

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: P641920

Luminaire Tested: ML5612LSVWFL97FS1E - 696WB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641920  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-115)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 696WB - 900LM - 5000K  
Description: ML56 RR, MILKY OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1289.2 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

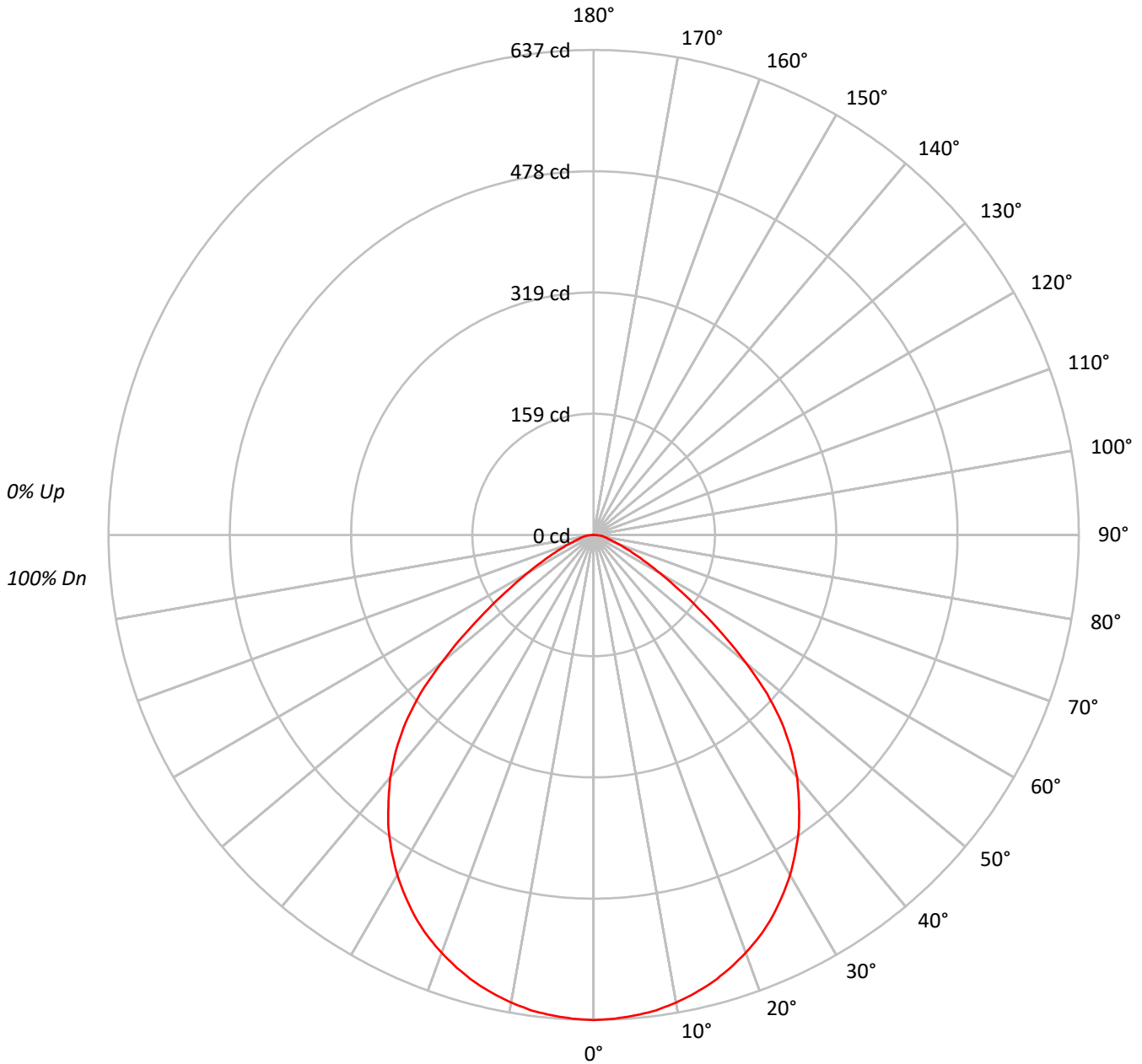
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641920

CATALOG NUMBER: ML5612LSVWFL97FS1E - 696WB - 900LM - 5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641920

CATALOG NUMBER: ML5612LSVWFL97FS1E - 696WB - 900LM - 5000K

**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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53			53
6	76	64	57	51	75	64	56	51	62	55	50	60	54	50	59	54	49	48			48
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43			43
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39			39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

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

	0°
0°	34937
5°	34861
10°	34713
15°	34478
20°	34070
25°	33522
30°	32651
35°	31447
40°	29720
45°	27104
50°	22208
55°	15999
60°	11008
65°	7562
70°	5369
75°	4194
80°	4293
85°	4655

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 27104 cd/sqm



TEST NUMBER: P641920

CATALOG NUMBER: ML5612LSVWFL97FS1E - 696WB - 900LM - 5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	4.7
10°-20°	171.2	13.3
20°-30°	254.8	19.8
30°-40°	292.7	22.7
40°-50°	265.7	20.6
50°-60°	153.4	11.9
60°-70°	60.8	4.7
70°-80°	22.9	1.8
80°-90°	7.6	0.6
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°	486.2	37.7
0°-40°	778.9	60.4
0°-60°	1197.9	92.9
0°-90°	1289.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1289.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	637	
5°	634	60
15°	608	171
25°	554	255
35°	470	293
45°	350	266
55°	167	153
65°	58	61
75°	20	23
85°	7	8
90°	0	



TEST NUMBER: P641920

CATALOG NUMBER: ML5612LSVWFL97FS1E - 696WB - 900LM - 5000K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	637.3
2.5°	636.0
5°	633.5
7.5°	629.8
10°	623.6
12.5°	616.2
15°	607.5
17.5°	596.4
20°	584.0
22.5°	570.3
25°	554.2
27.5°	535.6
30°	515.8
32.5°	493.4
35°	469.9
37.5°	442.6
40°	415.3
42.5°	384.3
45°	349.6
47.5°	308.7
50°	260.4
52.5°	212.0
55°	167.4
57.5°	130.2
60°	100.4
62.5°	76.9
65°	58.3
67.5°	44.6
70°	33.5
72.5°	26.0
75°	19.8
77.5°	17.4
80°	13.6
82.5°	11.2
85°	7.4
87.5°	2.5
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)