

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: P641900

Luminaire Tested: ML5612LSVWFL97FS1E - 694WB - 600LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-113)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 694WB - 600LM - 5000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

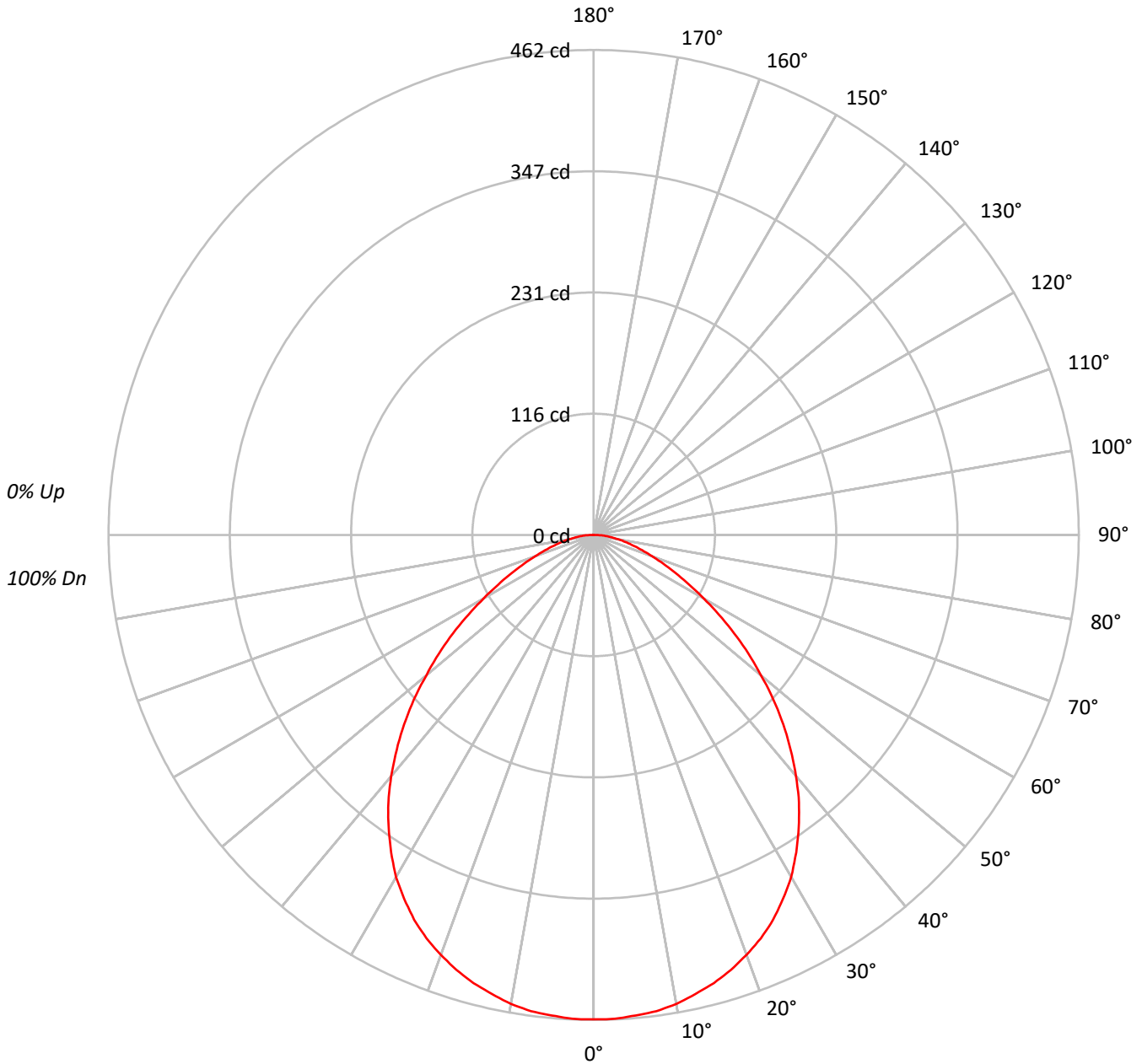
Lumens per Lamp: N/A  
Luminaire Lumens: 1050.2 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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: P641900  
CATALOG NUMBER: ML5612LSVWFL97FS1E - 694WB - 600LM - 5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641900

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694WB - 600LM - 5000K

**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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74																			
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64																			
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43																			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32																			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29																			

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

	0°
0°	25300
5°	25286
10°	25256
15°	25091
20°	24835
25°	24461
30°	23820
35°	22787
40°	21462
45°	19801
50°	17739
55°	15627
60°	13256
65°	11169
70°	9457
75°	8197
80°	7324
85°	7296

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19801 cd/sqm



TEST NUMBER: P641900

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694WB - 600LM - 5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	4.2
10°-20°	124.6	11.9
20°-30°	185.9	17.7
30°-40°	212.5	20.2
40°-50°	196.4	18.7
50°-60°	146.1	13.9
60°-70°	86.5	8.2
70°-80°	42.0	4.0
80°-90°	12.6	1.2
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°	354.2	33.7
0°-40°	566.7	54.0
0°-60°	909.2	86.6
0°-90°	1050.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1050.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	462	
5°	460	44
15°	442	125
25°	404	186
35°	340	212
45°	255	196
55°	164	146
65°	86	86
75°	39	42
85°	12	13
90°	0	



TEST NUMBER: P641900

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694WB - 600LM - 5000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	461.5
2.5°	461.5
5°	459.5
7.5°	457.6
10°	453.7
12.5°	447.9
15°	442.1
17.5°	434.4
20°	425.7
22.5°	416.0
25°	404.4
27.5°	390.8
30°	376.3
32.5°	358.9
35°	340.5
37.5°	321.2
40°	299.9
42.5°	277.7
45°	255.4
47.5°	232.2
50°	208.0
52.5°	185.7
55°	163.5
57.5°	141.2
60°	120.9
62.5°	102.5
65°	86.1
67.5°	71.6
70°	59.0
72.5°	48.4
75°	38.7
77.5°	31.0
80°	23.2
82.5°	16.4
85°	11.6
87.5°	6.8
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)