

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: P641662

Luminaire Tested: ML5612LSVWFL97FS1E - 593SNB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641662  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-99)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 593SNB - 900LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

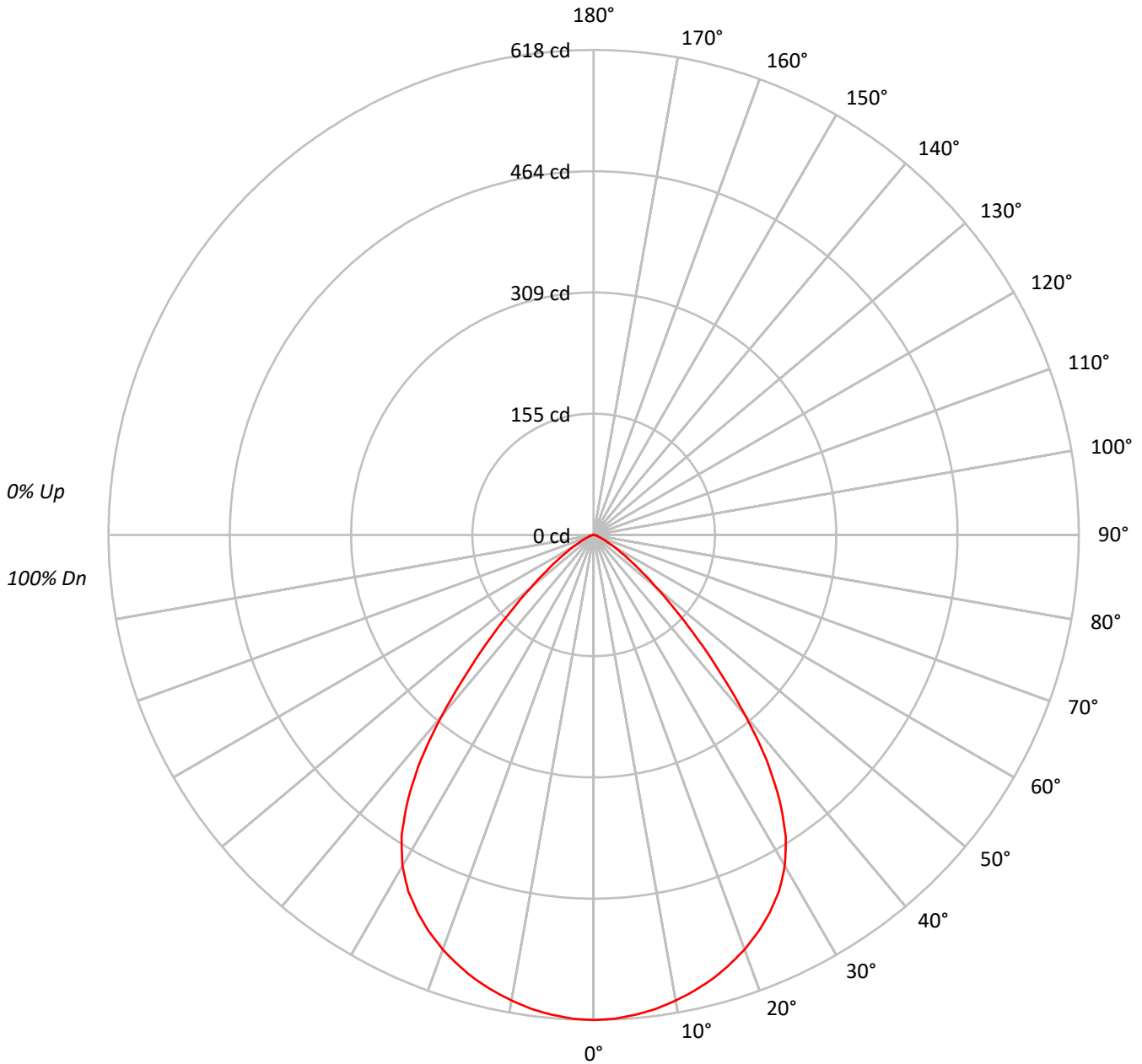
Lumens per Lamp: N/A  
Luminaire Lumens: 941.0 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74			74
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67			67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61			61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55			55
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51			51
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46			46
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43			43
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39			39

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

	0°
0°	48801
5°	48631
10°	48296
15°	47867
20°	47220
25°	46225
30°	44382
35°	39791
40°	30987
45°	20787
50°	12809
55°	7721
60°	4610
65°	2727
70°	1546
75°	1373
80°	1000
85°	996

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20787 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	6.2
10°-20°	165.0	17.5
20°-30°	243.7	25.9
30°-40°	252.9	26.9
40°-50°	146.8	15.6
50°-60°	53.3	5.7
60°-70°	15.5	1.6
70°-80°	4.7	0.5
80°-90°	0.9	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°	466.9	49.6
0°-40°	719.8	76.5
0°-60°	919.9	97.8
0°-90°	941.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	941.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	618	
5°	614	58
15°	586	165
25°	531	244
35°	413	253
45°	186	147
55°	56	53
65°	15	15
75°	4	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	618.2
2.5°	617.1
5°	613.7
7.5°	609.2
10°	602.5
12.5°	594.7
15°	585.7
17.5°	574.5
20°	562.1
22.5°	547.5
25°	530.7
27.5°	511.6
30°	486.9
32.5°	455.5
35°	412.9
37.5°	362.4
40°	300.7
42.5°	240.1
45°	186.2
47.5°	140.2
50°	104.3
52.5°	77.4
55°	56.1
57.5°	40.4
60°	29.2
62.5°	20.2
65°	14.6
67.5°	10.1
70°	6.7
72.5°	5.6
75°	4.5
77.5°	3.4
80°	2.2
82.5°	1.1
85°	1.1
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)