

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: P582121

Luminaire Tested: **HC625D010-HM60525940-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582121  
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: HC625D010-HM60525940-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2381.5 lumens  
Efficiency: N/A  
Efficacy: 88.9 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

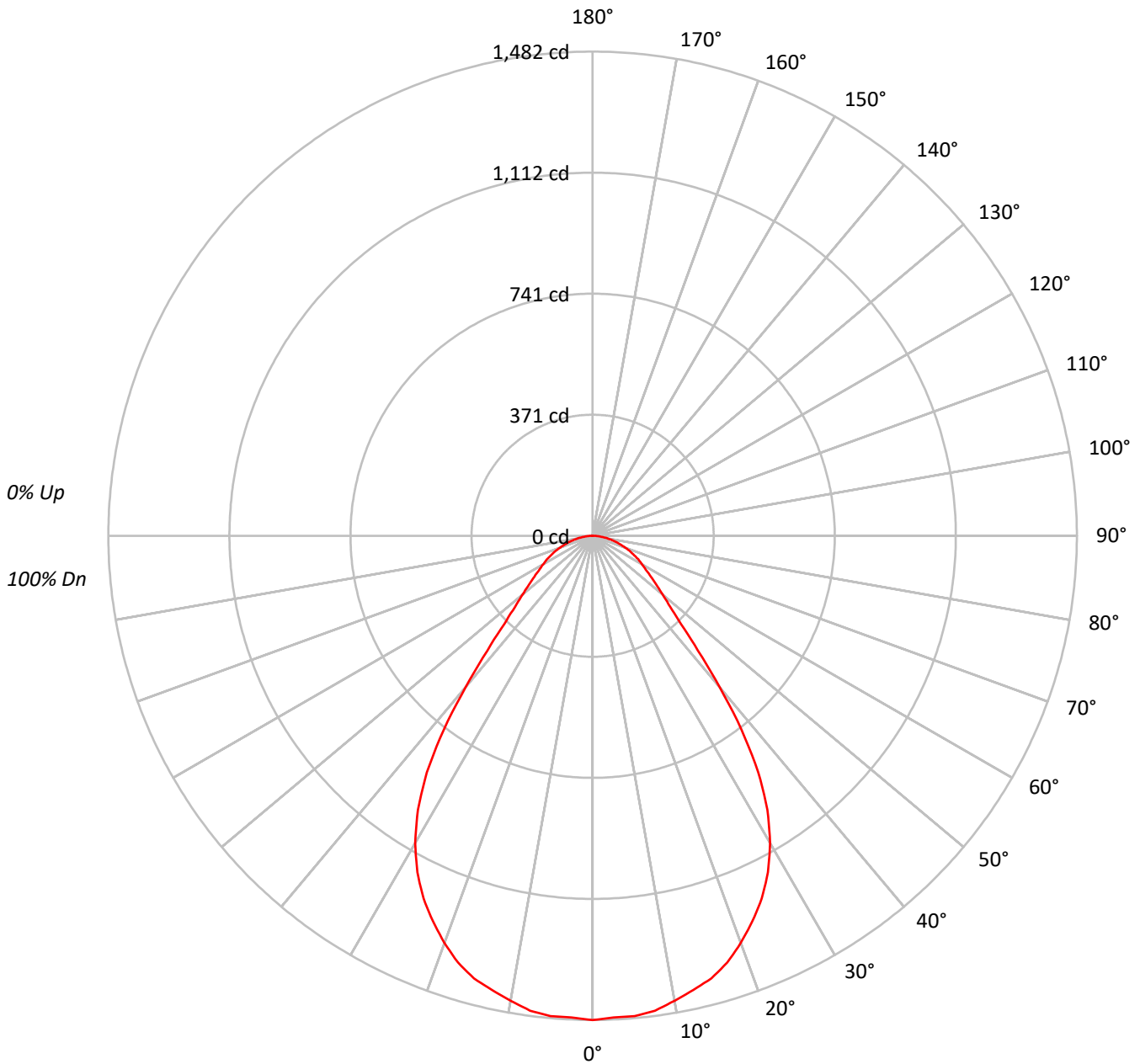
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	97	91	87	101	95	90	86	91	87	84	88	85	82	85	83	80	78			78
3	96	87	81	76	94	86	80	75	83	78	74	81	76	72	78	74	71	69			69
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	61	58	56			56
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	51			51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46			46
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42			42
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	41	39			39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	47	41	38	36			36

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

	0°
0°	81265
5°	81218
10°	80437
15°	79598
20°	77351
25°	74085
30°	68751
35°	59160
40°	43181
45°	29592
50°	23786
55°	20730
60°	19132
65°	18186
70°	16990
75°	15907
80°	14396
85°	12265



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.9	5.9
10°-20°	393.9	16.5
20°-30°	560.2	23.5
30°-40°	539.3	22.6
40°-50°	310.4	13.0
50°-60°	196.6	8.3
60°-70°	139.2	5.8
70°-80°	79.4	3.3
80°-90°	22.6	0.9
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°	1094.0	45.9
0°-40°	1633.4	68.6
0°-60°	2140.4	89.9
0°-90°	2381.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2381.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1482	
5°	1476	140
15°	1402	394
25°	1225	560
35°	884	539
45°	382	310
55°	217	197
65°	140	139
75°	75	79
85°	20	23
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1482.4
2.5°	1475.9
5°	1475.9
7.5°	1466.1
10°	1445.0
12.5°	1423.8
15°	1402.5
17.5°	1369.9
20°	1325.9
22.5°	1276.9
25°	1224.8
27.5°	1161.2
30°	1086.1
32.5°	994.9
35°	884.0
37.5°	748.5
40°	603.4
42.5°	476.3
45°	381.7
47.5°	321.3
50°	278.9
52.5°	244.6
55°	216.9
57.5°	192.5
60°	174.5
62.5°	158.3
65°	140.2
67.5°	123.9
70°	106.0
72.5°	89.7
75°	75.1
77.5°	60.4
80°	45.6
82.5°	32.6
85°	19.5
87.5°	8.1
90°	0.0



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— 0°-180°







(END OF REPORT)