

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: P641806

Luminaire Tested: ML5612LSVWFL97FS1E - 692W - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-108)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 692W - 600LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

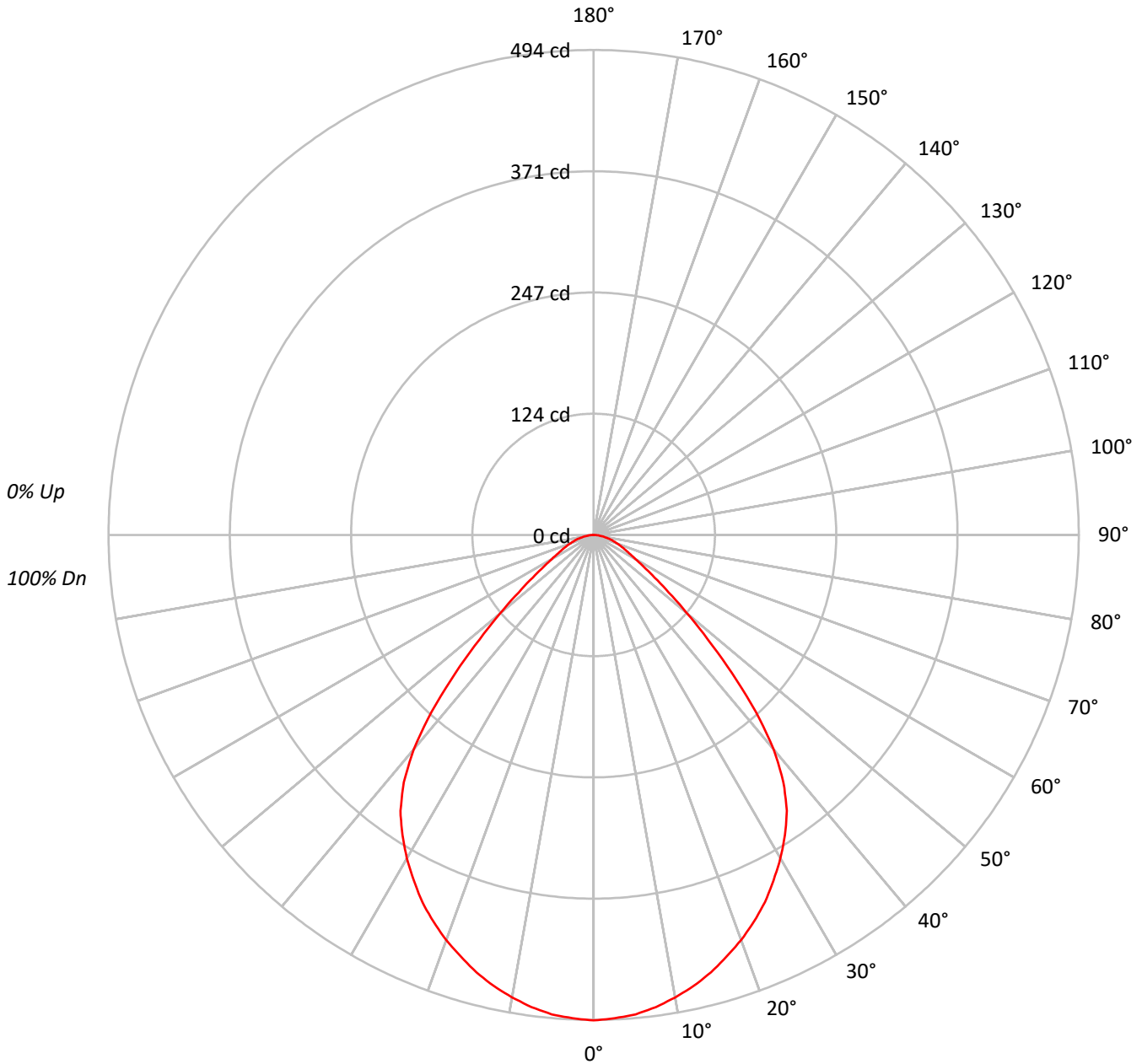
Lumens per Lamp: N/A  
Luminaire Lumens: 861.4 lumens  
Efficiency: N/A  
Efficacy: 83.6 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P641806  
CATALOG NUMBER: ML5612LSVWFL97FS1E - 692W - 600LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P641806

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692W - 600LM - 2700K

**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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																			
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	47	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	52	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

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

	0°
0°	27109
5°	26975
10°	26625
15°	26181
20°	25616
25°	24969
30°	24080
35°	22955
40°	20403
45°	15436
50°	10524
55°	7235
60°	5416
65°	4527
70°	4087
75°	3791
80°	3220
85°	2705

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15436 cd/sqm



TEST NUMBER: P641806

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692W - 600LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.4	5.4
10°-20°	129.9	15.1
20°-30°	189.6	22.0
30°-40°	211.8	24.6
40°-50°	154.1	17.9
50°-60°	70.9	8.2
60°-70°	35.3	4.1
70°-80°	18.6	2.2
80°-90°	4.9	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°	365.9	42.5
0°-40°	577.7	67.1
0°-60°	802.6	93.2
0°-90°	861.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	861.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	494	
5°	490	46
15°	461	130
25°	413	190
35°	343	212
45°	199	154
55°	76	71
65°	35	35
75°	18	19
85°	4	5
90°	0	



TEST NUMBER: P641806

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692W - 600LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	494.5
2.5°	492.8
5°	490.2
7.5°	485.1
10°	478.3
12.5°	470.6
15°	461.3
17.5°	450.2
20°	439.1
22.5°	426.4
25°	412.8
27.5°	396.6
30°	380.4
32.5°	362.5
35°	343.0
37.5°	317.4
40°	285.1
42.5°	244.2
45°	199.1
47.5°	157.4
50°	123.4
52.5°	96.2
55°	75.7
57.5°	60.4
60°	49.4
62.5°	40.8
65°	34.9
67.5°	29.8
70°	25.5
72.5°	21.3
75°	17.9
77.5°	13.6
80°	10.2
82.5°	6.8
85°	4.3
87.5°	1.7
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)