

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: P593054

Luminaire Tested: **HC610D010-HM60525850-61MDH**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593054  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-5)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC610D010-HM60525850-61MDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1159.8 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.01 / 0.97  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

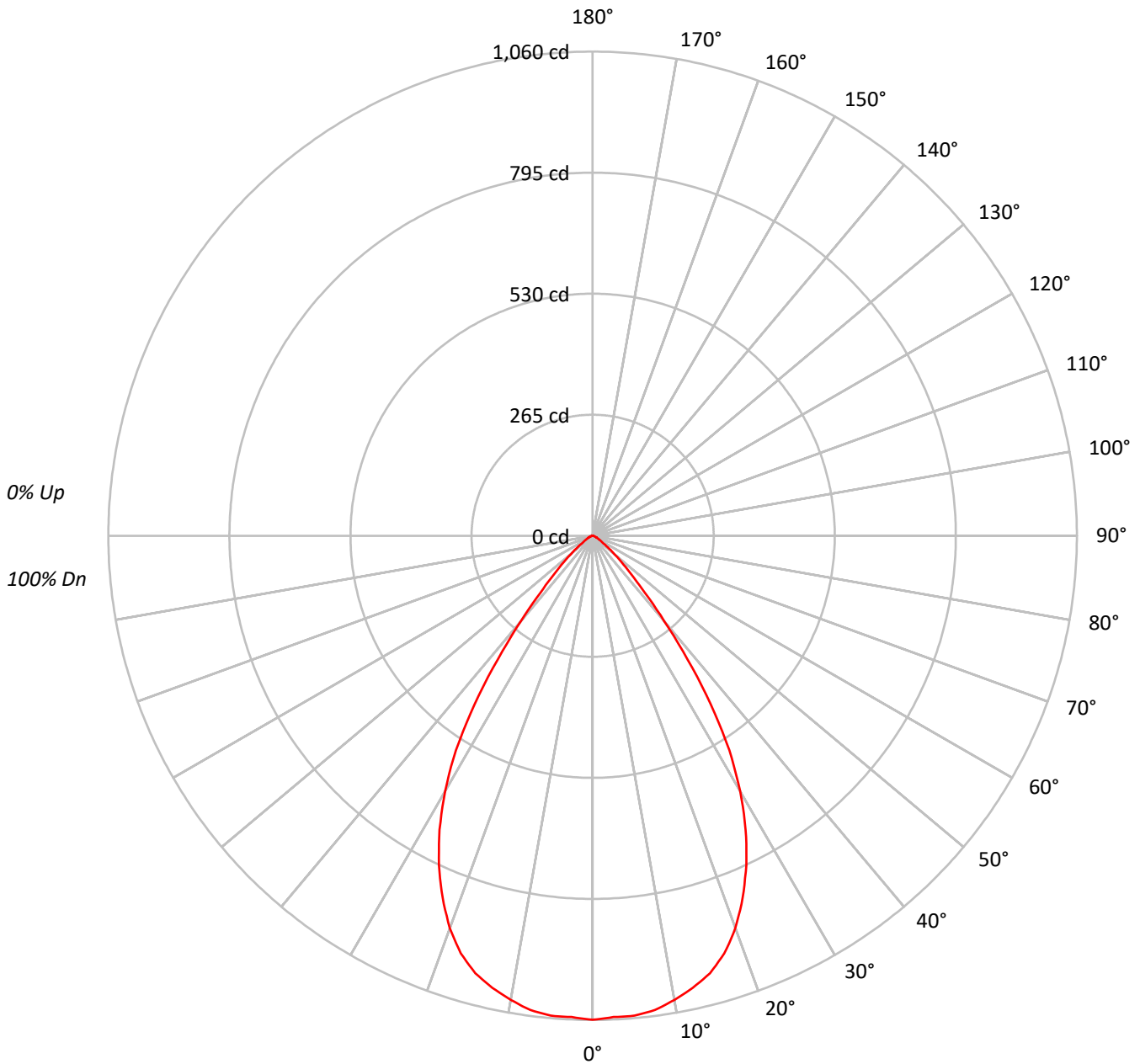
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	94	93			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79			
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72			
5	90	81	75	71	89	80	75	70	79	74	70	77	73	69	75	72	68	67			
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62			
7	81	71	65	60	79	70	64	60	69	64	60	68	63	59	67	62	59	57			
8	77	67	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			
9	73	62	56	52	72	62	56	52	61	56	52	60	55	52	59	55	51	50			
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47			

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

	0°
0°	58087
5°	58040
10°	57430
15°	56277
20°	53315
25°	48142
30°	40892
35°	30196
40°	17468
45°	9265
50°	5245
55°	2733
60°	1798
65°	1271
70°	930
75°	699
80°	505
85°	503



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.9	8.6
10°-20°	277.4	23.9
20°-30°	362.0	31.2
30°-40°	276.6	23.9
40°-50°	100.2	8.6
50°-60°	29.1	2.5
60°-70°	10.4	0.9
70°-80°	3.6	0.3
80°-90°	0.7	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°	739.3	63.7
0°-40°	1015.9	87.6
0°-60°	1145.2	98.7
0°-90°	1159.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1159.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1060	
5°	1055	100
15°	992	277
25°	796	362
35°	451	277
45°	120	100
55°	29	29
65°	10	10
75°	3	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1059.6
2.5°	1054.7
5°	1054.7
7.5°	1047.3
10°	1031.7
12.5°	1013.7
15°	991.6
17.5°	958.9
20°	913.9
22.5°	858.2
25°	795.9
27.5°	725.5
30°	646.0
32.5°	556.8
35°	451.2
37.5°	340.6
40°	244.1
42.5°	168.7
45°	119.5
47.5°	86.0
50°	61.5
52.5°	43.4
55°	28.6
57.5°	20.5
60°	16.4
62.5°	13.1
65°	9.8
67.5°	8.2
70°	5.8
72.5°	4.1
75°	3.3
77.5°	2.5
80°	1.6
82.5°	0.8
85°	0.8
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)