

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: P593172

Luminaire Tested: **HC625D010-HM60525850-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593172  
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-HM60525850-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2834.3 lumens  
Efficiency: N/A  
Efficacy: 105.8 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

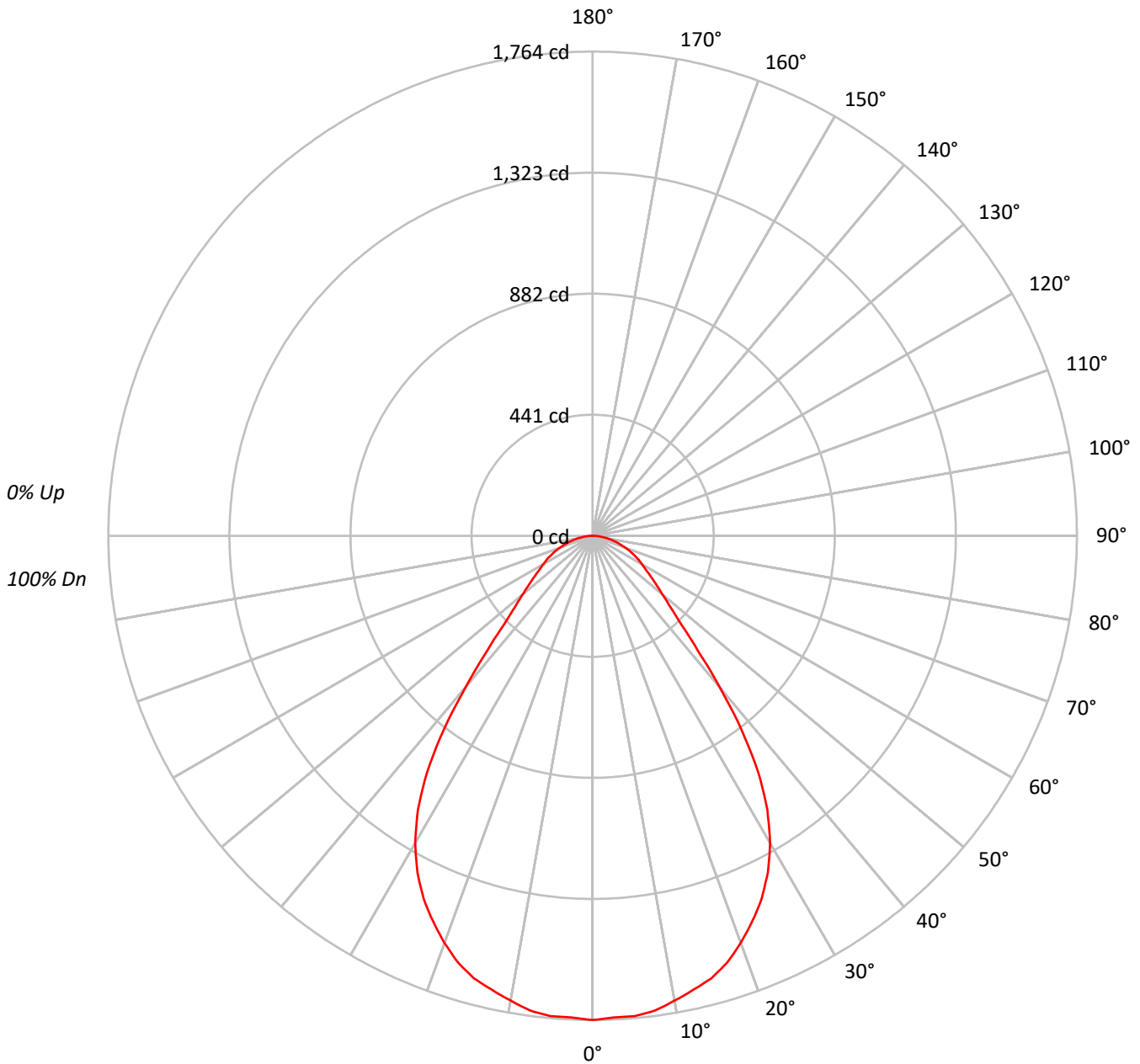
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			
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	62	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°	96719
5°	96665
10°	95723
15°	94734
20°	92058
25°	88166
30°	81829
35°	70403
40°	51389
45°	35213
50°	28306
55°	24668
60°	22761
65°	21650
70°	20228
75°	18915
80°	17174
85°	14655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.5	5.9
10°-20°	468.8	16.5
20°-30°	666.7	23.5
30°-40°	641.9	22.6
40°-50°	369.3	13.0
50°-60°	234.0	8.3
60°-70°	165.6	5.8
70°-80°	94.5	3.3
80°-90°	26.9	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°	1302.0	45.9
0°-40°	1943.9	68.6
0°-60°	2547.2	89.9
0°-90°	2834.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2834.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1764	
5°	1757	167
15°	1669	469
25°	1458	667
35°	1052	642
45°	454	369
55°	258	234
65°	167	166
75°	89	94
85°	23	27
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1764.3
2.5°	1756.6
5°	1756.6
7.5°	1744.9
10°	1719.6
12.5°	1694.4
15°	1669.2
17.5°	1630.4
20°	1578.0
22.5°	1519.8
25°	1457.6
27.5°	1381.9
30°	1292.7
32.5°	1184.0
35°	1052.0
37.5°	890.9
40°	718.1
42.5°	566.7
45°	454.2
47.5°	382.4
50°	331.9
52.5°	291.2
55°	258.1
57.5°	229.0
60°	207.6
62.5°	188.3
65°	166.9
67.5°	147.5
70°	126.2
72.5°	106.8
75°	89.3
77.5°	71.8
80°	54.4
82.5°	38.8
85°	23.3
87.5°	9.6
90°	0.0



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— 0°-180°







(END OF REPORT)