

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: P641694

Luminaire Tested: ML5612LSVWFL97FS1E - 593WB - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641694  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-97)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 593WB - 900LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1201.6 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

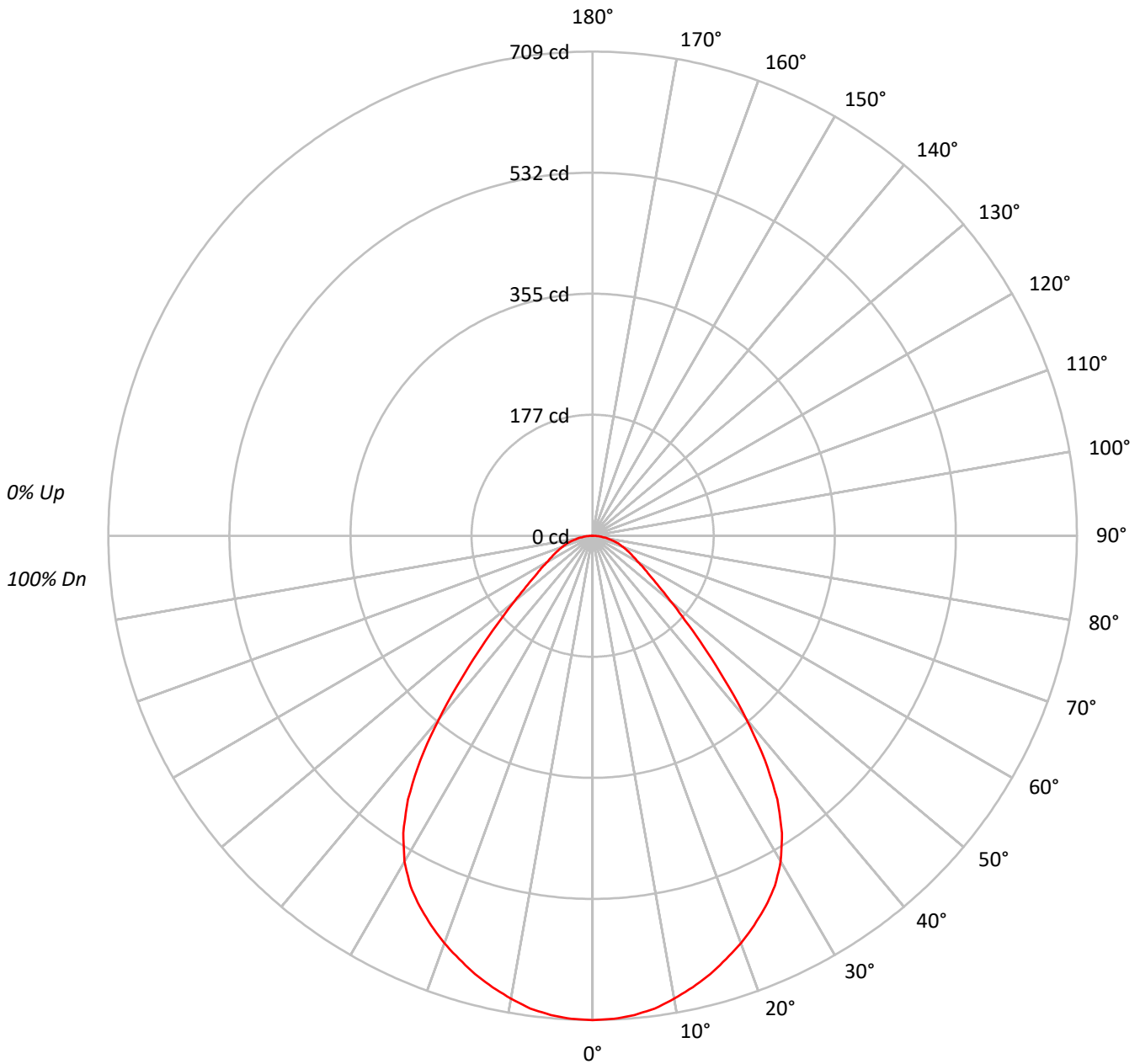
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641694

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593WB - 900LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641694

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593WB - 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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°
0°	55993
5°	55818
10°	55173
15°	54323
20°	53336
25°	52174
30°	50189
35°	45409
40°	36037
45°	25610
50°	18274
55°	14162
60°	12141
65°	11357
70°	10871
75°	10584
80°	10138
85°	8967

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25610 cd/sqm



TEST NUMBER: P641694

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593WB - 900LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.7	5.6
10°-20°	187.2	15.6
20°-30°	275.1	22.9
30°-40°	288.3	24.0
40°-50°	181.3	15.1
50°-60°	95.4	7.9
60°-70°	60.4	5.0
70°-80°	36.3	3.0
80°-90°	10.8	0.9
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°	529.1	44.0
0°-40°	817.4	68.0
0°-60°	1094.1	91.1
0°-90°	1201.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1201.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	709	
5°	704	67
15°	665	187
25°	599	275
35°	471	288
45°	229	181
55°	103	95
65°	61	60
75°	35	36
85°	10	11
90°	0	



TEST NUMBER: P641694

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593WB - 900LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	709.3
2.5°	708.1
5°	704.4
7.5°	698.2
10°	688.3
12.5°	677.1
15°	664.7
17.5°	649.8
20°	634.9
22.5°	617.6
25°	599.0
27.5°	577.9
30°	550.6
32.5°	515.9
35°	471.2
37.5°	414.2
40°	349.7
42.5°	285.2
45°	229.4
47.5°	183.5
50°	148.8
52.5°	122.8
55°	102.9
57.5°	89.3
60°	76.9
62.5°	68.2
65°	60.8
67.5°	53.3
70°	47.1
72.5°	40.9
75°	34.7
77.5°	27.3
80°	22.3
82.5°	14.9
85°	9.9
87.5°	3.7
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)