

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: P581380

Luminaire Tested: **HC460D010-HM44560935-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560935-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4346.4 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 1.04 / 1.04 / 1.01
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

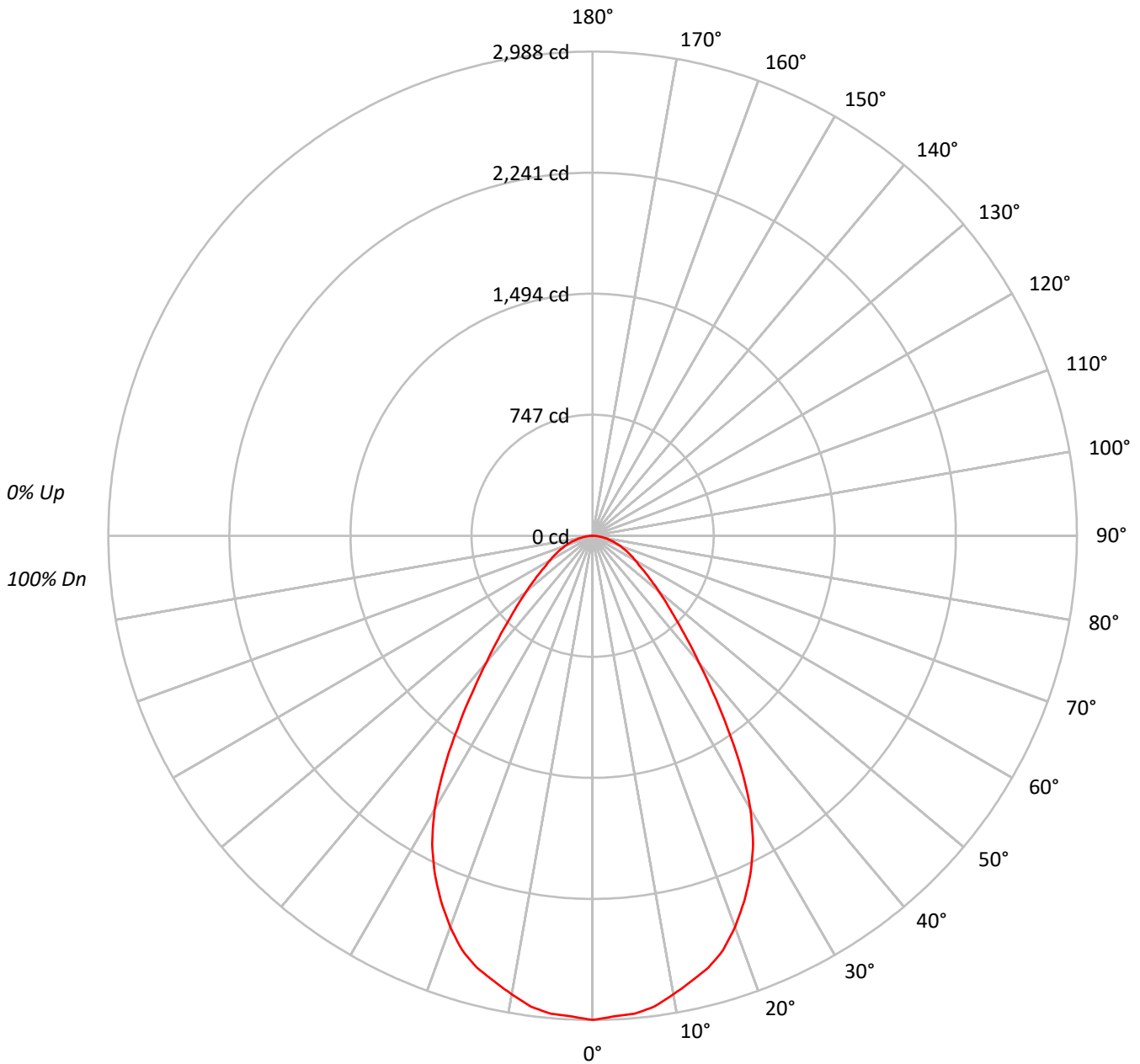
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	108	104	101	109	105	102	100	101	99	97	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	60	55	77	67	60	55	65	59	54	64	58	54	62	57	54	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	368495
5°	366547
10°	359839
15°	352264
20°	337198
25°	313540
30°	277520
35°	219030
40°	163898
45°	126083
50°	102297
55°	84836
60°	75043
65°	69434
70°	64085
75°	58857
80°	53416
85°	42598



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.9	6.4
10°-20°	773.6	17.8
20°-30°	1050.4	24.2
30°-40°	909.9	20.9
40°-50°	571.3	13.1
50°-60°	359.4	8.3
60°-70°	236.1	5.4
70°-80°	130.2	3.0
80°-90°	35.6	0.8
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°	2103.9	48.4
0°-40°	3013.9	69.3
0°-60°	3944.5	90.8
0°-90°	4346.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4346.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2988	
5°	2960	280
15°	2759	774
25°	2304	1050
35°	1455	910
45°	723	571
55°	394	359
65°	238	236
75°	124	130
85°	30	36
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2987.5
2.5°	2969.5
5°	2960.4
7.5°	2930.3
10°	2873.0
12.5°	2815.8
15°	2758.6
17.5°	2680.4
20°	2568.9
22.5°	2442.3
25°	2303.8
27.5°	2144.2
30°	1948.5
32.5°	1710.6
35°	1454.6
37.5°	1219.7
40°	1017.9
42.5°	858.3
45°	722.8
47.5°	620.4
50°	533.1
52.5°	457.7
55°	394.5
57.5°	340.3
60°	304.2
62.5°	271.1
65°	237.9
67.5°	204.7
70°	177.7
72.5°	147.5
75°	123.5
77.5°	96.3
80°	75.2
82.5°	51.2
85°	30.1
87.5°	12.1
90°	0.0



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— 0°-180°







(END OF REPORT)