

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: P641762

Luminaire Tested: ML5612LSVWFL97FS1E - 691WB - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-105)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 691WB - 600LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

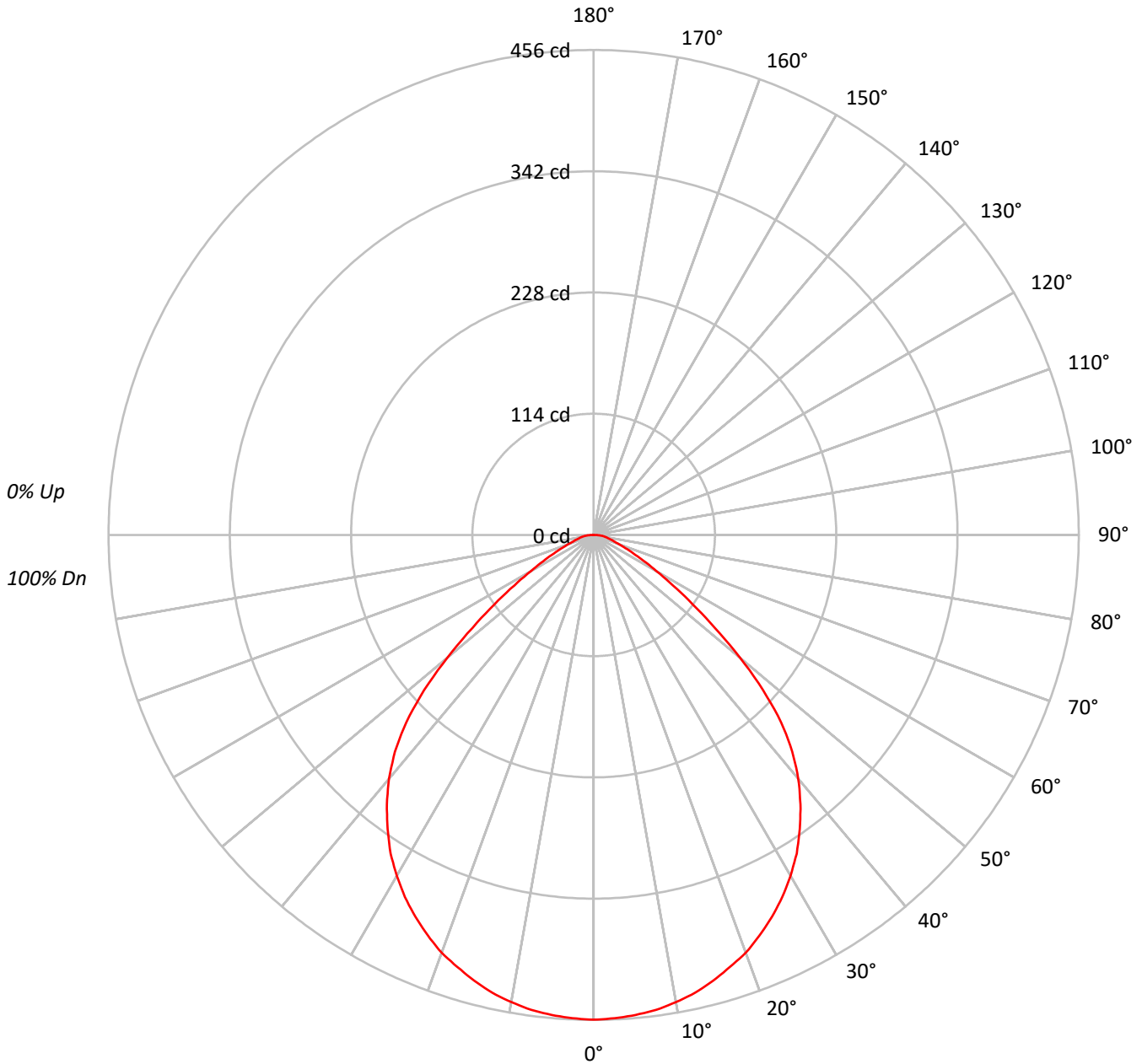
Lumens per Lamp: N/A  
Luminaire Lumens: 919.3 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P641762  
CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 600LM - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641762

CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 600LM - 3000K

**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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53			
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48			
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			

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

	0°
0°	24987
5°	24934
10°	24833
15°	24626
20°	24391
25°	23971
30°	23421
35°	22600
40°	21412
45°	19328
50°	15292
55°	10867
60°	7477
65°	5331
70°	4071
75°	3516
80°	3599
85°	3837

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19328 cd/sqm



TEST NUMBER: P641762

CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 600LM - 3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.0	4.7
10°-20°	122.4	13.3
20°-30°	182.4	19.8
30°-40°	210.6	22.9
40°-50°	188.7	20.5
50°-60°	104.3	11.3
60°-70°	42.8	4.7
70°-80°	18.2	2.0
80°-90°	6.8	0.7
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°	347.8	37.8
0°-40°	558.5	60.8
0°-60°	851.5	92.6
0°-90°	919.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	919.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	456	
5°	453	43
15°	434	122
25°	396	182
35°	338	211
45°	249	189
55°	114	104
65°	41	43
75°	17	18
85°	6	7
90°	0	



TEST NUMBER: P641762

CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 600LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	455.8
2.5°	454.9
5°	453.1
7.5°	450.5
10°	446.1
12.5°	440.9
15°	433.9
17.5°	426.0
20°	418.1
22.5°	407.6
25°	396.3
27.5°	384.0
30°	370.0
32.5°	355.2
35°	337.7
37.5°	319.3
40°	299.2
42.5°	276.4
45°	249.3
47.5°	216.1
50°	179.3
52.5°	143.5
55°	113.7
57.5°	88.4
60°	68.2
62.5°	53.4
65°	41.1
67.5°	32.4
70°	25.4
72.5°	20.1
75°	16.6
77.5°	14.0
80°	11.4
82.5°	9.6
85°	6.1
87.5°	3.5
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)