

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: P641204

Luminaire Tested: ML5612LSNFL2597FS1E - 694WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 694WB - 1200LM - 4000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

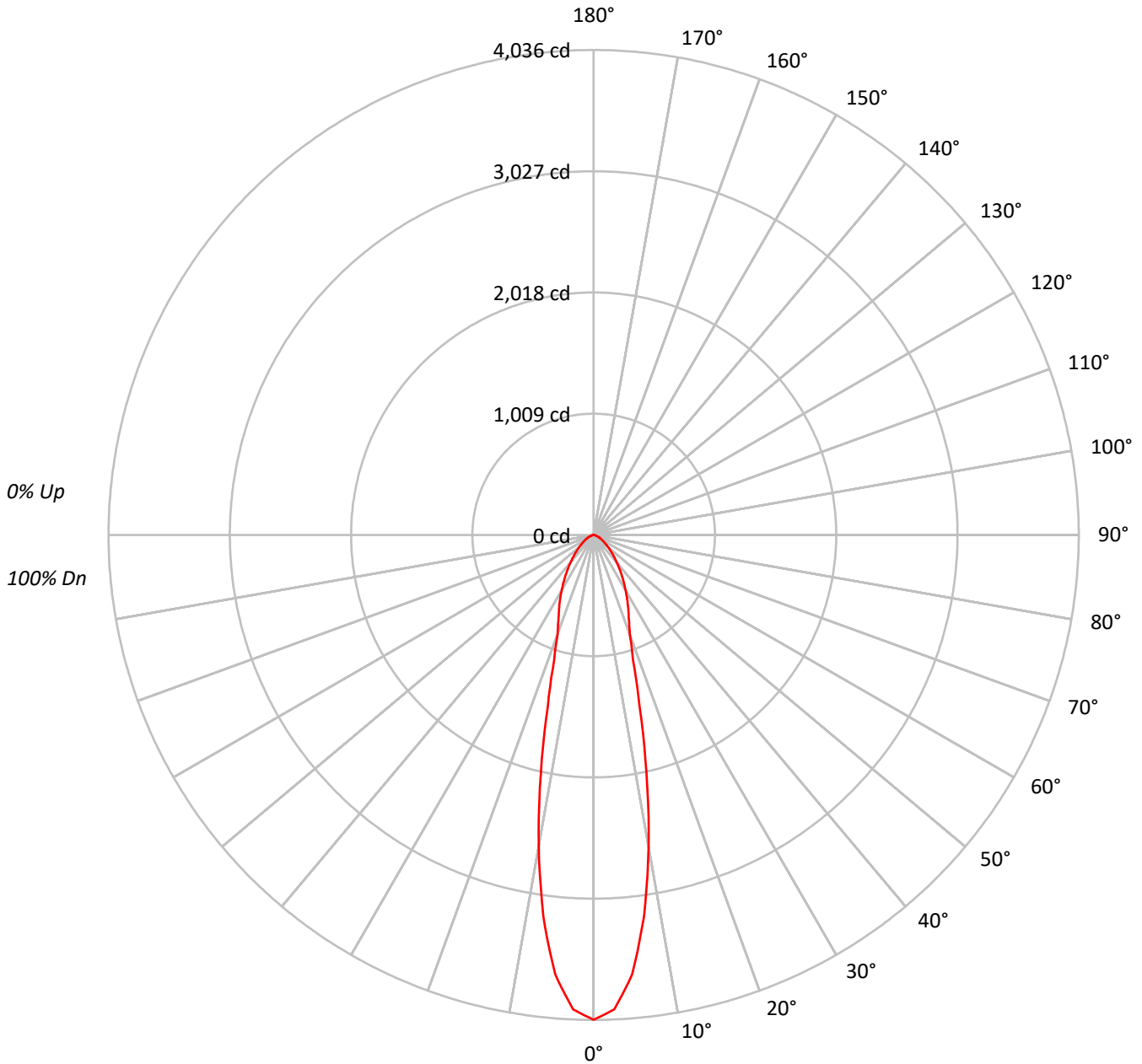
Lumens per Lamp: N/A  
Luminaire Lumens: 1644.1 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
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	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92																
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	85	83	80	78			78																
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	81	77	74	73			73																
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68			68																
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64			64																
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			60																
8	79	69	63	59	77	69	63	59	67	62	58	66	62	58	65	61	58	57			57																
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	62	58	55	54			54																
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51			51																

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

	0°
0°	221243
5°	202019
10°	146624
15°	83474
20°	51134
25°	41216
30°	33632
35°	27017
40°	21376
45°	16870
50°	13185
55°	10332
60°	8223
65°	6615
70°	4809
75°	2542
80°	1894
85°	943

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16870 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.5	19.3
10°-20°	423.6	25.8
20°-30°	314.0	19.1
30°-40°	253.5	15.4
40°-50°	169.6	10.3
50°-60°	98.5	6.0
60°-70°	51.5	3.1
70°-80°	15.0	0.9
80°-90°	2.0	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°	1054.0	64.1
0°-40°	1307.5	79.5
0°-60°	1575.6	95.8
0°-90°	1644.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1644.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4036	
5°	3671	316
15°	1471	424
25°	681	314
35°	404	253
45°	218	170
55°	108	98
65°	51	51
75°	12	15
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4035.8
2.5°	3951.8
5°	3671.1
7.5°	3202.8
10°	2634.0
12.5°	2029.2
15°	1470.8
17.5°	1089.6
20°	876.5
22.5°	763.9
25°	681.4
27.5°	603.3
30°	531.3
32.5°	465.3
35°	403.7
37.5°	348.2
40°	298.7
42.5°	256.6
45°	217.6
47.5°	183.1
50°	154.6
52.5°	129.1
55°	108.1
57.5°	90.1
60°	75.0
62.5°	63.0
65°	51.0
67.5°	42.0
70°	30.0
72.5°	19.5
75°	12.0
77.5°	7.5
80°	6.0
82.5°	3.0
85°	1.5
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)