

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: P582734

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582734  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC650D010-HM64560830-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5485.2 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

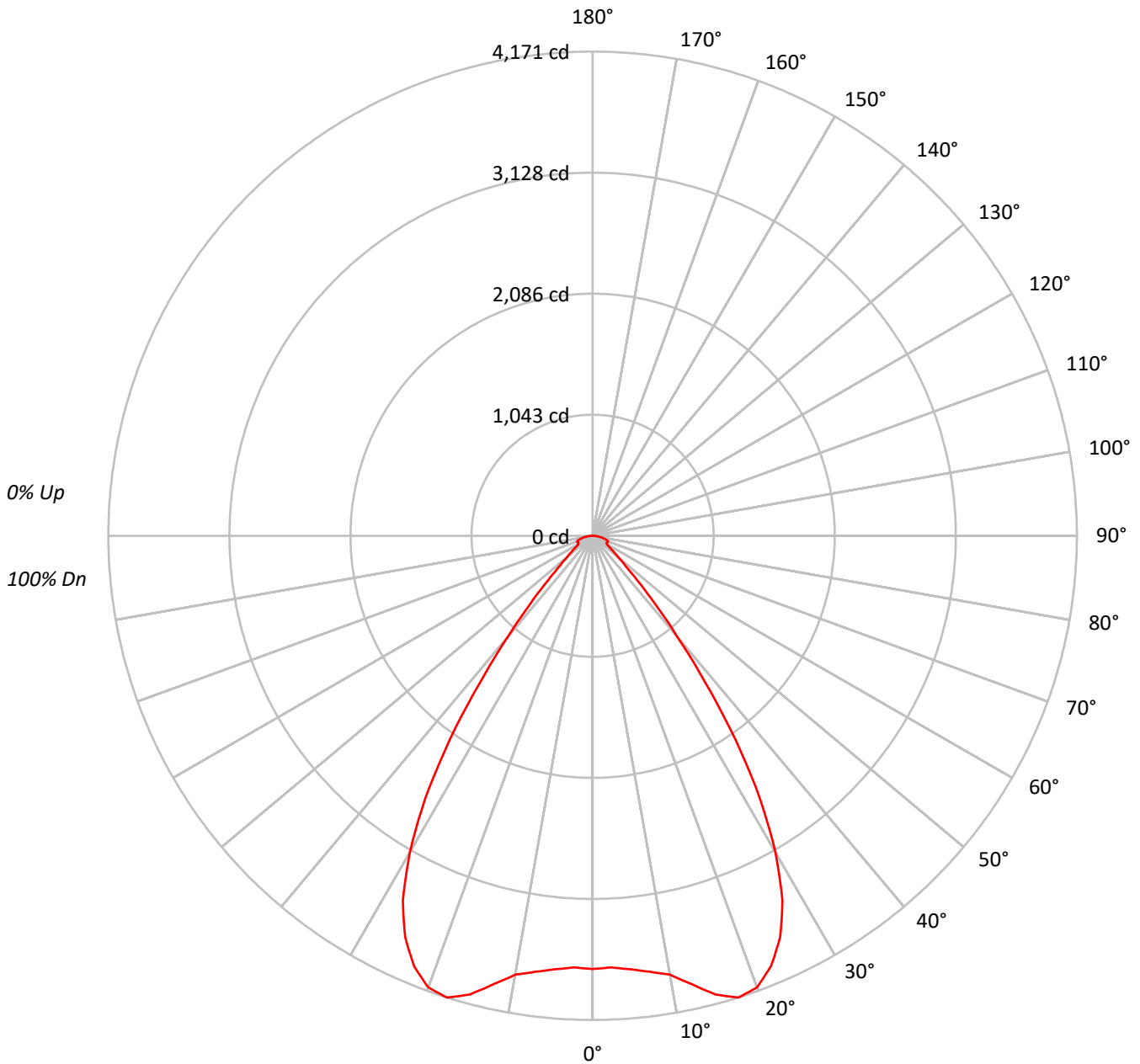
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	204578
5°	206322
10°	213757
15°	232186
20°	241521
25°	231007
30°	199366
35°	143543
40°	80866
45°	41904
50°	24989
55°	18007
60°	15295
65°	17654
70°	22360
75°	23638
80°	23109
85°	21889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.8	6.6
10°-20°	1153.9	21.0
20°-30°	1724.7	31.4
30°-40°	1318.4	24.0
40°-50°	460.5	8.4
50°-60°	175.5	3.2
60°-70°	137.7	2.5
70°-80°	116.4	2.1
80°-90°	37.4	0.7
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°	3239.3	59.1
0°-40°	4557.7	83.1
0°-60°	5193.7	94.7
0°-90°	5485.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5485.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3732	
5°	3749	361
15°	4091	1154
25°	3819	1725
35°	2145	1318
45°	540	460
55°	188	175
65°	136	138
75°	112	116
85°	35	37
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3731.8
2.5°	3721.4
5°	3749.3
7.5°	3787.7
10°	3840.0
12.5°	3958.6
15°	4091.1
17.5°	4171.3
20°	4140.0
22.5°	4014.3
25°	3819.1
27.5°	3540.0
30°	3149.5
32.5°	2682.1
35°	2144.9
37.5°	1590.5
40°	1130.0
42.5°	791.7
45°	540.5
47.5°	380.2
50°	293.0
52.5°	230.2
55°	188.4
57.5°	153.4
60°	139.5
62.5°	136.1
65°	136.1
67.5°	143.0
70°	139.5
72.5°	129.1
75°	111.6
77.5°	94.1
80°	73.2
82.5°	52.3
85°	34.8
87.5°	13.9
90°	0.0



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— 0°-180°







(END OF REPORT)