

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: P582732

Luminaire Tested: **HC650D010-HM64560830-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC650D010-HM64560830-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5157.5 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

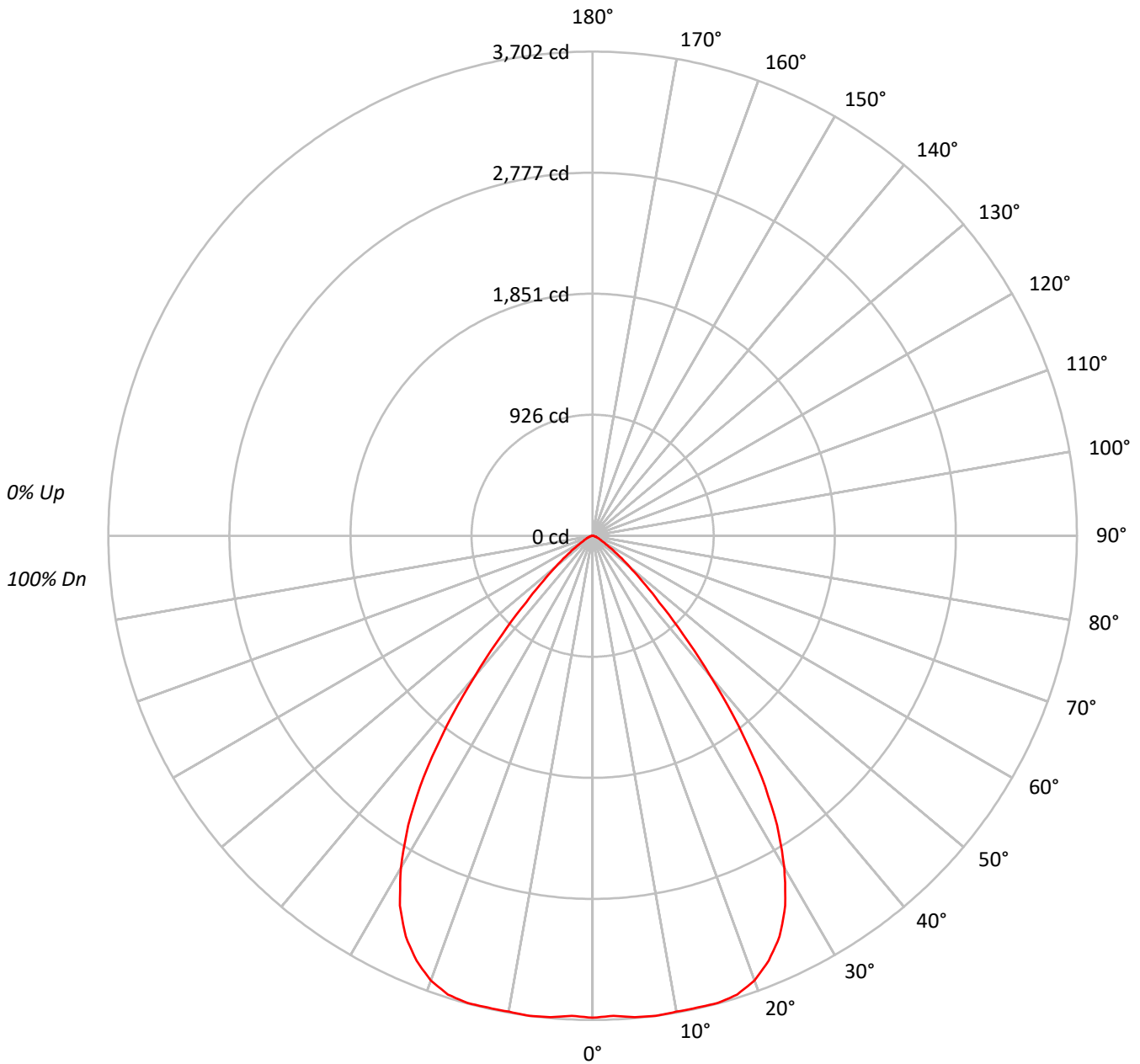
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92	92	92	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84	84	84	84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77	77	77	77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70	70	70	70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64	64	64	64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59	59	59	59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54	54	54	54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50	50	50	50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46	46	46	46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43	43	43	43

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

	0°
0°	201985
5°	203334
10°	205685
15°	209899
20°	211080
25°	204508
30°	185529
35°	150838
40°	100123
45°	55727
50°	31240
55°	17337
60°	9572
65°	7251
70°	5033
75°	3707
80°	2210
85°	2201



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	352.7	6.8
10°-20°	1042.8	20.2
20°-30°	1537.0	29.8
30°-40°	1374.7	26.7
40°-50°	596.4	11.6
50°-60°	175.2	3.4
60°-70°	56.0	1.1
70°-80°	19.7	0.4
80°-90°	2.9	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°	2932.5	56.9
0°-40°	4307.3	83.5
0°-60°	5078.9	98.5
0°-90°	5157.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5157.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3684	
5°	3695	353
15°	3698	1043
25°	3381	1537
35°	2254	1375
45°	719	596
55°	181	175
65°	56	56
75°	18	20
85°	4	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3684.5
2.5°	3674.0
5°	3695.0
7.5°	3702.0
10°	3695.0
12.5°	3695.0
15°	3698.4
17.5°	3677.5
20°	3618.2
22.5°	3517.0
25°	3381.0
27.5°	3189.1
30°	2930.9
32.5°	2623.8
35°	2253.9
37.5°	1831.7
40°	1399.1
42.5°	1022.3
45°	718.8
47.5°	512.9
50°	366.3
52.5°	261.7
55°	181.4
57.5°	122.1
60°	87.3
62.5°	69.8
65°	55.9
67.5°	41.9
70°	31.4
72.5°	24.4
75°	17.5
77.5°	13.9
80°	7.0
82.5°	3.5
85°	3.5
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)