

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: P580905

Luminaire Tested: **HC450D010-HM44560927-41MDH**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580905
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-HM44560927-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3588.3 lumens
Efficiency: N/A
Efficacy: 74.8 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

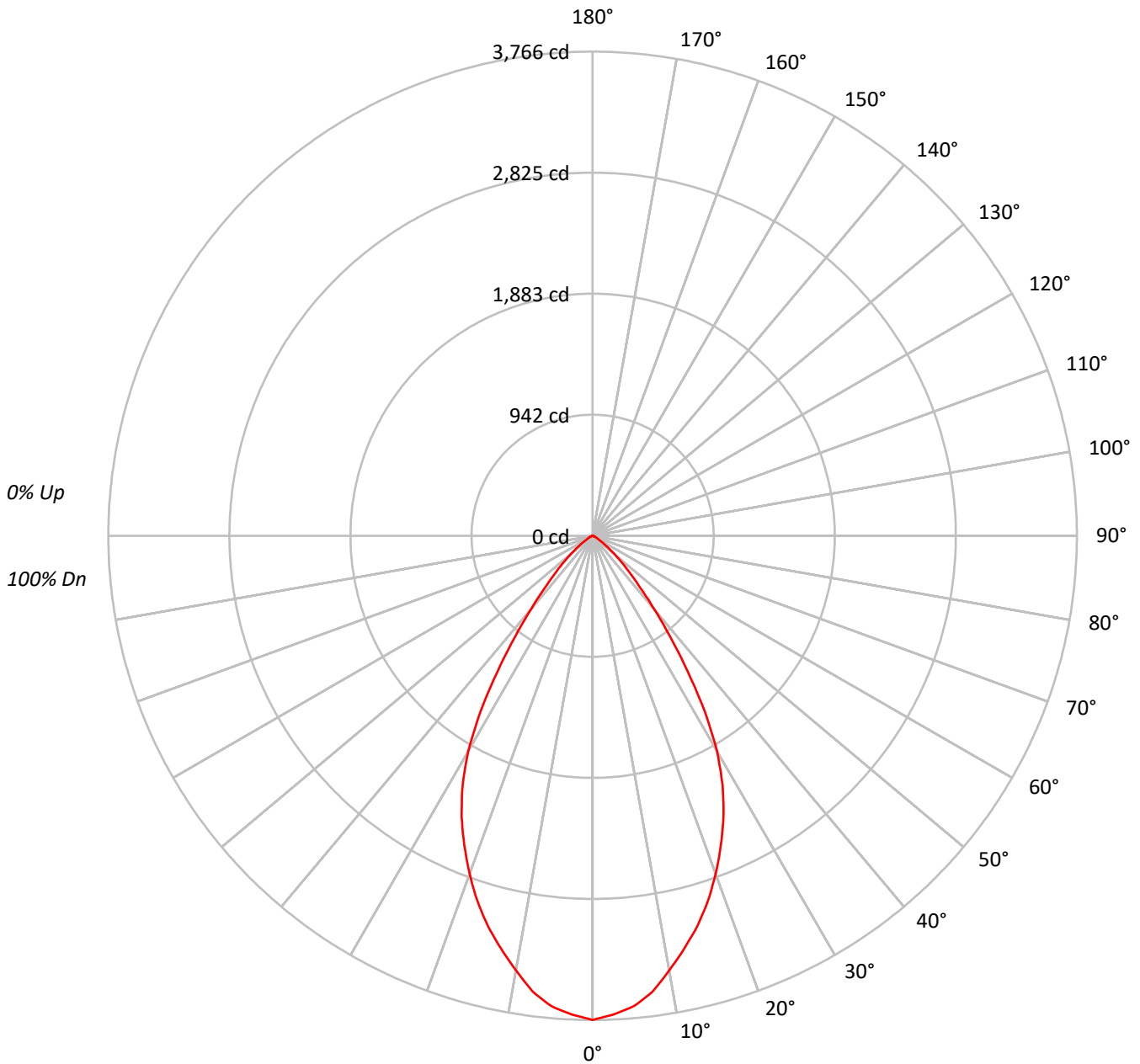
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580905

CATALOG NUMBER: HC450D010-HM44560927-41MDH

Luminous Intensity Polar Plot





TEST NUMBER: P580905

CATALOG NUMBER: HC450D010-HM44560927-41MDH

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°	464532
5°	454829
10°	429828
15°	401453
20°	367165
25°	327871
30°	275340
35°	193687
40°	119474
45°	71519
50°	42139
55°	20989
60°	10830
65°	7121
70°	4400
75°	3479
80°	1705
85°	3397



TEST NUMBER: P580905

CATALOG NUMBER: HC450D010-HM44560927-41MDH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.0	9.6
10°-20°	878.8	24.5
20°-30°	1095.9	30.5
30°-40°	807.3	22.5
40°-50°	332.0	9.3
50°-60°	97.0	2.7
60°-70°	24.9	0.7
70°-80°	7.7	0.2
80°-90°	1.6	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°	2317.8	64.6
0°-40°	3125.0	87.1
0°-60°	3554.0	99.0
0°-90°	3588.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3588.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3766	
5°	3673	343
15°	3144	879
25°	2409	1096
35°	1286	807
45°	410	332
55°	98	97
65°	24	25
75°	7	8
85°	2	2
90°	0	



TEST NUMBER: P580905

CATALOG NUMBER: HC450D010-HM44560927-41MDH

CANDELA DISTRIBUTION (FULL):

	0°
0°	3766.1
2.5°	3727.2
5°	3673.4
7.5°	3575.8
10°	3431.8
12.5°	3290.2
15°	3143.8
17.5°	2980.3
20°	2797.2
22.5°	2606.8
25°	2409.1
27.5°	2189.4
30°	1933.2
32.5°	1623.1
35°	1286.3
37.5°	988.6
40°	742.0
42.5°	549.2
45°	410.0
47.5°	302.7
50°	219.6
52.5°	151.3
55°	97.6
57.5°	58.6
60°	43.9
62.5°	31.8
65°	24.4
67.5°	17.0
70°	12.2
72.5°	9.7
75°	7.3
77.5°	4.9
80°	2.4
82.5°	2.4
85°	2.4
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)