

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: P580851

Luminaire Tested: **HC450D010-HM44560830-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580851
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-HM44560830-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4597.6 lumens
Efficiency: N/A
Efficacy: 95.8 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

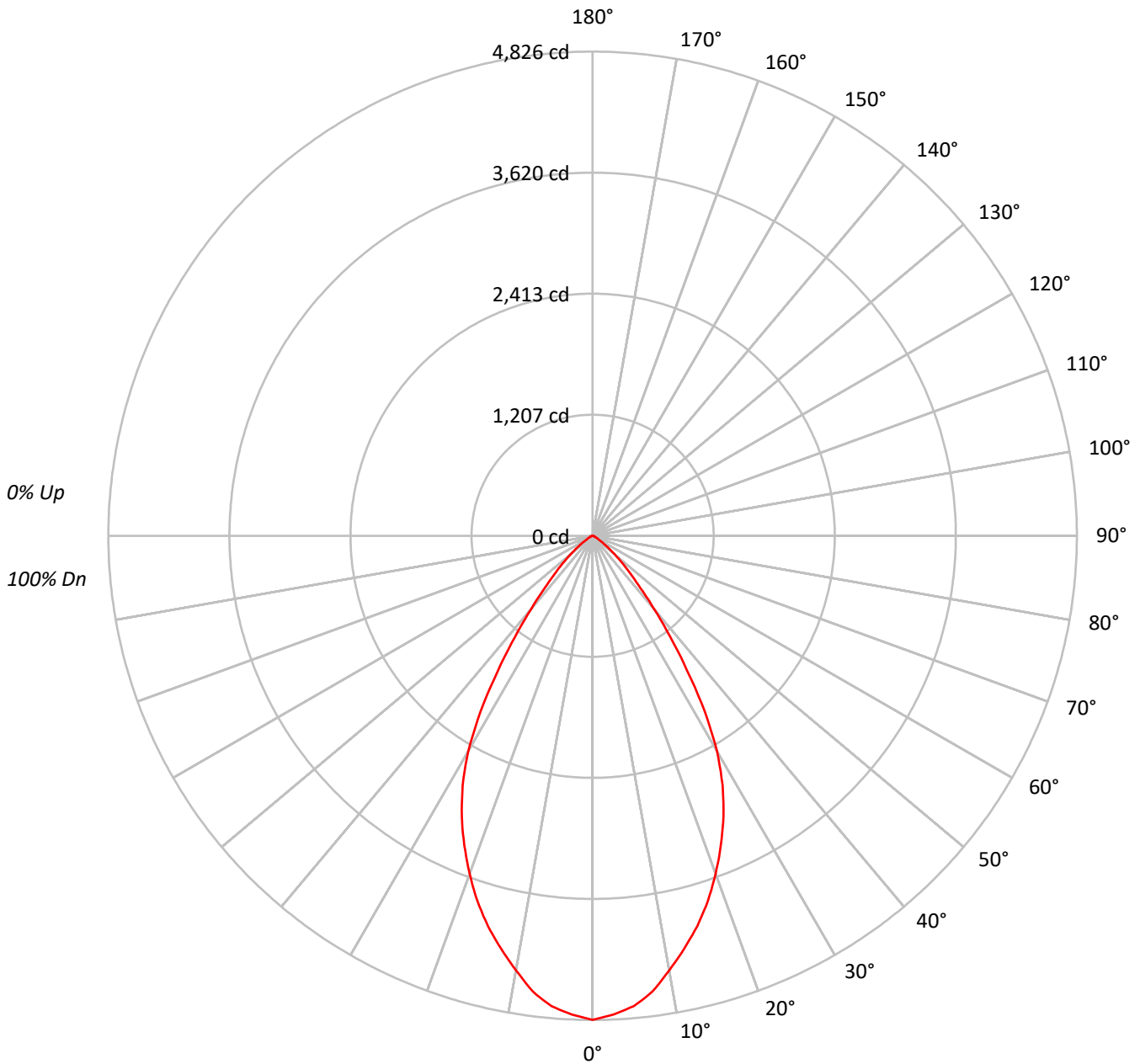
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580851

CATALOG NUMBER: HC450D010-HM44560830-41MDH

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°	595204
5°	582756
10°	550730
15°	514363
20°	470429
25°	420077
30°	352778
35°	248166
40°	153078
45°	91649
50°	54018
55°	26902
60°	13889
65°	9135
70°	5626
75°	4480
80°	2202
85°	4387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.5	9.6
10°-20°	1126.0	24.5
20°-30°	1404.2	30.5
30°-40°	1034.3	22.5
40°-50°	425.4	9.3
50°-60°	124.3	2.7
60°-70°	31.9	0.7
70°-80°	9.9	0.2
80°-90°	2.1	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°	2969.7	64.6
0°-40°	4004.0	87.1
0°-60°	4553.7	99.0
0°-90°	4597.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4597.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4826	
5°	4707	440
15°	4028	1126
25°	3087	1404
35°	1648	1034
45°	525	425
55°	125	124
65°	31	32
75°	9	10
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4825.5
2.5°	4775.5
5°	4706.6
7.5°	4581.5
10°	4397.1
12.5°	4215.7
15°	4028.0
17.5°	3818.5
20°	3583.9
22.5°	3340.0
25°	3086.6
27.5°	2805.2
30°	2476.9
32.5°	2079.7
35°	1648.1
37.5°	1266.6
40°	950.7
42.5°	703.6
45°	525.4
47.5°	387.8
50°	281.5
52.5°	193.9
55°	125.1
57.5°	75.1
60°	56.3
62.5°	40.6
65°	31.3
67.5°	21.9
70°	15.6
72.5°	12.5
75°	9.4
77.5°	6.3
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)