

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: P593370

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593370  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC650D010-HM64560950-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4887.9 lumens  
Efficiency: N/A  
Efficacy: 101.8 lumens/watt  
Spacing Criteria (0/90/45): 1.11 / 1.11 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

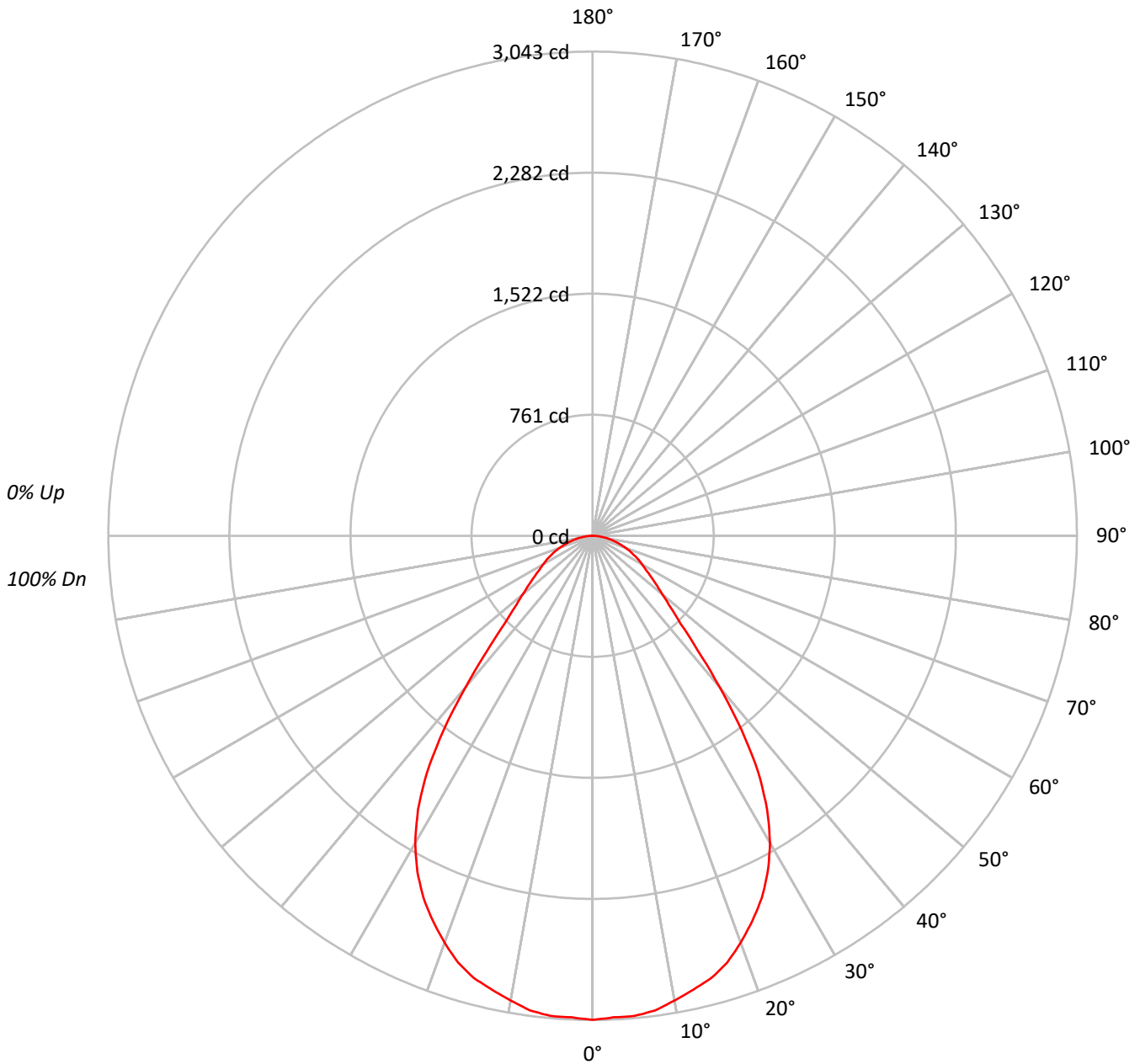
Input Watts (W): 48  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	92	90	89			
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			

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

	0°
0°	166796
5°	166701
10°	165083
15°	163372
20°	158756
25°	152053
30°	141117
35°	121419
40°	88630
45°	60719
50°	48817
55°	42550
60°	39273
65°	37332
70°	34862
75°	32619
80°	29612
85°	25285



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	287.2	5.9
10°-20°	808.5	16.5
20°-30°	1149.8	23.5
30°-40°	1107.0	22.6
40°-50°	636.9	13.0
50°-60°	403.5	8.3
60°-70°	285.7	5.8
70°-80°	162.9	3.3
80°-90°	46.5	1.0
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°	2245.4	45.9
0°-40°	3352.4	68.6
0°-60°	4392.9	89.9
0°-90°	4887.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4887.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3043	
5°	3029	287
15°	2879	808
25°	2514	1150
35°	1814	1107
45°	783	637
55°	445	404
65°	288	286
75°	154	163
85°	40	46
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3042.6
2.5°	3029.3
5°	3029.3
7.5°	3009.2
10°	2965.6
12.5°	2922.1
15°	2878.6
17.5°	2811.7
20°	2721.3
22.5°	2620.9
25°	2513.8
27.5°	2383.3
30°	2229.3
32.5°	2041.8
35°	1814.3
37.5°	1536.4
40°	1238.5
42.5°	977.4
45°	783.2
47.5°	659.4
50°	572.4
52.5°	502.0
55°	445.2
57.5°	394.9
60°	358.2
62.5°	324.7
65°	287.8
67.5°	254.4
70°	217.5
72.5°	184.1
75°	154.0
77.5°	123.9
80°	93.8
82.5°	67.0
85°	40.2
87.5°	16.8
90°	0.0



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— 0°-180°







(END OF REPORT)