

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: P580923

Luminaire Tested: **HC450D010-HM44560930-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560930-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3898.0 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

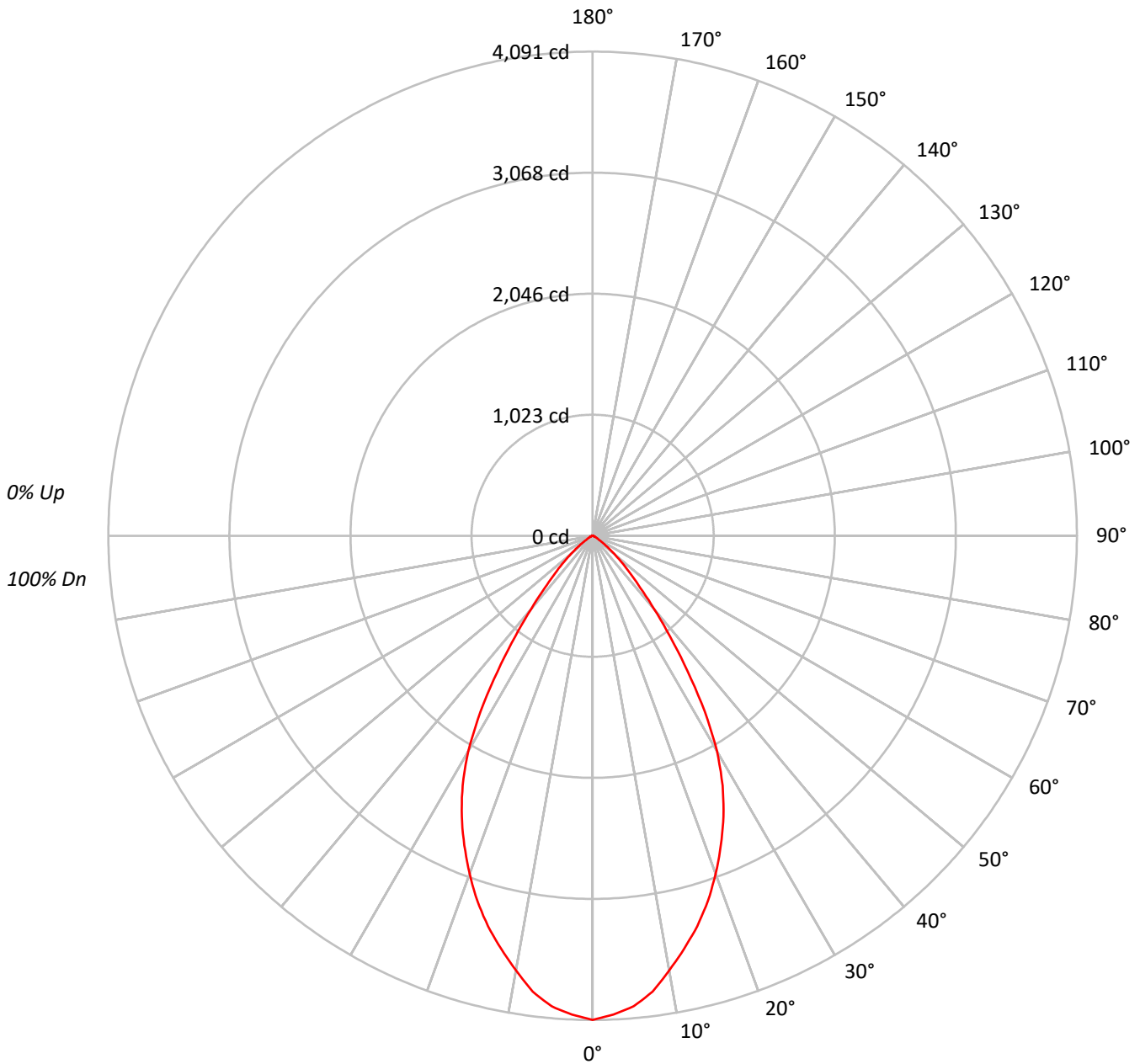
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	504607
5°	494054
10°	466889
15°	436072
20°	398825
25°	356138
30°	299083
35°	210402
40°	129779
45°	77712
50°	45805
55°	22816
60°	11767
65°	7763
70°	4796
75°	3813
80°	1918
85°	3821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.6	9.6
10°-20°	954.6	24.5
20°-30°	1190.4	30.5
30°-40°	876.9	22.5
40°-50°	360.7	9.3
50°-60°	105.4	2.7
60°-70°	27.1	0.7
70°-80°	8.4	0.2
80°-90°	1.8	0.0
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°	2517.6	64.6
0°-40°	3394.5	87.1
0°-60°	3860.6	99.0
0°-90°	3898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3898.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4091	
5°	3990	373
15°	3415	955
25°	2617	1190
35°	1397	877
45°	446	361
55°	106	105
65°	27	27
75°	8	8
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4091.0
2.5°	4048.5
5°	3990.2
7.5°	3884.1
10°	3727.7
12.5°	3573.9
15°	3414.9
17.5°	3237.3
20°	3038.4
22.5°	2831.6
25°	2616.8
27.5°	2378.3
30°	2099.9
32.5°	1763.1
35°	1397.3
37.5°	1073.8
40°	806.0
42.5°	596.6
45°	445.5
47.5°	328.8
50°	238.7
52.5°	164.4
55°	106.1
57.5°	63.7
60°	47.7
62.5°	34.4
65°	26.6
67.5°	18.6
70°	13.3
72.5°	10.6
75°	8.0
77.5°	5.3
80°	2.7
82.5°	2.7
85°	2.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)