

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: P643023

Luminaire Tested: ML5615LSNFL259FS1E - 694WB - 1500LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643023  
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 - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

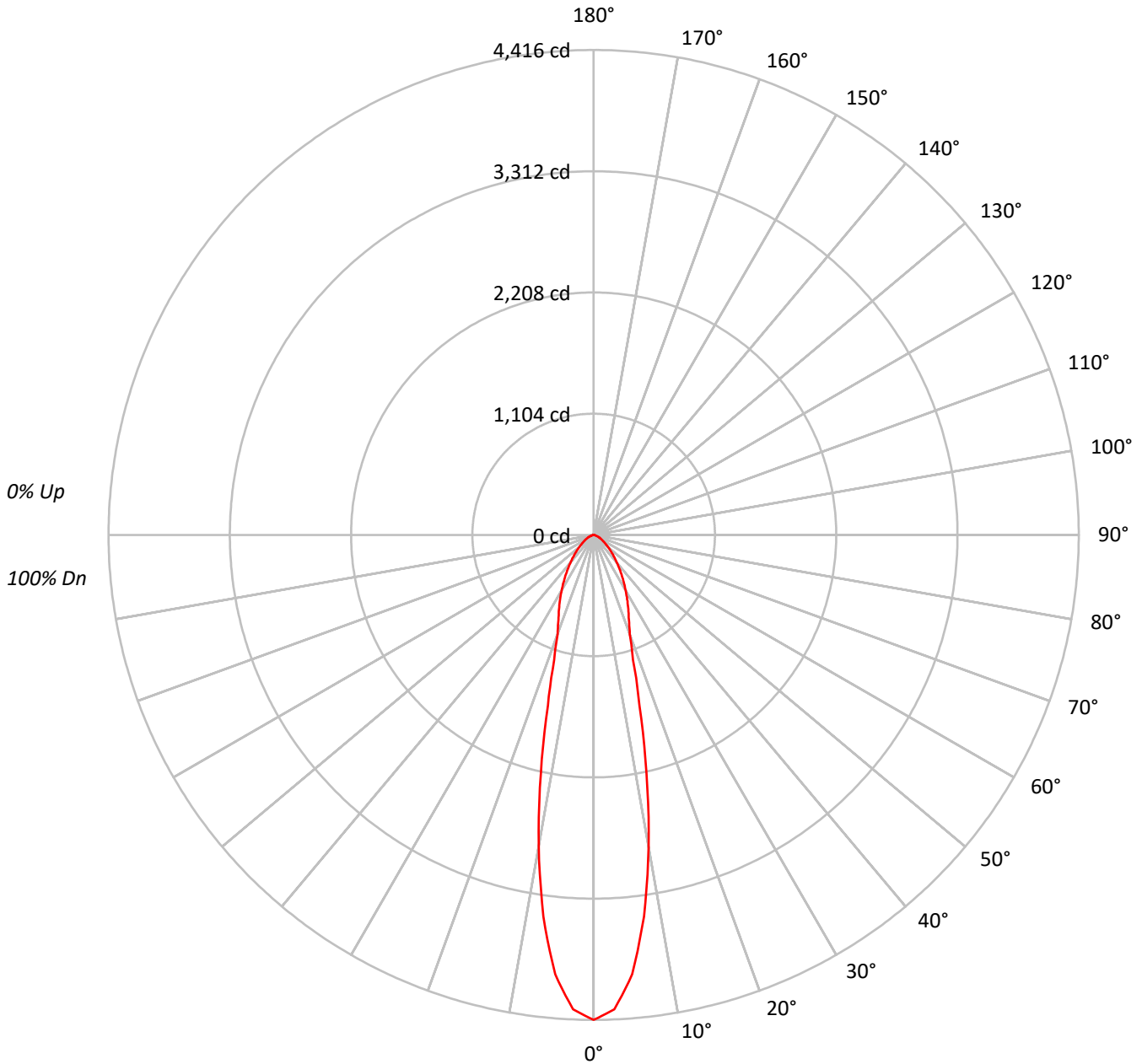
Lumens per Lamp: N/A  
Luminaire Lumens: 1798.9 lumens  
Efficiency: N/A  
Efficacy: 105.2 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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					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	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	78	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°	242080
5°	221048
10°	160435
15°	91340
20°	55952
25°	45099
30°	36797
35°	29567
40°	23387
45°	18459
50°	14422
55°	11297
60°	9001
65°	7238
70°	5257
75°	2775
80°	2084
85°	1006

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18459 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.3	19.3
10°-20°	463.5	25.8
20°-30°	343.5	19.1
30°-40°	277.4	15.4
40°-50°	185.6	10.3
50°-60°	107.7	6.0
60°-70°	56.3	3.1
70°-80°	16.4	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°	1153.3	64.1
0°-40°	1430.7	79.5
0°-60°	1724.0	95.8
0°-90°	1798.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1798.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4416	
5°	4017	346
15°	1609	463
25°	746	344
35°	442	277
45°	238	186
55°	118	108
65°	56	56
75°	13	16
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	4415.9
2.5°	4324.0
5°	4016.9
7.5°	3504.5
10°	2882.1
12.5°	2220.3
15°	1609.4
17.5°	1192.3
20°	959.1
22.5°	835.9
25°	745.6
27.5°	660.2
30°	581.3
32.5°	509.1
35°	441.8
37.5°	381.0
40°	326.8
42.5°	280.8
45°	238.1
47.5°	200.4
50°	169.1
52.5°	141.2
55°	118.2
57.5°	98.5
60°	82.1
62.5°	69.0
65°	55.8
67.5°	46.0
70°	32.8
72.5°	21.3
75°	13.1
77.5°	8.2
80°	6.6
82.5°	3.3
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)