

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: P593352

Luminaire Tested: **HC650D010-HM64560850-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593352  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC650D010-HM64560850-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5539.8 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

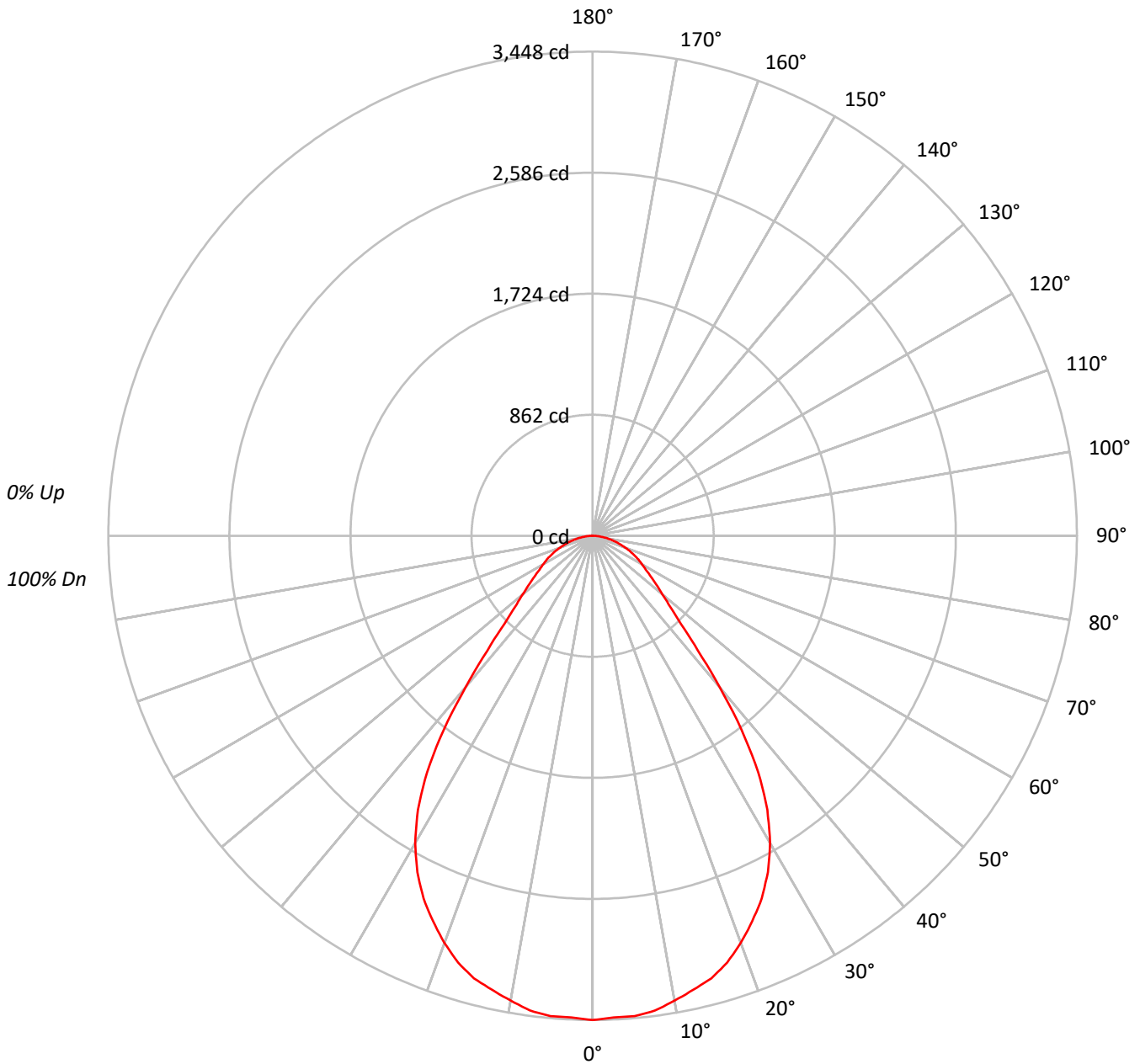
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
RC	80									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	94	92	90	89																			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78																			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69																			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56																			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51																			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39																			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36																			

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

	0°
0°	189047
5°	188933
10°	187104
15°	185166
20°	179933
25°	172329
30°	159936
35°	137607
40°	100445
45°	68829
50°	55324
55°	48218
60°	44503
65°	42326
70°	39526
75°	36982
80°	33527
85°	28619



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.5	5.9
10°-20°	916.3	16.5
20°-30°	1303.2	23.5
30°-40°	1254.6	22.6
40°-50°	721.9	13.0
50°-60°	457.4	8.3
60°-70°	323.8	5.8
70°-80°	184.6	3.3
80°-90°	52.6	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°	2544.9	45.9
0°-40°	3799.5	68.6
0°-60°	4978.7	89.9
0°-90°	5539.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5539.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3448	
5°	3433	325
15°	3263	916
25°	2849	1303
35°	2056	1255
45°	888	722
55°	504	457
65°	326	324
75°	175	185
85°	46	53
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3448.5
2.5°	3433.3
5°	3433.3
7.5°	3410.5
10°	3361.2
12.5°	3311.9
15°	3262.6
17.5°	3186.7
20°	3084.3
22.5°	2970.5
25°	2849.0
27.5°	2701.1
30°	2526.6
32.5°	2314.2
35°	2056.2
37.5°	1741.3
40°	1403.6
42.5°	1107.8
45°	887.8
47.5°	747.3
50°	648.7
52.5°	569.0
55°	504.5
57.5°	447.6
60°	405.9
62.5°	368.0
65°	326.3
67.5°	288.3
70°	246.6
72.5°	208.7
75°	174.6
77.5°	140.4
80°	106.2
82.5°	75.8
85°	45.5
87.5°	19.0
90°	0.0



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— 0°-180°







(END OF REPORT)