

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: P582723

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

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582723
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-HM64560830-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4815.7 lumens
Efficiency: N/A
Efficacy: 100.3 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

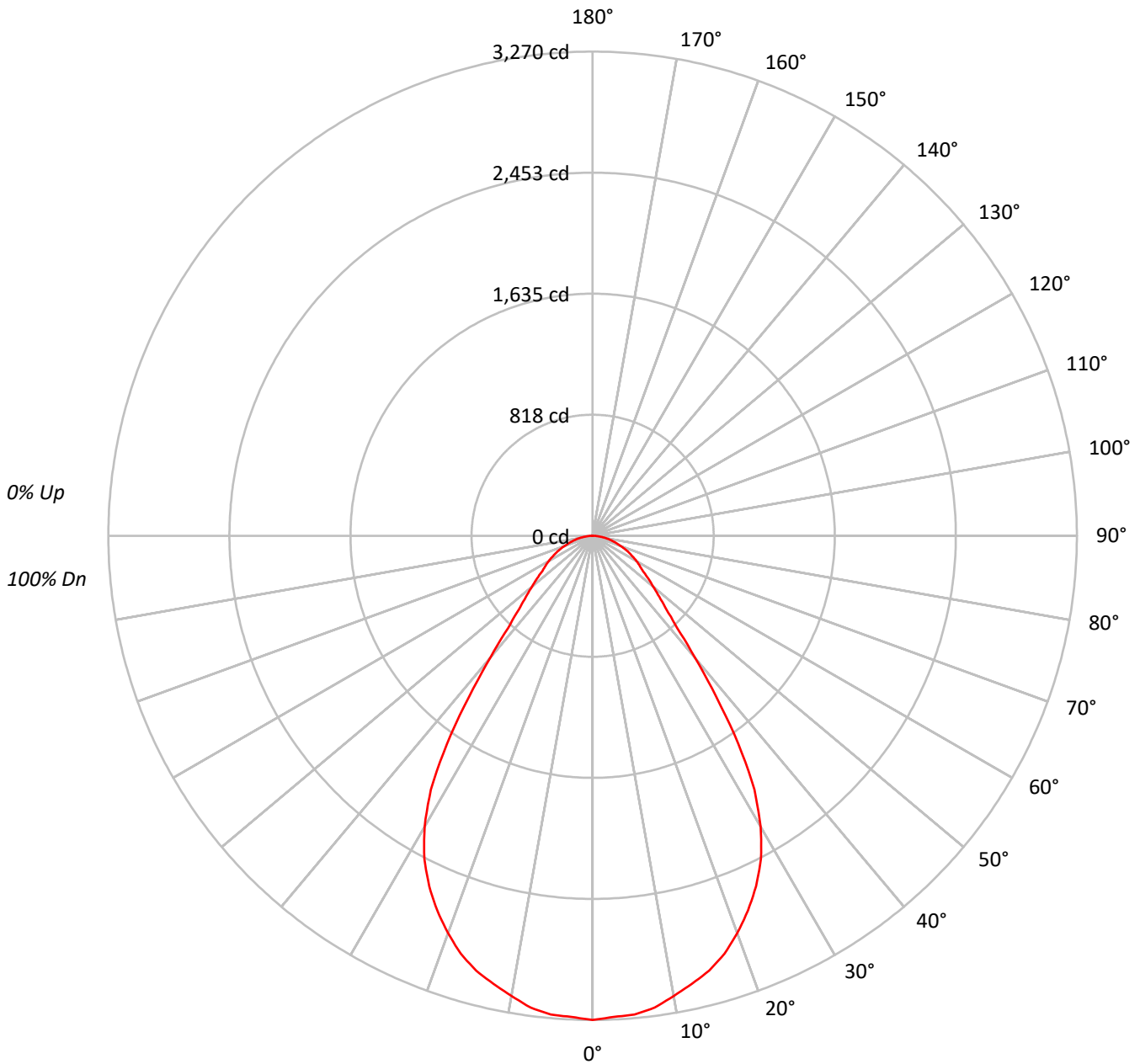
Input Watts (W): 48
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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			100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	89			89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			79
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70			70
4	90	80	73	68	88	79	73	67	77	71	67	75	70	66	73	68	65	63			63
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	57			57
6	79	68	61	55	77	67	60	55	65	59	55	64	58	54	62	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	179273
5°	178609
10°	175626
15°	172532
20°	166574
25°	157945
30°	143661
35°	114793
40°	76594
45°	54595
50°	45500
55°	39655
60°	37464
65°	35283
70°	32409
75°	30267
80°	27529
85°	24153



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.0	6.4
10°-20°	853.6	17.7
20°-30°	1192.8	24.8
30°-40°	1050.7	21.8
40°-50°	567.7	11.8
50°-60°	379.6	7.9
60°-70°	269.0	5.6
70°-80°	151.2	3.1
80°-90°	44.1	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°	2353.3	48.9
0°-40°	3404.1	70.7
0°-60°	4351.3	90.4
0°-90°	4815.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4815.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3270	
5°	3246	307
15°	3040	854
25°	2611	1193
35°	1715	1051
45°	704	568
55°	415	380
65°	272	269
75°	143	151
85°	38	44
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3270.2
2.5°	3252.7
5°	3245.7
7.5°	3214.3
10°	3155.0
12.5°	3099.3
15°	3040.0
17.5°	2959.8
20°	2855.3
22.5°	2740.3
25°	2611.2
27.5°	2461.3
30°	2269.5
32.5°	2032.5
35°	1715.3
37.5°	1370.1
40°	1070.3
42.5°	843.7
45°	704.2
47.5°	610.1
50°	533.5
52.5°	470.6
55°	414.9
57.5°	376.5
60°	341.7
62.5°	306.8
65°	272.0
67.5°	237.0
70°	202.2
72.5°	170.8
75°	142.9
77.5°	115.0
80°	87.2
82.5°	62.7
85°	38.4
87.5°	17.5
90°	0.0



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— 0°-180°







(END OF REPORT)