

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: P641844

Luminaire Tested: ML5612LSVWFL97FS1E - 693SNB - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641844  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-111)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 693SNB - 900LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

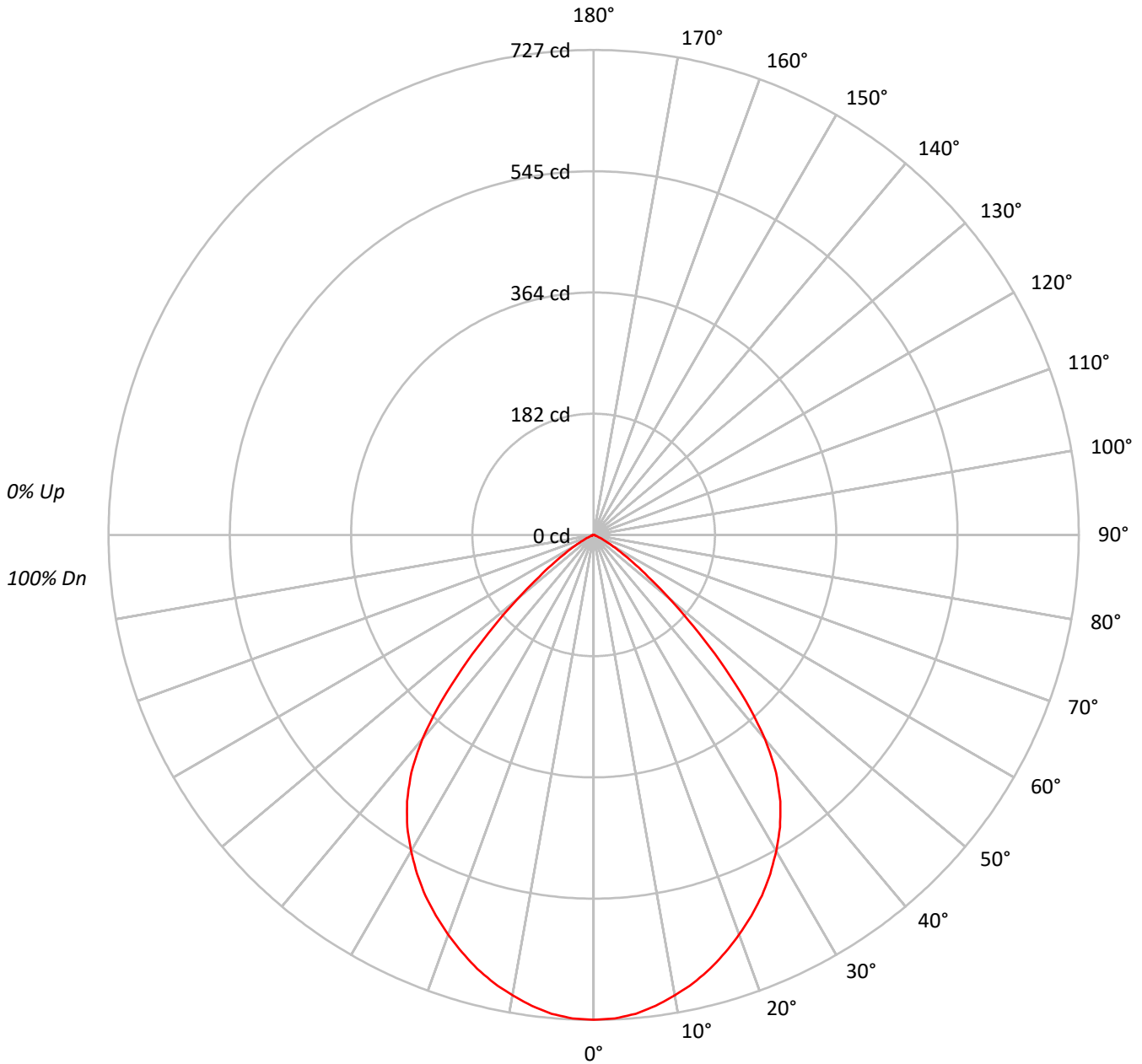
Lumens per Lamp: N/A  
Luminaire Lumens: 1122.7 lumens  
Efficiency: N/A  
Efficacy: 84.4 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.18  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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



TEST NUMBER: P641844  
CATALOG NUMBER: ML5612LSVWFL97FS1E - 693SNB - 900LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641844

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693SNB - 900LM - 4000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91																			
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82																			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74																			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67																			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60																			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55																			
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50																			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	47	56	51	47	46																			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42																			
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39																			

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

	0°
0°	39843
5°	39654
10°	39011
15°	38224
20°	37191
25°	36087
30°	34626
35°	32618
40°	28582
45°	20770
50°	12486
55°	6757
60°	3399
65°	1453
70°	401
75°	254
80°	379
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20770 cd/sqm



TEST NUMBER: P641844

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693SNB - 900LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.1	6.1
10°-20°	189.5	16.9
20°-30°	274.1	24.4
30°-40°	301.2	26.8
40°-50°	206.4	18.4
50°-60°	68.4	6.1
60°-70°	12.6	1.1
70°-80°	1.8	0.2
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°	531.8	47.4
0°-40°	833.0	74.2
0°-60°	1107.8	98.7
0°-90°	1122.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1122.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	727	
5°	721	68
15°	674	190
25°	597	274
35°	487	301
45°	268	206
55°	71	68
65°	11	13
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P641844

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693SNB - 900LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	726.8
2.5°	725.6
5°	720.6
7.5°	711.9
10°	700.8
12.5°	688.4
15°	673.5
17.5°	656.1
20°	637.5
22.5°	617.7
25°	596.6
27.5°	573.0
30°	547.0
32.5°	519.7
35°	487.4
37.5°	449.0
40°	399.4
42.5°	337.4
45°	267.9
47.5°	202.2
50°	146.4
52.5°	102.9
55°	70.7
57.5°	47.1
60°	31.0
62.5°	18.6
65°	11.2
67.5°	5.0
70°	2.5
72.5°	2.5
75°	1.2
77.5°	1.2
80°	1.2
82.5°	1.2
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

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

Scaled Data Report





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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)