

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: P583208

Luminaire Tested: **HC660D010-HM64560927-61MDH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583208
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-HM64560927-61MDH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4154.9 lumens
Efficiency: N/A
Efficacy: 75.5 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

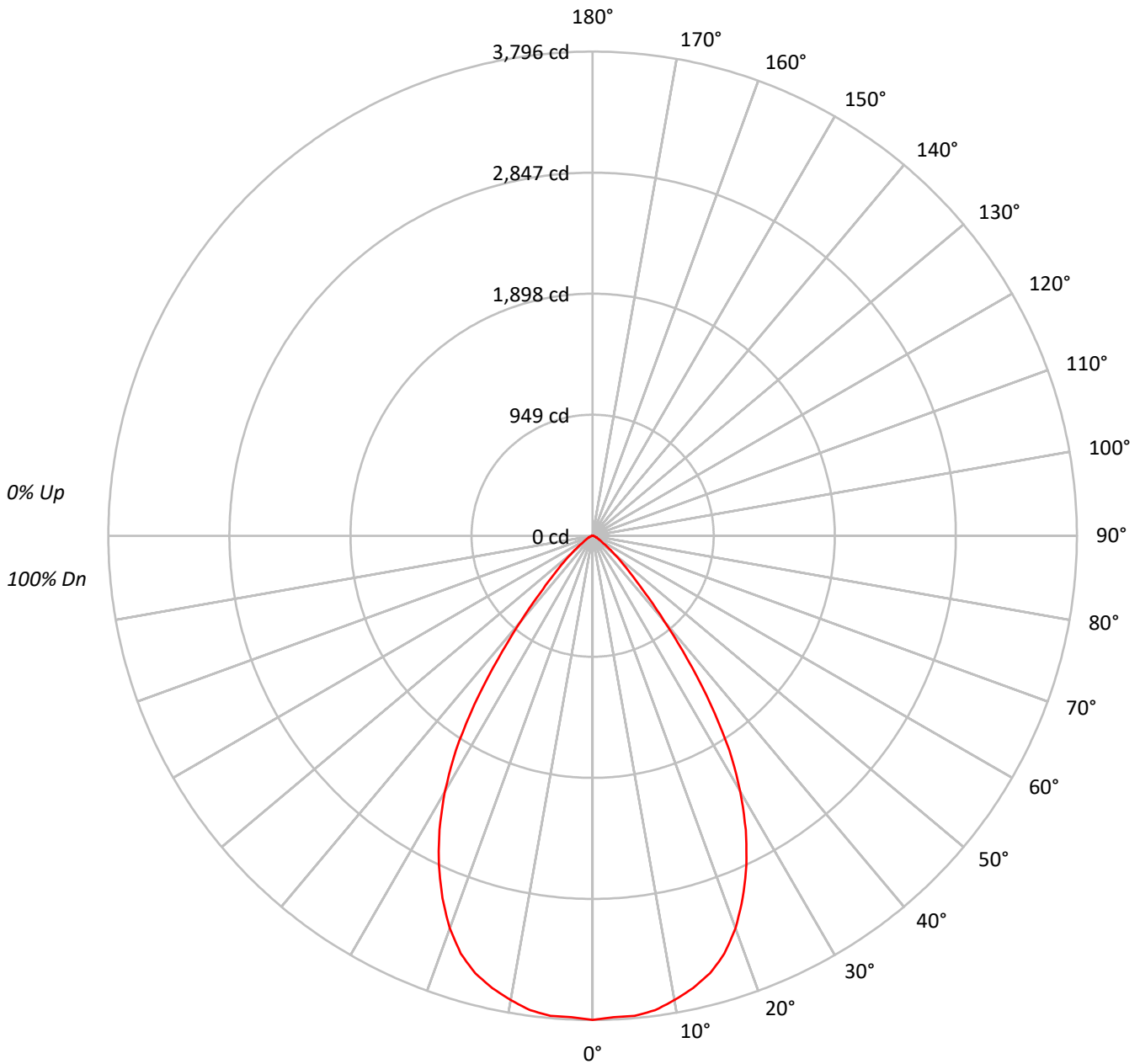
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	208092
5°	207918
10°	205747
15°	201607
20°	190982
25°	172468
30°	146510
35°	108174
40°	62553
45°	33205
50°	18763
55°	9816
60°	6436
65°	4566
70°	3286
75°	2499
80°	1863
85°	1824



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.1	8.6
10°-20°	993.6	23.9
20°-30°	1296.8	31.2
30°-40°	991.0	23.9
40°-50°	358.8	8.6
50°-60°	104.2	2.5
60°-70°	37.3	0.9
70°-80°	12.7	0.3
80°-90°	2.4	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°	2648.5	63.7
0°-40°	3639.5	87.6
0°-60°	4102.5	98.7
0°-90°	4154.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4154.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3796	
5°	3778	358
15°	3552	994
25°	2851	1297
35°	1616	991
45°	428	359
55°	103	104
65°	35	37
75°	12	13
85°	3	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3795.9
2.5°	3778.3
5°	3778.3
7.5°	3751.9
10°	3696.1
12.5°	3631.6
15°	3552.3
17.5°	3435.0
20°	3273.7
22.5°	3074.3
25°	2851.3
27.5°	2599.1
30°	2314.5
32.5°	1994.8
35°	1616.4
37.5°	1220.3
40°	874.1
42.5°	604.3
45°	428.3
47.5°	308.0
50°	220.0
52.5°	155.5
55°	102.7
57.5°	73.3
60°	58.7
62.5°	46.9
65°	35.2
67.5°	29.4
70°	20.5
72.5°	14.6
75°	11.8
77.5°	8.8
80°	5.9
82.5°	2.9
85°	2.9
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)