

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: P581634

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581634  
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-HM60525927-61WDH  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 906.4 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

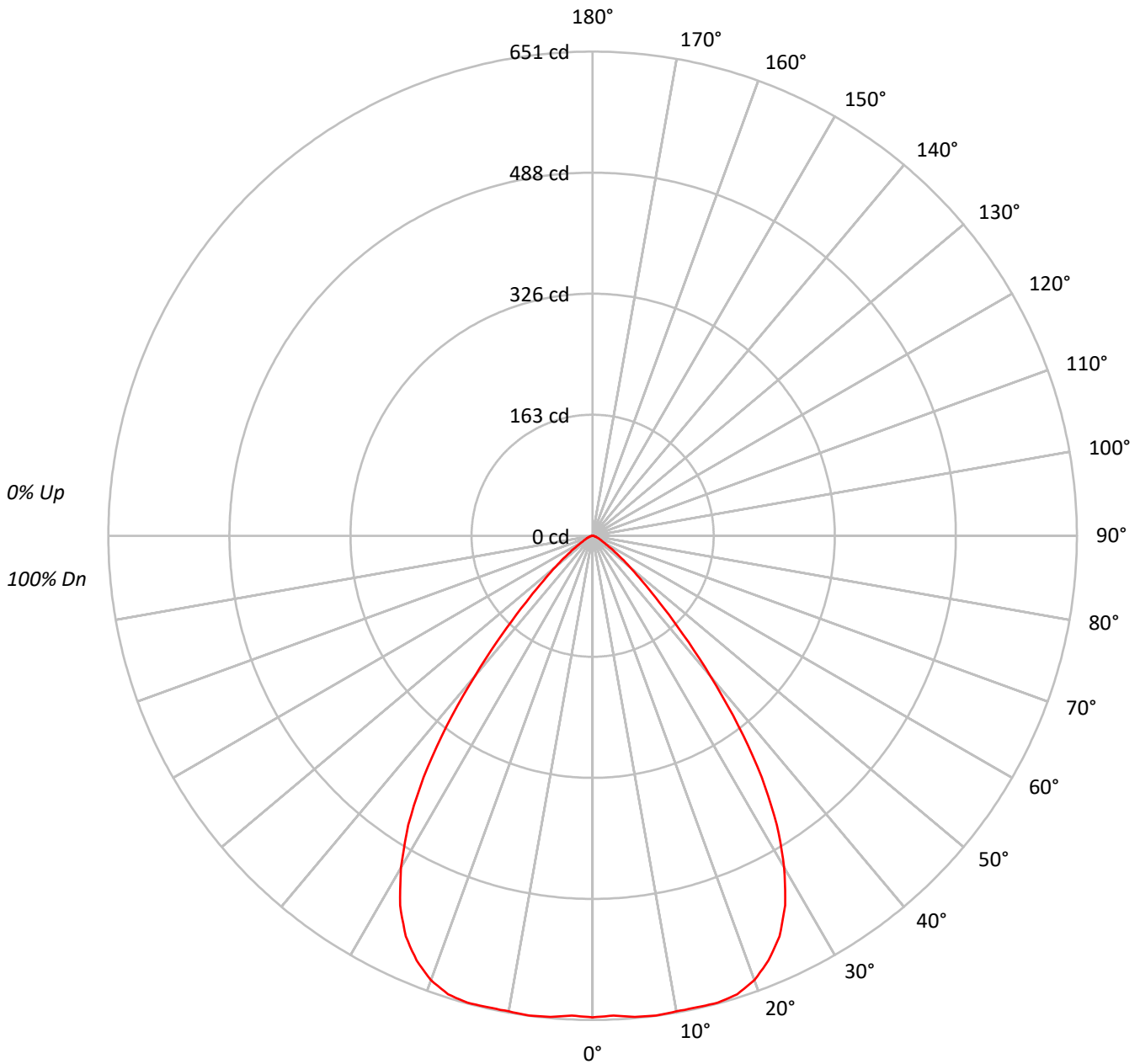
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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			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			100
1	113	110	107	105	110	108	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	83	80	84	81	78	77			77
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70			70
5	89	79	73	68	87	78	72	68	76	71	67	75	70	66	73	69	66	64			64
6	83	73	67	62	82	73	66	62	71	65	61	70	65	61	68	64	60	59			59
7	79	68	62	57	77	68	61	57	66	60	56	65	60	56	64	59	56	54			54
8	74	64	57	52	73	63	57	52	62	56	52	61	56	52	60	55	51	50			50
9	70	59	53	48	69	59	53	48	58	52	48	57	52	48	56	51	48	46			46
10	66	56	49	45	65	55	49	45	54	49	45	53	48	45	53	48	44	43			43

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

	0°
0°	35496
5°	35731
10°	36144
15°	36890
20°	37092
25°	35942
30°	32606
35°	26508
40°	17597
45°	9792
50°	5492
55°	3049
60°	1677
65°	1271
70°	882
75°	657
80°	379
85°	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.0	6.8
10°-20°	183.3	20.2
20°-30°	270.1	29.8
30°-40°	241.6	26.7
40°-50°	104.8	11.6
50°-60°	30.8	3.4
60°-70°	9.8	1.1
70°-80°	3.5	0.4
80°-90°	0.5	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°	515.4	56.9
0°-40°	757.0	83.5
0°-60°	892.6	98.5
0°-90°	906.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	906.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	648	
5°	649	62
15°	650	183
25°	594	270
35°	396	242
45°	126	105
55°	32	31
65°	10	10
75°	3	3
85°	1	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	647.5
2.5°	645.7
5°	649.3
7.5°	650.6
10°	649.3
12.5°	649.3
15°	650.0
17.5°	646.3
20°	635.8
22.5°	618.1
25°	594.2
27.5°	560.5
30°	515.1
32.5°	461.1
35°	396.1
37.5°	321.9
40°	245.9
42.5°	179.6
45°	126.3
47.5°	90.1
50°	64.4
52.5°	46.0
55°	31.9
57.5°	21.5
60°	15.3
62.5°	12.2
65°	9.8
67.5°	7.4
70°	5.5
72.5°	4.3
75°	3.1
77.5°	2.5
80°	1.2
82.5°	0.6
85°	0.6
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)