

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: P582752

Luminaire Tested: **HC650D010-HM64560835-61WDWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582752
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-HM64560835-61WDWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5731.4 lumens
Efficiency: N/A
Efficacy: 119.4 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

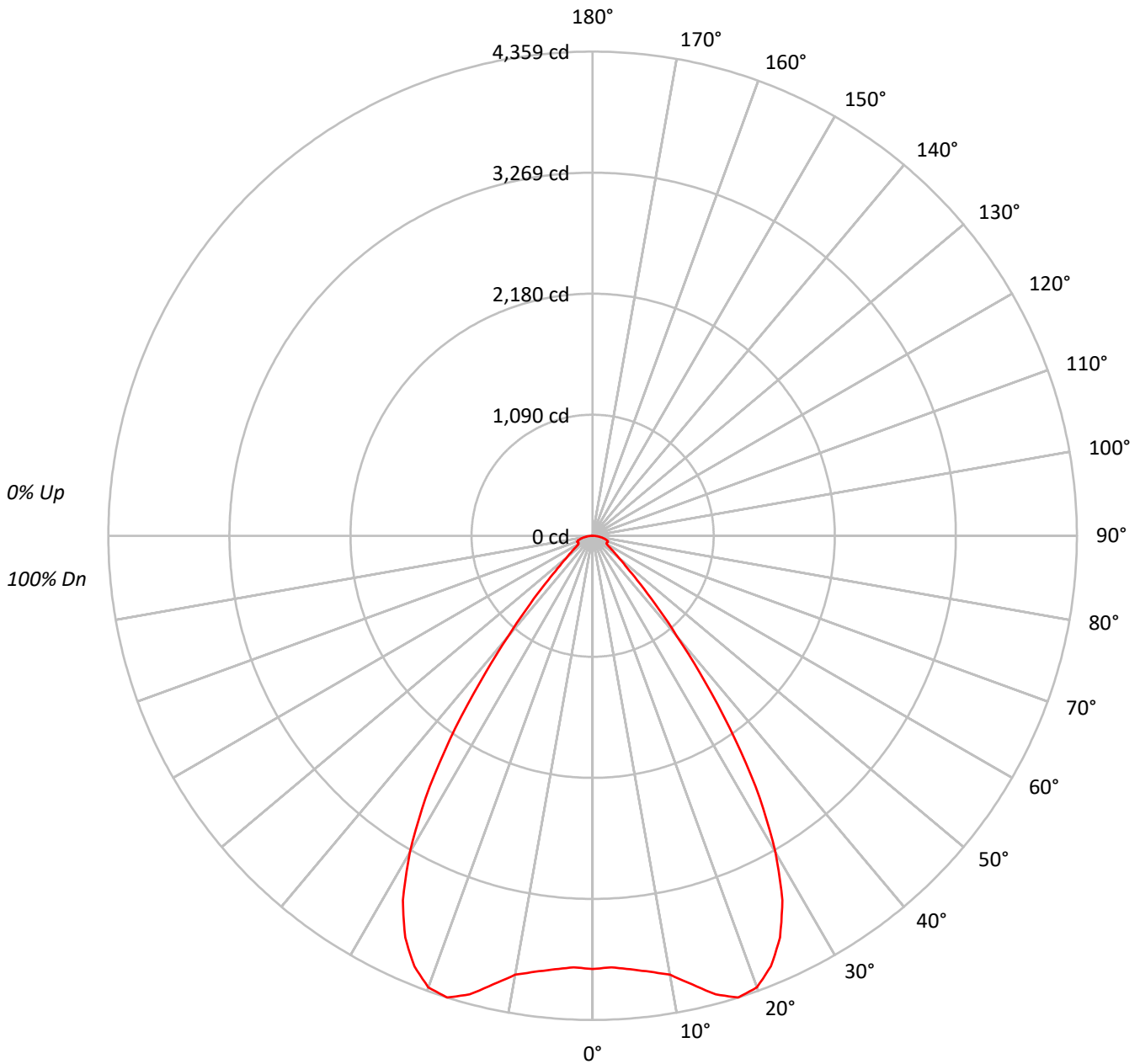
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	213760
5°	215584
10°	223348
15°	242606
20°	252360
25°	241375
30°	208304
35°	149988
40°	84501
45°	43795
50°	26106
55°	18809
60°	15975
65°	18433
70°	23353
75°	24697
80°	24151
85°	22958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	377.0	6.6
10°-20°	1205.7	21.0
20°-30°	1802.1	31.4
30°-40°	1377.5	24.0
40°-50°	481.2	8.4
50°-60°	183.4	3.2
60°-70°	143.8	2.5
70°-80°	121.7	2.1
80°-90°	39.2	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°	3384.7	59.1
0°-40°	4762.3	83.1
0°-60°	5426.8	94.7
0°-90°	5731.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5731.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3899	
5°	3918	377
15°	4275	1206
25°	3990	1802
35°	2241	1378
45°	565	481
55°	197	183
65°	142	144
75°	117	122
85°	36	39
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3899.3
2.5°	3888.4
5°	3917.6
7.5°	3957.6
10°	4012.3
12.5°	4136.2
15°	4274.7
17.5°	4358.6
20°	4325.8
22.5°	4194.6
25°	3990.5
27.5°	3698.9
30°	3290.7
32.5°	2802.4
35°	2241.2
37.5°	1661.8
40°	1180.8
42.5°	827.3
45°	564.9
47.5°	397.2
50°	306.1
52.5°	240.6
55°	196.8
57.5°	160.4
60°	145.7
62.5°	142.1
65°	142.1
67.5°	149.4
70°	145.7
72.5°	134.9
75°	116.6
77.5°	98.4
80°	76.5
82.5°	54.7
85°	36.5
87.5°	14.5
90°	0.0



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— 0°-180°







(END OF REPORT)