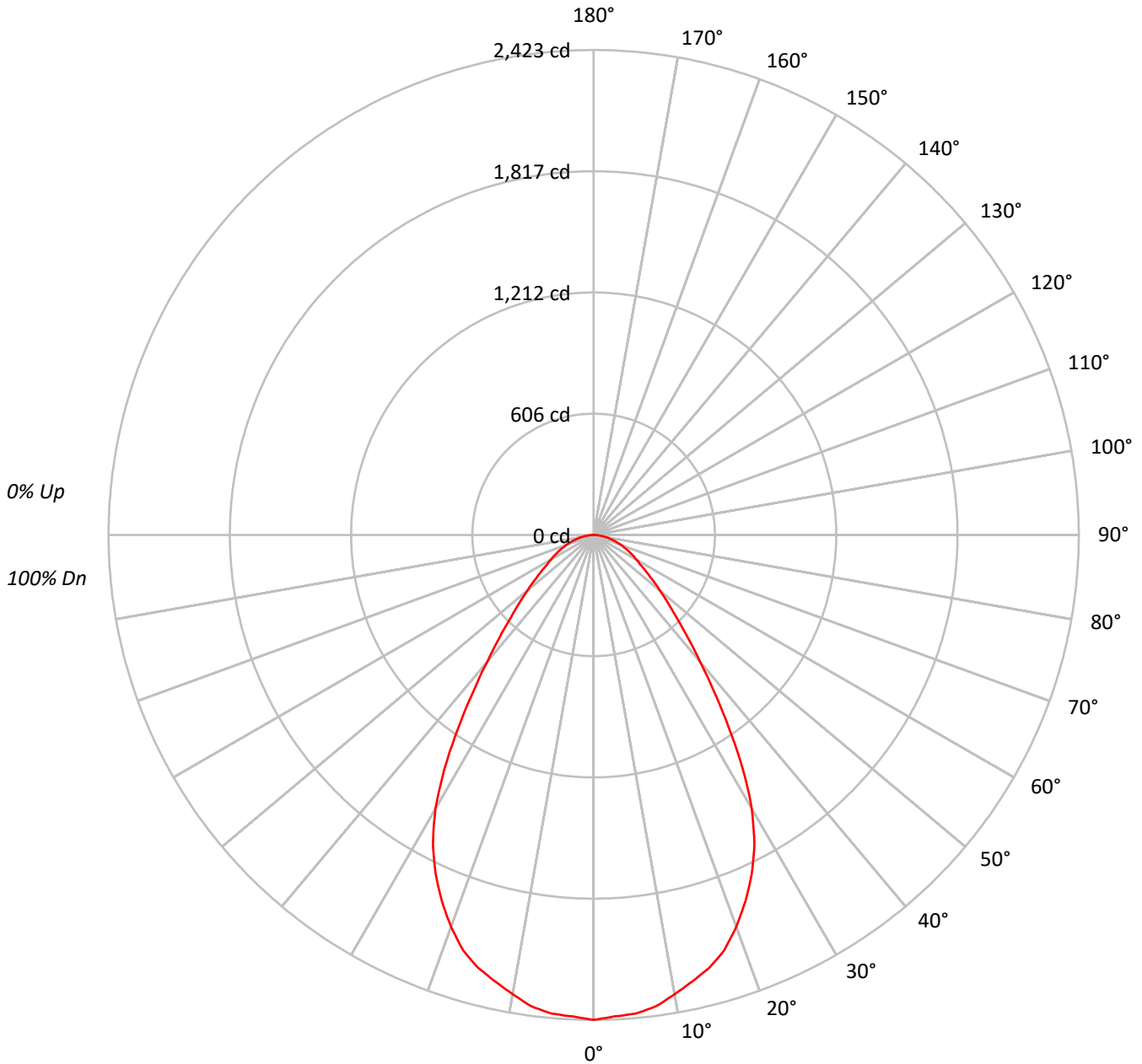
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	298842
5°	297259
10°	291816
15°	285670
20°	273457
25°	254283
30°	225049
35°	177621
40°	132919
45°	102255
50°	82955
55°	68793
60°	60834
65°	56329
70°	51968
75°	47752
80°	43401
85°	34673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.0	6.4
10°-20°	627.4	17.8
20°-30°	851.9	24.2
30°-40°	737.9	20.9
40°-50°	463.3	13.1
50°-60°	291.4	8.3
60°-70°	191.5	5.4
70°-80°	105.7	3.0
80°-90°	28.9	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°	1706.2	48.4
0°-40°	2444.1	69.3
0°-60°	3198.9	90.8
0°-90°	3524.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3524.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2423	
5°	2401	227
15°	2237	627
25°	1868	852
35°	1180	738
45°	586	463
55°	320	291
65°	193	191
75°	100	106
85°	24	29
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2422.8
2.5°	2408.1
5°	2400.8
7.5°	2376.4
10°	2329.9
12.5°	2283.5
15°	2237.1
17.5°	2173.6
20°	2083.3
22.5°	1980.6
25°	1868.4
27.5°	1738.9
30°	1580.1
32.5°	1387.2
35°	1179.6
37.5°	989.1
40°	825.5
42.5°	696.1
45°	586.2
47.5°	503.1
50°	432.3
52.5°	371.2
55°	319.9
57.5°	276.0
60°	246.6
62.5°	219.9
65°	193.0
67.5°	166.0
70°	144.1
72.5°	119.7
75°	100.2
77.5°	78.2
80°	61.1
82.5°	41.5
85°	24.5
87.5°	9.7
90°	0.0



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— 0°-180°







(END OF REPORT)