

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: P593074

Luminaire Tested: **HC610D010-HM60525950-61WDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593074  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-8)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC610D010-HM60525950-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1054.8 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

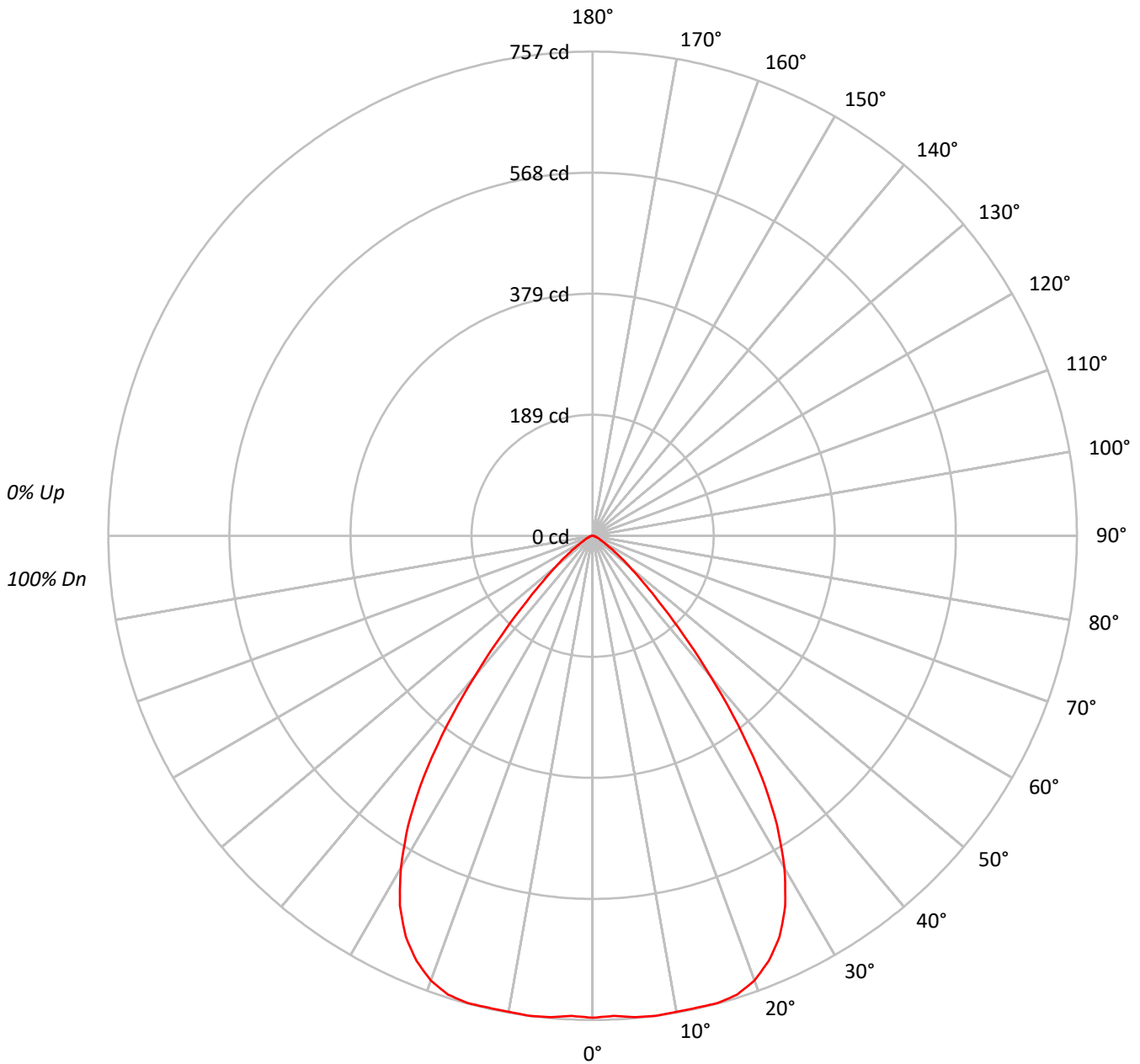
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20			
RC	80				70				50				30				10			
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	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92		
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84		
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77		
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70		
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64		
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59		
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54		
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50		
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46		
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43		

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

	0°
0°	41307
5°	41580
10°	42061
15°	42923
20°	43165
25°	41821
30°	37943
35°	30852
40°	20481
45°	11389
50°	6388
55°	3546
60°	1963
65°	1479
70°	1042
75°	763
80°	474
85°	440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.1	6.8
10°-20°	213.2	20.2
20°-30°	314.3	29.8
30°-40°	281.2	26.7
40°-50°	122.0	11.6
50°-60°	35.8	3.4
60°-70°	11.5	1.1
70°-80°	4.1	0.4
80°-90°	0.6	0.1
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°	599.7	56.9
0°-40°	880.9	83.5
0°-60°	1038.7	98.5
0°-90°	1054.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1054.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	754	
5°	756	72
15°	756	213
25°	691	314
35°	461	281
45°	147	122
55°	37	36
65°	11	11
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	753.5
2.5°	751.3
5°	755.6
7.5°	757.1
10°	755.6
12.5°	755.6
15°	756.3
17.5°	752.0
20°	739.9
22.5°	719.3
25°	691.4
27.5°	652.1
30°	599.4
32.5°	536.6
35°	461.0
37.5°	374.6
40°	286.2
42.5°	209.1
45°	146.9
47.5°	104.9
50°	74.9
52.5°	53.5
55°	37.1
57.5°	25.0
60°	17.9
62.5°	14.3
65°	11.4
67.5°	8.6
70°	6.5
72.5°	5.0
75°	3.6
77.5°	2.8
80°	1.5
82.5°	0.7
85°	0.7
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)