

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: P593432

Luminaire Tested: **HC660D010-HM64560950-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC660D010-HM64560950-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5180.6 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

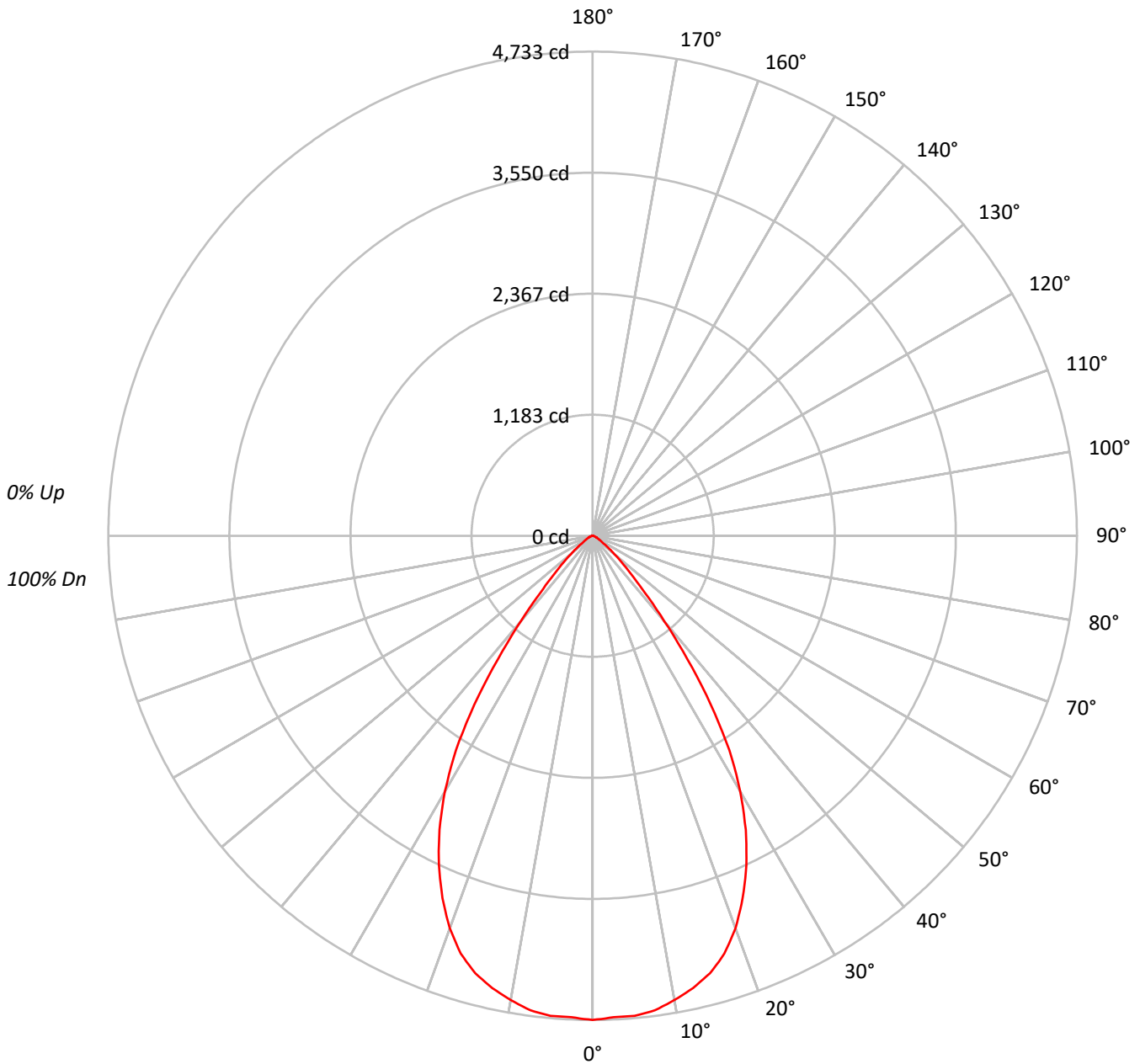
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	259464
5°	259244
10°	256542
15°	251381
20°	238132
25°	215045
30°	182674
35°	134877
40°	77996
45°	41400
50°	23402
55°	12234
60°	8026
65°	5695
70°	4103
75°	3092
80°	2305
85°	2327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.4	8.6
10°-20°	1238.9	23.9
20°-30°	1616.9	31.2
30°-40°	1235.6	23.9
40°-50°	447.4	8.6
50°-60°	130.0	2.5
60°-70°	46.5	0.9
70°-80°	15.9	0.3
80°-90°	3.0	0.1
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°	3302.3	63.7
0°-40°	4537.9	87.6
0°-60°	5115.2	98.7
0°-90°	5180.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5180.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4733	
5°	4711	446
15°	4429	1239
25°	3555	1617
35°	2015	1236
45°	534	447
55°	128	130
65°	44	46
75°	15	16
85°	4	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4733.0
2.5°	4711.0
5°	4711.0
7.5°	4678.1
10°	4608.6
12.5°	4528.2
15°	4429.3
17.5°	4283.1
20°	4081.9
22.5°	3833.1
25°	3555.2
27.5°	3240.6
30°	2885.8
32.5°	2487.2
35°	2015.4
37.5°	1521.5
40°	1089.9
42.5°	753.5
45°	534.0
47.5°	384.0
50°	274.4
52.5°	193.9
55°	128.0
57.5°	91.5
60°	73.2
62.5°	58.6
65°	43.9
67.5°	36.6
70°	25.6
72.5°	18.3
75°	14.6
77.5°	11.0
80°	7.3
82.5°	3.7
85°	3.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)