

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: P582799

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582799
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-HM64560930-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4542.2 lumens
Efficiency: N/A
Efficacy: 94.6 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

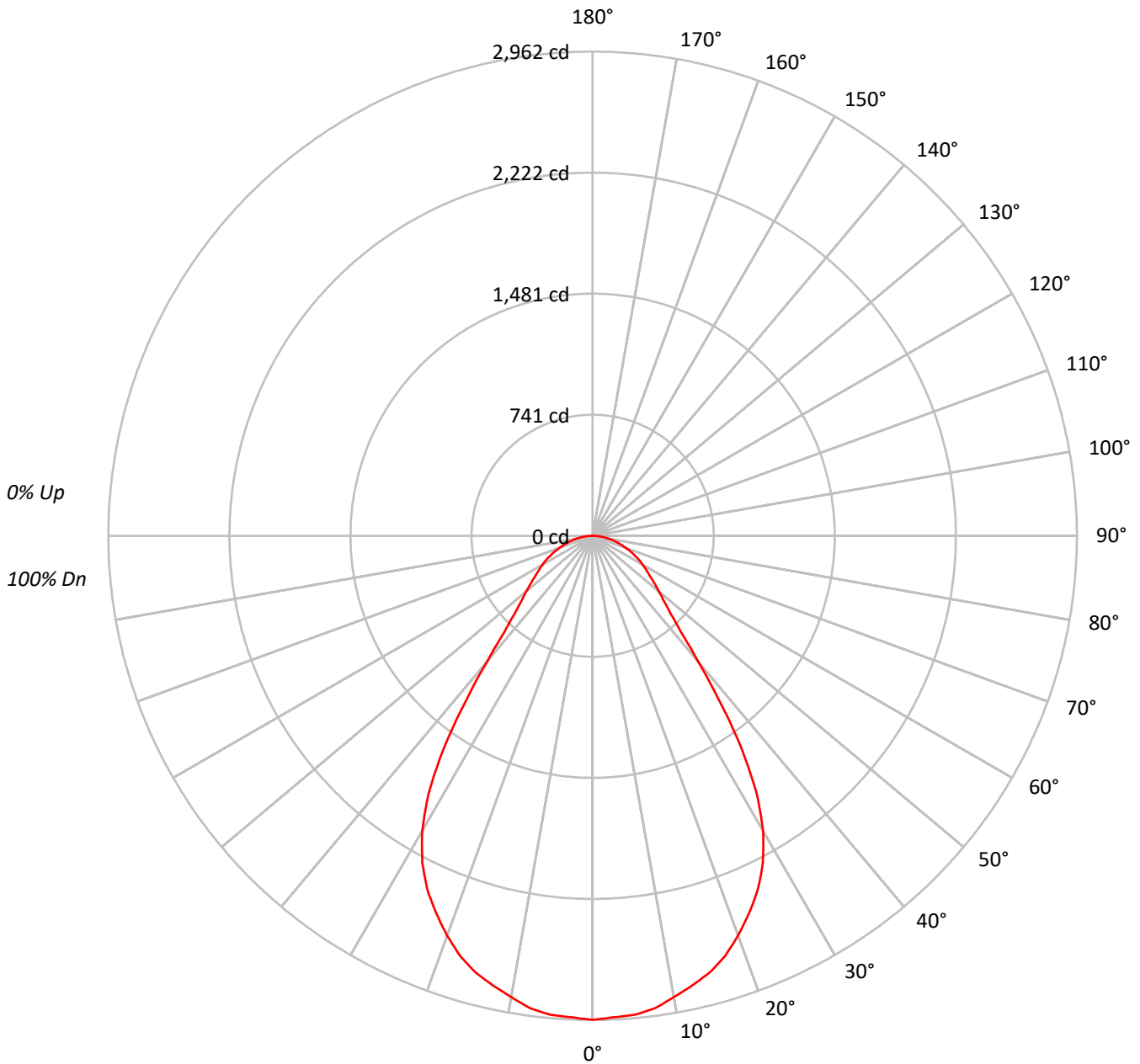
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	162350
5°	161908
10°	159494
15°	156965
20°	151802
25°	144583
30°	132014
35°	106287
40°	71634
45°	52238
50°	45150
55°	40782
60°	38692
65°	36632
70°	34445
75°	32619
80°	30402
85°	28242



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.5	6.1
10°-20°	776.7	17.1
20°-30°	1091.2	24.0
30°-40°	971.3	21.4
40°-50°	542.8	12.0
50°-60°	386.7	8.5
60°-70°	281.4	6.2
70°-80°	162.9	3.6
80°-90°	50.6	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°	2146.3	47.3
0°-40°	3117.7	68.6
0°-60°	4047.2	89.1
0°-90°	4542.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4542.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2962	
5°	2942	278
15°	2766	777
25°	2390	1091
35°	1588	971
45°	674	543
55°	427	387
65°	282	281
75°	154	163
85°	45	51
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2961.5
2.5°	2948.6
5°	2942.2
7.5°	2916.5
10°	2865.2
12.5°	2817.0
15°	2765.7
17.5°	2695.2
20°	2602.1
22.5°	2499.5
25°	2390.3
27.5°	2255.6
30°	2085.5
32.5°	1867.4
35°	1588.2
37.5°	1273.8
40°	1001.0
42.5°	798.9
45°	673.8
47.5°	590.4
50°	529.4
52.5°	474.9
55°	426.7
57.5°	388.2
60°	352.9
62.5°	320.9
65°	282.4
67.5°	250.3
70°	214.9
72.5°	182.9
75°	154.0
77.5°	125.2
80°	96.3
82.5°	70.6
85°	44.9
87.5°	22.4
90°	0.0



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— 0°-180°







(END OF REPORT)