

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: P582806

Luminaire Tested: **HC650D010-HM64560930-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582806
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-HM64560930-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5045.8 lumens
Efficiency: N/A
Efficacy: 105.1 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

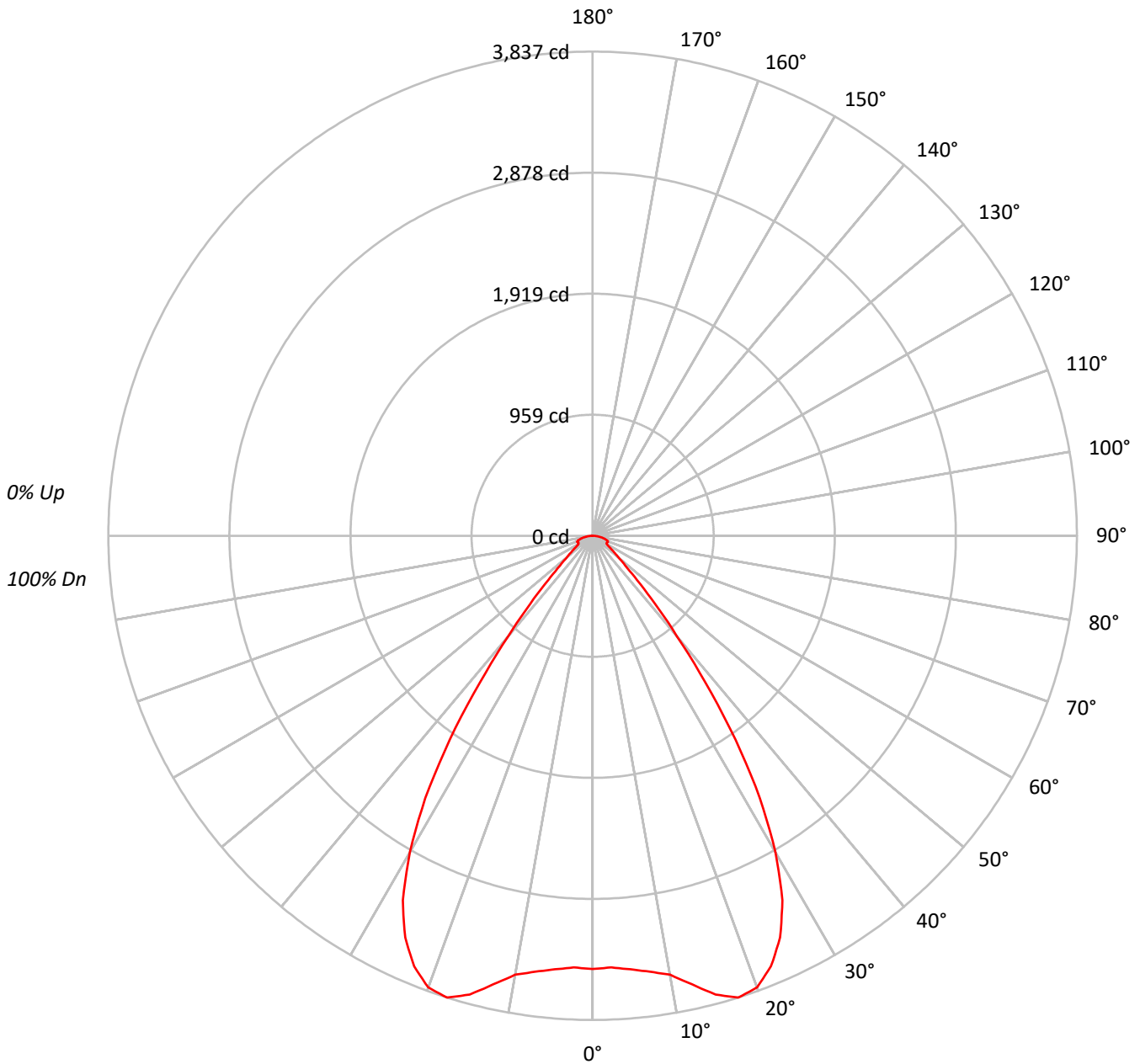
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	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°	188192
5°	189791
10°	196634
15°	213588
20°	222170
25°	212498
30°	183389
35°	132046
40°	74389
45°	38554
50°	22984
55°	16563
60°	14078
65°	16227
70°	20580
75°	21732
80°	21246
85°	20191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	331.9	6.6
10°-20°	1061.4	21.0
20°-30°	1586.5	31.4
30°-40°	1212.8	24.0
40°-50°	423.6	8.4
50°-60°	161.4	3.2
60°-70°	126.6	2.5
70°-80°	107.1	2.1
80°-90°	34.5	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°	2979.8	59.1
0°-40°	4192.6	83.1
0°-60°	4777.6	94.7
0°-90°	5045.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5045.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3433	
5°	3449	332
15°	3763	1061
25°	3513	1587
35°	1973	1213
45°	497	424
55°	173	161
65°	125	127
75°	103	107
85°	32	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3432.9
2.5°	3423.2
5°	3448.9
7.5°	3484.2
10°	3532.4
12.5°	3641.4
15°	3763.4
17.5°	3837.1
20°	3808.3
22.5°	3692.8
25°	3513.1
27.5°	3256.4
30°	2897.1
32.5°	2467.2
35°	1973.1
37.5°	1463.0
40°	1039.5
42.5°	728.3
45°	497.3
47.5°	349.7
50°	269.5
52.5°	211.8
55°	173.3
57.5°	141.1
60°	128.4
62.5°	125.1
65°	125.1
67.5°	131.6
70°	128.4
72.5°	118.7
75°	102.6
77.5°	86.6
80°	67.3
82.5°	48.1
85°	32.1
87.5°	12.9
90°	0.0



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— 0°-180°







(END OF REPORT)