

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P642008

Luminaire Tested: ML5612LSWFL5597FS1E - 593SNB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642008  
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: ML5612LSWFL5597FS1E - 593SNB - 900LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1275.0 lumens  
Efficiency: N/A  
Efficacy: 95.9 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

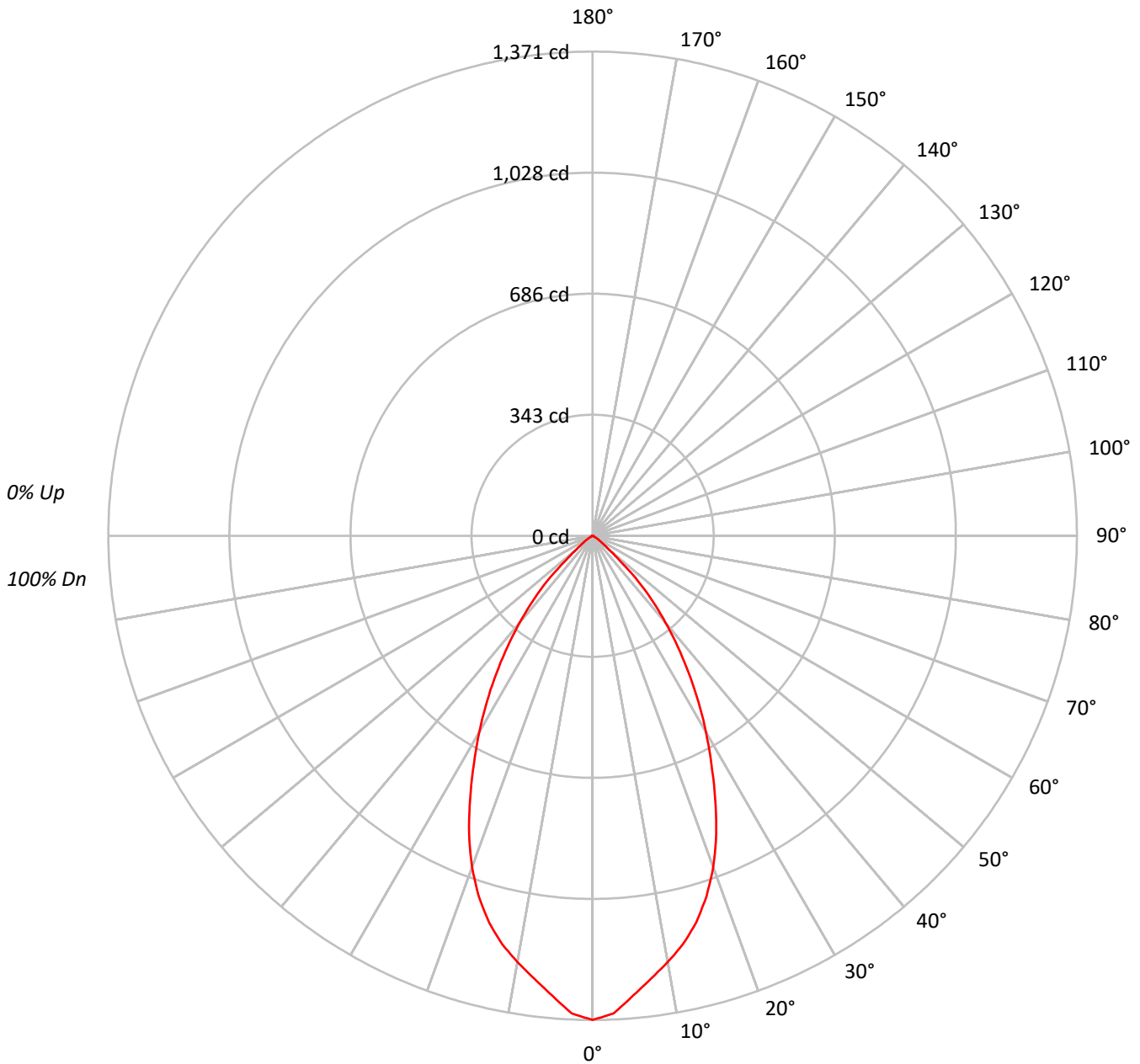
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	108220
5°	103610
10°	98243
15°	92628
20°	83881
25°	71502
30°	58438
35°	45669
40°	33151
45°	20597
50°	7074
55°	3331
60°	1279
65°	430
70°	277
75°	366
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20597 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.3	9.6
10°-20°	315.7	24.8
20°-30°	374.9	29.4
30°-40°	295.7	23.2
40°-50°	138.5	10.9
50°-60°	24.0	1.9
60°-70°	3.1	0.2
70°-80°	0.8	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°	812.9	63.8
0°-40°	1108.6	86.9
0°-60°	1271.1	99.7
0°-90°	1275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1275.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1371	
5°	1308	122
15°	1133	316
25°	821	375
35°	474	296
45°	184	138
55°	24	24
65°	2	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1370.9
2.5°	1353.6
5°	1307.5
7.5°	1264.8
10°	1225.6
12.5°	1184.1
15°	1133.4
17.5°	1071.1
20°	998.5
22.5°	914.3
25°	820.9
27.5°	727.5
30°	641.1
32.5°	556.9
35°	473.9
37.5°	395.5
40°	321.7
42.5°	252.5
45°	184.5
47.5°	103.8
50°	57.6
52.5°	36.9
55°	24.2
57.5°	15.0
60°	8.1
62.5°	4.6
65°	2.3
67.5°	1.2
70°	1.2
72.5°	1.2
75°	1.2
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)