

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: P581373

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC460D010-HM44560935-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4424.7 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Spacing Criteria (0/90/45): 0.9 / 0.9 / 0.91
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

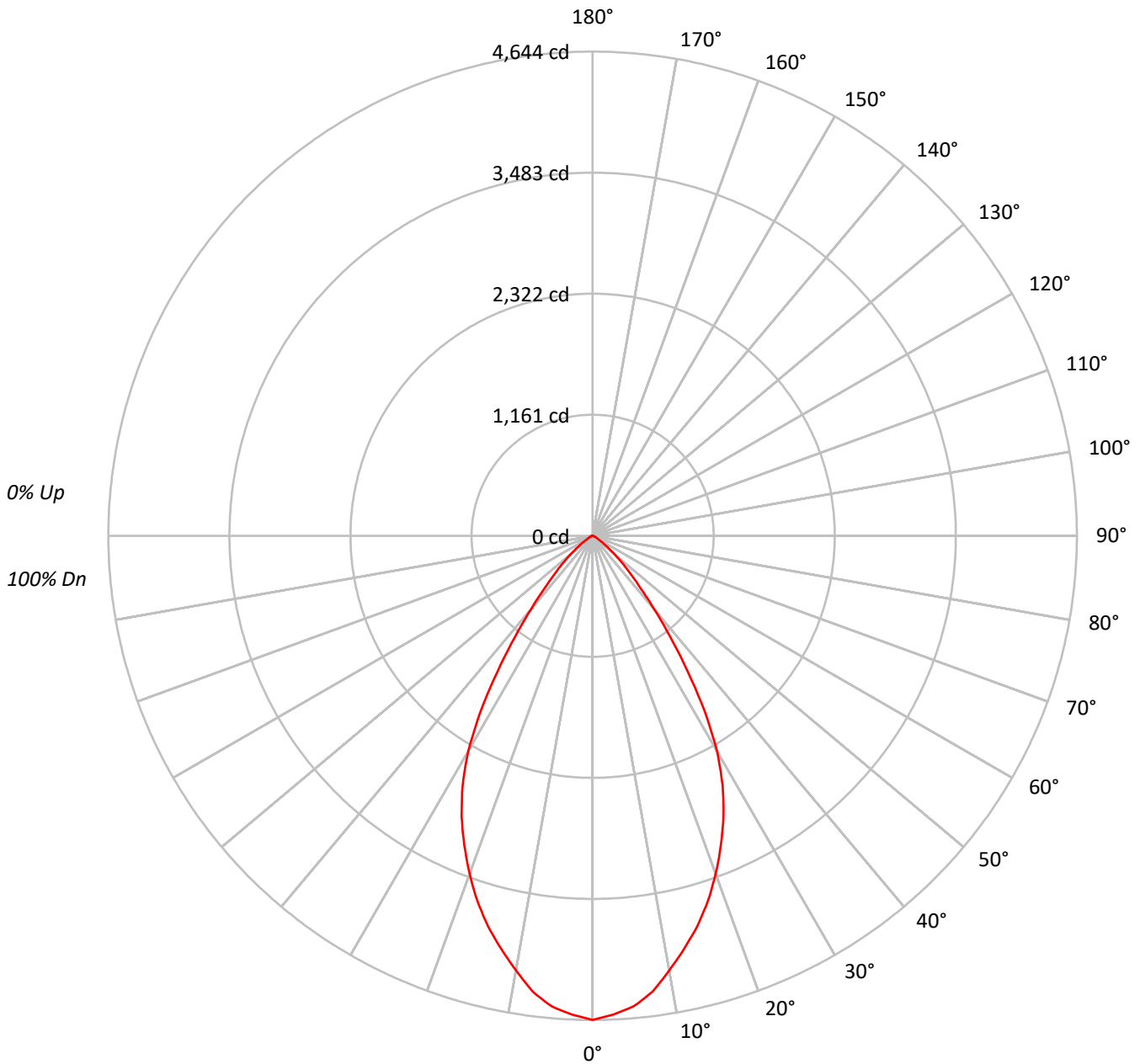
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	84	91	86	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	82	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	52	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	572829
5°	560853
10°	530014
15°	495029
20°	452748
25°	404289
30°	339504
35°	238846
40°	147314
45°	88213
50°	51964
55°	25892
60°	13346
65°	8785
70°	5410
75°	4289
80°	2131
85°	4246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.0	9.6
10°-20°	1083.6	24.5
20°-30°	1351.4	30.5
30°-40°	995.4	22.5
40°-50°	409.4	9.3
50°-60°	119.6	2.7
60°-70°	30.7	0.7
70°-80°	9.5	0.2
80°-90°	2.0	0.0
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°	2858.0	64.6
0°-40°	3853.5	87.1
0°-60°	4382.4	99.0
0°-90°	4424.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4424.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4644	
5°	4530	423
15°	3877	1084
25°	2971	1351
35°	1586	995
45°	506	409
55°	120	120
65°	30	31
75°	9	10
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4644.1
2.5°	4595.9
5°	4529.7
7.5°	4409.2
10°	4231.7
12.5°	4057.2
15°	3876.6
17.5°	3674.9
20°	3449.2
22.5°	3214.5
25°	2970.6
27.5°	2699.8
30°	2383.7
32.5°	2001.5
35°	1586.2
37.5°	1218.9
40°	914.9
42.5°	677.1
45°	505.7
47.5°	373.3
50°	270.8
52.5°	186.6
55°	120.4
57.5°	72.2
60°	54.1
62.5°	39.1
65°	30.1
67.5°	21.1
70°	15.0
72.5°	12.1
75°	9.0
77.5°	6.0
80°	3.0
82.5°	3.0
85°	3.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)