

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: P582086

Luminaire Tested: **HC625D010-HM60525930-61WDWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582086  
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: HC625D010-HM60525930-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2407.1 lumens  
Efficiency: N/A  
Efficacy: 89.8 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

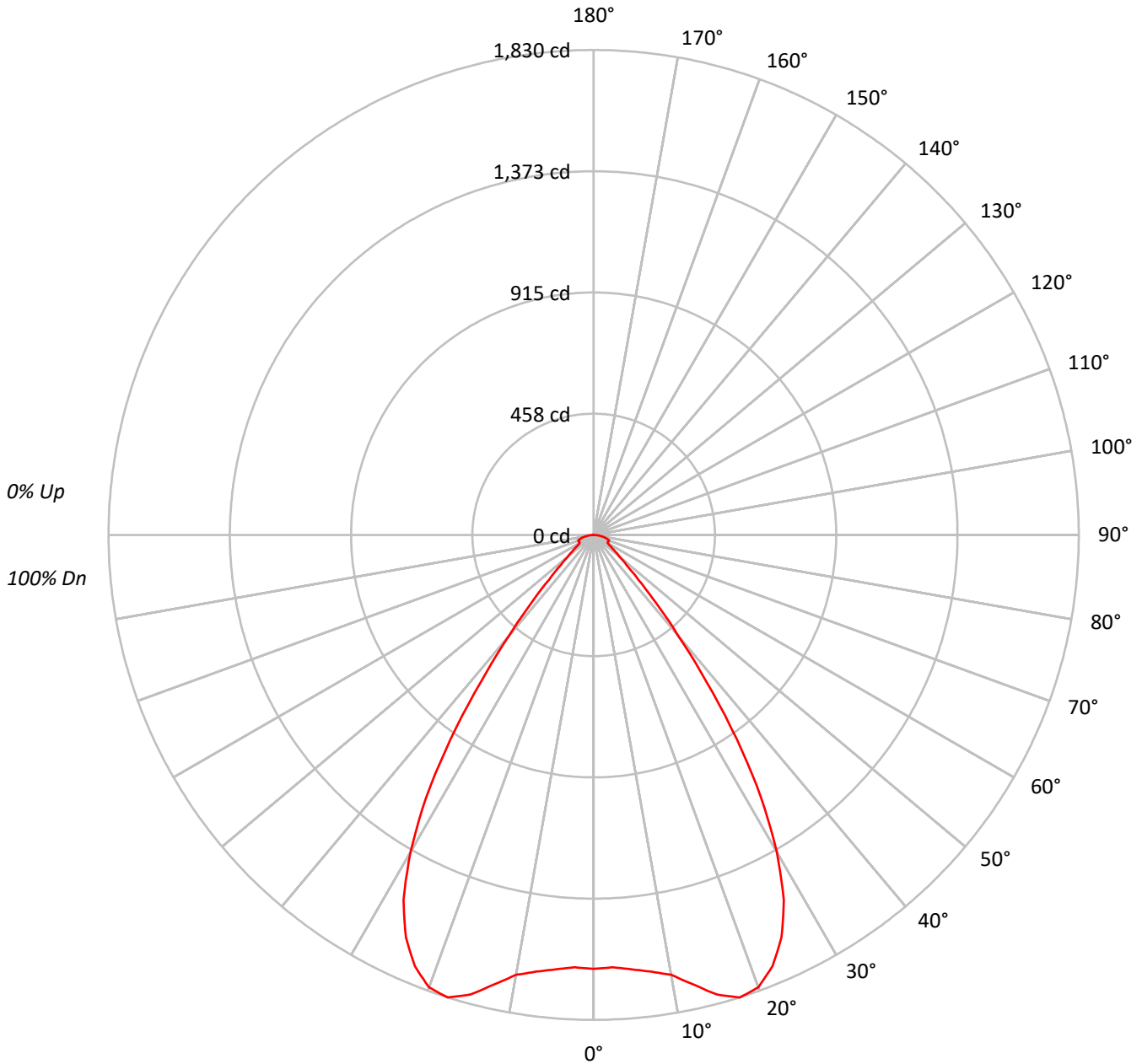
Input Watts (W): 26.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°
0°	89779
5°	90540
10°	93808
15°	101890
20°	105983
25°	101371
30°	87488
35°	62995
40°	35488
45°	18390
50°	10968
55°	7904
60°	6721
65°	7731
70°	9825
75°	10379
80°	10165
85°	9624



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.3	6.6
10°-20°	506.4	21.0
20°-30°	756.8	31.4
30°-40°	578.5	24.0
40°-50°	202.1	8.4
50°-60°	77.0	3.2
60°-70°	60.4	2.5
70°-80°	51.1	2.1
80°-90°	16.4	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°	1421.5	59.1
0°-40°	2000.1	83.1
0°-60°	2279.2	94.7
0°-90°	2407.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2407.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1638	
5°	1645	158
15°	1795	506
25°	1676	757
35°	941	579
45°	237	202
55°	83	77
65°	60	60
75°	49	51
85°	15	16
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1637.7
2.5°	1633.0
5°	1645.3
7.5°	1662.2
10°	1685.2
12.5°	1737.2
15°	1795.3
17.5°	1830.5
20°	1816.7
22.5°	1761.7
25°	1675.9
27.5°	1553.5
30°	1382.1
32.5°	1176.9
35°	941.3
37.5°	697.9
40°	495.9
42.5°	347.5
45°	237.2
47.5°	166.8
50°	128.6
52.5°	101.0
55°	82.7
57.5°	67.3
60°	61.3
62.5°	59.6
65°	59.6
67.5°	62.8
70°	61.3
72.5°	56.6
75°	49.0
77.5°	41.3
80°	32.2
82.5°	22.9
85°	15.3
87.5°	6.1
90°	0.0



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— 0°-180°







(END OF REPORT)