

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: P582781

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582781
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560927-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3801.9 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

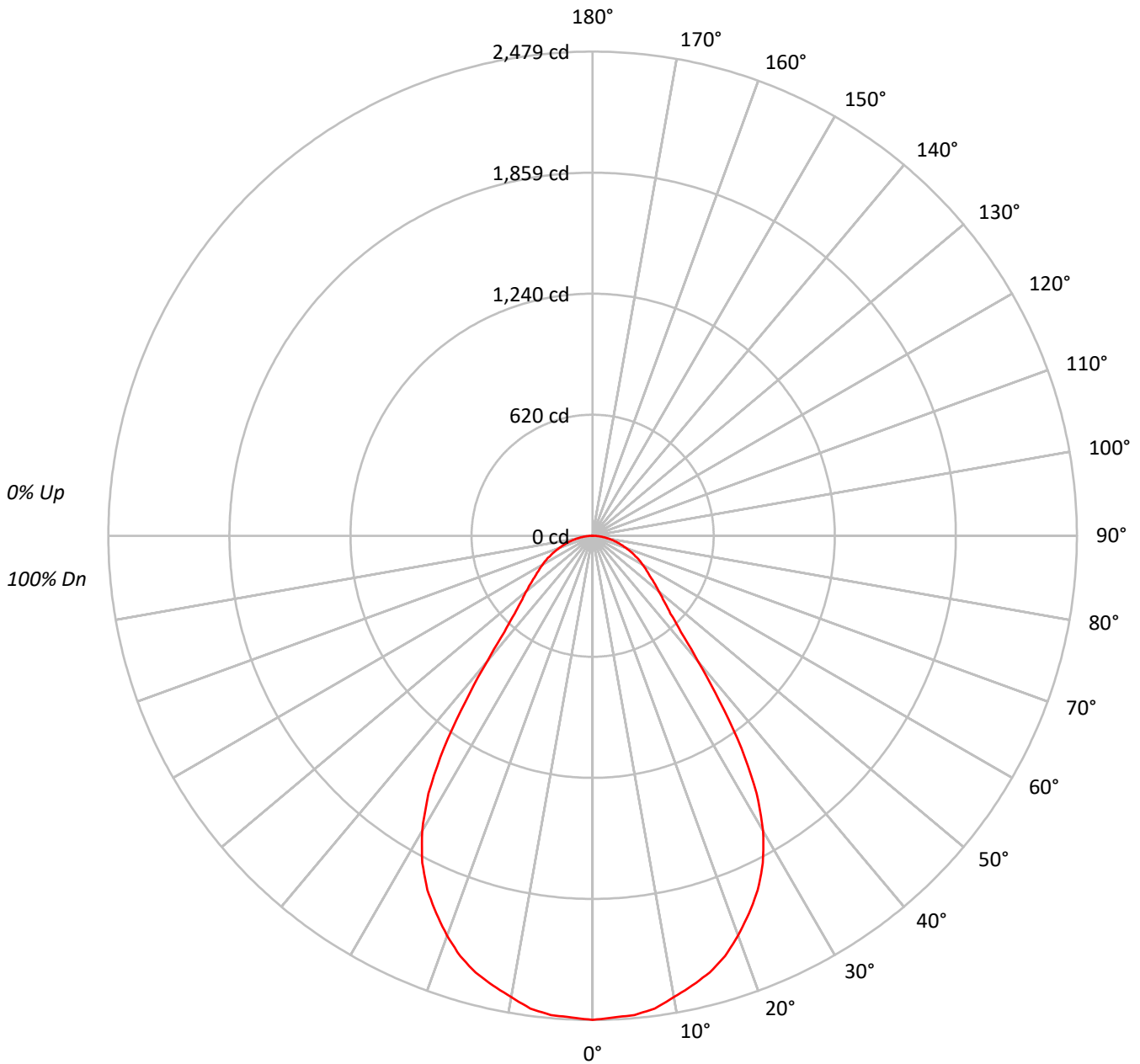
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	135888
5°	135521
10°	133503
15°	131386
20°	127061
25°	121029
30°	110498
35°	88961
40°	59962
45°	43718
50°	37790
55°	34130
60°	32388
65°	30652
70°	28851
75°	27323
80°	25414
85°	23650



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.1	6.1
10°-20°	650.1	17.1
20°-30°	913.4	24.0
30°-40°	813.0	21.4
40°-50°	454.3	11.9
50°-60°	323.7	8.5
60°-70°	235.5	6.2
70°-80°	136.4	3.6
80°-90°	42.4	1.1
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°	1796.6	47.3
0°-40°	2609.6	68.6
0°-60°	3387.6	89.1
0°-90°	3801.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2479	
5°	2463	233
15°	2315	650
25°	2001	913
35°	1329	813
45°	564	454
55°	357	324
65°	236	236
75°	129	136
85°	38	42
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2478.8
2.5°	2468.1
5°	2462.7
7.5°	2441.2
10°	2398.3
12.5°	2358.0
15°	2315.0
17.5°	2255.9
20°	2178.0
22.5°	2092.1
25°	2000.9
27.5°	1887.9
30°	1745.6
32.5°	1563.1
35°	1329.3
37.5°	1066.2
40°	837.9
42.5°	668.7
45°	563.9
47.5°	494.1
50°	443.1
52.5°	397.5
55°	357.1
57.5°	325.0
60°	295.4
62.5°	268.6
65°	236.3
67.5°	209.5
70°	180.0
72.5°	153.1
75°	129.0
77.5°	104.8
80°	80.5
82.5°	59.0
85°	37.6
87.5°	18.8
90°	0.0



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— 0°-180°







(END OF REPORT)