

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: P582777

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560927-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3708.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

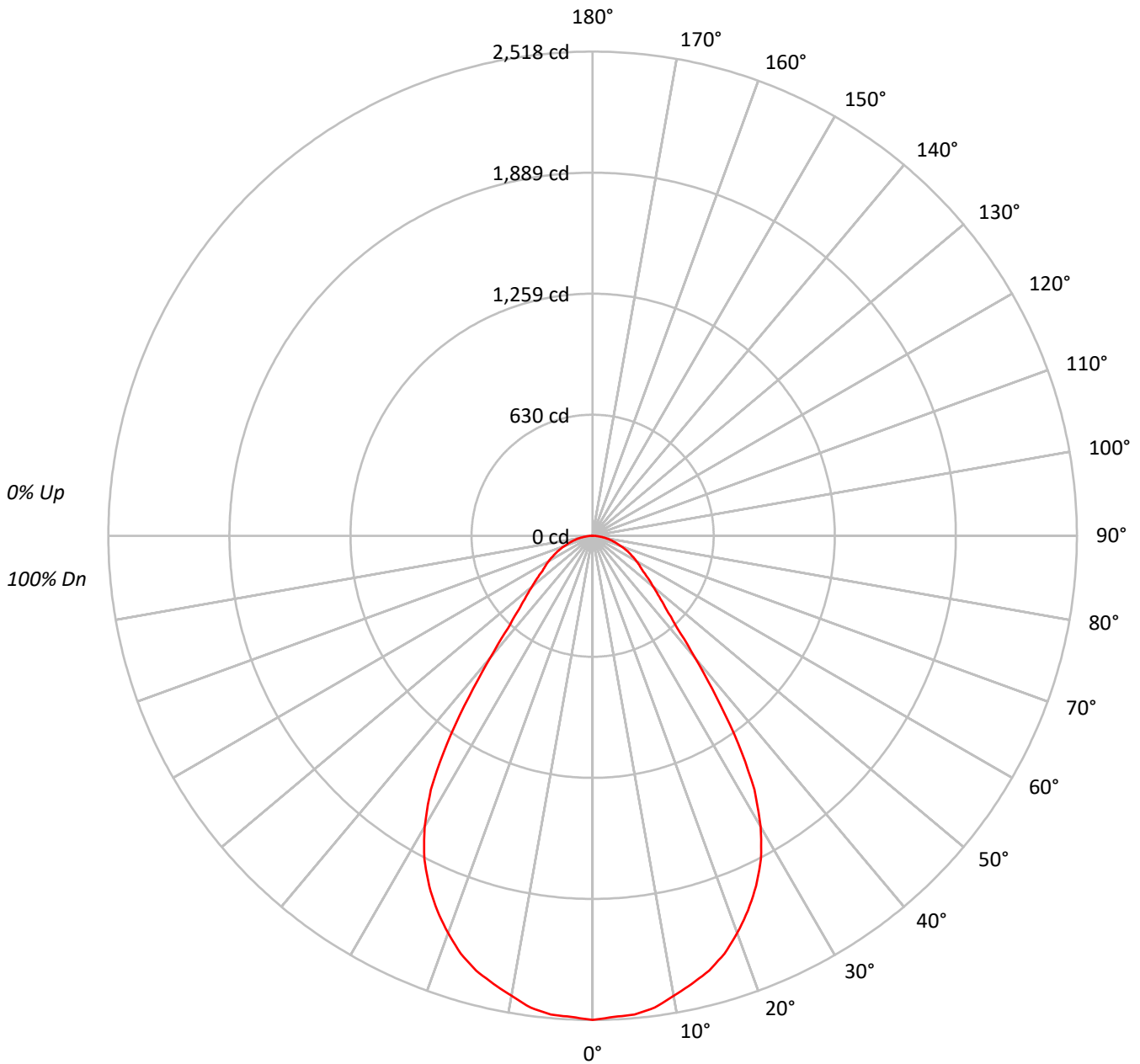
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	138032
5°	137524
10°	135229
15°	132844
20°	128251
25°	121610
30°	110618
35°	88385
40°	58975
45°	42035
50°	35035
55°	30537
60°	28835
65°	27162
70°	24956
75°	23320
80°	21183
85°	18555



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	6.4
10°-20°	657.2	17.7
20°-30°	918.4	24.8
30°-40°	809.0	21.8
40°-50°	437.1	11.8
50°-60°	292.2	7.9
60°-70°	207.2	5.6
70°-80°	116.5	3.1
80°-90°	34.0	0.9
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°	1812.0	48.9
0°-40°	2621.0	70.7
0°-60°	3350.4	90.4
0°-90°	3708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3708.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2518	
5°	2499	236
15°	2341	657
25°	2010	918
35°	1321	809
45°	542	437
55°	320	292
65°	209	207
75°	110	116
85°	30	34
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2517.9
2.5°	2504.5
5°	2499.1
7.5°	2475.0
10°	2429.3
12.5°	2386.3
15°	2340.7
17.5°	2279.0
20°	2198.4
22.5°	2109.9
25°	2010.5
27.5°	1895.2
30°	1747.5
32.5°	1564.9
35°	1320.7
37.5°	1055.0
40°	824.1
42.5°	649.7
45°	542.2
47.5°	469.8
50°	410.8
52.5°	362.3
55°	319.5
57.5°	289.9
60°	263.0
62.5°	236.2
65°	209.4
67.5°	182.6
70°	155.7
72.5°	131.6
75°	110.1
77.5°	88.6
80°	67.1
82.5°	48.3
85°	29.5
87.5°	13.5
90°	0.0



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— 0°-180°







(END OF REPORT)