

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: P582716

Luminaire Tested: **HC650D010-HM64560827-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC650D010-HM64560827-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5079.3 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.05  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

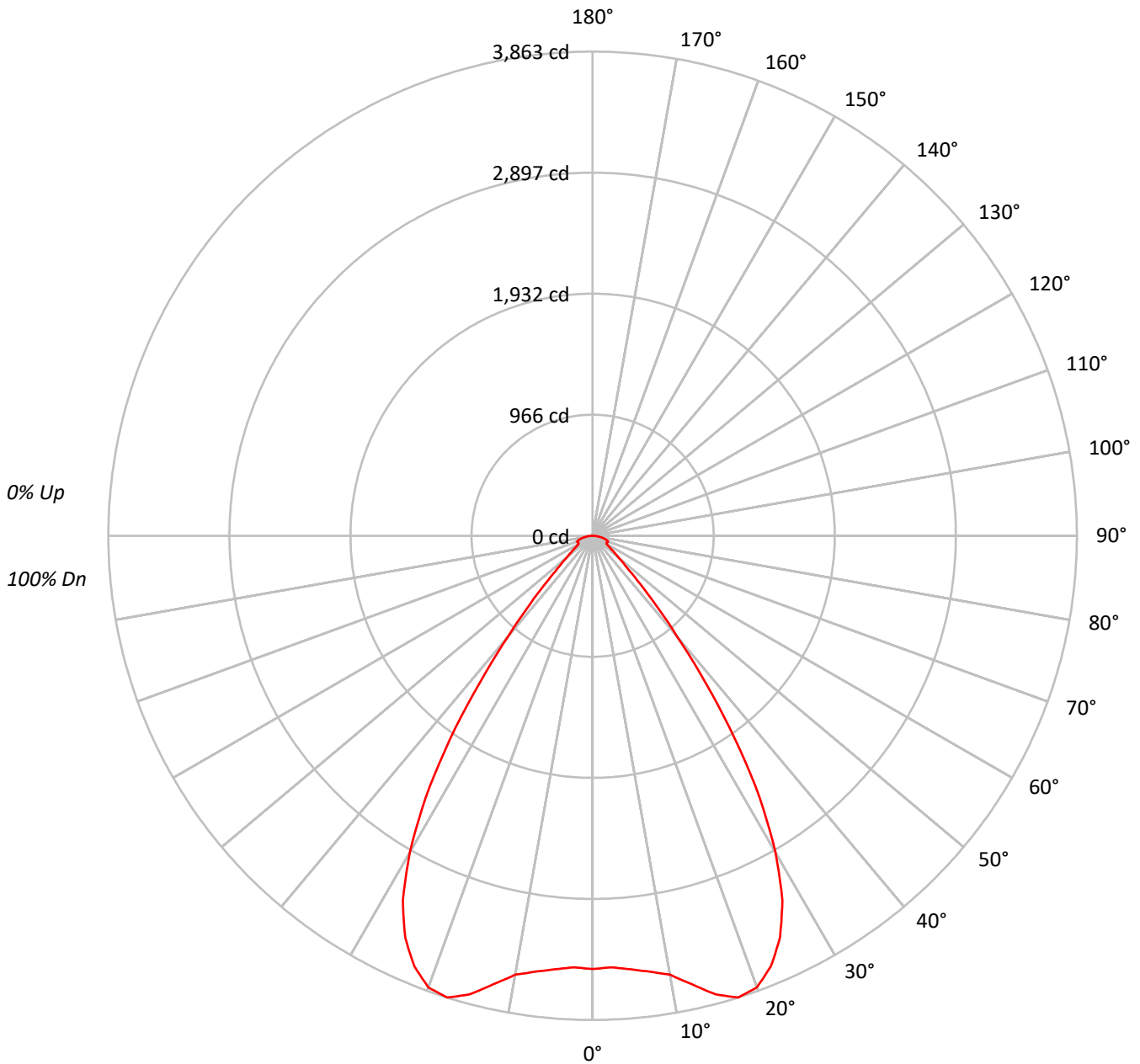
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75
4	93	85	78	73	91	83	78	73	81	76	72	79	75	71	77	73	70	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	65	63			63
6	83	73	66	61	81	72	66	61	70	65	60	69	64	60	67	63	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	64	59	55	63	59	55	54			54
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	48	45	53	48	44	53	48	44	43			43

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

	0°
0°	189442
5°	191052
10°	197937
15°	215001
20°	223640
25°	213908
30°	184611
35°	132923
40°	74883
45°	38810
50°	23138
55°	16668
60°	14166
65°	16344
70°	20709
75°	21880
80°	21404
85°	20254



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	334.1	6.6
10°-20°	1068.5	21.0
20°-30°	1597.0	31.4
30°-40°	1220.8	24.0
40°-50°	426.4	8.4
50°-60°	162.5	3.2
60°-70°	127.5	2.5
70°-80°	107.8	2.1
80°-90°	34.7	0.7
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°	2999.6	59.1
0°-40°	4220.4	83.1
0°-60°	4809.3	94.7
0°-90°	5079.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5079.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3456	
5°	3472	334
15°	3788	1068
25°	3536	1597
35°	1986	1221
45°	501	426
55°	174	162
65°	126	127
75°	103	108
85°	32	35
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3455.7
2.5°	3446.0
5°	3471.8
7.5°	3507.3
10°	3555.8
12.5°	3665.6
15°	3788.3
17.5°	3862.6
20°	3833.5
22.5°	3717.3
25°	3536.4
27.5°	3278.1
30°	2916.4
32.5°	2483.5
35°	1986.2
37.5°	1472.7
40°	1046.4
42.5°	733.2
45°	500.6
47.5°	352.1
50°	271.3
52.5°	213.2
55°	174.4
57.5°	142.1
60°	129.2
62.5°	126.0
65°	126.0
67.5°	132.4
70°	129.2
72.5°	119.5
75°	103.3
77.5°	87.2
80°	67.8
82.5°	48.4
85°	32.2
87.5°	12.9
90°	0.0



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— 0°-180°







(END OF REPORT)