

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: P642246

Luminaire Tested: ML5612LSWFL5597FS1E - 694WB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-67)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 694WB - 900LM - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1240.5 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

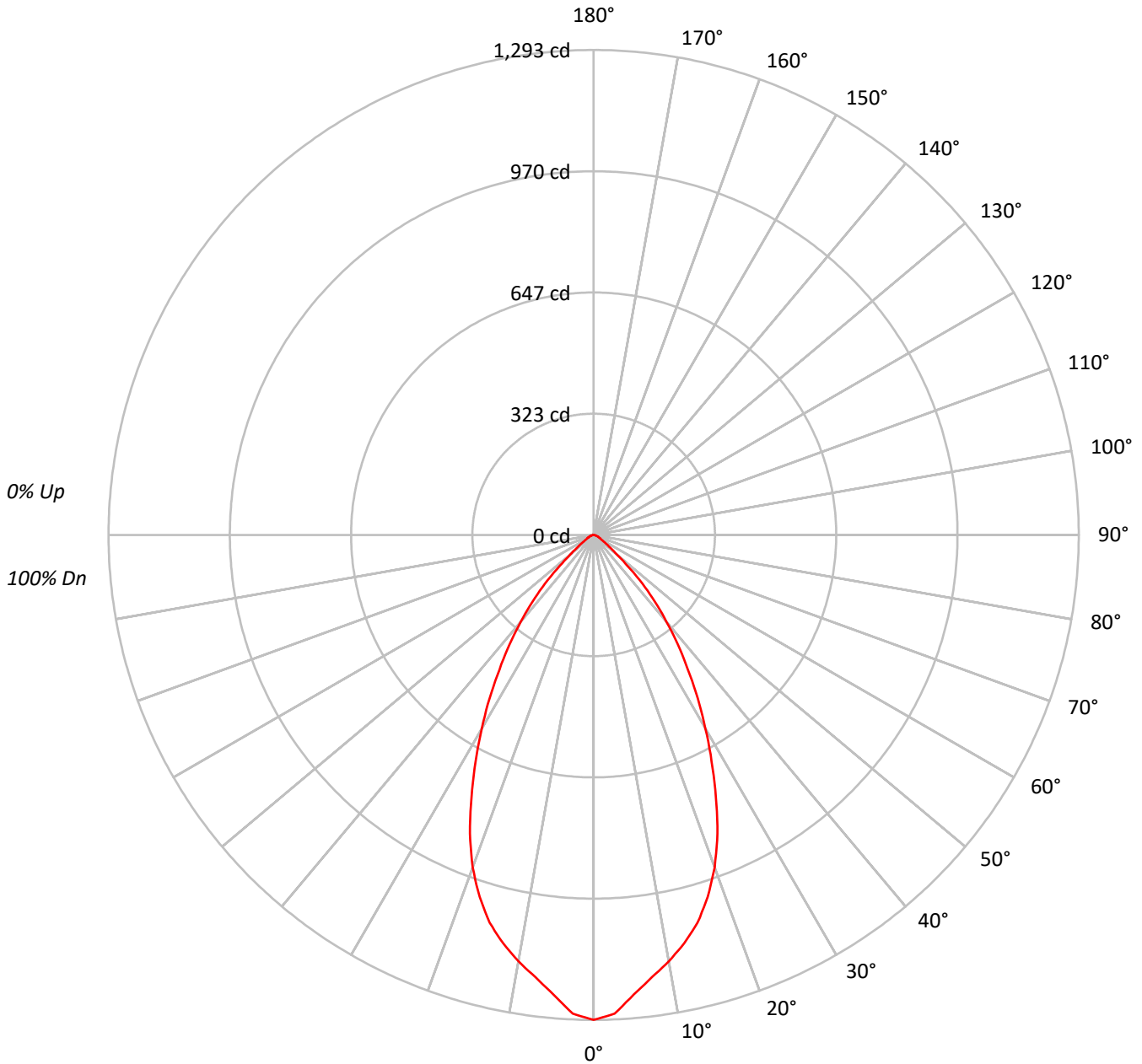
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	110	108	105	103	104	102	100	100	98	97	97	95	94	92				92															
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85				85															
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78				78															
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72				72															
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				66															
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61				61															
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57				57															
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53				53															
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49				49															
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46				46															

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

	0°
0°	70877
5°	67664
10°	64255
15°	60744
20°	54996
25°	46593
30°	37708
35°	29279
40°	21626
45°	14211
50°	6883
55°	3651
60°	2511
65°	1985
70°	1747
75°	1165
80°	695
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14211 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	9.3
10°-20°	297.8	24.0
20°-30°	351.9	28.4
30°-40°	274.4	22.1
40°-50°	140.3	11.3
50°-60°	38.3	3.1
60°-70°	15.8	1.3
70°-80°	6.3	0.5
80°-90°	0.6	0.0
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°	764.8	61.7
0°-40°	1039.2	83.8
0°-60°	1217.8	98.2
0°-90°	1240.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1240.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1293	
5°	1230	115
15°	1070	298
25°	770	352
35°	438	274
45°	183	140
55°	38	38
65°	15	16
75°	6	6
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1292.9
2.5°	1277.6
5°	1229.6
7.5°	1189.3
10°	1154.3
12.5°	1115.1
15°	1070.3
17.5°	1011.4
20°	942.7
22.5°	861.9
25°	770.3
27.5°	680.8
30°	595.7
32.5°	516.1
35°	437.5
37.5°	367.7
40°	302.2
42.5°	241.1
45°	183.3
47.5°	121.1
50°	80.7
52.5°	54.6
55°	38.2
57.5°	28.4
60°	22.9
62.5°	18.5
65°	15.3
67.5°	13.1
70°	10.9
72.5°	7.6
75°	5.5
77.5°	4.4
80°	2.2
82.5°	1.1
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)