

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: P641372

Luminaire Tested: ML5612LSVWFL7597FS1E - 594TBZB - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641372  
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 - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 957.7 lumens  
Efficiency: N/A  
Efficacy: 93.0 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

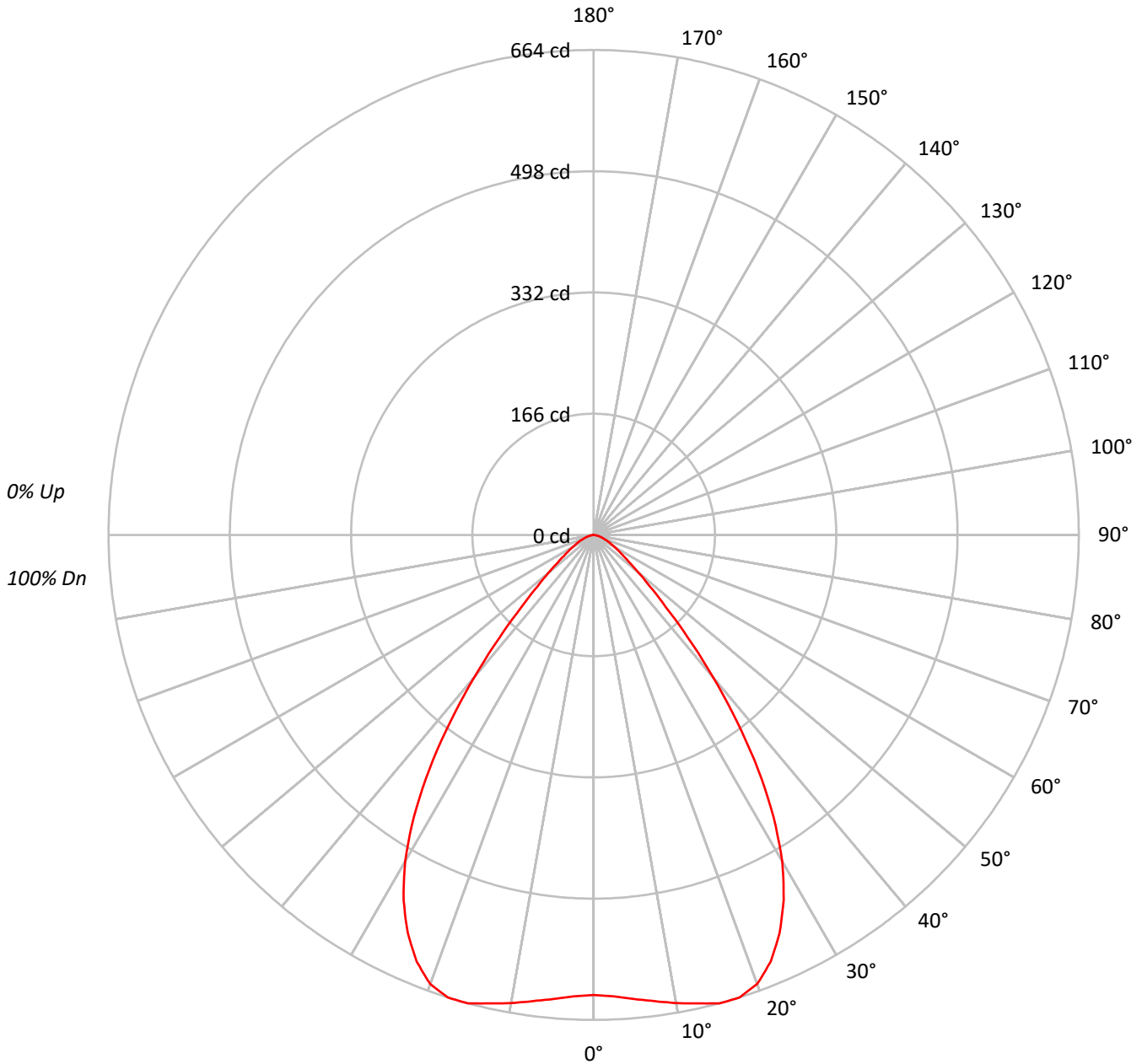
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			100	
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91	
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83			83	
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75			75	
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			68	
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			62	
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57			57	
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			52	
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48			48	
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44			44	
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41	

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

	0°
0°	49725
5°	50541
10°	52175
15°	54266
20°	54974
25°	52426
30°	47053
35°	37854
40°	26144
45°	15630
50°	9886
55°	6744
60°	5242
65°	4240
70°	3439
75°	2654
80°	1591
85°	815

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15630 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.3	6.4
10°-20°	187.0	19.5
20°-30°	273.9	28.6
30°-40°	241.4	25.2
40°-50°	114.7	12.0
50°-60°	46.1	4.8
60°-70°	22.8	2.4
70°-80°	9.3	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°	522.2	54.5
0°-40°	763.7	79.7
0°-60°	924.5	96.5
0°-90°	957.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	957.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	630	
5°	638	61
15°	664	187
25°	602	274
35°	393	241
45°	140	115
55°	49	46
65°	23	23
75°	9	9
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	629.9
2.5°	632.5
5°	637.8
7.5°	643.9
10°	650.9
12.5°	657.0
15°	664.0
17.5°	664.0
20°	654.4
22.5°	632.5
25°	601.9
27.5°	563.4
30°	516.2
32.5°	458.4
35°	392.8
37.5°	322.0
40°	253.7
42.5°	190.7
45°	140.0
47.5°	104.1
50°	80.5
52.5°	61.2
55°	49.0
57.5°	40.2
60°	33.2
62.5°	27.1
65°	22.7
67.5°	18.4
70°	14.9
72.5°	11.4
75°	8.7
77.5°	6.1
80°	3.5
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)