

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: P593349

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593349  
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-HM64560850-61MDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5240.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 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

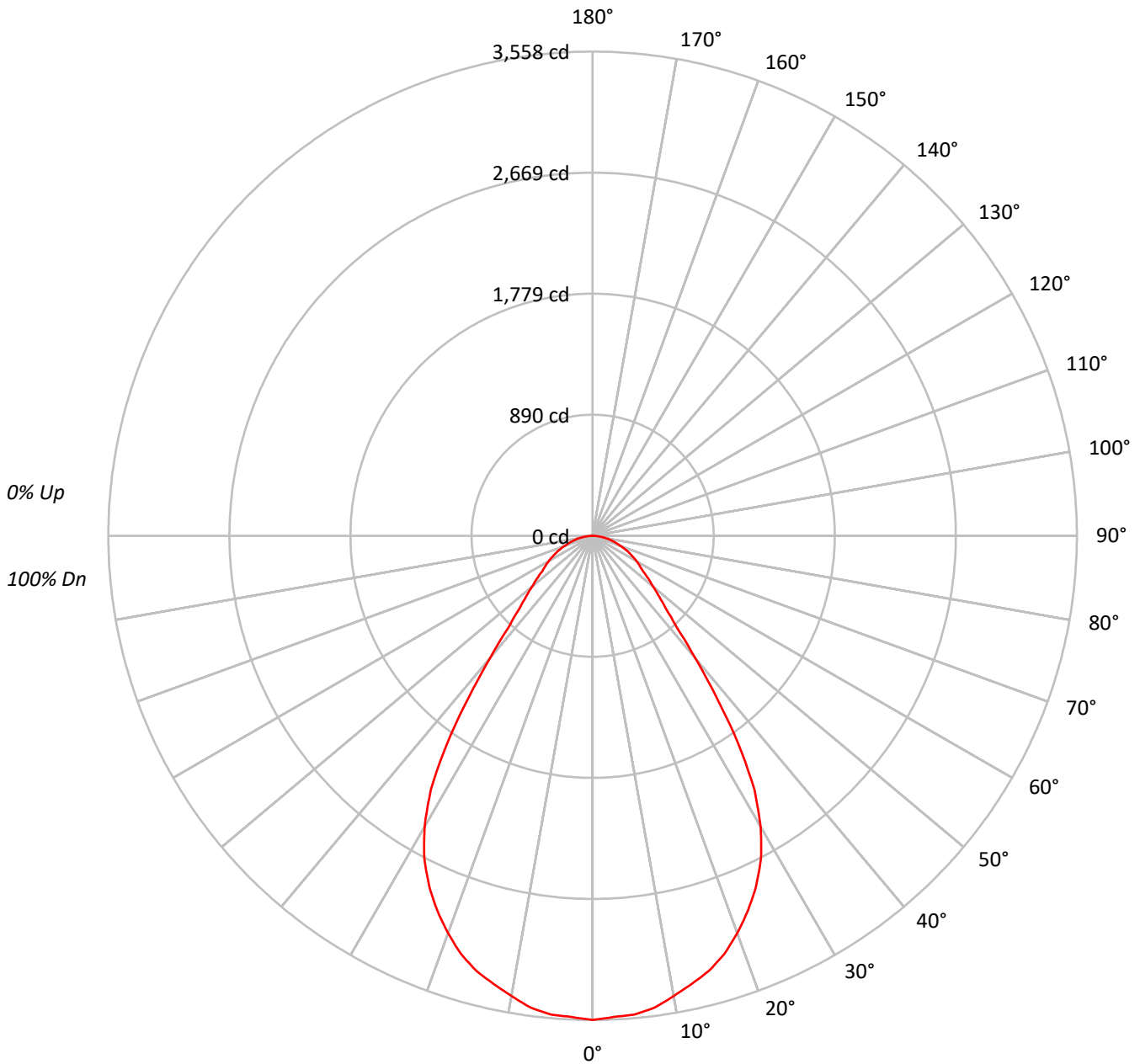
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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°	195061
5°	194353
10°	191101
15°	187737
20°	181252
25°	171869
30°	156328
35°	124899
40°	83342
45°	59402
50°	49491
55°	43143
60°	40764
65°	38370
70°	35262
75°	32936
80°	29928
85°	26229



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.0	6.4
10°-20°	928.8	17.7
20°-30°	1297.9	24.8
30°-40°	1143.3	21.8
40°-50°	617.6	11.8
50°-60°	413.0	7.9
60°-70°	292.7	5.6
70°-80°	164.6	3.1
80°-90°	48.0	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°	2560.7	48.9
0°-40°	3704.0	70.7
0°-60°	4734.7	90.4
0°-90°	5240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5240.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3558	
5°	3532	334
15°	3308	929
25°	2841	1298
35°	1866	1143
45°	766	618
55°	451	413
65°	296	293
75°	156	165
85°	42	48
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3558.2
2.5°	3539.3
5°	3531.8
7.5°	3497.5
10°	3433.0
12.5°	3372.3
15°	3307.9
17.5°	3220.7
20°	3106.9
22.5°	2981.7
25°	2841.4
27.5°	2678.2
30°	2469.6
32.5°	2211.5
35°	1866.3
37.5°	1490.9
40°	1164.6
42.5°	918.0
45°	766.2
47.5°	663.8
50°	580.3
52.5°	512.1
55°	451.4
57.5°	409.7
60°	371.8
62.5°	333.9
65°	295.8
67.5°	257.9
70°	220.0
72.5°	185.9
75°	155.5
77.5°	125.2
80°	94.8
82.5°	68.3
85°	41.7
87.5°	19.0
90°	0.0



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— 0°-180°







(END OF REPORT)