

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: P641118

Luminaire Tested: ML5612LSNFL2597FS1E - 692W - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641118  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 692W - 600LM - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 961.5 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

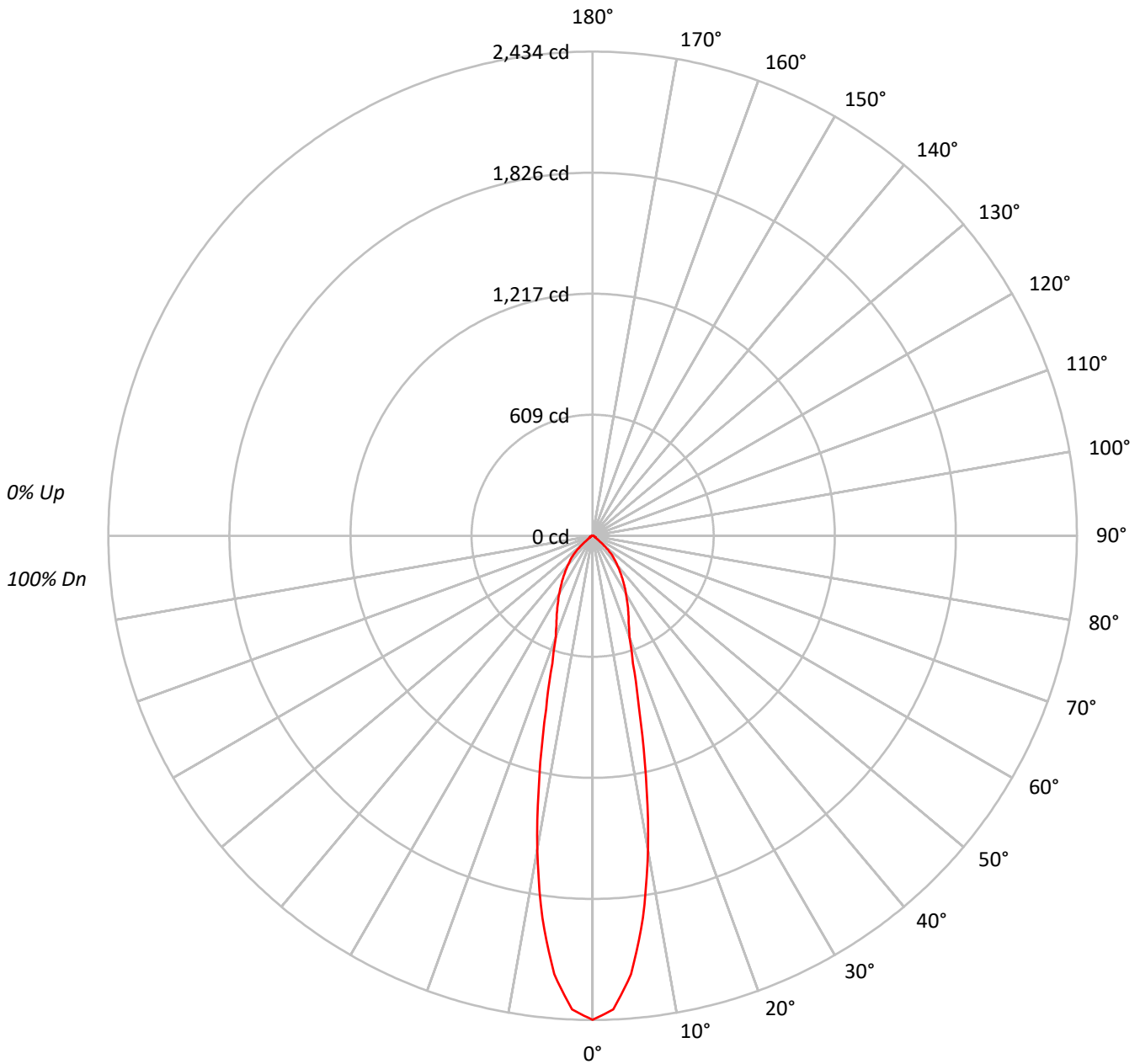
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20																	
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	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	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																											
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																											
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																											
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																											
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70																											
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66																											
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62																											
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	60	59																											
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56																											
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54																											

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

	0°
0°	133405
5°	121753
10°	89305
15°	51186
20°	31549
25°	25647
30°	21212
35°	17313
40°	13883
45°	10792
50°	5978
55°	2322
60°	1875
65°	1634
70°	1443
75°	1525
80°	1421
85°	1132

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10792 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.4	19.9
10°-20°	259.4	27.0
20°-30°	195.6	20.3
30°-40°	162.1	16.9
40°-50°	103.4	10.8
50°-60°	27.5	2.9
60°-70°	12.8	1.3
70°-80°	7.2	0.8
80°-90°	2.1	0.2
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°	646.3	67.2
0°-40°	808.4	84.1
0°-60°	939.3	97.7
0°-90°	961.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	961.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2434	
5°	2212	191
15°	902	259
25°	424	196
35°	259	162
45°	139	103
55°	24	28
65°	13	13
75°	7	7
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2433.5
2.5°	2383.2
5°	2212.5
7.5°	1937.6
10°	1604.3
12.5°	1234.3
15°	901.9
17.5°	672.8
20°	540.8
22.5°	474.3
25°	424.0
27.5°	377.3
30°	335.1
32.5°	295.5
35°	258.7
37.5°	224.6
40°	194.0
42.5°	166.2
45°	139.2
47.5°	103.3
50°	70.1
52.5°	36.8
55°	24.3
57.5°	19.8
60°	17.1
62.5°	15.3
65°	12.6
67.5°	10.8
70°	9.0
72.5°	8.1
75°	7.2
77.5°	5.4
80°	4.5
82.5°	2.7
85°	1.8
87.5°	0.9
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)