

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: P643022

Luminaire Tested: ML5615LSNFL259FS1E - 694WB - 1500LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643022  
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 - 1500LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

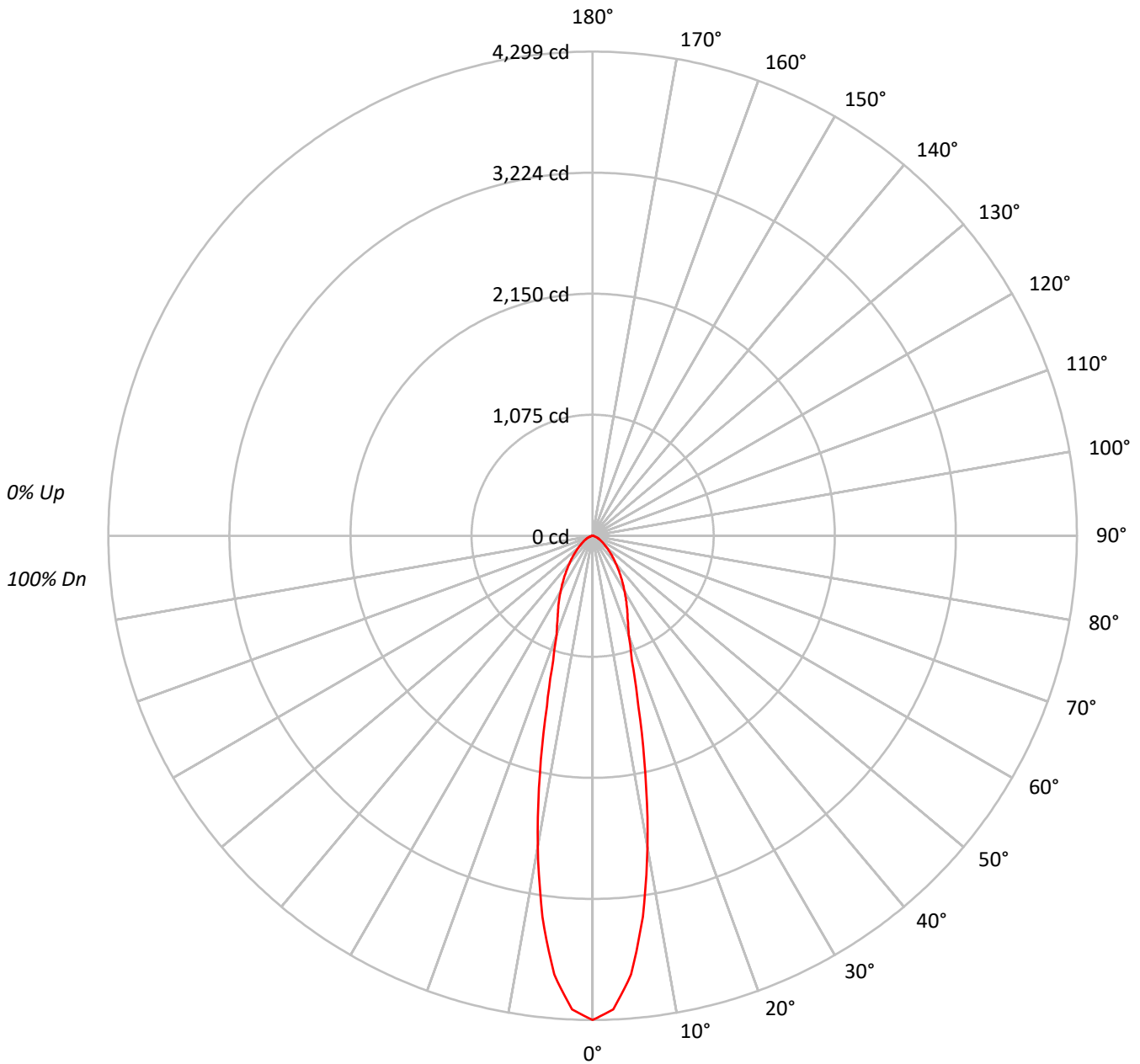
Lumens per Lamp: N/A  
Luminaire Lumens: 1751.3 lumens  
Efficiency: N/A  
Efficacy: 102.4 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
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																			
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																			
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	81	77	74	73																			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68																			
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64																			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60																			
8	79	69	63	59	77	69	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	62	58	55	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

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

	0°
0°	235666
5°	215188
10°	156182
15°	88917
20°	54465
25°	43902
30°	35822
35°	28784
40°	22764
45°	17971
50°	14046
55°	11001
60°	8760
65°	7057
70°	5129
75°	2711
80°	2020
85°	1006

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17971 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.1	19.3
10°-20°	451.2	25.8
20°-30°	334.4	19.1
30°-40°	270.0	15.4
40°-50°	180.7	10.3
50°-60°	104.9	6.0
60°-70°	54.9	3.1
70°-80°	16.0	0.9
80°-90°	2.2	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°	1122.7	64.1
0°-40°	1392.7	79.5
0°-60°	1678.3	95.8
0°-90°	1751.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1751.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4299	
5°	3910	337
15°	1567	451
25°	726	334
35°	430	270
45°	232	181
55°	115	105
65°	54	55
75°	13	16
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4298.9
2.5°	4209.4
5°	3910.4
7.5°	3411.6
10°	2805.7
12.5°	2161.5
15°	1566.7
17.5°	1160.7
20°	933.6
22.5°	813.7
25°	725.8
27.5°	642.7
30°	565.9
32.5°	495.6
35°	430.1
37.5°	370.9
40°	318.1
42.5°	273.4
45°	231.8
47.5°	195.0
50°	164.7
52.5°	137.5
55°	115.1
57.5°	95.9
60°	79.9
62.5°	67.1
65°	54.4
67.5°	44.8
70°	32.0
72.5°	20.8
75°	12.8
77.5°	8.0
80°	6.4
82.5°	3.2
85°	1.6
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)