

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: P582727

Luminaire Tested: **HC650D010-HM64560830-61PSMDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582727
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-HM64560830-61PSMDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4937.8 lumens
Efficiency: N/A
Efficacy: 102.9 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

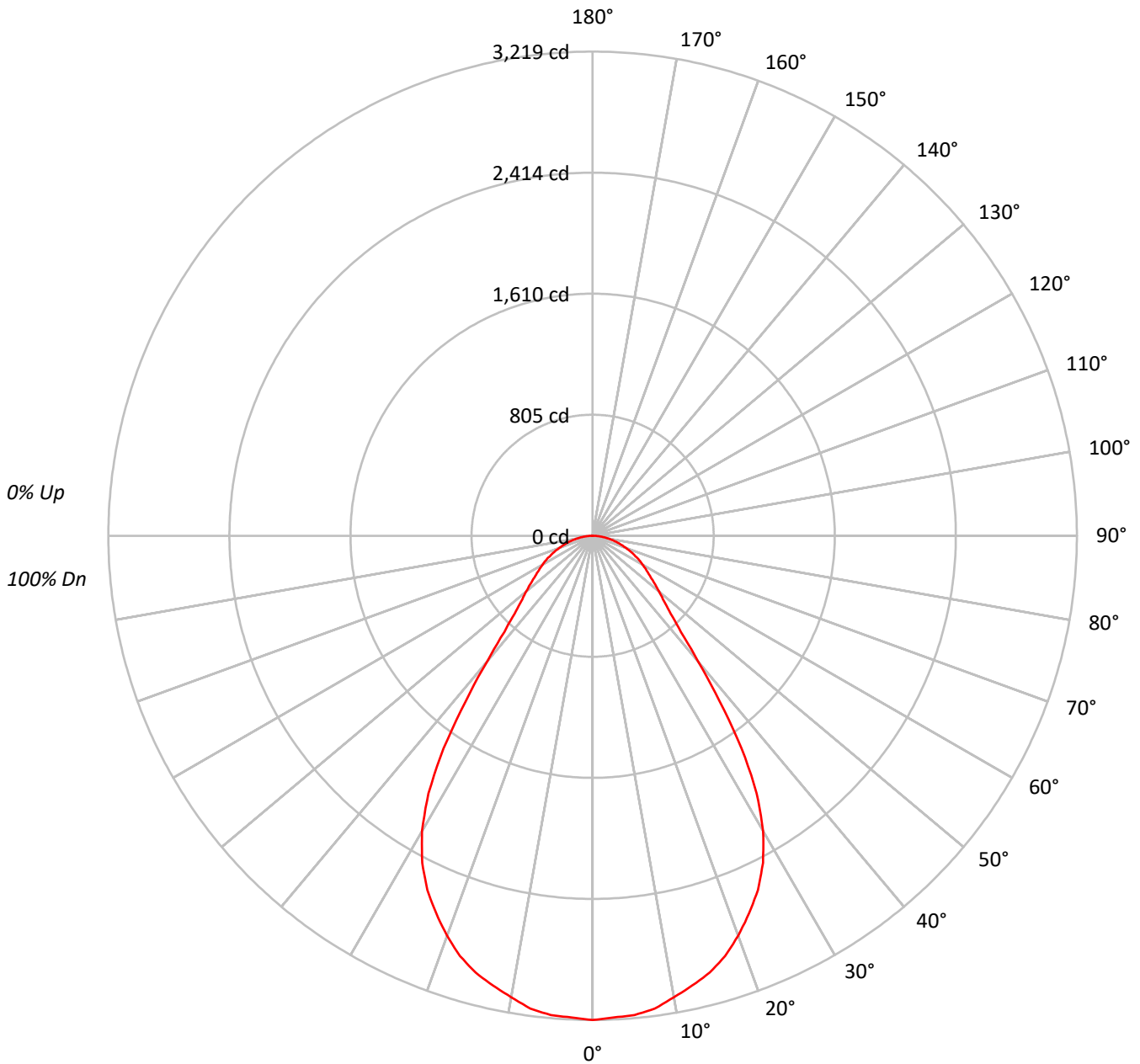
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	176488
5°	176012
10°	173388
15°	170637
20°	165022
25°	157182
30°	143516
35°	115543
40°	77882
45°	56789
50°	49082
55°	44338
60°	42069
65°	39810
70°	37458
75°	35478
80°	33022
85°	30695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.7	6.1
10°-20°	844.3	17.1
20°-30°	1186.3	24.0
30°-40°	1055.9	21.4
40°-50°	590.1	12.0
50°-60°	420.4	8.5
60°-70°	305.9	6.2
70°-80°	177.1	3.6
80°-90°	55.0	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°	2333.3	47.3
0°-40°	3389.2	68.6
0°-60°	4399.8	89.1
0°-90°	4937.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4937.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3219	
5°	3198	303
15°	3007	844
25°	2599	1186
35°	1726	1056
45°	732	590
55°	464	420
65°	307	306
75°	168	177
85°	49	55
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3219.4
2.5°	3205.5
5°	3198.5
7.5°	3170.5
10°	3114.8
12.5°	3062.5
15°	3006.6
17.5°	2929.8
20°	2828.7
22.5°	2717.1
25°	2598.6
27.5°	2452.0
30°	2267.2
32.5°	2030.0
35°	1726.5
37.5°	1384.7
40°	1088.3
42.5°	868.5
45°	732.5
47.5°	641.8
50°	575.5
52.5°	516.2
55°	463.9
57.5°	422.1
60°	383.7
62.5°	348.7
65°	306.9
67.5°	272.1
70°	233.7
72.5°	198.8
75°	167.5
77.5°	136.1
80°	104.6
82.5°	76.8
85°	48.8
87.5°	24.4
90°	0.0



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— 0°-180°







(END OF REPORT)