

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: P642188

Luminaire Tested: ML5612LSWFL5597FS1E - 693SNB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642188  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-65)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 693SNB - 900LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1291.1 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

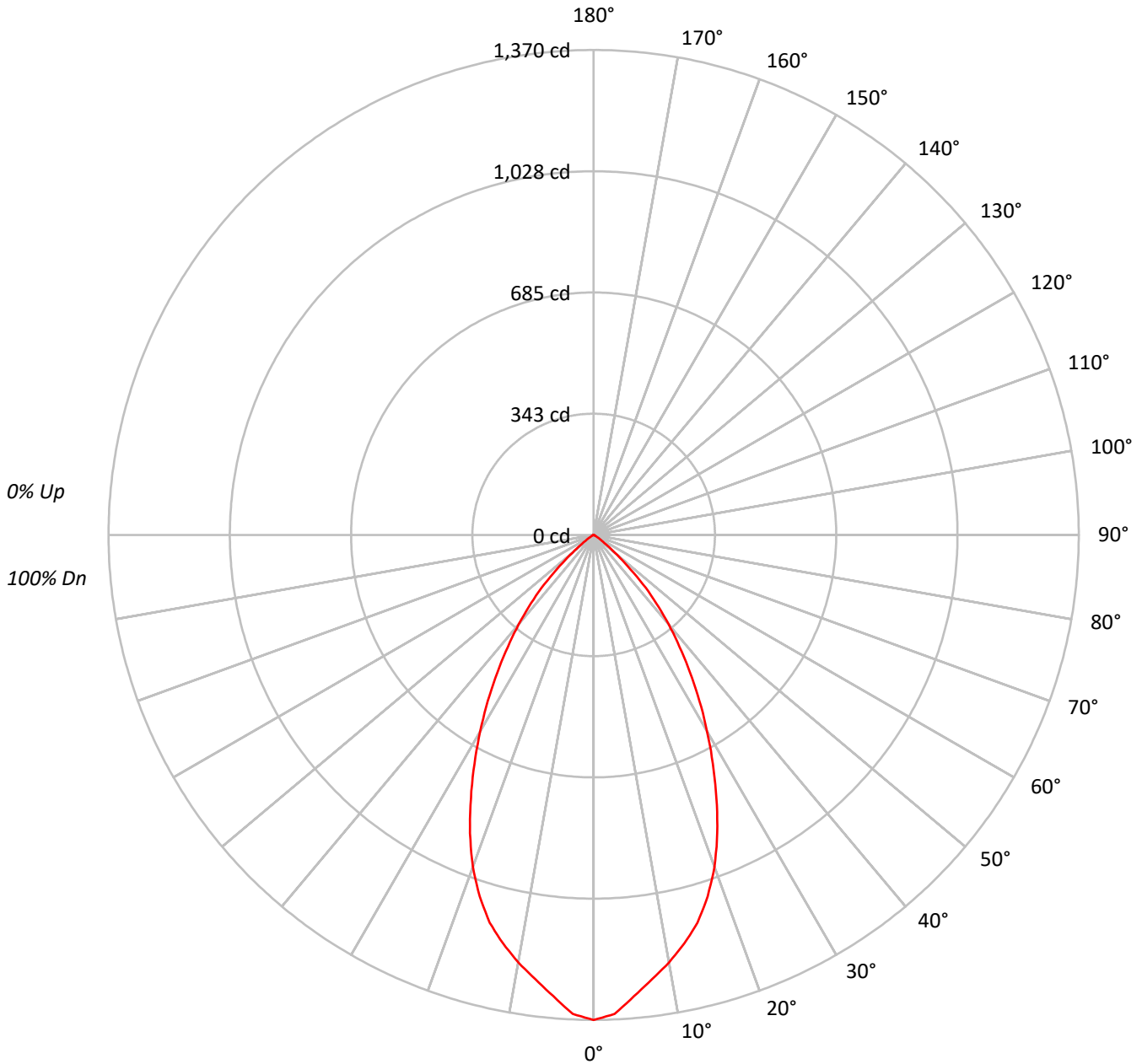
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86			86
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	69	76	72	69	67			67
6	86	76	70	65	84	75	70	65	74	69	65	72	68	64	71	67	64	62			62
7	81	71	65	60	80	71	65	60	69	64	60	68	63	60	67	63	59	58			58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54			54
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	49	56	52	48	47			47

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

	0°
0°	75126
5°	71984
10°	68257
15°	64353
20°	58210
25°	49606
30°	40525
35°	31728
40°	23523
45°	15288
50°	6593
55°	2428
60°	1140
65°	298
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15288 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.4	9.5
10°-20°	315.5	24.4
20°-30°	374.7	29.0
30°-40°	296.5	23.0
40°-50°	150.5	11.7
50°-60°	28.2	2.2
60°-70°	3.2	0.3
70°-80°	0.0	0.0
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°	812.6	62.9
0°-40°	1109.1	85.9
0°-60°	1287.8	99.7
0°-90°	1291.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1291.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1370	
5°	1308	122
15°	1134	316
25°	820	375
35°	474	297
45°	197	150
55°	25	28
65°	2	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1370.4
2.5°	1354.2
5°	1308.1
7.5°	1265.4
10°	1226.2
12.5°	1182.3
15°	1133.9
17.5°	1070.4
20°	997.8
22.5°	912.4
25°	820.1
27.5°	729.0
30°	640.2
32.5°	556.0
35°	474.1
37.5°	398.0
40°	328.7
42.5°	261.8
45°	197.2
47.5°	129.2
50°	77.3
52.5°	41.5
55°	25.4
57.5°	17.3
60°	10.4
62.5°	4.6
65°	2.3
67.5°	1.2
70°	0.0
72.5°	0.0
75°	0.0
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)