

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: P580958

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560940-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4419.9 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.14 / 1.07
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

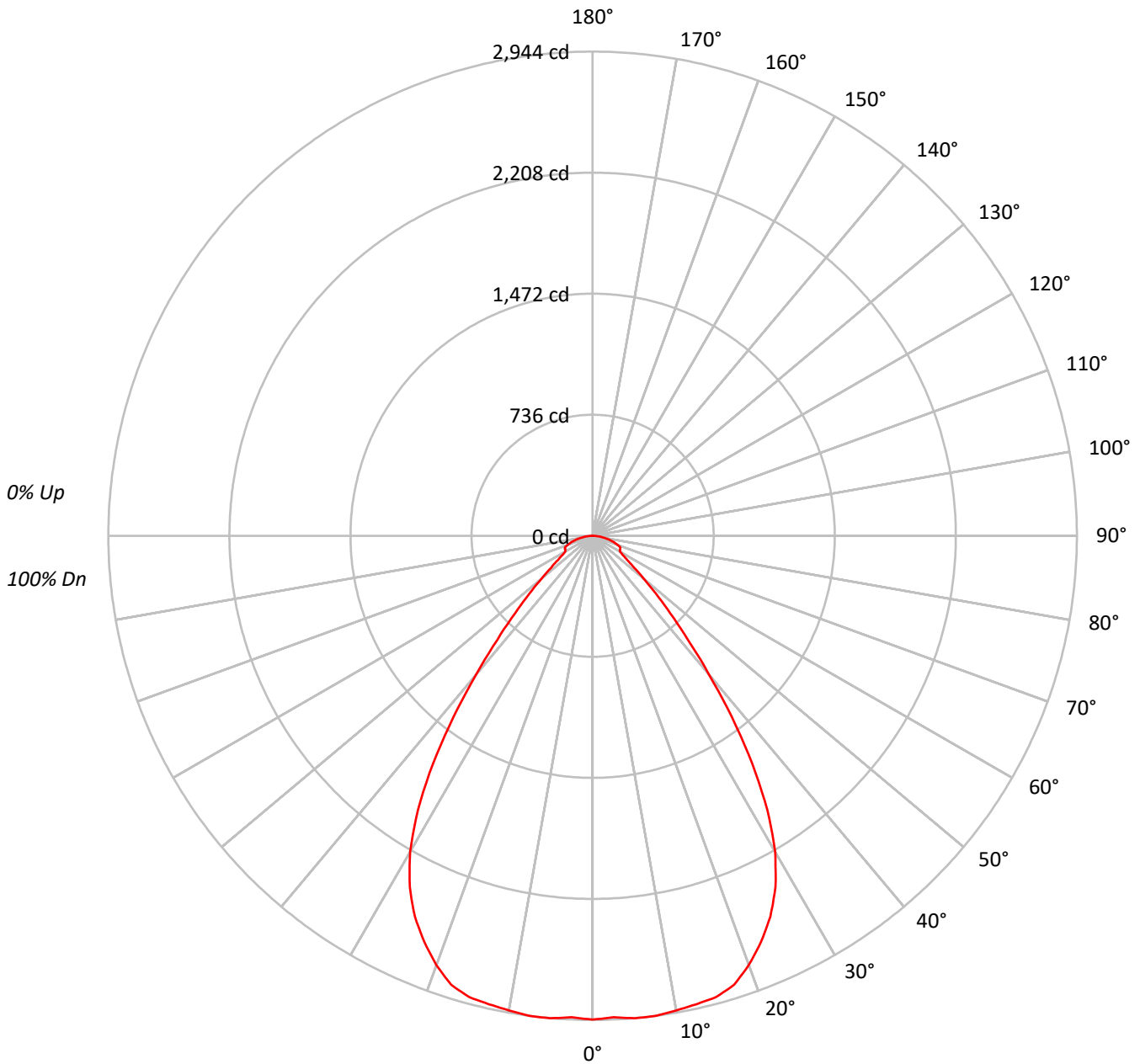
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65	65	65	65
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59	59	59	59
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54	54
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49	49	49	49
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46	46	46	46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42	42	42	42
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39	39	39	39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	362846
5°	364579
10°	367078
15°	370755
20°	364579
25°	347809
30°	315989
35°	254882
40°	176860
45°	116105
50°	77793
55°	55374
60°	47291
65°	54374
70°	58279
75°	56140
80°	50575
85°	46561



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	6.3
10°-20°	815.6	18.5
20°-30°	1165.3	26.4
30°-40°	1041.0	23.6
40°-50°	533.9	12.1
50°-60°	242.7	5.5
60°-70°	181.0	4.1
70°-80°	123.2	2.8
80°-90°	36.5	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°	2261.6	51.2
0°-40°	3302.6	74.7
0°-60°	4079.2	92.3
0°-90°	4419.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4419.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2942	
5°	2944	281
15°	2903	816
25°	2556	1165
35°	1693	1041
45°	666	534
55°	258	243
65°	186	181
75°	118	123
85°	33	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2941.7
2.5°	2930.8
5°	2944.5
7.5°	2944.5
10°	2930.8
12.5°	2917.2
15°	2903.4
17.5°	2862.4
20°	2777.5
22.5°	2673.4
25°	2555.6
27.5°	2407.6
30°	2218.6
32.5°	1977.7
35°	1692.7
37.5°	1388.7
40°	1098.4
42.5°	857.4
45°	665.6
47.5°	520.4
50°	405.4
52.5°	317.7
55°	257.5
57.5°	216.4
60°	191.7
62.5°	186.3
65°	186.3
67.5°	180.8
70°	161.6
72.5°	139.7
75°	117.8
77.5°	93.1
80°	71.2
82.5°	52.0
85°	32.9
87.5°	13.7
90°	0.0



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— 0°-180°







(END OF REPORT)