

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: P581290

Luminaire Tested: **HC460D010-HM44560830-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581290
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-HM44560830-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4925.4 lumens
Efficiency: N/A
Efficacy: 89.6 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

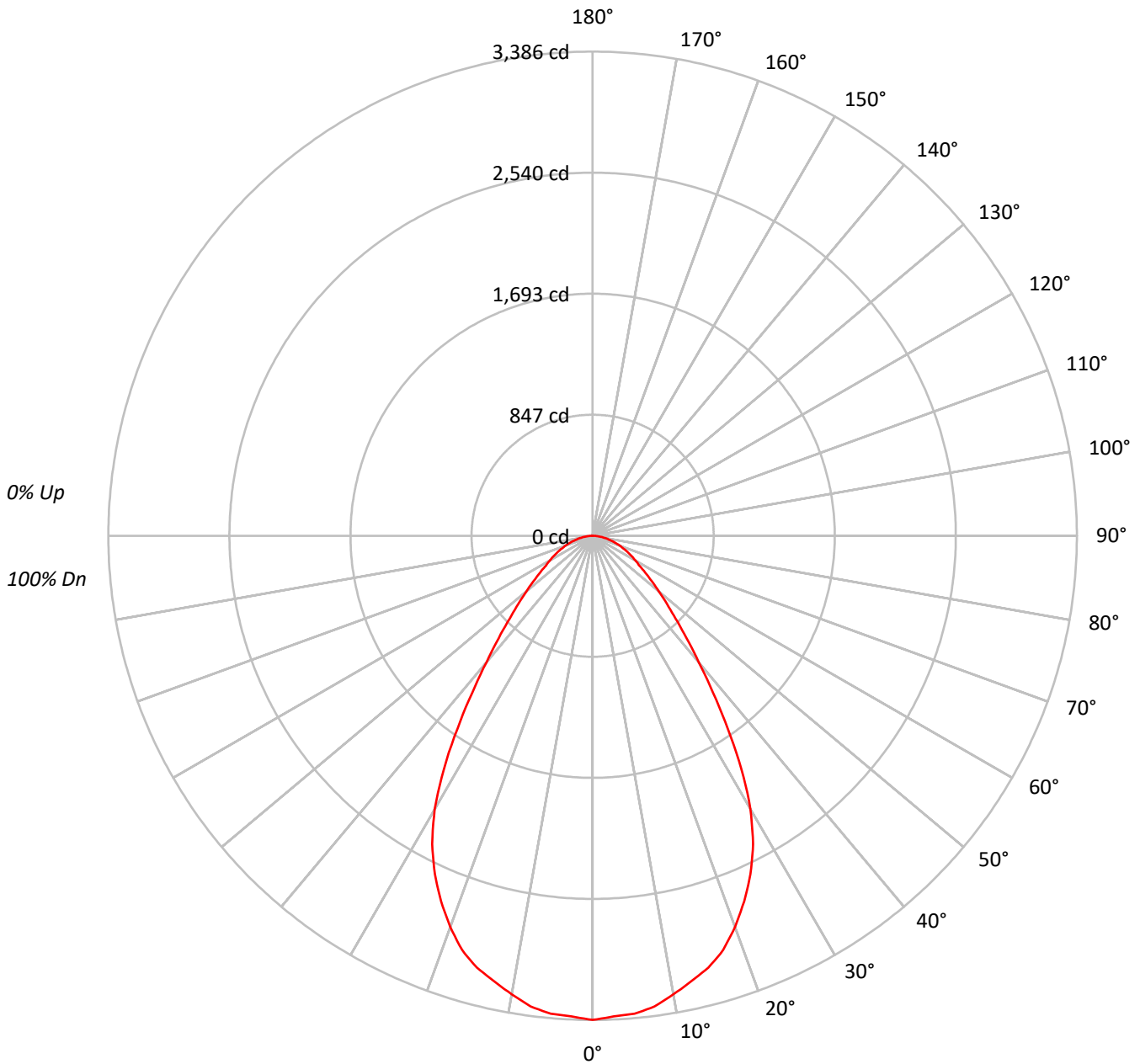
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	417587
5°	415368
10°	407771
15°	399180
20°	382103
25°	355322
30°	314494
35°	248196
40°	185732
45°	142864
50°	115903
55°	96126
60°	85034
65°	78686
70°	72597
75°	66672
80°	60590
85°	48401



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.2	6.4
10°-20°	876.7	17.8
20°-30°	1190.4	24.2
30°-40°	1031.1	20.9
40°-50°	647.4	13.1
50°-60°	407.3	8.3
60°-70°	267.5	5.4
70°-80°	147.6	3.0
80°-90°	40.4	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°	2384.2	48.4
0°-40°	3415.3	69.3
0°-60°	4469.9	90.8
0°-90°	4925.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4925.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3386	
5°	3355	317
15°	3126	877
25°	2611	1190
35°	1648	1031
45°	819	647
55°	447	407
65°	270	268
75°	140	148
85°	34	40
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3385.5
2.5°	3364.9
5°	3354.7
7.5°	3320.6
10°	3255.7
12.5°	3190.9
15°	3126.0
17.5°	3037.4
20°	2911.0
22.5°	2767.7
25°	2610.8
27.5°	2429.8
30°	2208.1
32.5°	1938.5
35°	1648.3
37.5°	1382.1
40°	1153.5
42.5°	972.7
45°	819.0
47.5°	703.0
50°	604.0
52.5°	518.8
55°	447.0
57.5°	385.7
60°	344.7
62.5°	307.2
65°	269.6
67.5°	232.0
70°	201.3
72.5°	167.2
75°	139.9
77.5°	109.2
80°	85.3
82.5°	58.0
85°	34.2
87.5°	13.6
90°	0.0



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— 0°-180°







(END OF REPORT)