

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: P593360

Luminaire Tested: **HC650D010-HM64560950-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC650D010-HM64560950-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4743.9 lumens  
Efficiency: N/A  
Efficacy: 98.8 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

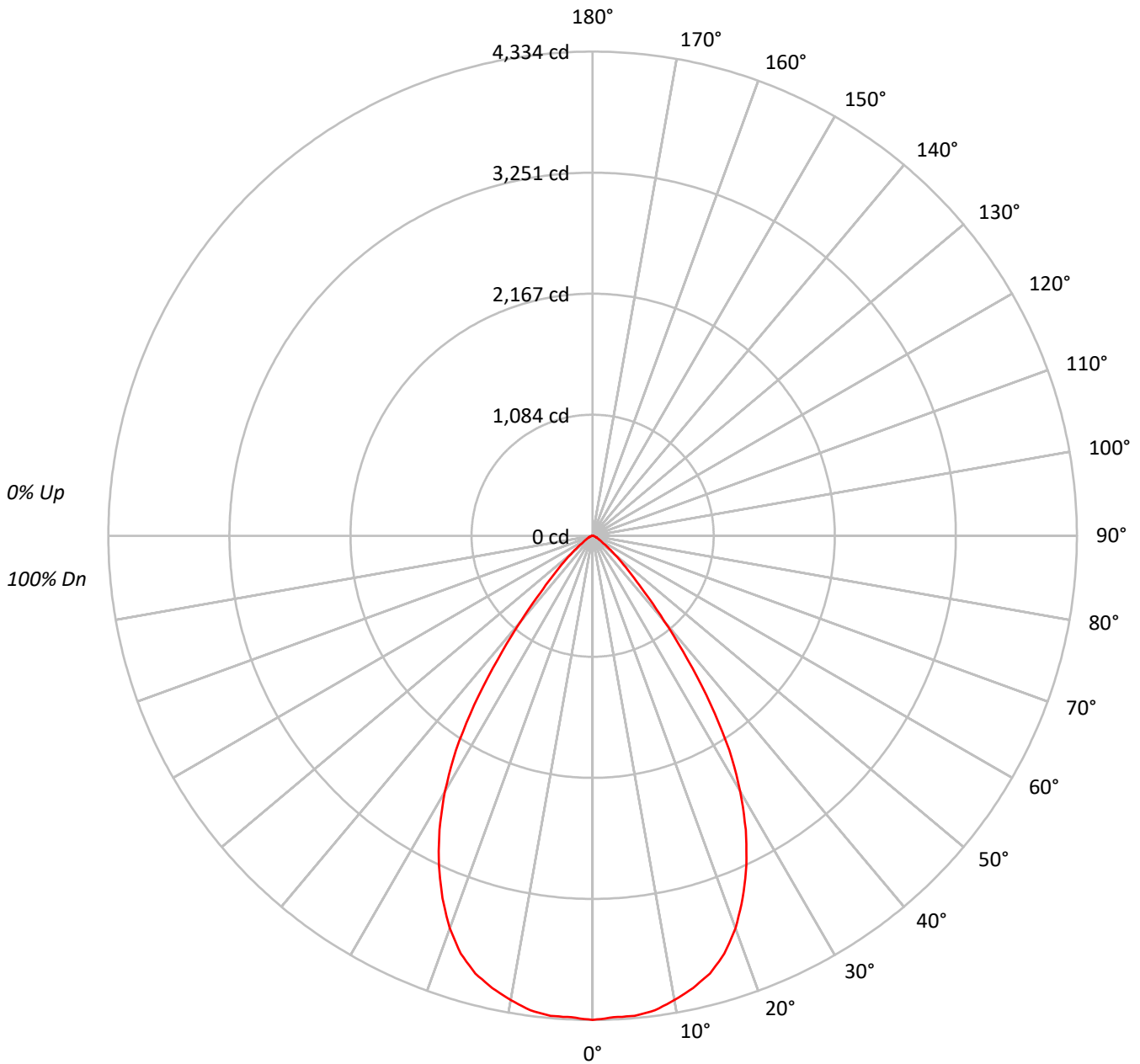
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57	57	57	57
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

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

	0°
0°	237591
5°	237398
10°	234921
15°	230194
20°	218063
25°	196917
30°	167279
35°	123500
40°	71427
45°	37919
50°	21424
55°	11211
60°	7346
65°	5215
70°	3767
75°	2817
80°	2115
85°	2076



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.8	8.6
10°-20°	1134.4	23.9
20°-30°	1480.7	31.2
30°-40°	1131.5	23.9
40°-50°	409.7	8.6
50°-60°	119.0	2.5
60°-70°	42.6	0.9
70°-80°	14.5	0.3
80°-90°	2.7	0.1
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°	3023.9	63.7
0°-40°	4155.4	87.6
0°-60°	4684.1	98.7
0°-90°	4743.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4743.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4334	
5°	4314	409
15°	4056	1134
25°	3256	1481
35°	1845	1131
45°	489	410
55°	117	119
65°	40	43
75°	13	15
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4334.0
2.5°	4314.0
5°	4314.0
7.5°	4283.7
10°	4220.2
12.5°	4146.5
15°	4056.0
17.5°	3922.1
20°	3737.9
22.5°	3510.1
25°	3255.5
27.5°	2967.5
30°	2642.6
32.5°	2277.6
35°	1845.4
37.5°	1393.3
40°	998.1
42.5°	689.9
45°	489.1
47.5°	351.7
50°	251.2
52.5°	177.5
55°	117.3
57.5°	83.7
60°	67.0
62.5°	53.6
65°	40.2
67.5°	33.5
70°	23.5
72.5°	16.8
75°	13.3
77.5°	10.0
80°	6.7
82.5°	3.3
85°	3.3
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)