

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: P580940

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580940
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-HM44560935-41WDWB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4454.7 lumens
Efficiency: N/A
Efficacy: 92.8 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

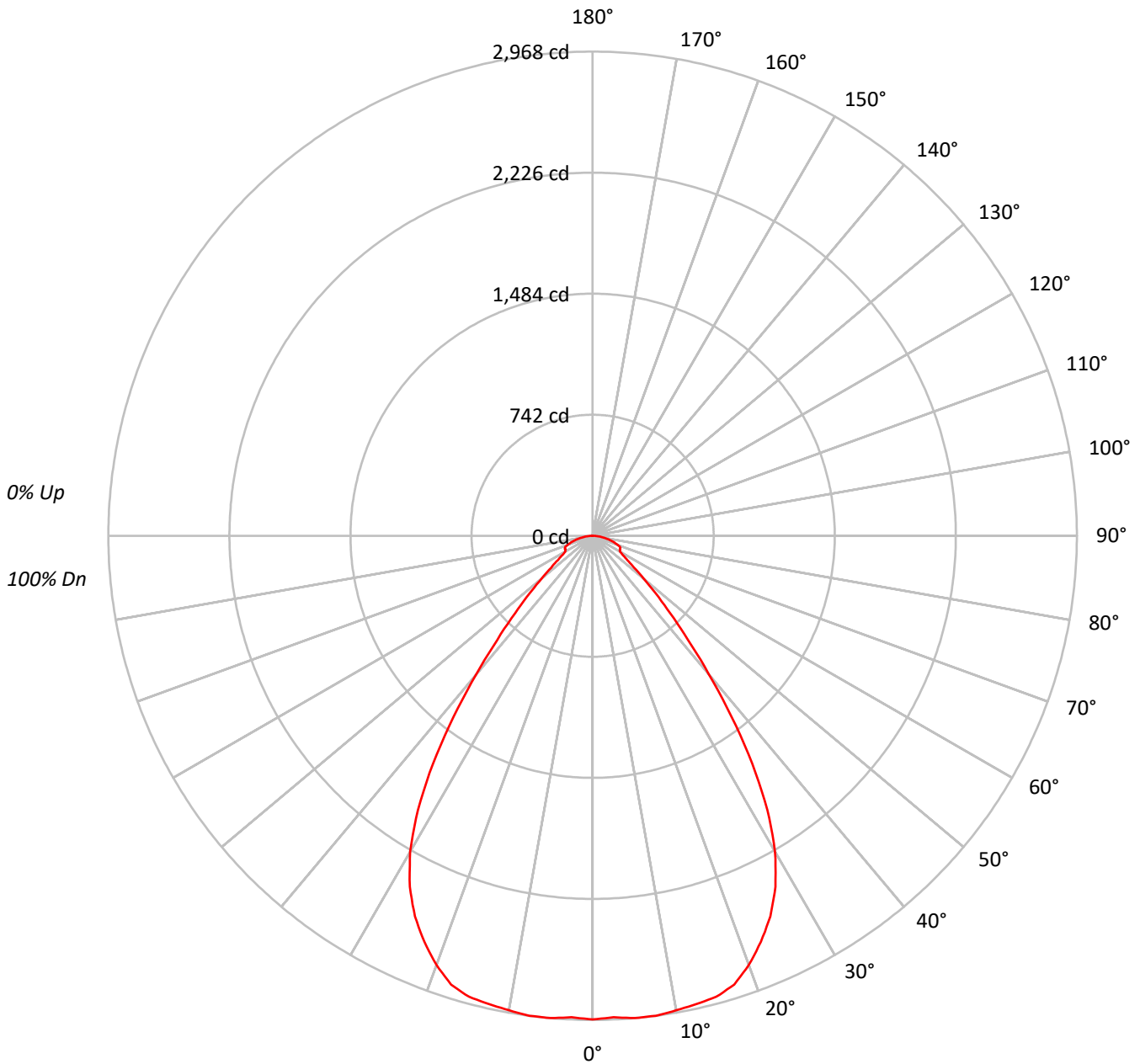
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	70	89	81	74	69	78	73	69	76	72	68	74	70	67	65																			
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59																			
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54																			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49																			
8	71	60	53	48	70	59	53	48	58	52	48	57	51	47	56	51	47	46																			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42																			
10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	365707
5°	367439
10°	369971
15°	373666
20°	367441
25°	350545
30°	318482
35°	256900
40°	178245
45°	117012
50°	78407
55°	55805
60°	47685
65°	54782
70°	58712
75°	56569
80°	50930
85°	46844



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.8	6.3
10°-20°	822.0	18.5
20°-30°	1174.5	26.4
30°-40°	1049.2	23.6
40°-50°	538.1	12.1
50°-60°	244.6	5.5
60°-70°	182.4	4.1
70°-80°	124.1	2.8
80°-90°	36.8	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°	2279.3	51.2
0°-40°	3328.6	74.7
0°-60°	4111.3	92.3
0°-90°	4454.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4454.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2965	
5°	2968	283
15°	2926	822
25°	2576	1174
35°	1706	1049
45°	671	538
55°	260	245
65°	188	182
75°	119	124
85°	33	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	2964.9
2.5°	2953.9
5°	2967.6
7.5°	2967.6
10°	2953.9
12.5°	2940.1
15°	2926.2
17.5°	2884.8
20°	2799.3
22.5°	2694.3
25°	2575.7
27.5°	2426.5
30°	2236.1
32.5°	1993.2
35°	1706.1
37.5°	1399.7
40°	1107.0
42.5°	864.1
45°	670.8
47.5°	524.5
50°	408.6
52.5°	320.3
55°	259.5
57.5°	218.1
60°	193.3
62.5°	187.7
65°	187.7
67.5°	182.2
70°	162.8
72.5°	140.8
75°	118.7
77.5°	93.9
80°	71.7
82.5°	52.5
85°	33.1
87.5°	13.8
90°	0.0



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— 0°-180°







(END OF REPORT)