

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: P593351

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593351  
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-HM64560850-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5372.8 lumens  
Efficiency: N/A  
Efficacy: 111.9 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

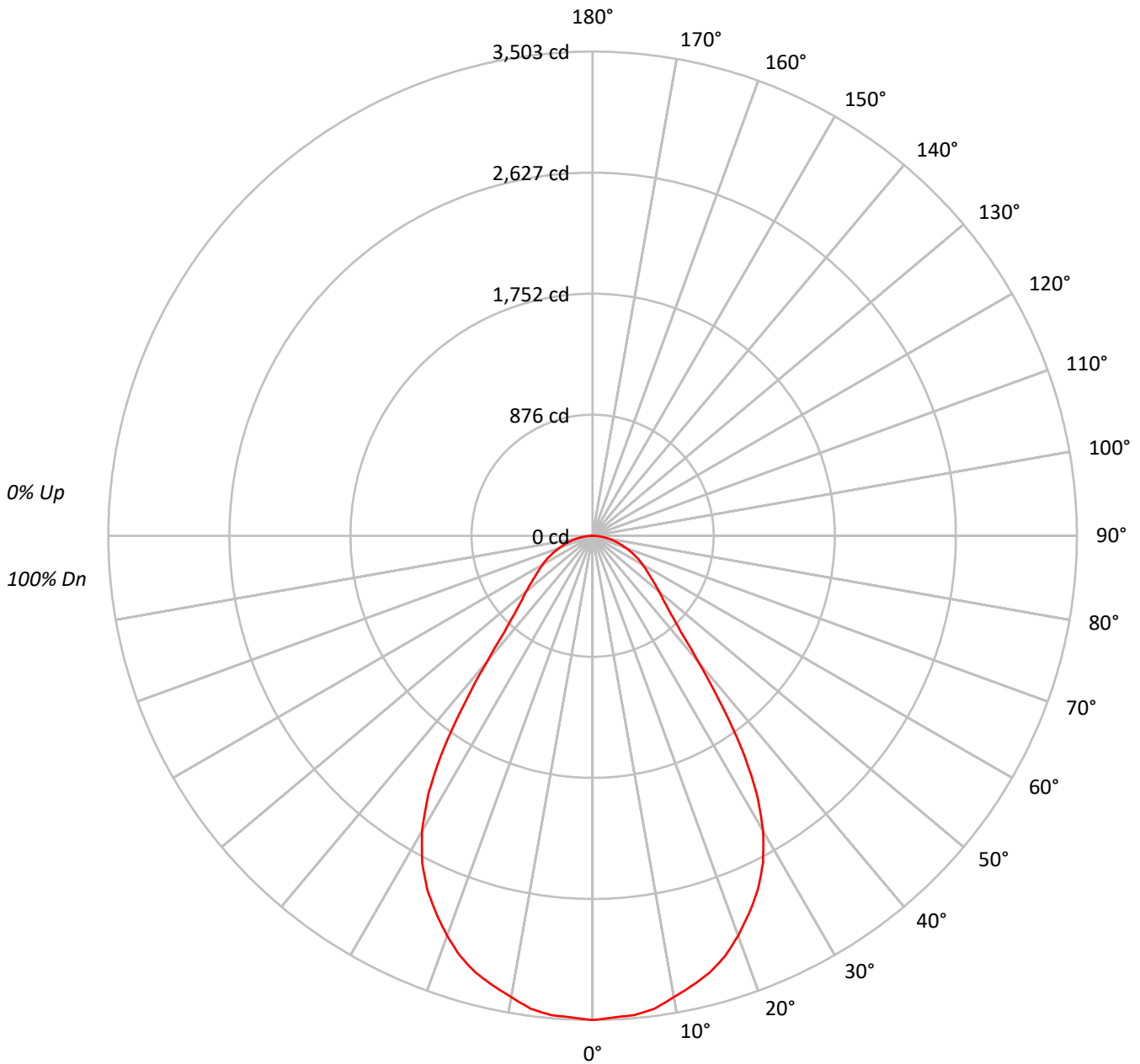
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56			
6	78	67	59	54	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

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

	0°
0°	192041
5°	191519
10°	188663
15°	185671
20°	179560
25°	171022
30°	156163
35°	125722
40°	84737
45°	61797
50°	53405
55°	48247
60°	45775
65°	43325
70°	40760
75°	38592
80°	35926
85°	33399



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.4	6.1
10°-20°	918.7	17.1
20°-30°	1290.8	24.0
30°-40°	1149.0	21.4
40°-50°	642.1	12.0
50°-60°	457.5	8.5
60°-70°	332.9	6.2
70°-80°	192.7	3.6
80°-90°	59.9	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°	2538.9	47.3
0°-40°	3687.8	68.6
0°-60°	4787.4	89.1
0°-90°	5372.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5372.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3503	
5°	3480	329
15°	3272	919
25°	2827	1291
35°	1879	1149
45°	797	642
55°	505	457
65°	334	333
75°	182	193
85°	53	60
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3503.1
2.5°	3487.8
5°	3480.3
7.5°	3449.9
10°	3389.2
12.5°	3332.3
15°	3271.5
17.5°	3188.0
20°	3077.9
22.5°	2956.5
25°	2827.4
27.5°	2668.1
30°	2467.0
32.5°	2208.8
35°	1878.6
37.5°	1506.7
40°	1184.1
42.5°	945.0
45°	797.1
47.5°	698.3
50°	626.2
52.5°	561.7
55°	504.8
57.5°	459.2
60°	417.5
62.5°	379.6
65°	334.0
67.5°	296.1
70°	254.3
72.5°	216.4
75°	182.2
77.5°	148.0
80°	113.8
82.5°	83.5
85°	53.1
87.5°	26.6
90°	0.0



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— 0°-180°







(END OF REPORT)