

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: P642861

Luminaire Tested: ML5615LSNFL259FS1E - 594WB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642861  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-9)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSNFL259FS1E - 594WB - 900LM - 2700K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

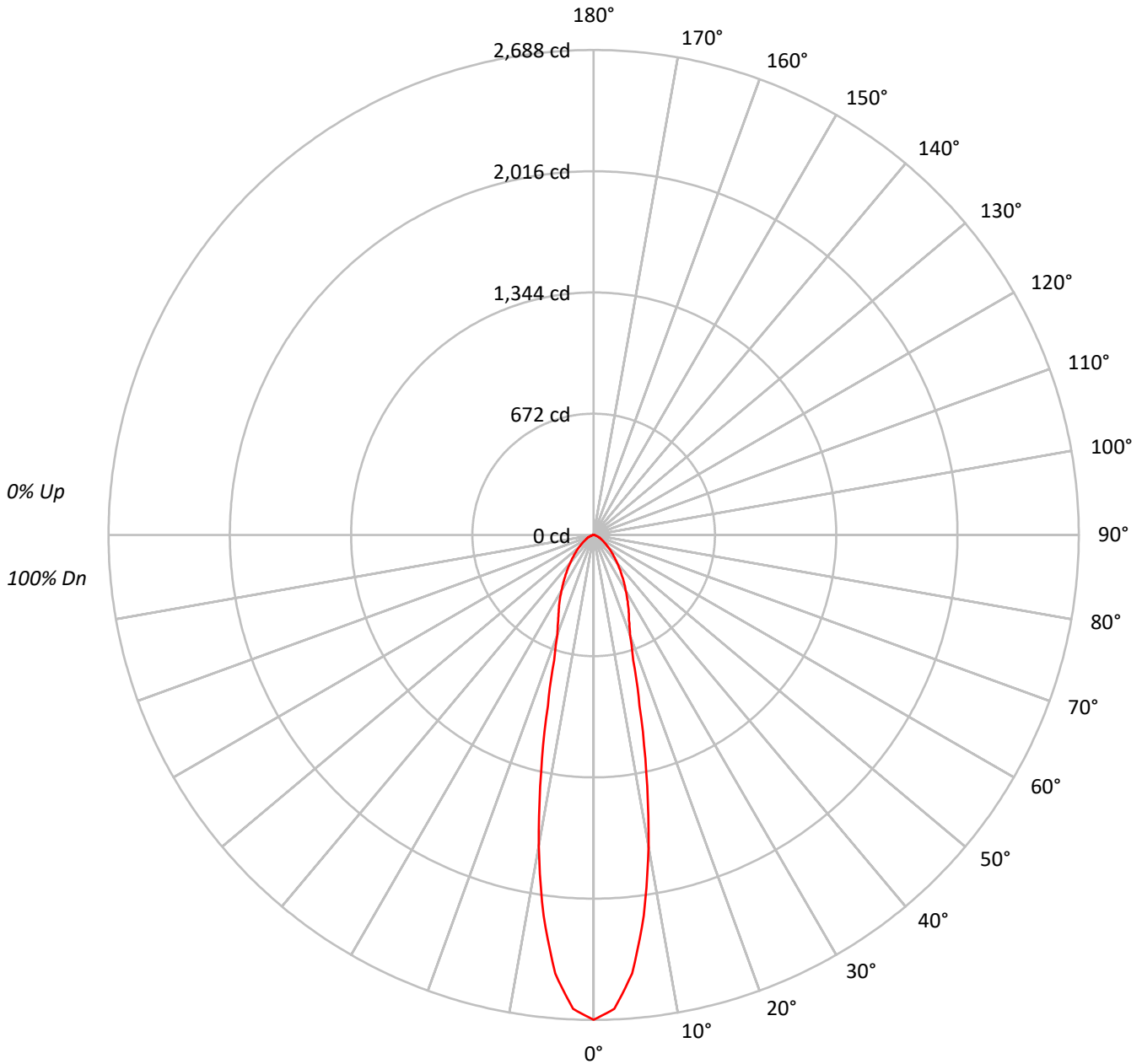
Lumens per Lamp: N/A  
Luminaire Lumens: 1101.0 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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
1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	102	97	94	105	100	96	93	97	93	90	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	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73			73
5	91	82	76	72	89	81	75	71	79	74	71	78	73	70	76	72	69	68			68
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	63			63
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60			60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	56			56
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55	54			54
10	72	62	57	53	71	62	56	53	61	56	53	60	56	52	60	55	52	51			51

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

	0°
0°	212162
5°	193391
10°	140310
15°	80107
20°	49489
25°	39814
30°	32460
35°	26126
40°	20816
45°	16411
50°	12772
55°	10047
60°	8052
65°	6538
70°	4616
75°	2440
80°	1818
85°	906

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16411 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	210.4	19.1
10°-20°	282.1	25.6
20°-30°	210.7	19.1
30°-40°	170.4	15.5
40°-50°	114.5	10.4
50°-60°	66.5	6.0
60°-70°	34.9	3.2
70°-80°	10.0	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°	703.2	63.9
0°-40°	873.6	79.4
0°-60°	1054.7	95.8
0°-90°	1101.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1101.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2688	
5°	2440	210
15°	980	282
25°	457	211
35°	271	170
45°	147	115
55°	73	66
65°	35	35
75°	8	10
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2687.6
2.5°	2629.6
5°	2440.5
7.5°	2128.5
10°	1750.4
12.5°	1344.3
15°	980.2
17.5°	729.2
20°	589.1
22.5°	512.1
25°	457.1
27.5°	405.1
30°	356.1
32.5°	312.1
35°	271.1
37.5°	235.0
40°	202.0
42.5°	173.0
45°	147.0
47.5°	124.0
50°	104.0
52.5°	87.0
55°	73.0
57.5°	61.0
60°	51.0
62.5°	42.0
65°	35.0
67.5°	29.0
70°	20.0
72.5°	13.0
75°	8.0
77.5°	5.0
80°	4.0
82.5°	2.0
85°	1.0
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)