

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: P643028

Luminaire Tested: ML5615LSNFL259FS1E - 694WB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643028  
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: ML5615LSNFL259FS1E - 694WB - 900LM - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1156.9 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

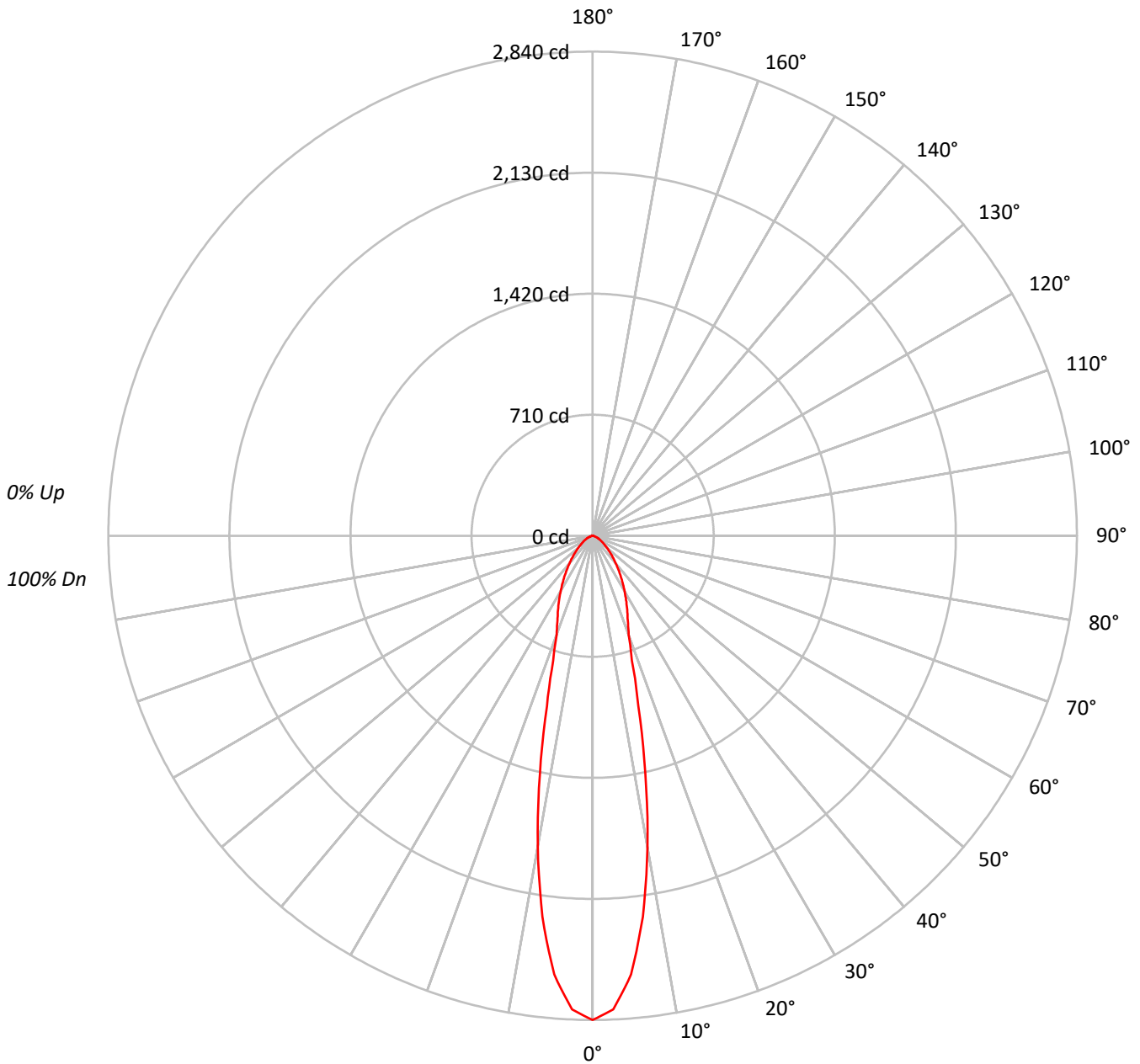
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	81	77	74	73	73	73	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68	68	68	68
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64	64	64	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60	60	60	60
8	79	69	63	59	77	69	63	59	67	62	58	66	62	58	65	61	58	57	57	57	57
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	62	58	55	54	54	54	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51	51	51	51

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

	0°
0°	155689
5°	142158
10°	103177
15°	58740
20°	35983
25°	29004
30°	23668
35°	19013
40°	15042
45°	11869
50°	9279
55°	7264
60°	5789
65°	4657
70°	3382
75°	1779
80°	1326
85°	692

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11869 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.7	19.3
10°-20°	298.1	25.8
20°-30°	220.9	19.1
30°-40°	178.4	15.4
40°-50°	119.3	10.3
50°-60°	69.3	6.0
60°-70°	36.2	3.1
70°-80°	10.5	0.9
80°-90°	1.4	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°	741.7	64.1
0°-40°	920.1	79.5
0°-60°	1108.7	95.8
0°-90°	1156.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2840	
5°	2583	223
15°	1035	298
25°	480	221
35°	284	178
45°	153	119
55°	76	69
65°	36	36
75°	8	11
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2840.0
2.5°	2780.8
5°	2583.3
7.5°	2253.8
10°	1853.5
12.5°	1427.9
15°	1035.0
17.5°	766.8
20°	616.8
22.5°	537.6
25°	479.5
27.5°	424.6
30°	373.9
32.5°	327.4
35°	284.1
37.5°	245.0
40°	210.2
42.5°	180.6
45°	153.1
47.5°	128.8
50°	108.8
52.5°	90.8
55°	76.0
57.5°	63.4
60°	52.8
62.5°	44.4
65°	35.9
67.5°	29.6
70°	21.1
72.5°	13.7
75°	8.4
77.5°	5.3
80°	4.2
82.5°	2.1
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)