

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: P641422

Luminaire Tested: ML5612LSVWFL7597FS1E - 691WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-82)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 691WB - 900LM - 3000K  
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1226.6 lumens  
Efficiency: N/A  
Efficacy: 92.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

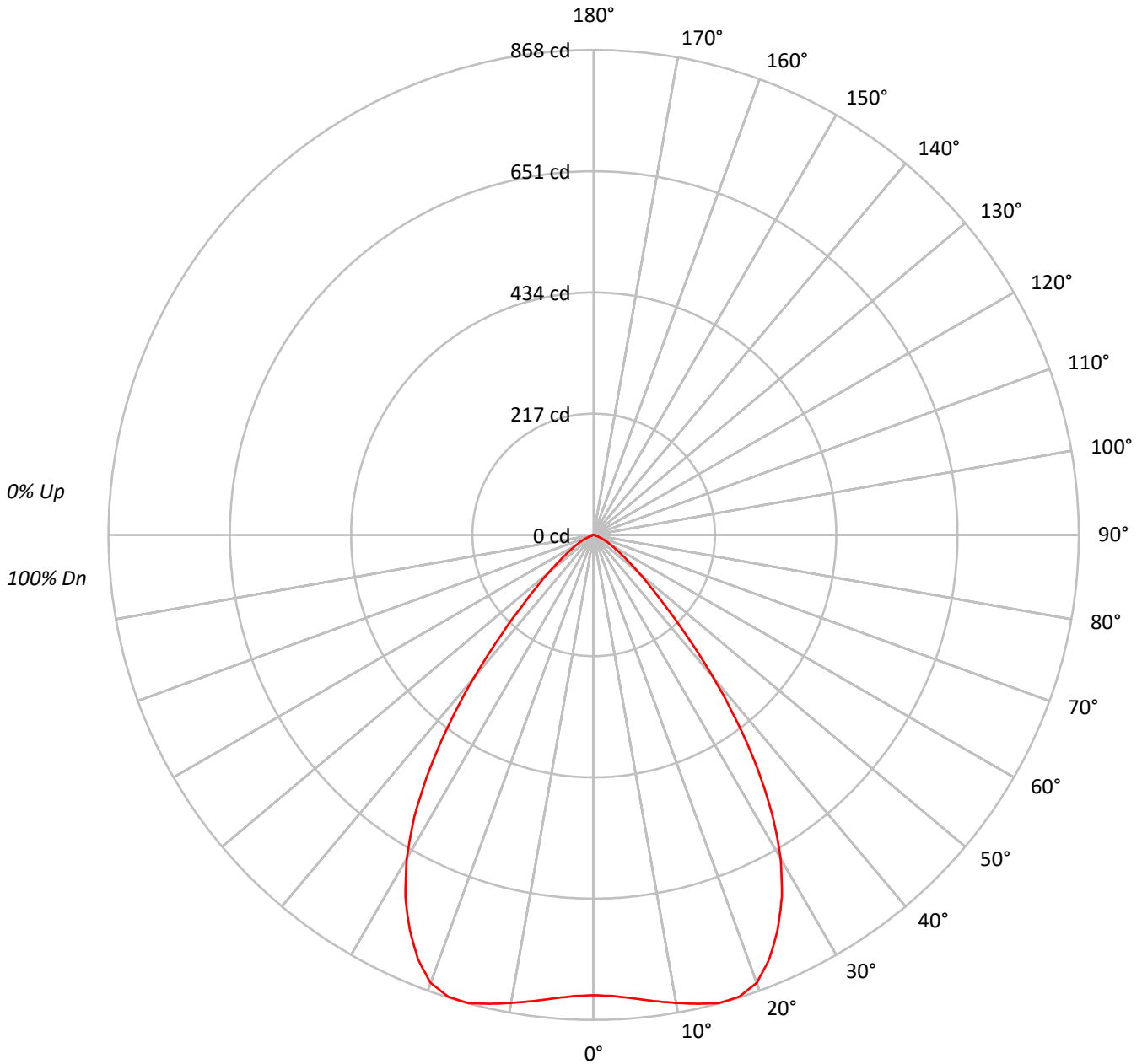
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641422

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 691WB - 900LM - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641422

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 691WB - 900LM - 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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69			
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58			
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53			
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			

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

	0°
0°	45161
5°	45829
10°	47355
15°	49234
20°	49763
25°	47114
30°	42342
35°	34251
40°	23773
45°	14273
50°	9091
55°	5687
60°	3815
65°	2478
70°	1266
75°	720
80°	695
85°	692

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14273 cd/sqm



TEST NUMBER: P641422

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 691WB - 900LM - 3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.1	6.5
10°-20°	244.3	19.9
20°-30°	355.2	29.0
30°-40°	314.5	25.6
40°-50°	151.2	12.3
50°-60°	56.3	4.6
60°-70°	19.3	1.6
70°-80°	4.3	0.4
80°-90°	1.5	0.1
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°	679.5	55.4
0°-40°	994.0	81.0
0°-60°	1201.5	98.0
0°-90°	1226.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1226.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	824	
5°	833	80
15°	868	244
25°	779	355
35°	512	314
45°	184	151
55°	60	56
65°	19	19
75°	3	4
85°	1	1
90°	0	



TEST NUMBER: P641422

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 691WB - 900LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	823.8
2.5°	826.0
5°	832.8
7.5°	841.7
10°	850.7
12.5°	859.7
15°	867.5
17.5°	866.4
20°	853.0
22.5°	821.5
25°	778.9
27.5°	729.5
30°	668.9
32.5°	595.9
35°	511.8
37.5°	420.9
40°	332.2
42.5°	250.3
45°	184.1
47.5°	139.2
50°	106.6
52.5°	78.6
55°	59.5
57.5°	44.9
60°	34.8
62.5°	26.9
65°	19.1
67.5°	11.2
70°	7.9
72.5°	4.5
75°	3.4
77.5°	3.4
80°	2.2
82.5°	2.2
85°	1.1
87.5°	1.1
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)