

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: P641198

Luminaire Tested: ML5612LSNFL2597FS1E - 694TBZB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641198  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 694TBZB - 900LM - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1260.0 lumens  
Efficiency: N/A  
Efficacy: 94.7 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

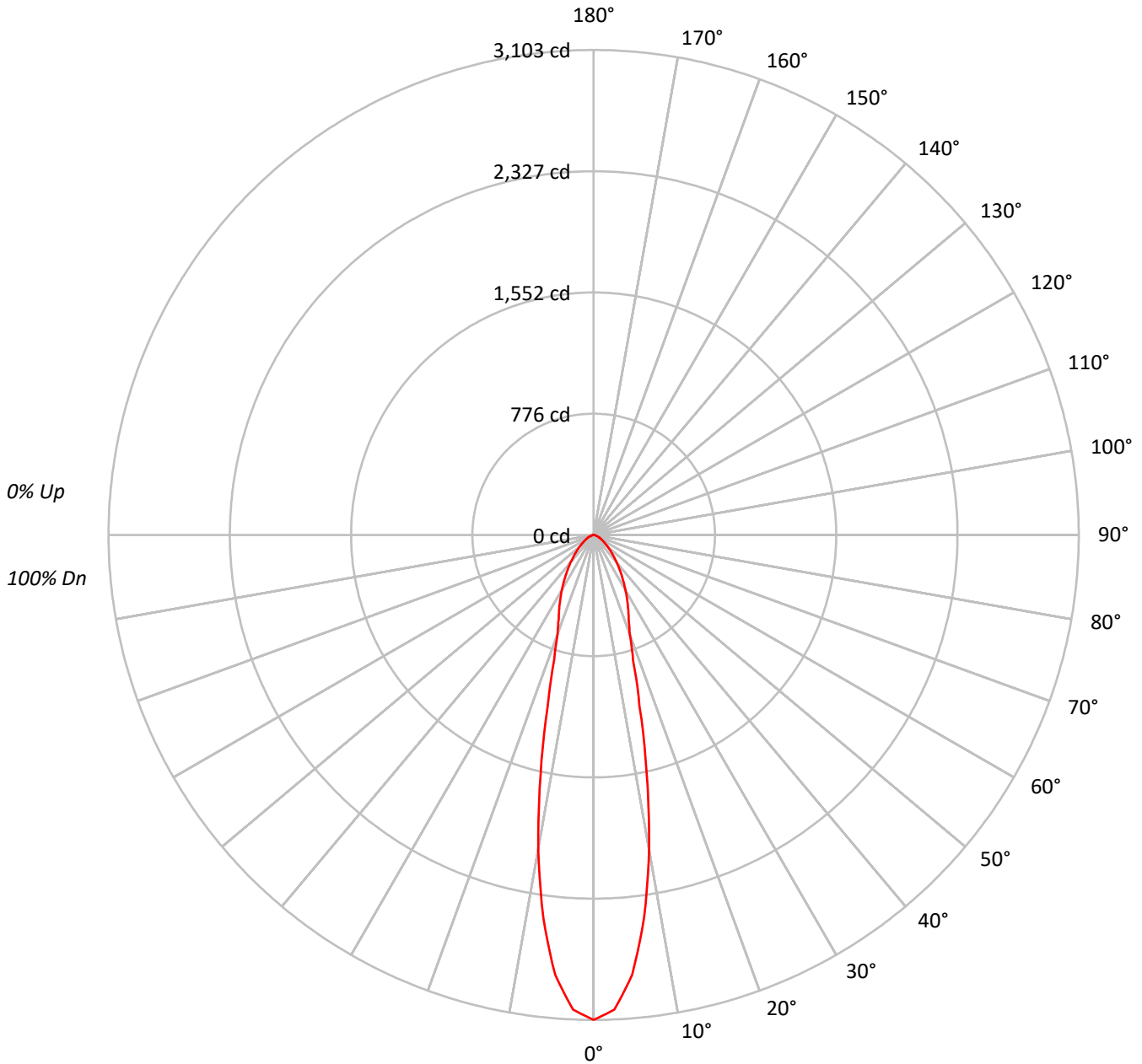
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			100
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79			79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73			73
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68			68
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64			64
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60			60
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57			57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54			54
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51			51

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

	0°
0°	170096
5°	155453
10°	113542
15°	64393
20°	39285
25°	31526
30°	25694
35°	20606
40°	16338
45°	12784
50°	9936
55°	7828
60°	6195
65°	5085
70°	3703
75°	2203
80°	1105
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12784 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.0	19.4
10°-20°	326.8	25.9
20°-30°	240.5	19.1
30°-40°	193.6	15.4
40°-50°	128.6	10.2
50°-60°	74.5	5.9
60°-70°	39.2	3.1
70°-80°	11.7	0.9
80°-90°	1.1	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°	811.4	64.4
0°-40°	1004.9	79.8
0°-60°	1208.1	95.9
0°-90°	1260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3103	
5°	2825	244
15°	1135	327
25°	521	241
35°	308	194
45°	165	129
55°	82	74
65°	39	39
75°	10	12
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3102.8
2.5°	3040.5
5°	2824.9
7.5°	2470.9
10°	2039.7
12.5°	1568.1
15°	1134.6
17.5°	838.3
20°	673.4
22.5°	585.7
25°	521.2
27.5°	462.4
30°	405.9
32.5°	355.1
35°	307.9
37.5°	266.3
40°	228.3
42.5°	193.7
45°	164.9
47.5°	139.5
50°	116.5
52.5°	98.0
55°	81.9
57.5°	68.0
60°	56.5
62.5°	47.3
65°	39.2
67.5°	32.3
70°	23.1
72.5°	15.0
75°	10.4
77.5°	5.8
80°	3.5
82.5°	2.3
85°	0.0
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)