

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: P582824

Luminaire Tested: **HC650D010-HM64560935-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582824
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560935-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5105.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

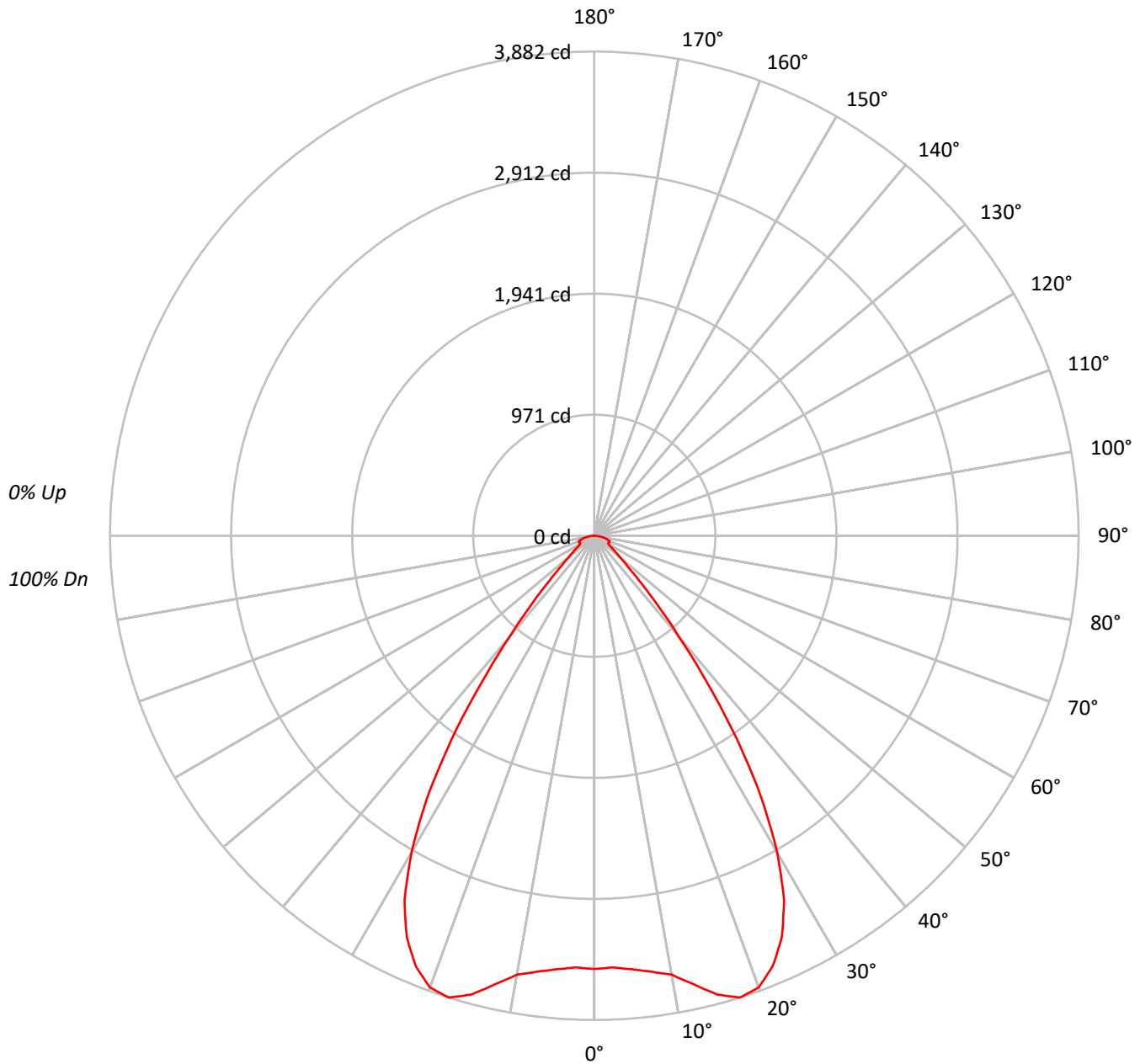
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	112	109	106	103	110	107	104	102		103	100	98			99	97	95			95
2	106	100	95	91	103	98	94	90		95	91	88			92	89	86			89
3	99	92	86	81	97	90	85	81		88	83	79			85	81	78			83
4	93	85	78	73	91	83	78	73		81	76	72			79	75	71			77
5	88	78	72	67	86	77	71	66		75	70	66			74	69	65			72
6	83	73	66	61	81	72	66	61		70	65	60			69	64	60			67
7	78	68	61	56	77	67	61	56		66	60	56			64	59	55			63
8	74	63	57	52	73	63	56	52		61	56	52			60	55	51			59
9	70	59	53	48	69	59	52	48		58	52	48			57	51	48			56
10	66	56	49	45	65	55	49	45		54	48	45			53	48	44			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	190401
5°	192026
10°	198939
15°	216091
20°	224778
25°	214990
30°	185541
35°	133592
40°	75262
45°	39004
50°	23257
55°	16754
60°	14231
65°	16422
70°	20805
75°	22007
80°	21499
85°	20442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.8	6.6
10°-20°	1073.9	21.0
20°-30°	1605.1	31.4
30°-40°	1227.0	24.0
40°-50°	428.6	8.4
50°-60°	163.3	3.2
60°-70°	128.1	2.5
70°-80°	108.3	2.1
80°-90°	34.9	0.7
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°	3014.8	59.1
0°-40°	4241.8	83.1
0°-60°	4833.6	94.7
0°-90°	5105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5105.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3473	
5°	3490	336
15°	3808	1074
25°	3554	1605
35°	1996	1227
45°	503	429
55°	175	163
65°	127	128
75°	104	108
85°	32	35
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3473.2
2.5°	3463.5
5°	3489.5
7.5°	3525.2
10°	3573.8
12.5°	3684.2
15°	3807.5
17.5°	3882.2
20°	3853.0
22.5°	3736.1
25°	3554.3
27.5°	3294.6
30°	2931.1
32.5°	2496.2
35°	1996.2
37.5°	1480.1
40°	1051.7
42.5°	736.8
45°	503.1
47.5°	353.8
50°	272.7
52.5°	214.2
55°	175.3
57.5°	142.8
60°	129.8
62.5°	126.6
65°	126.6
67.5°	133.1
70°	129.8
72.5°	120.1
75°	103.9
77.5°	87.6
80°	68.1
82.5°	48.7
85°	32.5
87.5°	13.0
90°	0.0



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— 0°-180°







(END OF REPORT)