

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: P580949

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580949
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-HM44560935-41NDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3797.8 lumens
Efficiency: N/A
Efficacy: 79.1 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

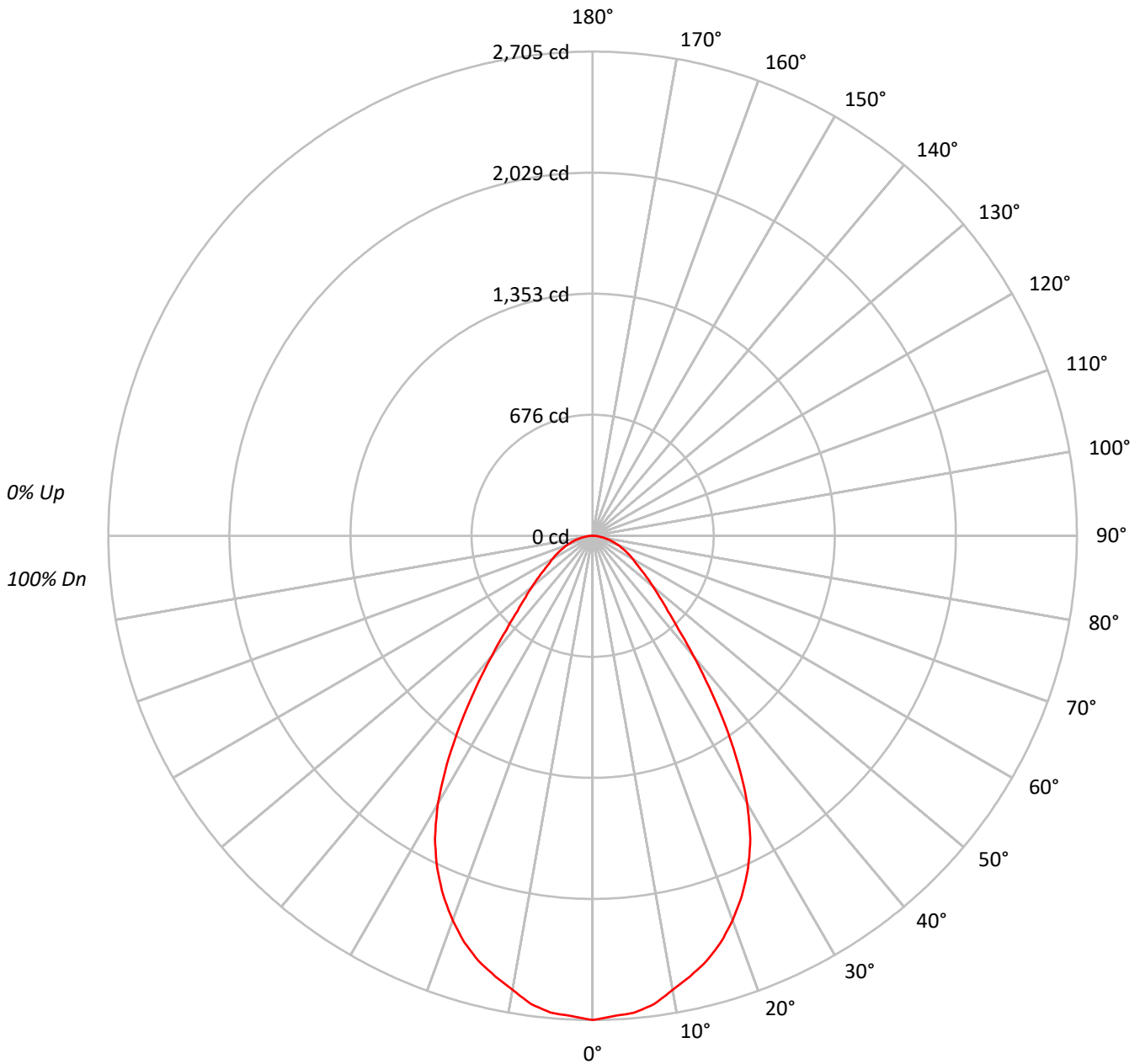
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	333662
5°	331160
10°	322552
15°	314057
20°	299999
25°	279488
30°	246100
35°	194094
40°	140889
45°	103528
50°	84221
55°	70621
60°	64016
65°	58810
70°	54745
75°	49992
80°	45034
85°	39060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.2	6.6
10°-20°	689.8	18.2
20°-30°	935.1	24.6
30°-40°	802.4	21.1
40°-50°	473.8	12.5
50°-60°	300.2	7.9
60°-70°	201.7	5.3
70°-80°	111.3	2.9
80°-90°	31.2	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°	1877.1	49.4
0°-40°	2679.5	70.6
0°-60°	3453.5	90.9
0°-90°	3797.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3797.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2705	
5°	2675	252
15°	2459	690
25°	2054	935
35°	1289	802
45°	594	474
55°	328	300
65°	202	202
75°	105	111
85°	28	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2705.1
2.5°	2685.7
5°	2674.6
7.5°	2638.8
10°	2575.3
12.5°	2520.1
15°	2459.4
17.5°	2382.0
20°	2285.5
22.5°	2177.8
25°	2053.6
27.5°	1907.4
30°	1727.9
32.5°	1515.4
35°	1289.0
37.5°	1071.0
40°	875.0
42.5°	712.1
45°	593.5
47.5°	507.9
50°	438.9
52.5°	380.9
55°	328.4
57.5°	287.0
60°	259.5
62.5°	231.8
65°	201.5
67.5°	176.7
70°	151.8
72.5°	127.0
75°	104.9
77.5°	82.8
80°	63.4
82.5°	44.2
85°	27.6
87.5°	11.1
90°	0.0



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— 0°-180°







(END OF REPORT)