

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: P581629

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

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P581629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-12)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC610D010-HM60525927-61PSMDW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" PLASTIC TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 867.7 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.04  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

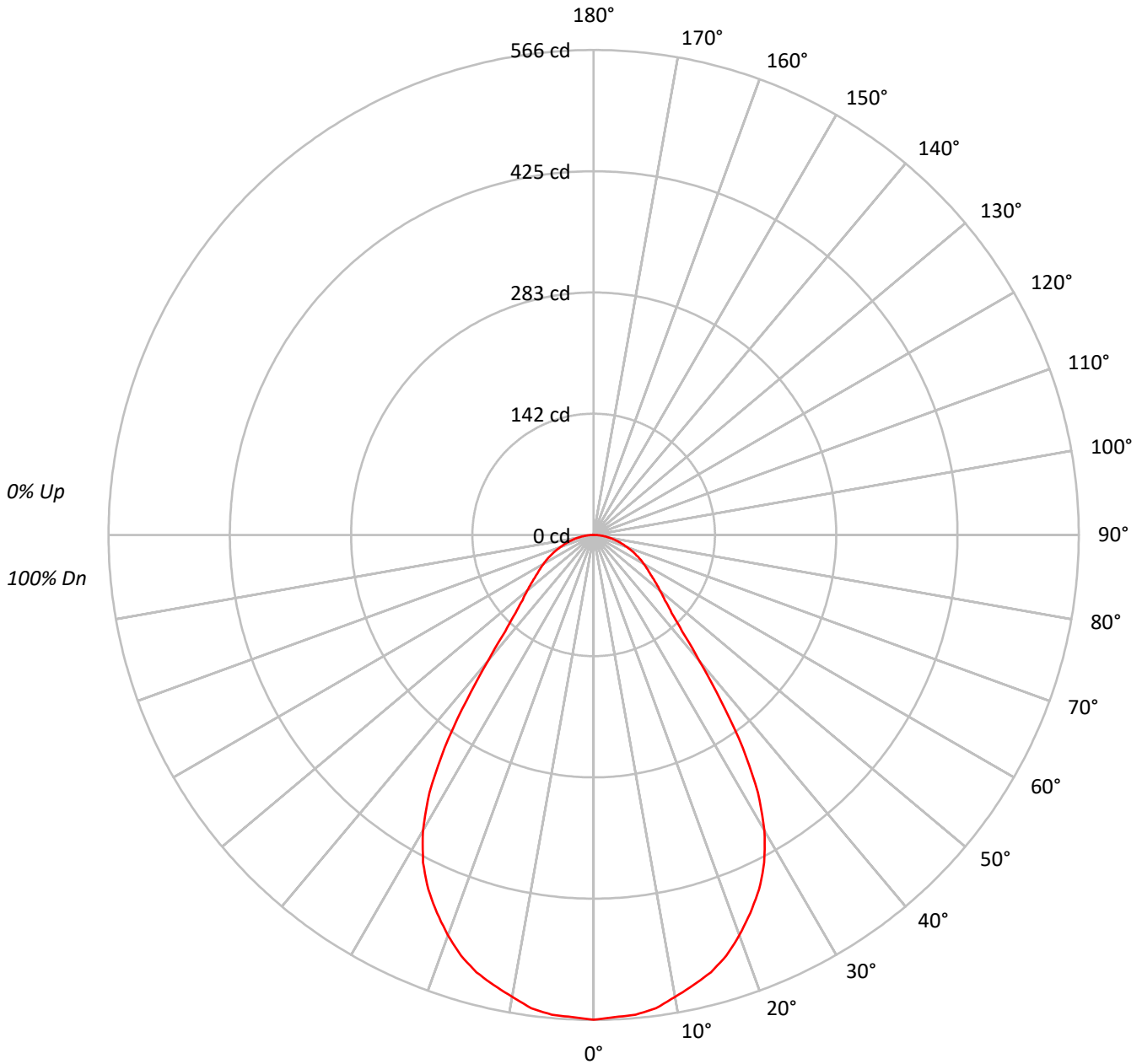
Input Watts (W): 9.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P581629

CATALOG NUMBER: HC610D010-HM60525927-61PSMDW

### Luminous Intensity Polar Plot





TEST NUMBER: P581629

CATALOG NUMBER: HC610D010-HM60525927-61PSMDW

**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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69			
4	89	80	72	67	87	78	72	66	76	70	65	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	77	66	59	54	64	58	53	63	57	53	61	56	53	51			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46			
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43			
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36			

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

	0°
0°	31017
5°	30927
10°	30471
15°	29989
20°	29006
25°	27619
30°	25225
35°	20304
40°	13683
45°	9978
50°	8622
55°	7789
60°	7401
65°	7005
70°	6588
75°	6227
80°	5777
85°	5409



TEST NUMBER: P581629

CATALOG NUMBER: HC610D010-HM60525927-61PSMDW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.2	6.1
10°-20°	148.4	17.1
20°-30°	208.5	24.0
30°-40°	185.6	21.4
40°-50°	103.7	11.9
50°-60°	73.9	8.5
60°-70°	53.8	6.2
70°-80°	31.1	3.6
80°-90°	9.7	1.1
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°	410.1	47.3
0°-40°	595.6	68.6
0°-60°	773.2	89.1
0°-90°	867.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	867.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	566	
5°	562	53
15°	528	148
25°	457	208
35°	303	186
45°	129	104
55°	82	74
65°	54	54
75°	29	31
85°	9	10
90°	0	



TEST NUMBER: P581629

CATALOG NUMBER: HC610D010-HM60525927-61PSMDW

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	565.8
2.5°	563.3
5°	562.0
7.5°	557.2
10°	547.4
12.5°	538.2
15°	528.4
17.5°	514.9
20°	497.2
22.5°	477.5
25°	456.6
27.5°	431.0
30°	398.5
32.5°	356.7
35°	303.4
37.5°	243.4
40°	191.2
42.5°	152.6
45°	128.7
47.5°	112.7
50°	101.1
52.5°	90.7
55°	81.5
57.5°	74.1
60°	67.5
62.5°	61.2
65°	54.0
67.5°	47.8
70°	41.1
72.5°	35.0
75°	29.4
77.5°	23.9
80°	18.3
82.5°	13.5
85°	8.6
87.5°	4.3
90°	0.0



Report Generated By 670245859 / DESKTOP-HRDQ47P







— 0°-180°







(END OF REPORT)