

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: P582788

Luminaire Tested: **HC650D010-HM64560927-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582788  
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-HM64560927-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4223.6 lumens  
Efficiency: N/A  
Efficacy: 88.0 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

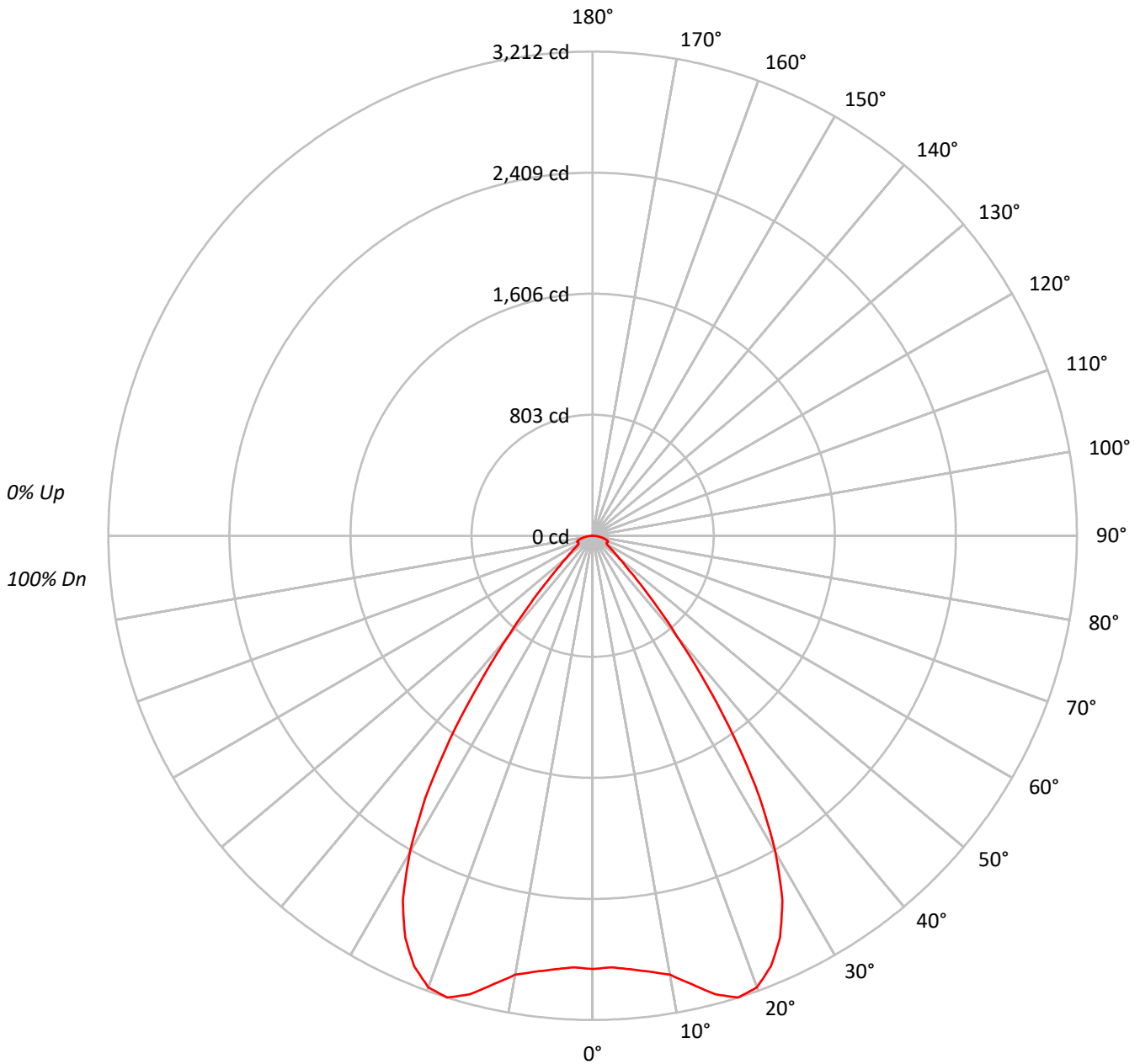
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	157526
5°	158859
10°	164593
15°	178781
20°	185960
25°	177869
30°	153498
35°	110523
40°	62260
45°	32275
50°	19240
55°	13859
60°	11786
65°	13594
70°	17230
75°	18216
80°	17837
85°	16857



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.8	6.6
10°-20°	888.5	21.0
20°-30°	1327.9	31.4
30°-40°	1015.1	24.0
40°-50°	354.6	8.4
50°-60°	135.1	3.2
60°-70°	106.0	2.5
70°-80°	89.7	2.1
80°-90°	28.9	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°	2494.2	59.1
0°-40°	3509.3	83.1
0°-60°	3999.0	94.7
0°-90°	4223.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4223.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2874	
5°	2887	278
15°	3150	888
25°	2941	1328
35°	1652	1015
45°	416	355
55°	145	135
65°	105	106
75°	86	90
85°	27	29
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2873.5
2.5°	2865.3
5°	2886.8
7.5°	2916.4
10°	2956.8
12.5°	3048.0
15°	3150.1
17.5°	3211.8
20°	3187.6
22.5°	3090.9
25°	2940.6
27.5°	2725.7
30°	2424.9
32.5°	2065.1
35°	1651.5
37.5°	1224.6
40°	870.0
42.5°	609.6
45°	416.3
47.5°	292.8
50°	225.6
52.5°	177.3
55°	145.0
57.5°	118.2
60°	107.5
62.5°	104.8
65°	104.8
67.5°	110.1
70°	107.5
72.5°	99.3
75°	86.0
77.5°	72.5
80°	56.5
82.5°	40.3
85°	26.8
87.5°	10.7
90°	0.0



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— 0°-180°







(END OF REPORT)