

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: P641212

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

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641212  
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 - 900LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

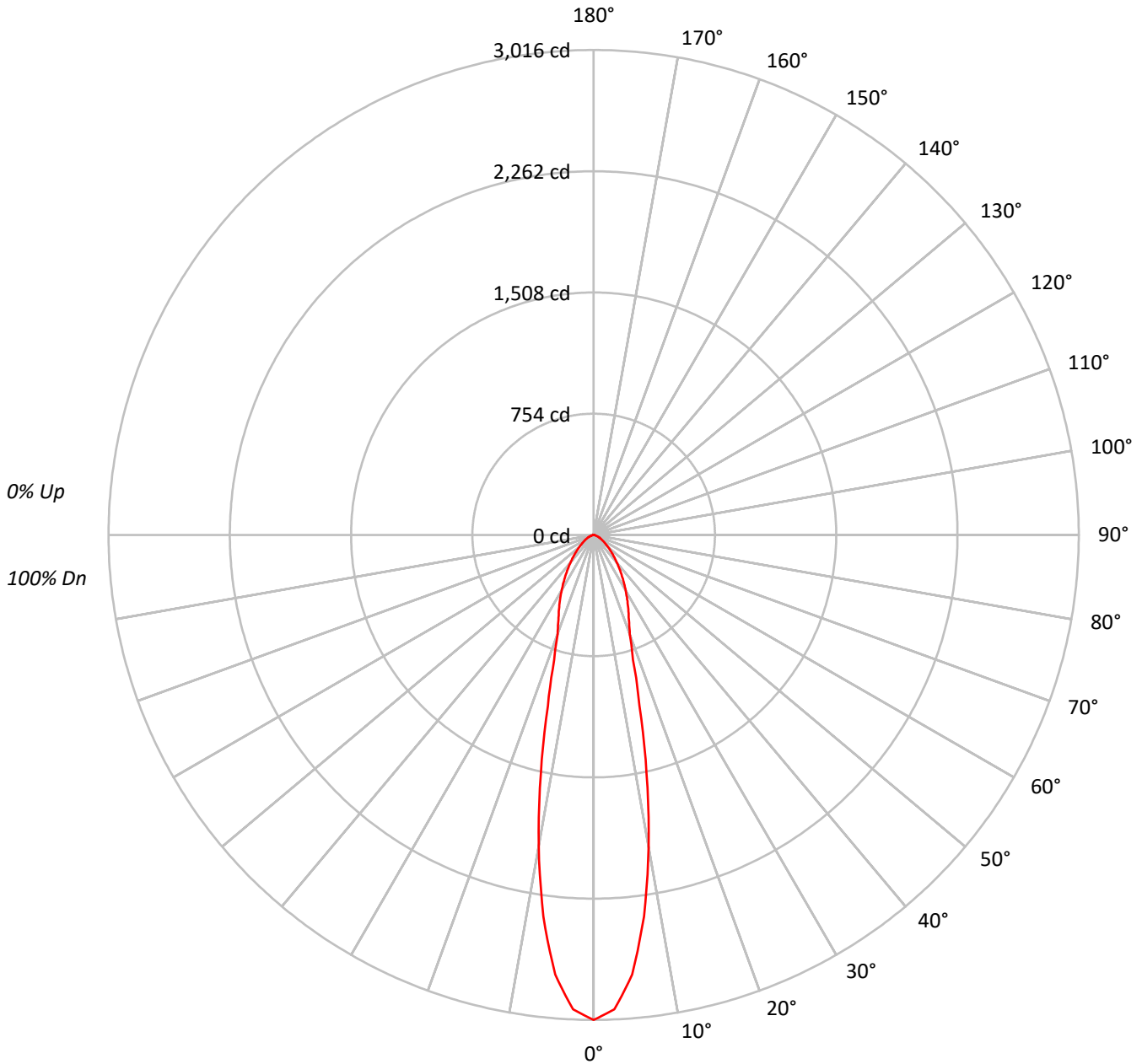
Lumens per Lamp: N/A  
Luminaire Lumens: 1228.8 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	165360
5°	150990
10°	109589
15°	62390
20°	38217
25°	30806
30°	25137
35°	20197
40°	15973
45°	12614
50°	9850
55°	7723
60°	6151
65°	4942
70°	3590
75°	1906
80°	1421
85°	692

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12614 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.6	19.3
10°-20°	316.6	25.8
20°-30°	234.7	19.1
30°-40°	189.4	15.4
40°-50°	126.8	10.3
50°-60°	73.6	6.0
60°-70°	38.5	3.1
70°-80°	11.2	0.9
80°-90°	1.5	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°	787.8	64.1
0°-40°	977.2	79.5
0°-60°	1177.6	95.8
0°-90°	1228.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3016	
5°	2744	237
15°	1099	317
25°	509	235
35°	302	189
45°	163	127
55°	81	74
65°	38	38
75°	9	11
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3016.4
2.5°	2953.6
5°	2743.8
7.5°	2393.8
10°	1968.7
12.5°	1516.6
15°	1099.3
17.5°	814.4
20°	655.1
22.5°	571.0
25°	509.3
27.5°	450.9
30°	397.1
32.5°	347.7
35°	301.8
37.5°	260.2
40°	223.2
42.5°	191.8
45°	162.7
47.5°	136.9
50°	115.5
52.5°	96.5
55°	80.8
57.5°	67.3
60°	56.1
62.5°	47.1
65°	38.1
67.5°	31.4
70°	22.4
72.5°	14.6
75°	9.0
77.5°	5.6
80°	4.5
82.5°	2.2
85°	1.1
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)