

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: P582787

Luminaire Tested: **HC650D010-HM64560927-61WDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560927-61WDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3920.1 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

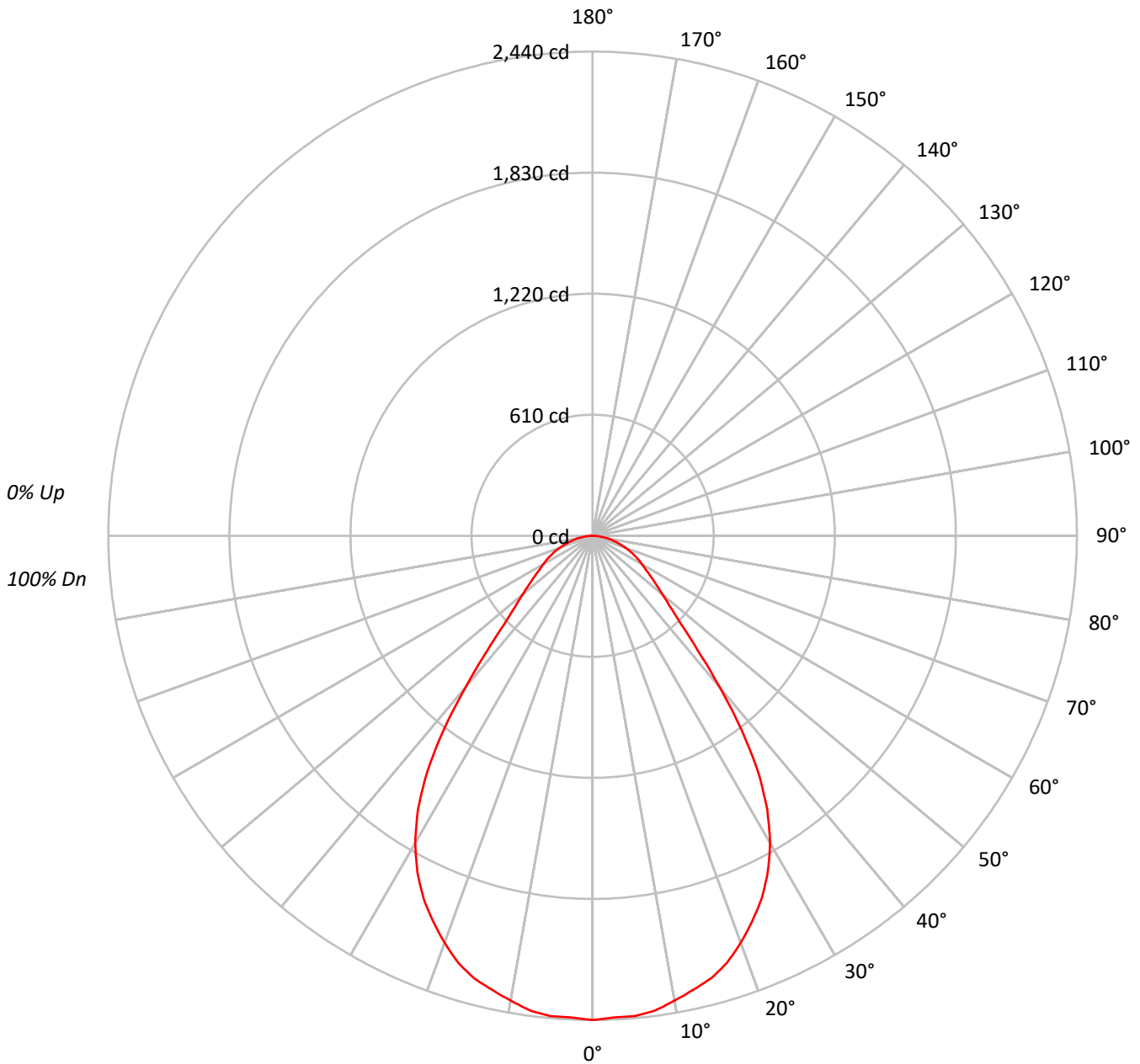
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	133772
5°	133689
10°	132396
15°	131022
20°	127324
25°	121949
30°	113176
35°	97373
40°	71076
45°	48703
50°	39154
55°	34121
60°	31489
65°	29951
70°	27985
75°	26158
80°	23709
85°	20254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	5.9
10°-20°	648.4	16.5
20°-30°	922.1	23.5
30°-40°	887.8	22.6
40°-50°	510.8	13.0
50°-60°	323.6	8.3
60°-70°	229.2	5.8
70°-80°	130.6	3.3
80°-90°	37.3	1.0
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°	1800.8	45.9
0°-40°	2688.6	68.6
0°-60°	3523.1	89.9
0°-90°	3920.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3920.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2440	
5°	2429	230
15°	2309	648
25°	2016	922
35°	1455	888
45°	628	511
55°	357	324
65°	231	229
75°	124	131
85°	32	37
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2440.2
2.5°	2429.4
5°	2429.4
7.5°	2413.4
10°	2378.4
12.5°	2343.6
15°	2308.6
17.5°	2255.0
20°	2182.5
22.5°	2101.9
25°	2016.1
27.5°	1911.3
30°	1787.9
32.5°	1637.6
35°	1455.0
37.5°	1232.1
40°	993.2
42.5°	783.8
45°	628.2
47.5°	528.9
50°	459.1
52.5°	402.7
55°	357.0
57.5°	316.7
60°	287.2
62.5°	260.4
65°	230.9
67.5°	204.1
70°	174.6
72.5°	147.6
75°	123.5
77.5°	99.3
80°	75.1
82.5°	53.7
85°	32.2
87.5°	13.5
90°	0.0



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— 0°-180°







(END OF REPORT)