

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: P593358

Luminaire Tested: **HC650D010-HM64560950-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560950-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4419.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

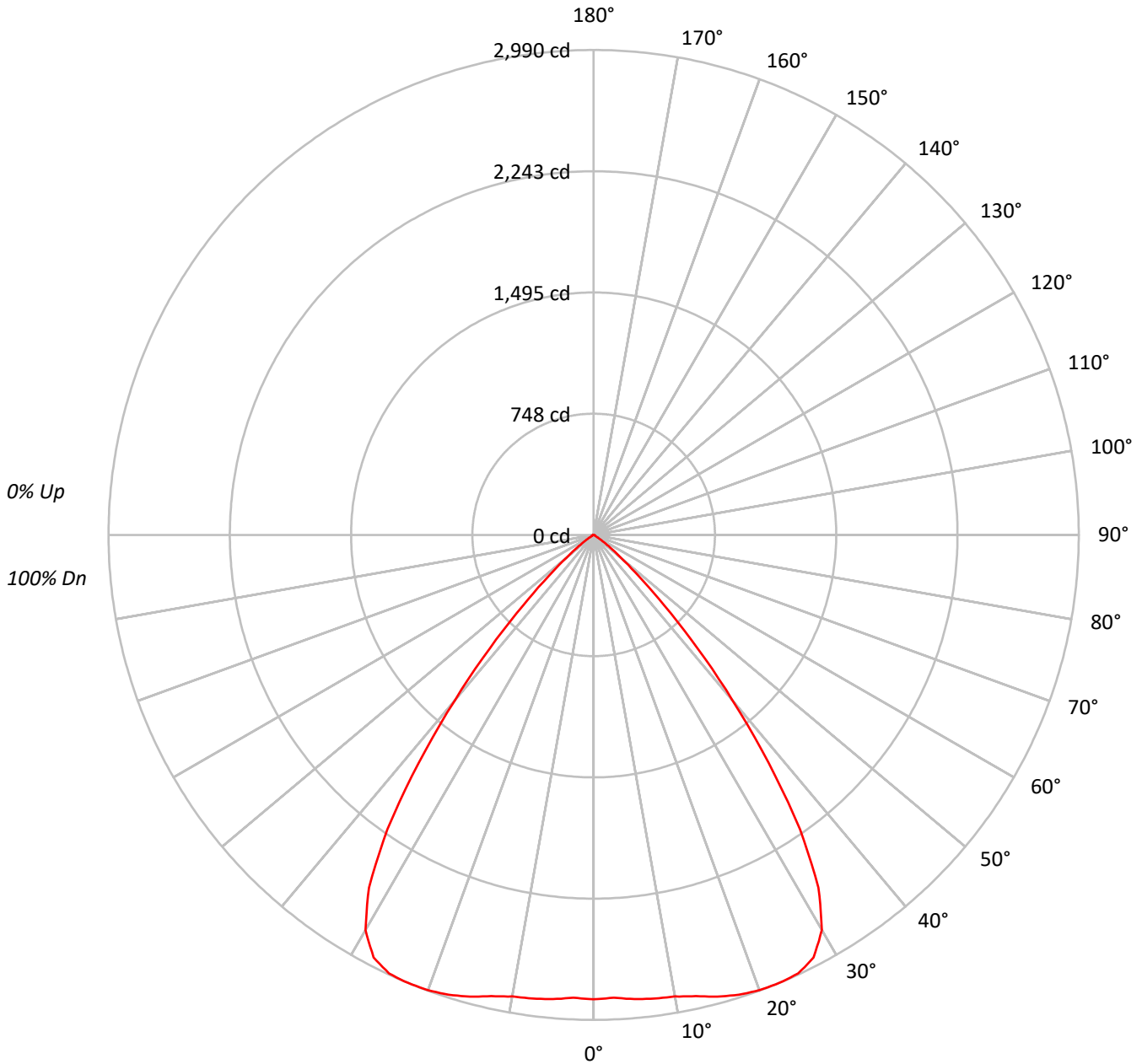
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	104	100	95	92	96	93	90	93	91	88	90	88	86	85			85
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77
4	95	86	80	75	93	85	79	75	83	78	74	81	77	73	79	75	72	71			71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65			65
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59			59
7	79	68	62	57	77	68	61	57	66	61	57	65	60	56	64	59	56	54			54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	52	50			50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	156945
5°	158094
10°	160858
15°	167231
20°	174239
25°	180458
30°	178046
35°	148342
40°	95128
45°	47501
50°	18848
55°	6404
60°	1842
65°	1297
70°	1074
75°	1419
80°	1042
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.7	6.2
10°-20°	835.7	18.9
20°-30°	1364.6	30.9
30°-40°	1337.7	30.3
40°-50°	512.9	11.6
50°-60°	75.2	1.7
60°-70°	11.1	0.3
70°-80°	5.7	0.1
80°-90°	1.3	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°	2475.0	56.0
0°-40°	3812.7	86.3
0°-60°	4400.9	99.6
0°-90°	4419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4419.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2863	
5°	2873	275
15°	2947	836
25°	2983	1365
35°	2217	1338
45°	613	513
55°	67	75
65°	10	11
75°	7	6
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2862.9
2.5°	2856.1
5°	2872.9
7.5°	2882.9
10°	2889.7
12.5°	2913.1
15°	2946.6
17.5°	2973.4
20°	2986.7
22.5°	2990.1
25°	2983.4
27.5°	2936.6
30°	2812.7
32.5°	2578.2
35°	2216.6
37.5°	1771.3
40°	1329.3
42.5°	947.6
45°	612.7
47.5°	375.0
50°	221.0
52.5°	127.2
55°	67.0
57.5°	30.1
60°	16.8
62.5°	13.3
65°	10.0
67.5°	10.0
70°	6.7
72.5°	6.7
75°	6.7
77.5°	3.3
80°	3.3
82.5°	3.3
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)