

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: P592953

Luminaire Tested: **HC460D010-HM44560850-41MDW**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P592953
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-HM44560850-41MDW
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5645.0 lumens
Efficiency: N/A
Efficacy: 102.6 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

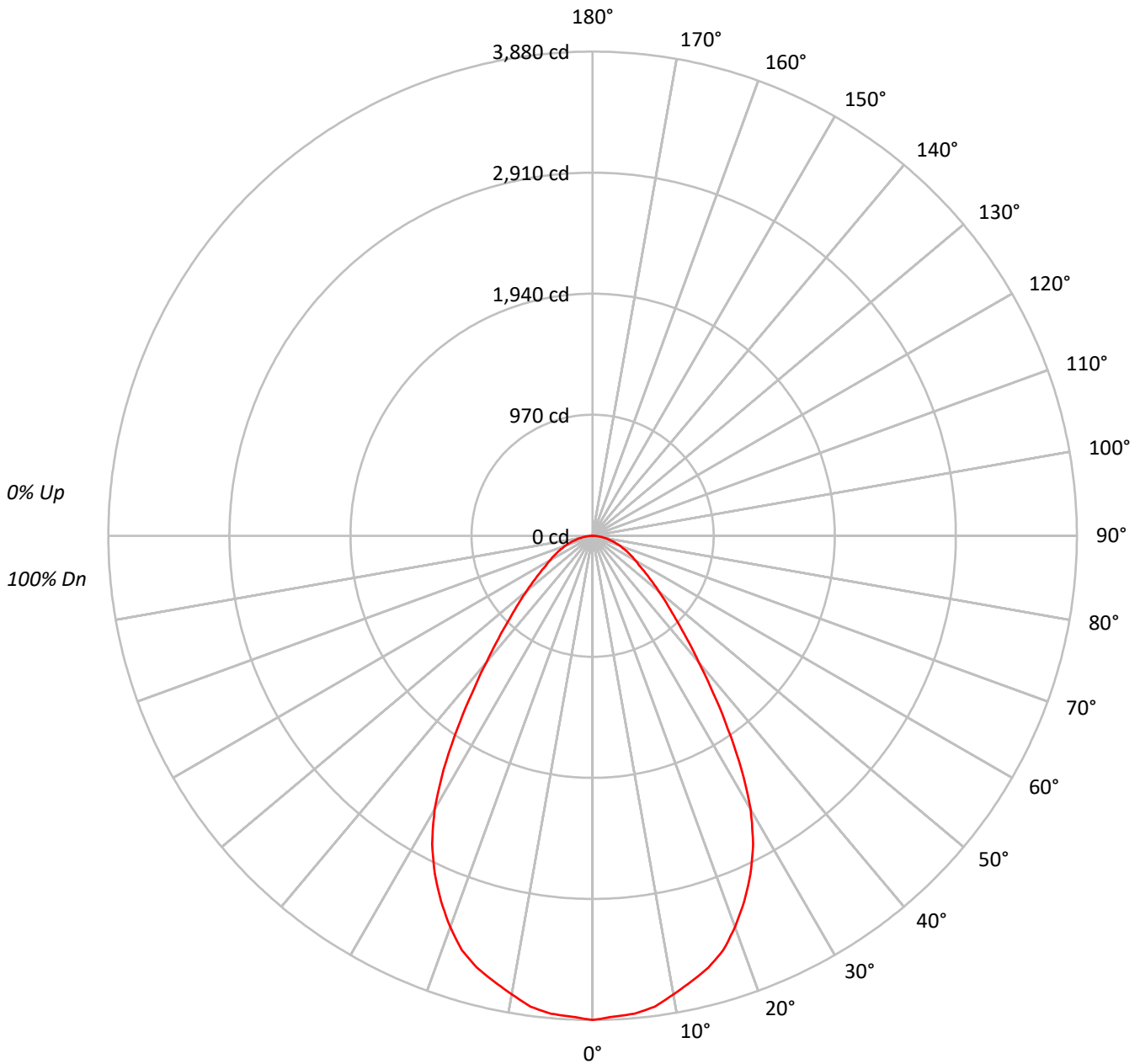
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	478581
5°	476051
10°	467352
15°	457512
20°	437941
25°	407215
30°	360441
35°	284470
40°	212864
45°	163744
50°	132847
55°	110168
60°	97443
65°	90185
70°	83235
75°	76442
80°	69469
85°	55336



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	363.5	6.4
10°-20°	1004.7	17.8
20°-30°	1364.3	24.2
30°-40°	1181.8	20.9
40°-50°	741.9	13.1
50°-60°	466.8	8.3
60°-70°	306.6	5.4
70°-80°	169.1	3.0
80°-90°	46.3	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°	2732.5	48.4
0°-40°	3914.3	69.3
0°-60°	5123.0	90.8
0°-90°	5645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5645.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3880	
5°	3845	363
15°	3583	1005
25°	2992	1364
35°	1889	1182
45°	939	742
55°	512	467
65°	309	307
75°	160	169
85°	39	46
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3880.0
2.5°	3856.5
5°	3844.8
7.5°	3805.8
10°	3731.4
12.5°	3657.1
15°	3582.8
17.5°	3481.1
20°	3336.4
22.5°	3172.0
25°	2992.1
27.5°	2784.8
30°	2530.7
32.5°	2221.6
35°	1889.2
37.5°	1584.1
40°	1322.0
42.5°	1114.7
45°	938.7
47.5°	805.7
50°	692.3
52.5°	594.6
55°	512.3
57.5°	442.0
60°	395.0
62.5°	352.0
65°	309.0
67.5°	266.0
70°	230.8
72.5°	191.6
75°	160.4
77.5°	125.2
80°	97.8
82.5°	66.4
85°	39.1
87.5°	15.7
90°	0.0



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— 0°-180°







(END OF REPORT)