

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: P643866

Luminaire Tested: ML5615LSWFL559FS1E - 594SNB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643866  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-56)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 594SNB - 900LM - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

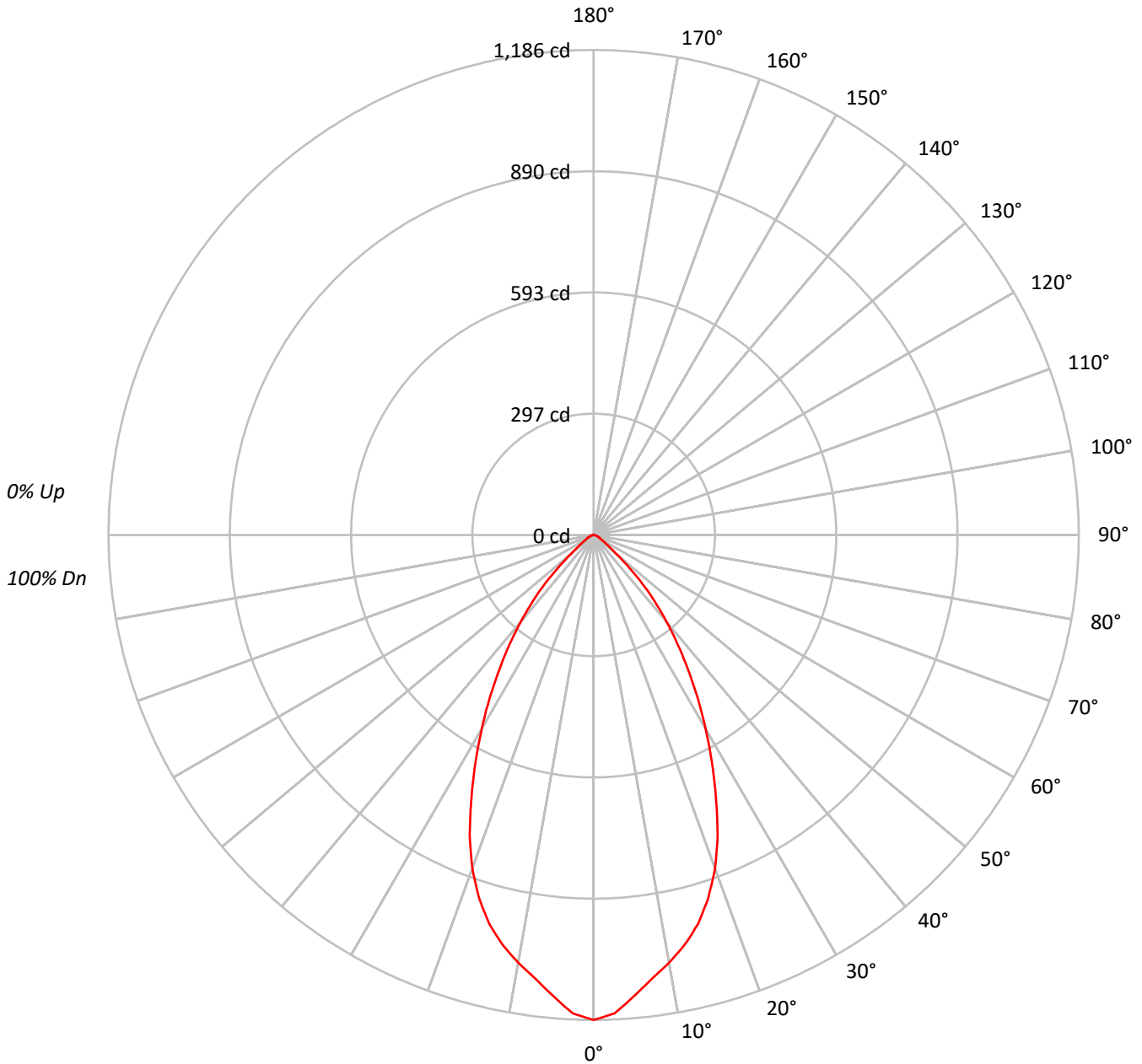
Lumens per Lamp: N/A  
Luminaire Lumens: 1139.0 lumens  
Efficiency: N/A  
Efficacy: 108.5 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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	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	110	108	105	103	104	102	100	100	98	97	97	95	94	92																												
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85																												
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																												
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																												
5	90	81	74	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66																												
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61																												
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																												
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																												
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																												
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46																												

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

	0°
0°	93632
5°	89710
10°	85137
15°	80508
20°	72843
25°	61502
30°	49861
35°	38740
40°	28648
45°	18755
50°	8965
55°	4817
60°	3158
65°	2615
70°	2308
75°	1525
80°	909
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18755 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.9	9.3
10°-20°	274.1	24.1
20°-30°	323.1	28.4
30°-40°	251.8	22.1
40°-50°	128.8	11.3
50°-60°	34.9	3.1
60°-70°	14.3	1.3
70°-80°	5.5	0.5
80°-90°	0.5	0.0
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°	703.1	61.7
0°-40°	954.9	83.8
0°-60°	1118.6	98.2
0°-90°	1139.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1186	
5°	1132	106
15°	985	274
25°	706	323
35°	402	252
45°	168	129
55°	35	35
65°	14	14
75°	5	6
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1186.1
2.5°	1171.1
5°	1132.1
7.5°	1094.1
10°	1062.1
12.5°	1027.1
15°	985.1
17.5°	931.1
20°	867.1
22.5°	792.1
25°	706.1
27.5°	625.1
30°	547.0
32.5°	473.0
35°	402.0
37.5°	337.0
40°	278.0
42.5°	221.0
45°	168.0
47.5°	112.0
50°	73.0
52.5°	50.0
55°	35.0
57.5°	26.0
60°	20.0
62.5°	17.0
65°	14.0
67.5°	12.0
70°	10.0
72.5°	7.0
75°	5.0
77.5°	3.0
80°	2.0
82.5°	1.0
85°	0.0
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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Scaled Data Report



(END OF REPORT)