

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: P581636

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581636  
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: HC610D010-HM60525927-61WDWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, WHITE BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 963.9 lumens  
Efficiency: N/A  
Efficacy: 97.4 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

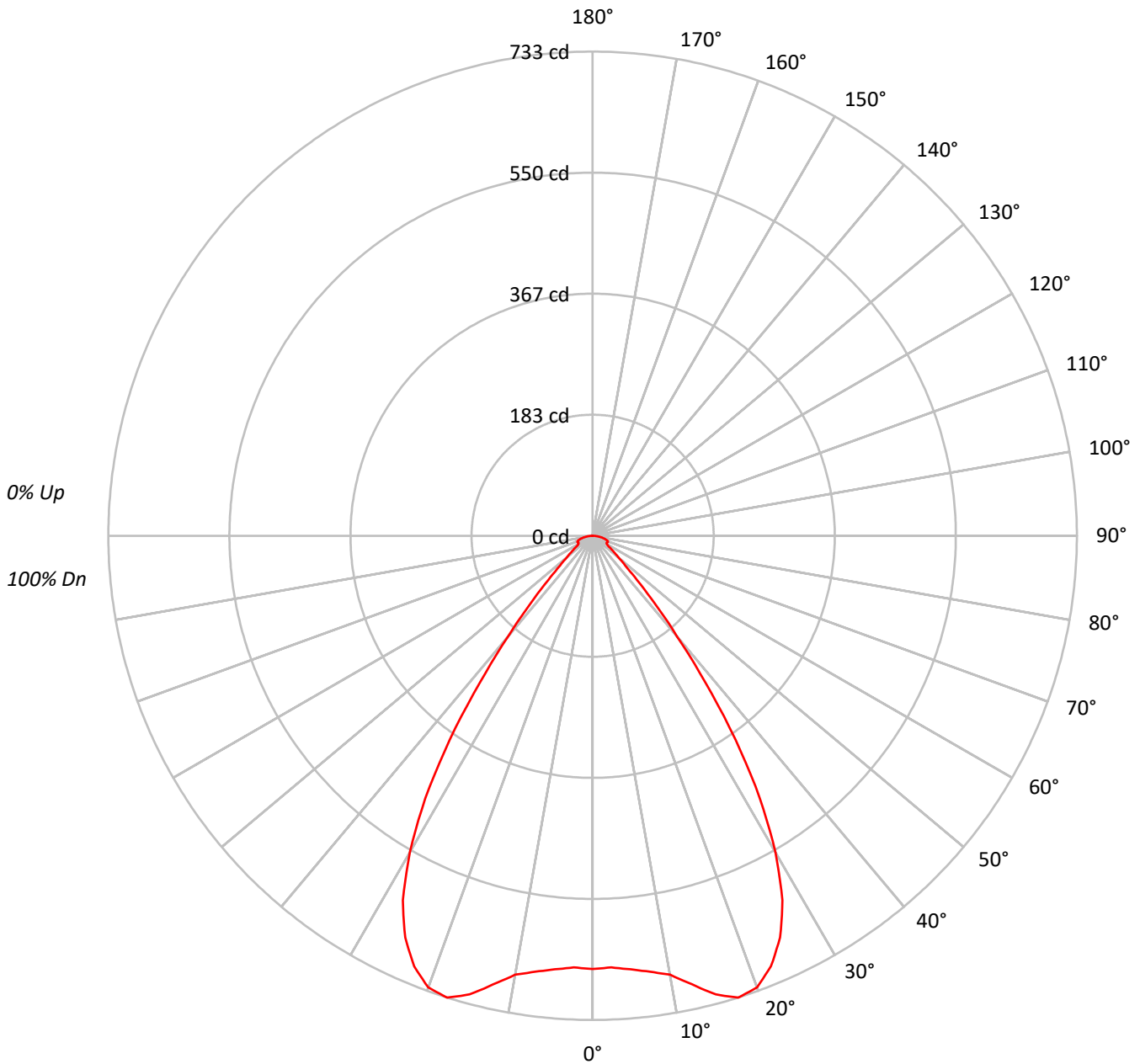
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
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°	35957
5°	36259
10°	37563
15°	40800
20°	42441
25°	40599
30°	35031
35°	25230
40°	14212
45°	7365
50°	4392
55°	3164
60°	2697
65°	3100
70°	3943
75°	4151
80°	4072
85°	3837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.4	6.6
10°-20°	202.8	21.0
20°-30°	303.1	31.4
30°-40°	231.7	24.0
40°-50°	80.9	8.4
50°-60°	30.8	3.2
60°-70°	24.2	2.5
70°-80°	20.4	2.1
80°-90°	6.6	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°	569.3	59.1
0°-40°	801.0	83.1
0°-60°	912.7	94.7
0°-90°	963.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	656	
5°	659	63
15°	719	203
25°	671	303
35°	377	232
45°	95	81
55°	33	31
65°	24	24
75°	20	20
85°	6	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	655.9
2.5°	654.0
5°	658.9
7.5°	665.6
10°	674.8
12.5°	695.7
15°	718.9
17.5°	733.1
20°	727.5
22.5°	705.5
25°	671.2
27.5°	622.1
30°	553.4
32.5°	471.4
35°	377.0
37.5°	279.5
40°	198.6
42.5°	139.1
45°	95.0
47.5°	66.8
50°	51.5
52.5°	40.4
55°	33.1
57.5°	26.9
60°	24.6
62.5°	23.9
65°	23.9
67.5°	25.1
70°	24.6
72.5°	22.6
75°	19.6
77.5°	16.5
80°	12.9
82.5°	9.2
85°	6.1
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)