

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: P580928

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-1)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC450D010-HM44560930-41NDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" NARROW DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3924.4 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.84 / 0.85
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

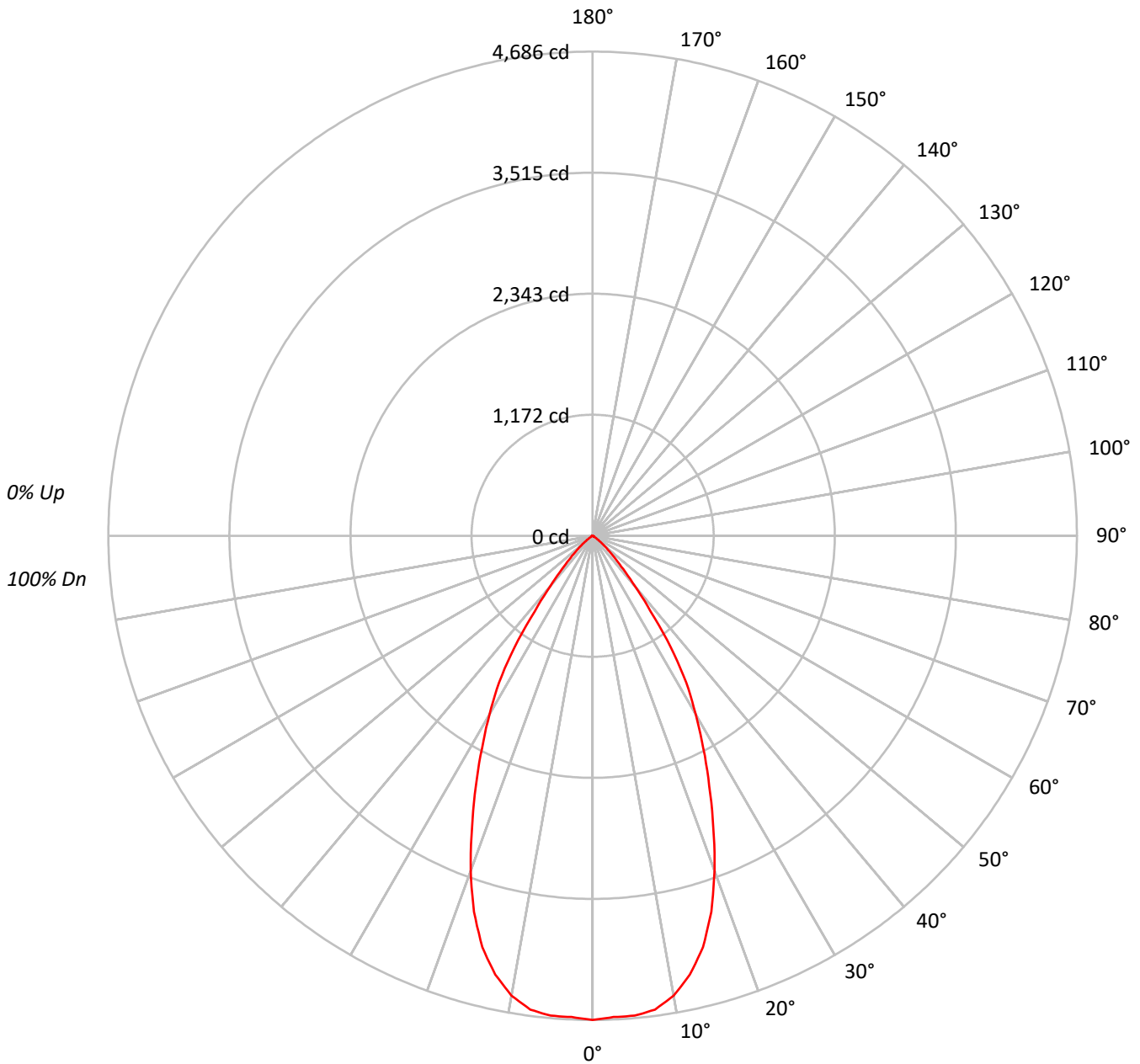
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P580928

CATALOG NUMBER: HC450D010-HM44560930-41NDC

Luminous Intensity Polar Plot





TEST NUMBER: P580928

CATALOG NUMBER: HC450D010-HM44560930-41NDC

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			
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87			
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81			
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76			
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62			
8	80	70	64	60	78	70	64	60	69	64	60	68	63	60	67	62	59	58			
9	76	66	61	57	75	66	60	57	65	60	56	64	59	56	63	59	56	55			
10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	578022
5°	577259
10°	566010
15°	526315
20°	452630
25°	363610
30°	283886
35°	198762
40°	101988
45°	51790
50°	25944
55°	9699
60°	3922
65°	3094
70°	1911
75°	1287
80°	1918
85°	0



TEST NUMBER: P580928

CATALOG NUMBER: HC450D010-HM44560930-41NDC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	440.8	11.2
10°-20°	1137.7	29.0
20°-30°	1225.6	31.2
30°-40°	805.3	20.5
40°-50°	250.4	6.4
50°-60°	49.2	1.3
60°-70°	10.5	0.3
70°-80°	3.9	0.1
80°-90°	1.1	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°	2804.1	71.5
0°-40°	3609.4	92.0
0°-60°	3909.0	99.6
0°-90°	3924.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3924.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4686	
5°	4662	441
15°	4122	1138
25°	2672	1226
35°	1320	805
45°	297	250
55°	45	49
65°	11	10
75°	3	4
85°	0	1
90°	0	



TEST NUMBER: P580928

CATALOG NUMBER: HC450D010-HM44560930-41NDC

CANDELA DISTRIBUTION (FULL):

0°	
0°	4686.2
2.5°	4662.2
5°	4662.2
7.5°	4625.2
10°	4519.1
12.5°	4349.5
15°	4121.6
17.5°	3816.7
20°	3448.3
22.5°	3050.8
25°	2671.7
27.5°	2319.2
30°	1993.2
32.5°	1685.7
35°	1320.0
37.5°	919.7
40°	633.4
42.5°	437.4
45°	296.9
47.5°	201.5
50°	135.2
52.5°	84.8
55°	45.1
57.5°	18.6
60°	15.9
62.5°	13.3
65°	10.6
67.5°	8.0
70°	5.3
72.5°	5.3
75°	2.7
77.5°	2.7
80°	2.7
82.5°	2.7
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)