

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: P581398

Luminaire Tested: **HC460D010-HM44560940-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581398
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-HM44560940-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4312.6 lumens
Efficiency: N/A
Efficacy: 78.4 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

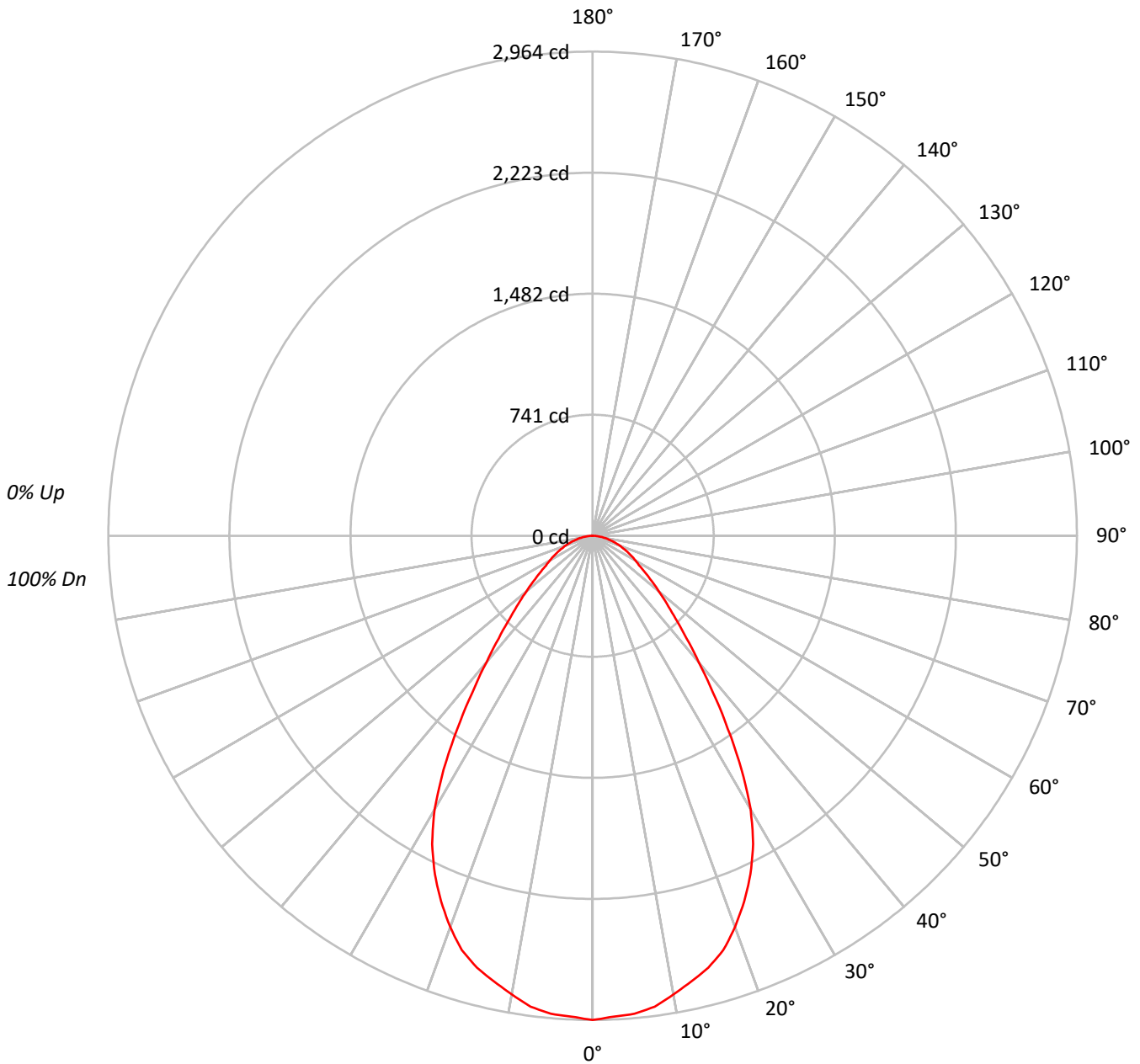
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	365621
5°	363687
10°	357046
15°	349519
20°	334560
25°	311104
30°	275355
35°	217328
40°	162626
45°	125106
50°	101492
55°	84169
60°	74476
65°	68908
70°	63581
75°	58380
80°	53061
85°	42315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.7	6.4
10°-20°	767.6	17.8
20°-30°	1042.2	24.2
30°-40°	902.8	20.9
40°-50°	566.8	13.1
50°-60°	356.6	8.3
60°-70°	234.3	5.4
70°-80°	129.2	3.0
80°-90°	35.4	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°	2087.5	48.4
0°-40°	2990.3	69.3
0°-60°	3913.7	90.8
0°-90°	4312.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4312.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2964	
5°	2937	278
15°	2737	768
25°	2286	1042
35°	1443	903
45°	717	567
55°	391	357
65°	236	234
75°	122	129
85°	30	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2964.2
2.5°	2946.2
5°	2937.3
7.5°	2907.4
10°	2850.7
12.5°	2793.8
15°	2737.1
17.5°	2659.4
20°	2548.8
22.5°	2423.3
25°	2285.9
27.5°	2127.5
30°	1933.3
32.5°	1697.2
35°	1443.3
37.5°	1210.1
40°	1010.0
42.5°	851.6
45°	717.2
47.5°	615.5
50°	528.9
52.5°	454.1
55°	391.4
57.5°	337.6
60°	301.9
62.5°	268.9
65°	236.1
67.5°	203.2
70°	176.3
72.5°	146.4
75°	122.5
77.5°	95.7
80°	74.7
82.5°	50.8
85°	29.9
87.5°	12.0
90°	0.0



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— 0°-180°







(END OF REPORT)