

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: P643825

Luminaire Tested: ML5615LSWFL559FS1E - 593SNB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-53)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 593SNB - 900LM - 5000K  
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

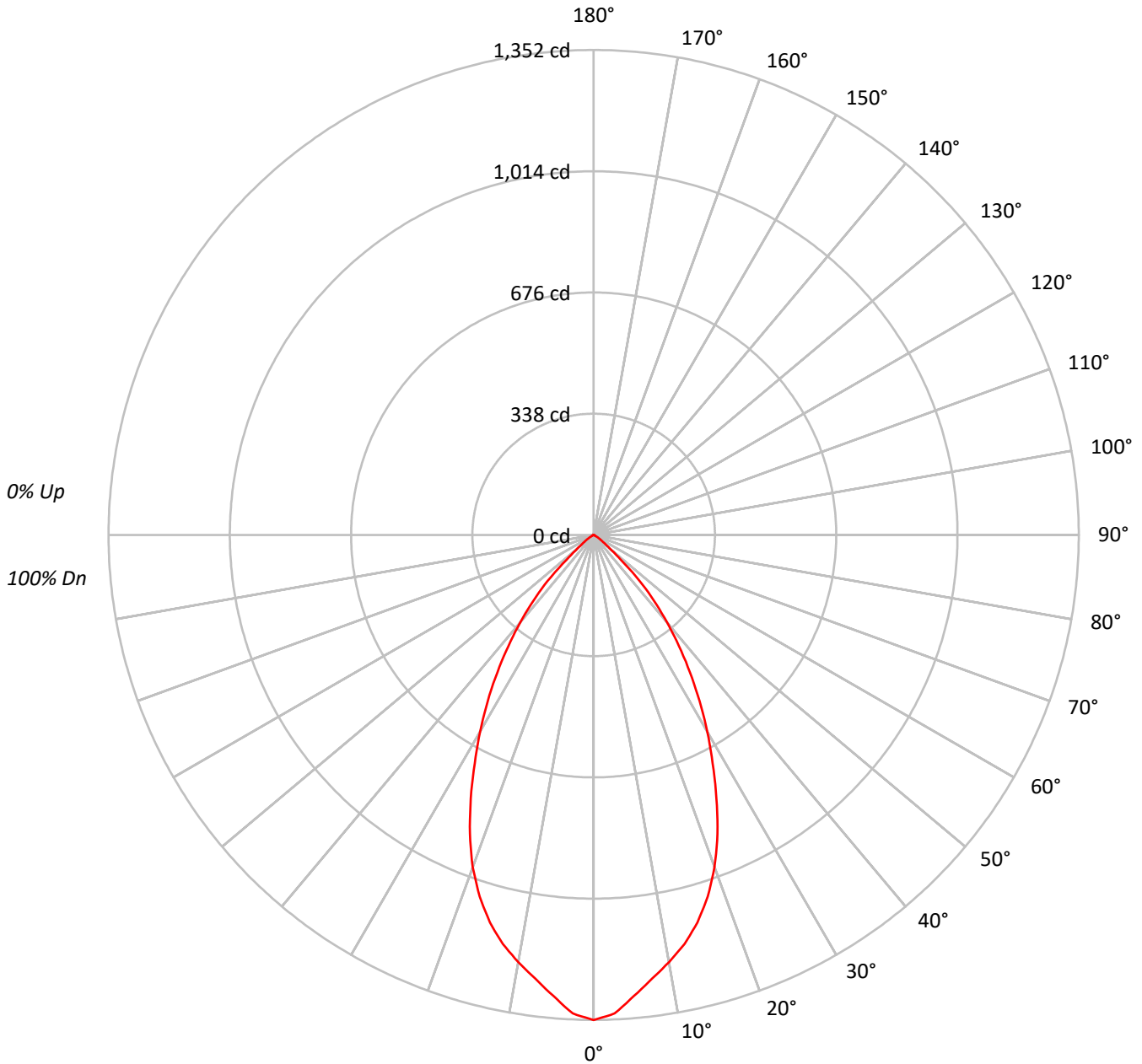
Lumens per Lamp: N/A  
Luminaire Lumens: 1257.8 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (Ain): 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									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	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	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93																											
2	107	102	98	94	105	101	97	93	97	94	91	94	92	89	91	89	88	86																											
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79																											
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73																											
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68																											
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63																											
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58																											
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54																											
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51																											
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																											

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

	0°
0°	106768
5°	102215
10°	96920
15°	91377
20°	82755
25°	70544
30°	57645
35°	45053
40°	32708
45°	20318
50°	6988
55°	3289
60°	1263
65°	430
70°	254
75°	336
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20318 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.7	9.6
10°-20°	311.4	24.8
20°-30°	369.9	29.4
30°-40°	291.7	23.2
40°-50°	136.6	10.9
50°-60°	23.7	1.9
60°-70°	3.0	0.2
70°-80°	0.7	0.1
80°-90°	0.0	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°	802.0	63.8
0°-40°	1093.7	87.0
0°-60°	1254.0	99.7
0°-90°	1257.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1257.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1352	
5°	1290	121
15°	1118	311
25°	810	370
35°	468	292
45°	182	137
55°	24	24
65°	2	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1352.5
2.5°	1335.4
5°	1289.9
7.5°	1247.8
10°	1209.1
12.5°	1168.2
15°	1118.1
17.5°	1056.7
20°	985.1
22.5°	902.0
25°	809.9
27.5°	717.8
30°	632.4
32.5°	549.4
35°	467.5
37.5°	390.2
40°	317.4
42.5°	249.1
45°	182.0
47.5°	102.4
50°	56.9
52.5°	36.4
55°	23.9
57.5°	14.8
60°	8.0
62.5°	4.5
65°	2.3
67.5°	1.1
70°	1.1
72.5°	1.1
75°	1.1
77.5°	0.0
80°	0.0
82.5°	0.0
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)