

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO

Report Number: P641371

Luminaire Tested: ML5612LSVWFL7597FS1E - 594TBZB - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-80)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 594TBZB - 600LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 931.2 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

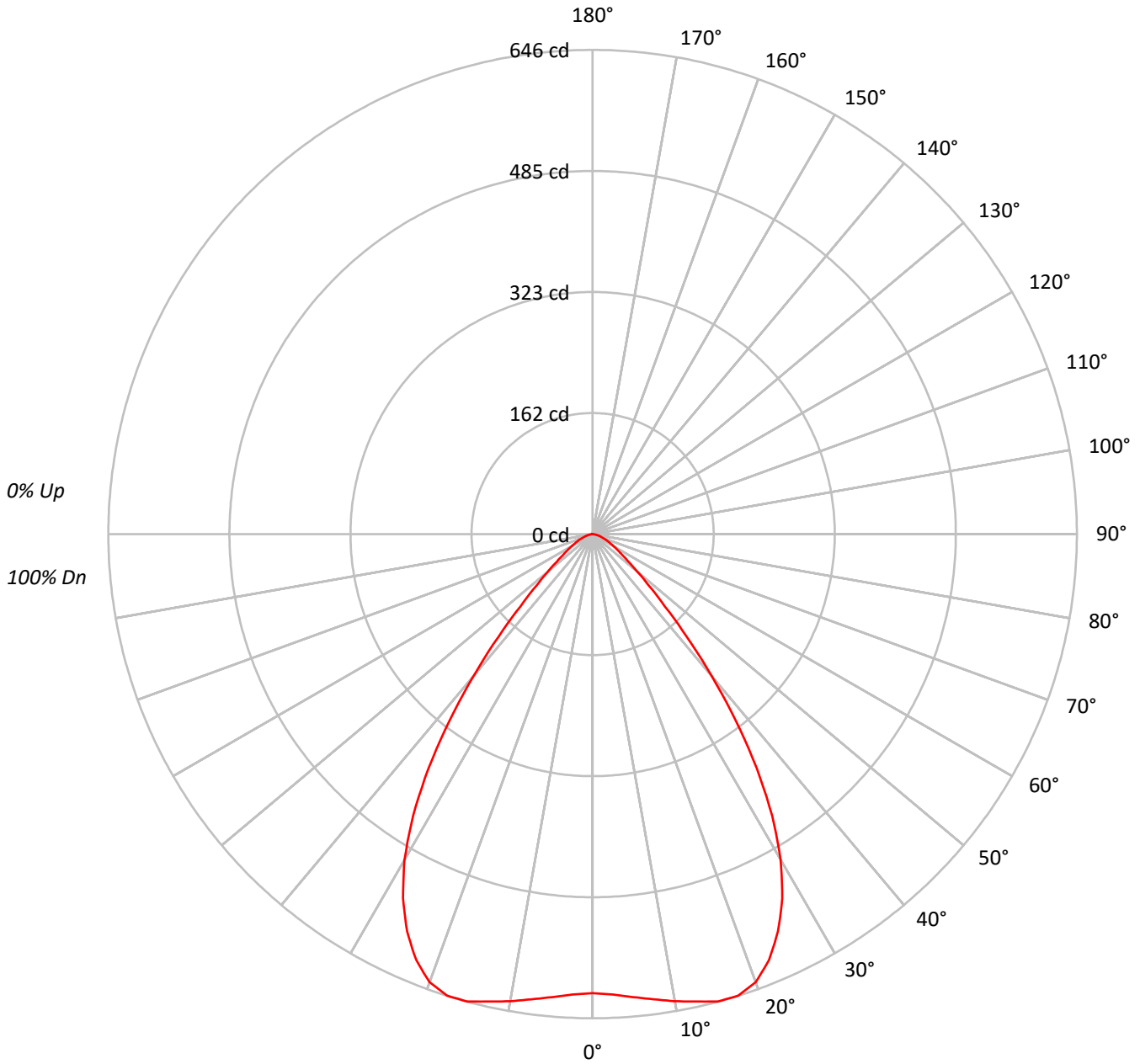
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48			
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			

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

	0°
0°	48343
5°	49138
10°	50724
15°	52762
20°	53445
25°	50972
30°	45741
35°	36803
40°	25422
45°	15194
50°	9616
55°	6551
60°	5100
65°	4128
70°	3347
75°	2593
80°	1546
85°	815

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15194 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	6.4
10°-20°	181.8	19.5
20°-30°	266.3	28.6
30°-40°	234.7	25.2
40°-50°	111.5	12.0
50°-60°	44.8	4.8
60°-70°	22.2	2.4
70°-80°	9.1	1.0
80°-90°	1.2	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°	507.7	54.5
0°-40°	742.5	79.7
0°-60°	898.8	96.5
0°-90°	931.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	931.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	612	
5°	620	60
15°	646	182
25°	585	266
35°	382	235
45°	136	112
55°	48	45
65°	22	22
75°	8	9
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	612.4
2.5°	615.0
5°	620.1
7.5°	626.0
10°	632.8
12.5°	638.8
15°	645.6
17.5°	645.6
20°	636.2
22.5°	615.0
25°	585.2
27.5°	547.8
30°	501.8
32.5°	445.7
35°	381.9
37.5°	313.0
40°	246.7
42.5°	185.4
45°	136.1
47.5°	101.2
50°	78.3
52.5°	59.5
55°	47.6
57.5°	39.1
60°	32.3
62.5°	26.4
65°	22.1
67.5°	17.9
70°	14.5
72.5°	11.1
75°	8.5
77.5°	6.0
80°	3.4
82.5°	1.7
85°	0.9
87.5°	0.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)