

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: P582745

Luminaire Tested: **HC650D010-HM64560835-61PSMDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582745  
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-HM64560835-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5159.4 lumens  
Efficiency: N/A  
Efficacy: 107.5 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

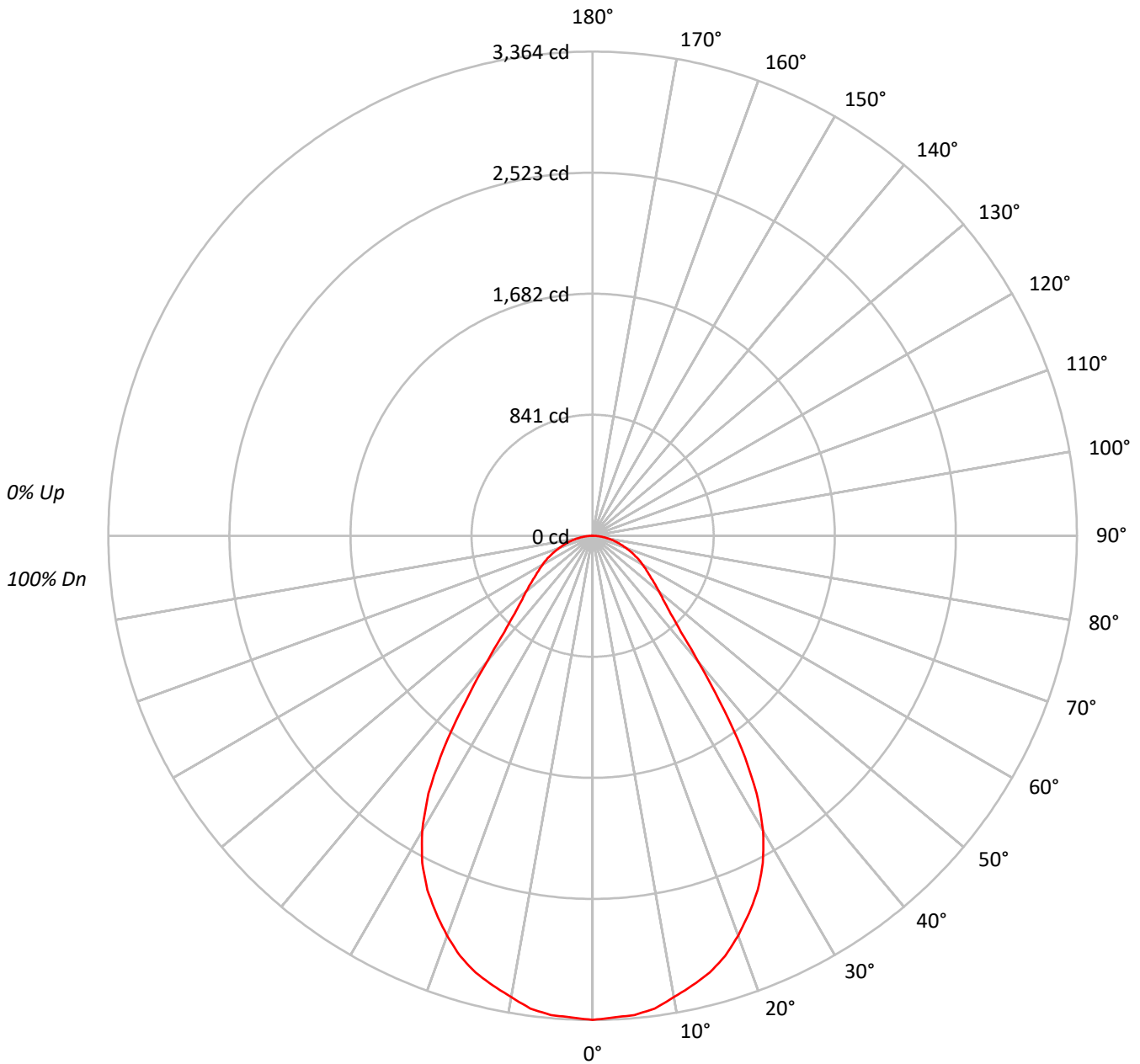
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62				62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56				56
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51				51
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46				46
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43				43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39				39
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				36

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

	0°
0°	184404
5°	183909
10°	181165
15°	178298
20°	172431
25°	164229
30°	149960
35°	120729
40°	81374
45°	59332
50°	51290
55°	46326
60°	43955
65°	41613
70°	39141
75°	37045
80°	34537
85°	32079



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.3	6.1
10°-20°	882.2	17.1
20°-30°	1239.5	24.0
30°-40°	1103.3	21.4
40°-50°	616.6	12.0
50°-60°	439.3	8.5
60°-70°	319.7	6.2
70°-80°	185.0	3.6
80°-90°	57.5	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°	2438.0	47.3
0°-40°	3541.3	68.6
0°-60°	4597.2	89.1
0°-90°	5159.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5159.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3364	
5°	3342	316
15°	3142	882
25°	2715	1239
35°	1804	1103
45°	765	617
55°	485	439
65°	321	320
75°	175	185
85°	51	58
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3363.8
2.5°	3349.3
5°	3342.0
7.5°	3312.8
10°	3254.5
12.5°	3199.9
15°	3141.6
17.5°	3061.4
20°	2955.7
22.5°	2839.0
25°	2715.1
27.5°	2562.1
30°	2369.0
32.5°	2121.1
35°	1804.0
37.5°	1446.8
40°	1137.1
42.5°	907.5
45°	765.3
47.5°	670.6
50°	601.4
52.5°	539.4
55°	484.7
57.5°	441.0
60°	400.9
62.5°	364.5
65°	320.8
67.5°	284.3
70°	244.2
72.5°	207.7
75°	174.9
77.5°	142.2
80°	109.4
82.5°	80.2
85°	51.0
87.5°	25.5
90°	0.0



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— 0°-180°







(END OF REPORT)