

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: P581344

Luminaire Tested: **HC460D010-HM44560927-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581344
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-HM44560927-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3844.1 lumens
Efficiency: N/A
Efficacy: 69.9 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

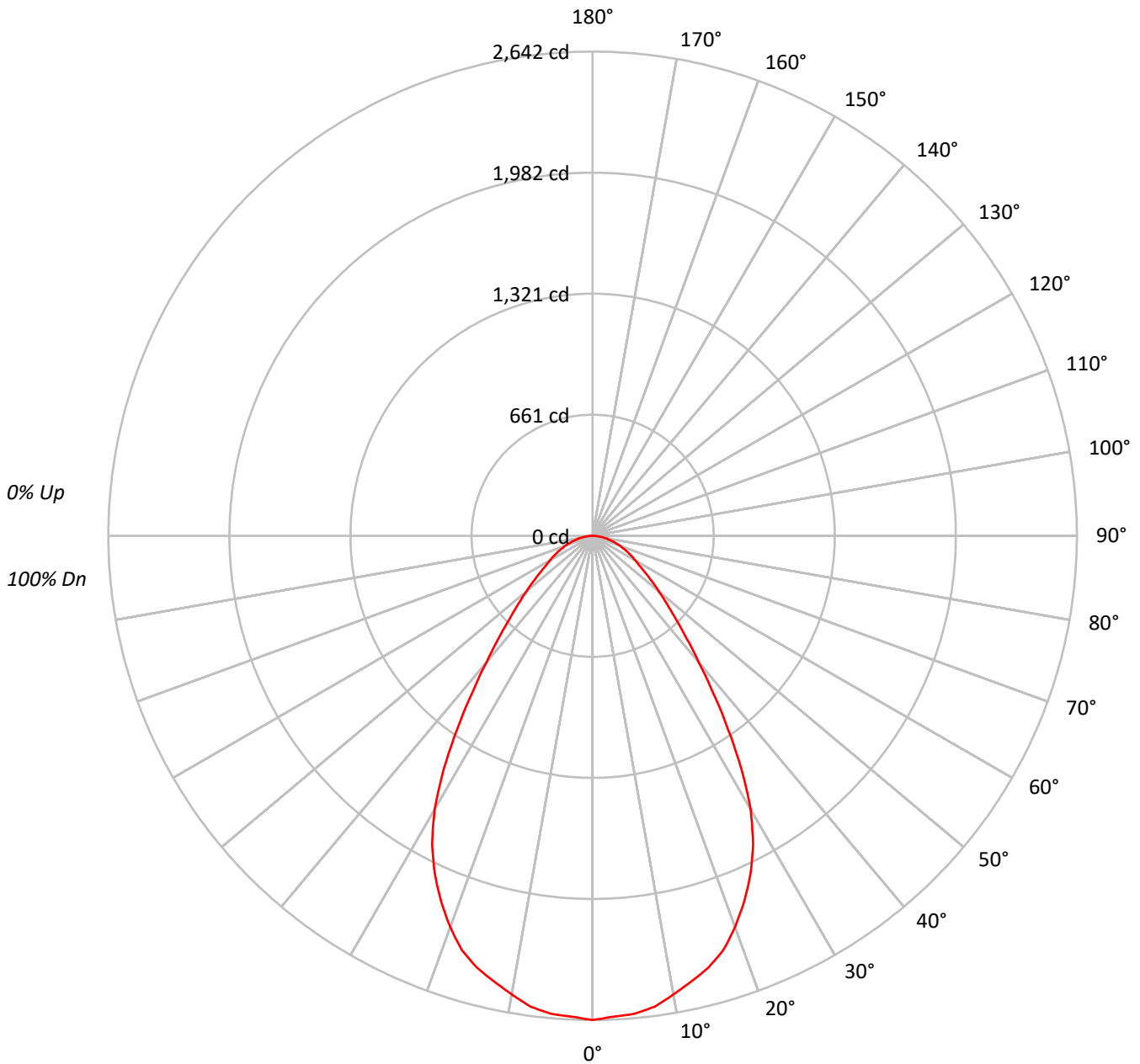
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P581344

CATALOG NUMBER: HC460D010-HM44560927-41MDW

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	325904
5°	324177
10°	318256
15°	311555
20°	298227
25°	277311
30°	245431
35°	193718
40°	144963
45°	111500
50°	90458
55°	75030
60°	66360
65°	61407
70°	56656
75°	52042
80°	47307
85°	37645



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	6.4
10°-20°	684.2	17.8
20°-30°	929.0	24.2
30°-40°	804.8	20.9
40°-50°	505.2	13.1
50°-60°	317.8	8.3
60°-70°	208.8	5.4
70°-80°	115.2	3.0
80°-90°	31.5	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°	1860.8	48.4
0°-40°	2665.5	69.3
0°-60°	3488.6	90.8
0°-90°	3844.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3844.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2642	
5°	2618	248
15°	2440	684
25°	2038	929
35°	1286	805
45°	639	505
55°	349	318
65°	210	209
75°	109	115
85°	27	31
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2642.2
2.5°	2626.2
5°	2618.2
7.5°	2591.6
10°	2541.0
12.5°	2490.4
15°	2439.8
17.5°	2370.5
20°	2272.0
22.5°	2160.1
25°	2037.6
27.5°	1896.4
30°	1723.2
32.5°	1512.9
35°	1286.5
37.5°	1078.7
40°	900.3
42.5°	759.1
45°	639.2
47.5°	548.7
50°	471.4
52.5°	404.8
55°	348.9
57.5°	301.0
60°	269.0
62.5°	239.7
65°	210.4
67.5°	181.2
70°	157.1
72.5°	130.5
75°	109.2
77.5°	85.3
80°	66.6
82.5°	45.2
85°	26.6
87.5°	10.6
90°	0.0



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— 0°-180°







(END OF REPORT)