

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: P581391

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

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P581391
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-HM44560940-41MDH
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4390.1 lumens
Efficiency: N/A
Efficacy: 79.8 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

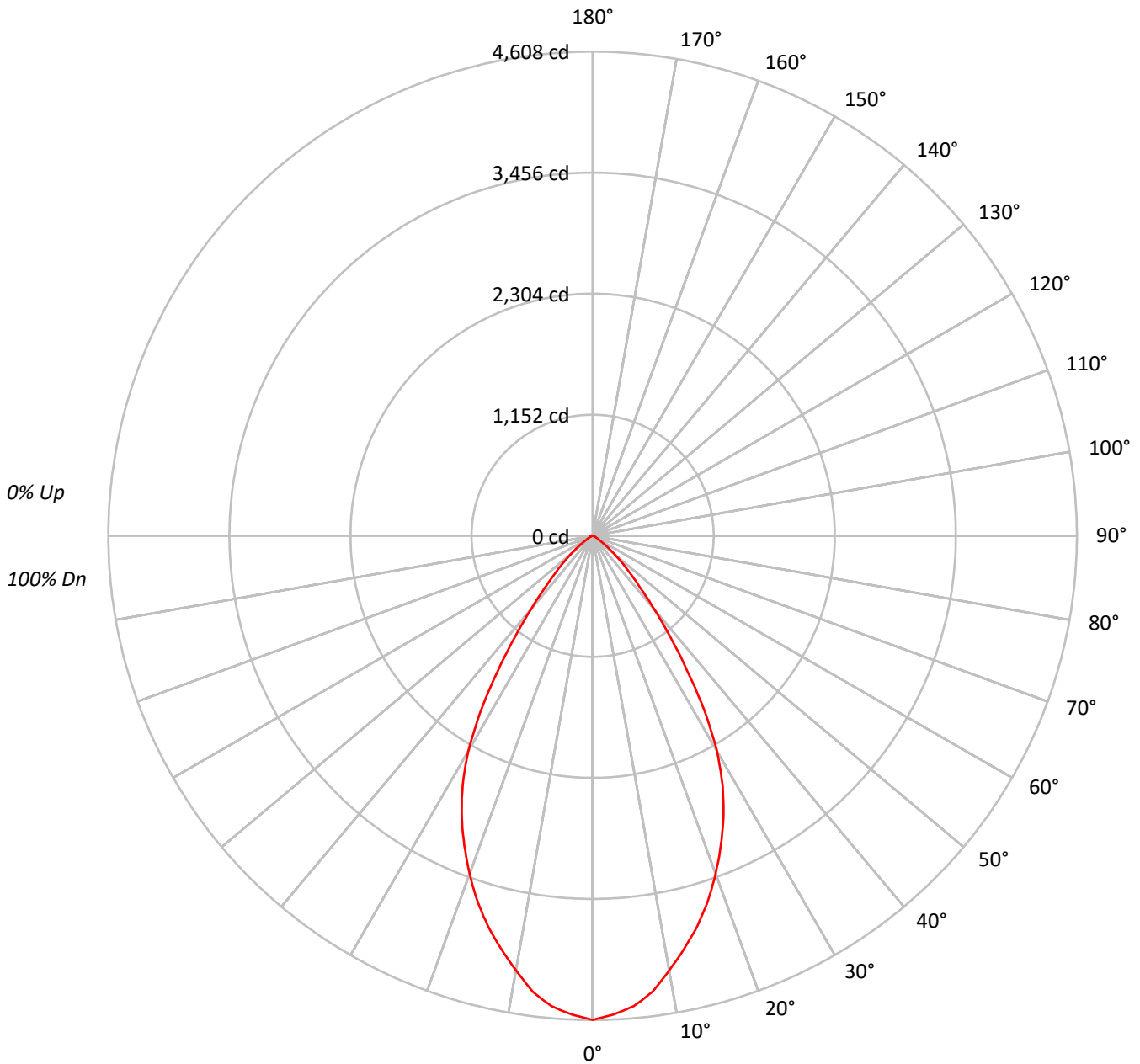
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	568352
5°	556470
10°	525868
15°	491173
20°	449204
25°	401145
30°	336855
35°	236978
40°	146171
45°	87515
50°	51580
55°	25698
60°	13272
65°	8727
70°	5374
75°	4241
80°	2060
85°	4104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.7	9.6
10°-20°	1075.2	24.5
20°-30°	1340.8	30.5
30°-40°	987.7	22.5
40°-50°	406.2	9.3
50°-60°	118.7	2.7
60°-70°	30.5	0.7
70°-80°	9.4	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°	2835.7	64.6
0°-40°	3823.4	87.1
0°-60°	4348.2	99.0
0°-90°	4390.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4390.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4608	
5°	4494	420
15°	3846	1075
25°	2948	1341
35°	1574	988
45°	502	406
55°	120	119
65°	30	31
75°	9	9
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4607.8
2.5°	4560.1
5°	4494.3
7.5°	4374.8
10°	4198.6
12.5°	4025.5
15°	3846.4
17.5°	3646.3
20°	3422.2
22.5°	3189.3
25°	2947.5
27.5°	2678.7
30°	2365.1
32.5°	1985.8
35°	1573.8
37.5°	1209.4
40°	907.8
42.5°	671.9
45°	501.7
47.5°	370.3
50°	268.8
52.5°	185.1
55°	119.5
57.5°	71.6
60°	53.8
62.5°	38.8
65°	29.9
67.5°	20.9
70°	14.9
72.5°	12.0
75°	8.9
77.5°	6.0
80°	2.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)