

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: P581635

Luminaire Tested: **HC610D010-HM60525927-61WDW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581635  
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: HC610D010-HM60525927-61WDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 894.7 lumens  
Efficiency: N/A  
Efficacy: 90.4 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

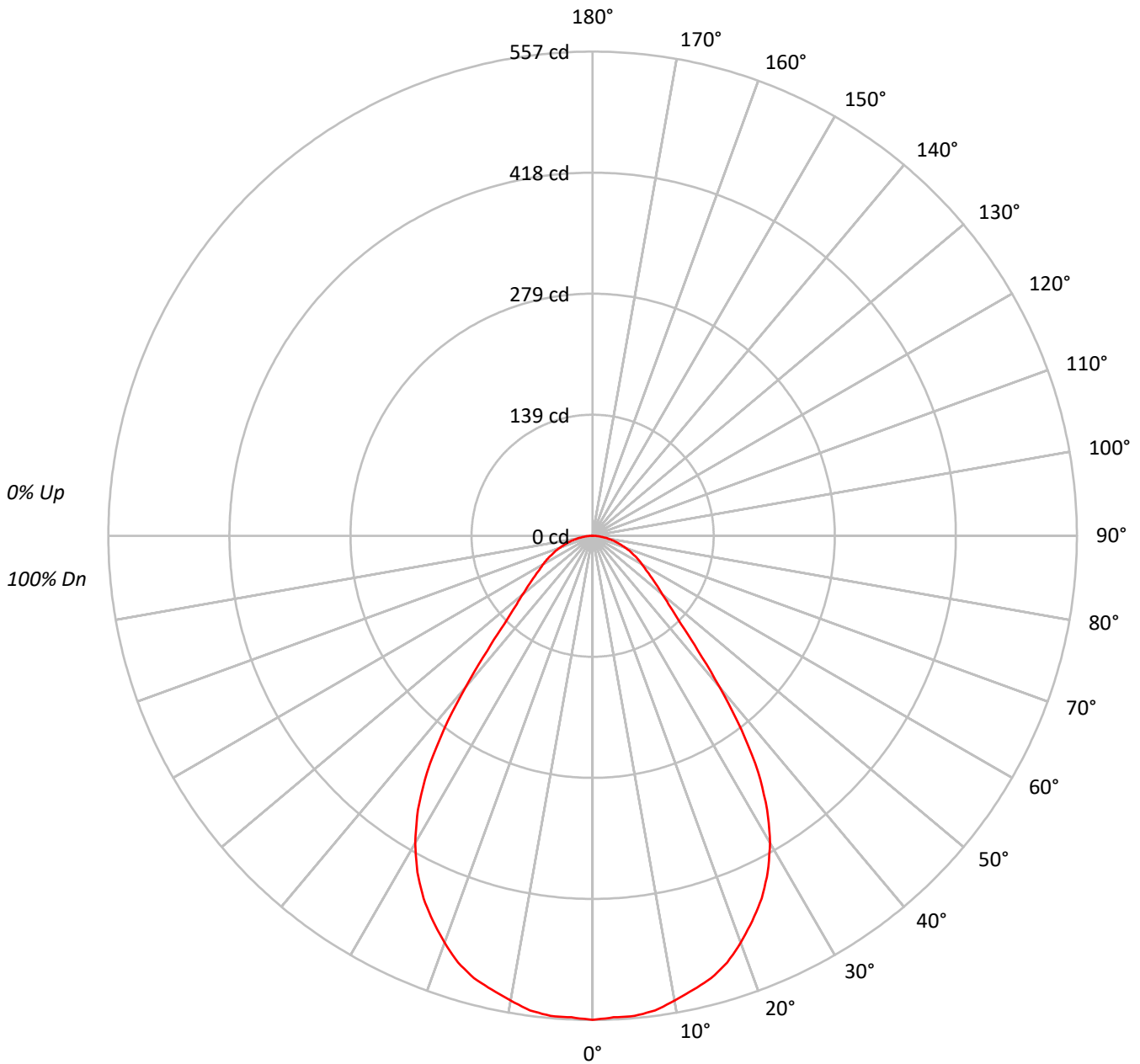
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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°	30529
5°	30514
10°	30221
15°	29904
20°	29064
25°	27836
30°	25833
35°	22225
40°	16223
45°	11117
50°	8938
55°	7789
60°	7181
65°	6823
70°	6379
75°	5973
80°	5430
85°	4655



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.6	5.9
10°-20°	148.0	16.5
20°-30°	210.5	23.5
30°-40°	202.6	22.6
40°-50°	116.6	13.0
50°-60°	73.9	8.3
60°-70°	52.2	5.8
70°-80°	29.8	3.3
80°-90°	8.5	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°	411.0	45.9
0°-40°	613.7	68.6
0°-60°	804.2	89.9
0°-90°	894.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	557	
5°	554	53
15°	527	148
25°	460	210
35°	332	203
45°	143	117
55°	82	74
65°	53	52
75°	28	30
85°	7	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	556.9
2.5°	554.5
5°	554.5
7.5°	550.8
10°	542.9
12.5°	534.9
15°	526.9
17.5°	514.7
20°	498.2
22.5°	479.7
25°	460.2
27.5°	436.3
30°	408.1
32.5°	373.8
35°	332.1
37.5°	281.2
40°	226.7
42.5°	179.0
45°	143.4
47.5°	120.7
50°	104.8
52.5°	91.9
55°	81.5
57.5°	72.3
60°	65.5
62.5°	59.4
65°	52.6
67.5°	46.5
70°	39.8
72.5°	33.7
75°	28.2
77.5°	22.6
80°	17.2
82.5°	12.2
85°	7.4
87.5°	3.1
90°	0.0



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— 0°-180°







(END OF REPORT)