

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: P641197

Luminaire Tested: ML5612LSNFL2597FS1E - 694TBZB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641197  
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 - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1226.5 lumens  
Efficiency: N/A  
Efficacy: 92.2 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

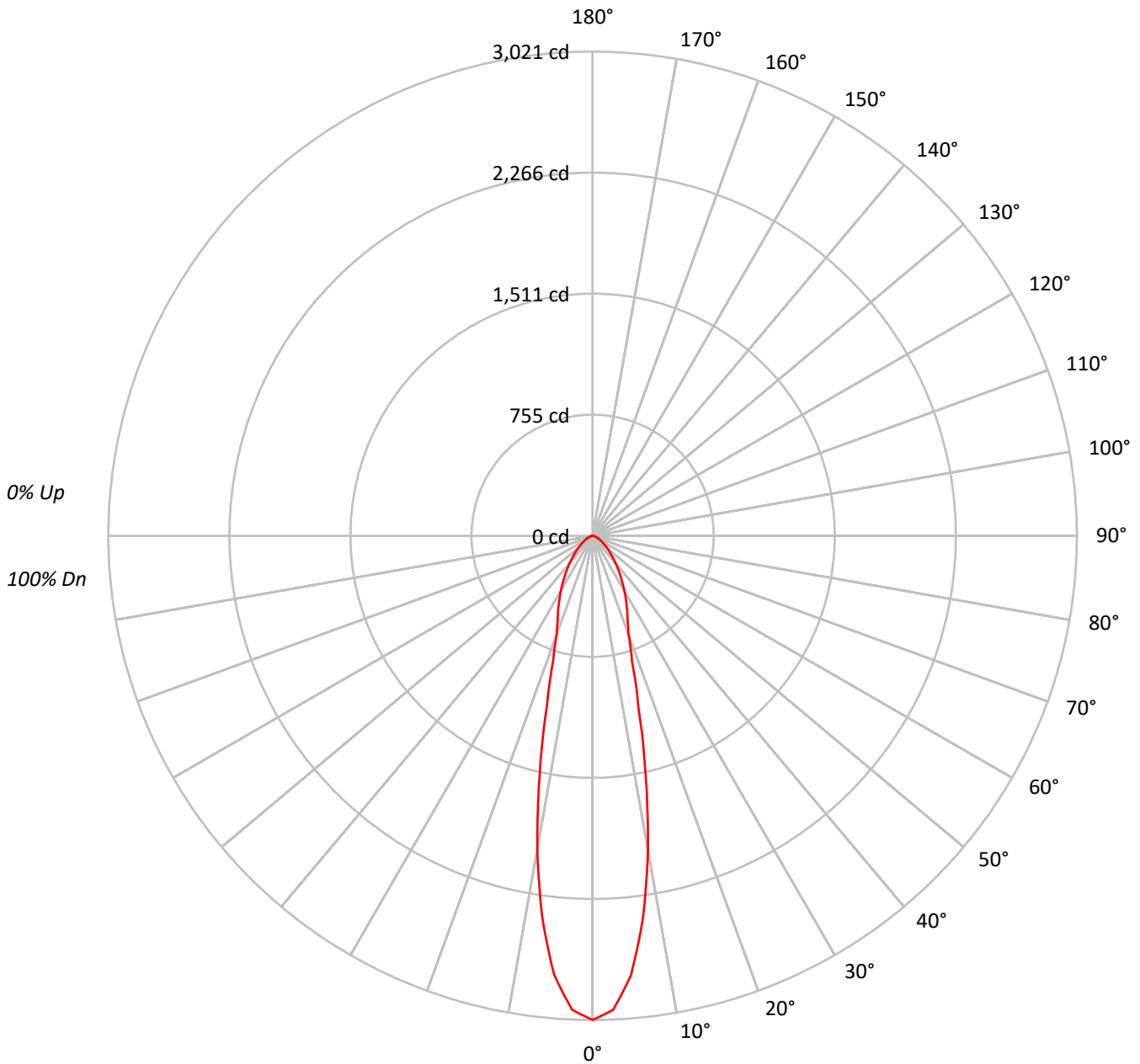
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	82	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°	165590
5°	151337
10°	110536
15°	62685
20°	38241
25°	30691
30°	25010
35°	20057
40°	15908
45°	12443
50°	9671
55°	7617
60°	6030
65°	4955
70°	3590
75°	2139
80°	1073
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12443 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	237.6	19.4
10°-20°	318.1	25.9
20°-30°	234.1	19.1
30°-40°	188.4	15.4
40°-50°	125.2	10.2
50°-60°	72.5	5.9
60°-70°	38.1	3.1
70°-80°	11.4	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°	789.8	64.4
0°-40°	978.3	79.8
0°-60°	1176.0	95.9
0°-90°	1226.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3021	
5°	2750	238
15°	1104	318
25°	507	234
35°	300	188
45°	160	125
55°	80	73
65°	38	38
75°	10	11
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3020.6
2.5°	2960.0
5°	2750.1
7.5°	2405.5
10°	1985.7
12.5°	1526.6
15°	1104.5
17.5°	816.0
20°	655.5
22.5°	570.2
25°	507.4
27.5°	450.1
30°	395.1
32.5°	345.7
35°	299.7
37.5°	259.3
40°	222.3
42.5°	188.6
45°	160.5
47.5°	135.8
50°	113.4
52.5°	95.4
55°	79.7
57.5°	66.2
60°	55.0
62.5°	46.0
65°	38.2
67.5°	31.4
70°	22.4
72.5°	14.6
75°	10.1
77.5°	5.6
80°	3.4
82.5°	2.2
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)