

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: P641215

Luminaire Tested: ML5612LSNFL2597FS1E - 694WB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641215  
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 - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

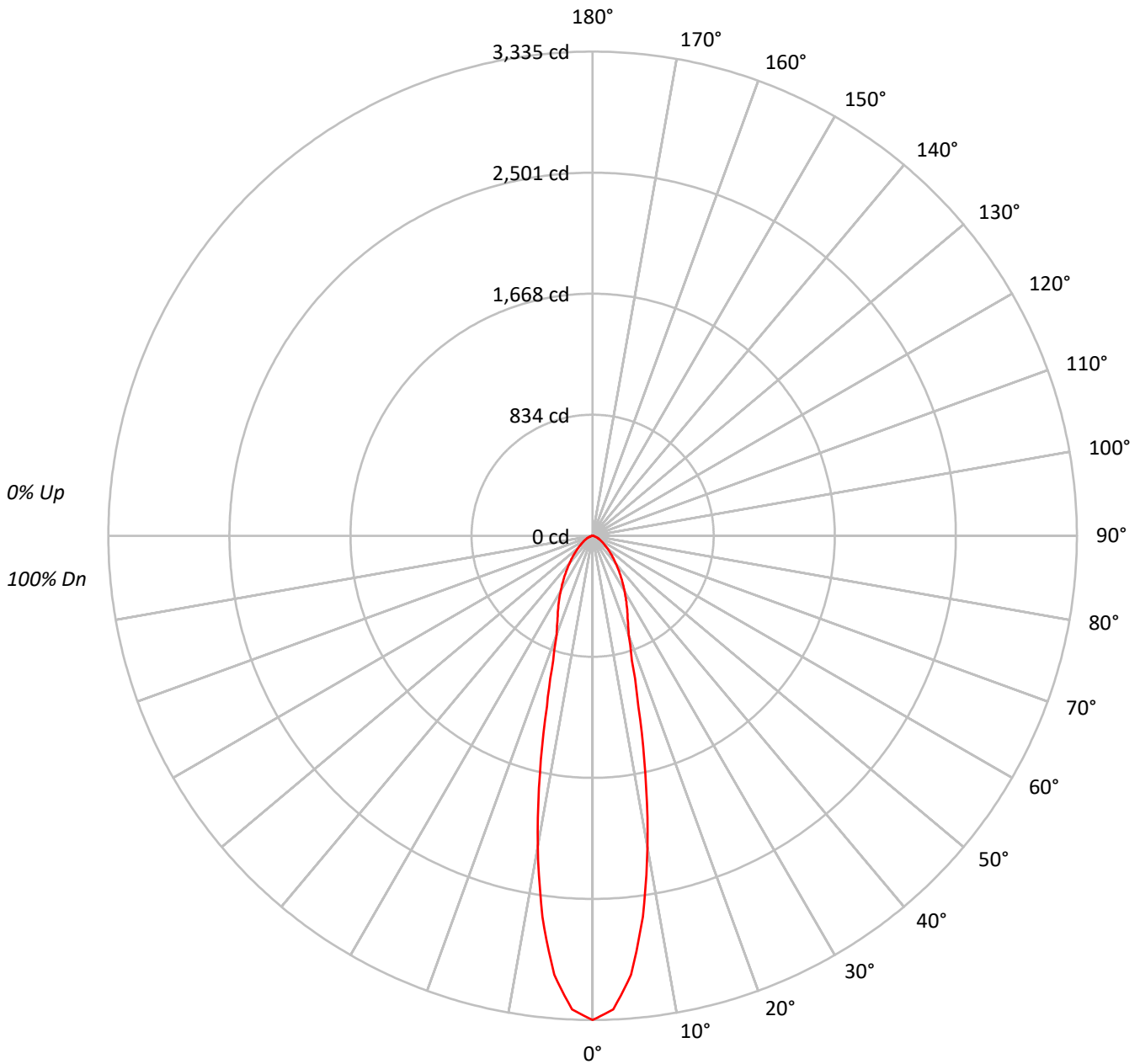
Lumens per Lamp: N/A  
Luminaire Lumens: 1358.6 lumens  
Efficiency: N/A  
Efficacy: 102.2 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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°	182831
5°	166943
10°	121168
15°	68985
20°	42255
25°	34060
30°	27795
35°	22326
40°	17662
45°	13939
50°	10891
55°	8535
60°	6798
65°	5474
70°	3975
75°	2097
80°	1578
85°	755

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13939 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.5	19.3
10°-20°	350.0	25.8
20°-30°	259.5	19.1
30°-40°	209.5	15.4
40°-50°	140.2	10.3
50°-60°	81.4	6.0
60°-70°	42.6	3.1
70°-80°	12.4	0.9
80°-90°	1.7	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°	871.0	64.1
0°-40°	1080.5	79.5
0°-60°	1302.0	95.8
0°-90°	1358.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1358.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3335	
5°	3034	262
15°	1216	350
25°	563	259
35°	334	209
45°	180	140
55°	89	81
65°	42	43
75°	10	12
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3335.1
2.5°	3265.7
5°	3033.7
7.5°	2646.8
10°	2176.7
12.5°	1676.9
15°	1215.5
17.5°	900.4
20°	724.3
22.5°	631.3
25°	563.1
27.5°	498.6
30°	439.1
32.5°	384.5
35°	333.6
37.5°	287.7
40°	246.8
42.5°	212.1
45°	179.8
47.5°	151.3
50°	127.7
52.5°	106.7
55°	89.3
57.5°	74.4
60°	62.0
62.5°	52.1
65°	42.2
67.5°	34.7
70°	24.8
72.5°	16.1
75°	9.9
77.5°	6.2
80°	5.0
82.5°	2.5
85°	1.2
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)