

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: P580867

Luminaire Tested: **HC450D010-HM44560835-41WDBB**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580867
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560835-41WDBB
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4078.2 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.03
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

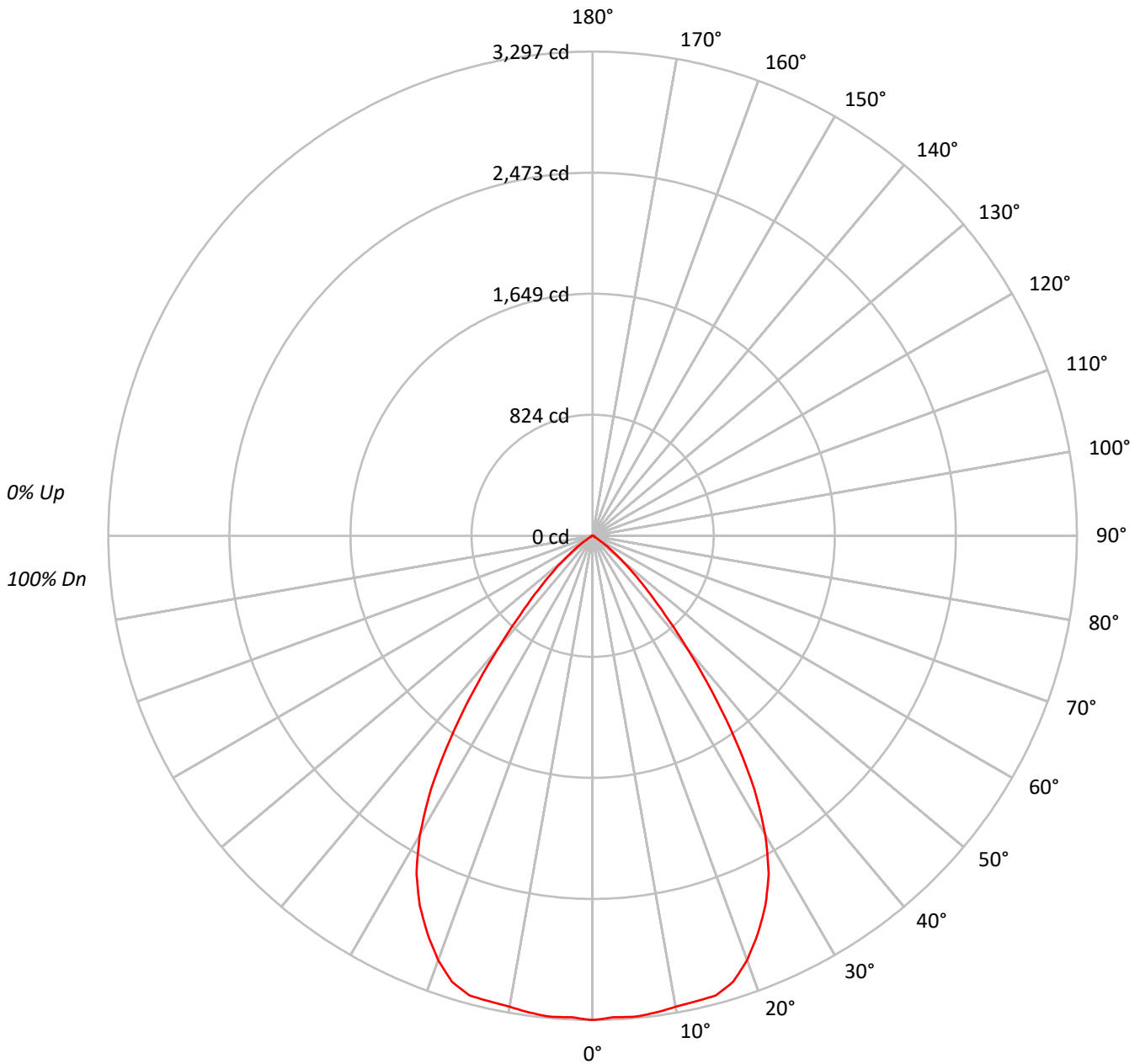
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	77	93	86	80	76	84	79	75	82	78	74	80	76	73	72	72	72	72
5	90	81	75	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56
8	76	65	59	55	74	65	59	54	64	58	54	63	58	54	62	57	54	52	52	52	52
9	72	61	55	51	71	61	55	51	60	54	50	59	54	50	58	53	50	49	49	49	49
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45	45	45	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	406720
5°	407110
10°	407884
15°	413853
20°	403525
25°	378608
30°	334889
35°	254656
40°	160437
45°	92103
50°	48856
55°	20279
60°	5427
65°	4582
70°	3390
75°	3002
80°	2202
85°	4387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.7	7.7
10°-20°	907.5	22.3
20°-30°	1266.5	31.1
30°-40°	1042.2	25.6
40°-50°	429.3	10.5
50°-60°	96.7	2.4
60°-70°	15.5	0.4
70°-80°	5.8	0.1
80°-90°	2.1	0.1
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°	2486.7	61.0
0°-40°	3528.8	86.5
0°-60°	4054.8	99.4
0°-90°	4078.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4078.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3297	
5°	3288	313
15°	3241	907
25°	2782	1266
35°	1691	1042
45°	528	429
55°	94	97
65°	16	16
75°	6	6
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3297.4
2.5°	3281.7
5°	3288.0
7.5°	3275.4
10°	3256.6
12.5°	3247.2
15°	3240.9
17.5°	3184.3
20°	3074.2
22.5°	2936.0
25°	2781.9
27.5°	2596.5
30°	2351.3
32.5°	2049.5
35°	1691.2
37.5°	1329.6
40°	996.4
42.5°	726.1
45°	528.0
47.5°	377.2
50°	254.6
52.5°	160.3
55°	94.3
57.5°	47.2
60°	22.0
62.5°	18.8
65°	15.7
67.5°	12.6
70°	9.4
72.5°	6.3
75°	6.3
77.5°	3.1
80°	3.1
82.5°	3.1
85°	3.1
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)