

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: P641558

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641558  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-90)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 694WB - 900LM - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1272.7 lumens  
Efficiency: N/A  
Efficacy: 95.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

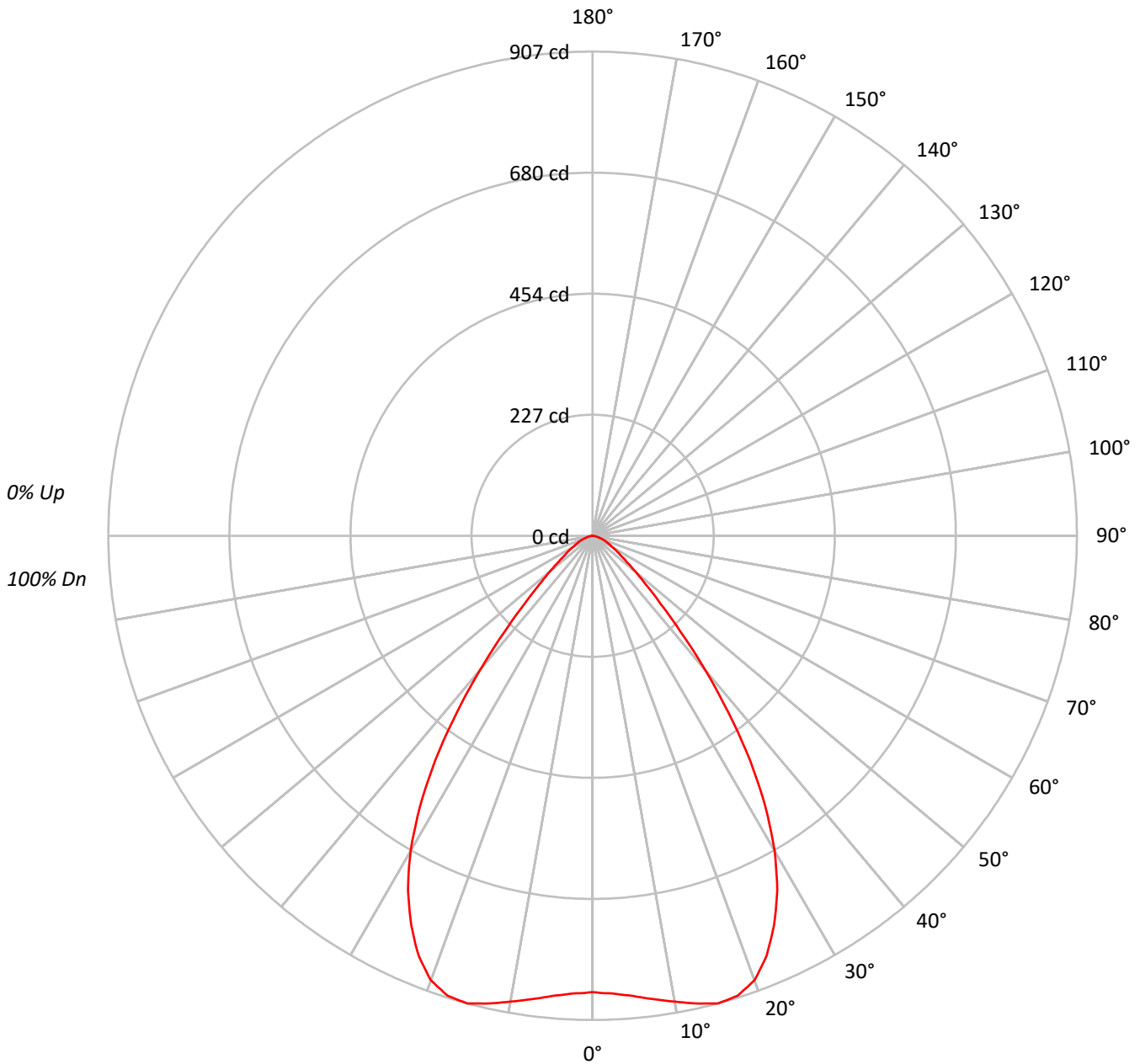
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641558

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694WB - 900LM - 3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P641558

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694WB - 900LM - 3500K

**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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	52	47	43	42			

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

	0°
0°	46871
5°	47617
10°	49326
15°	51465
20°	51694
25°	48650
30°	43178
35°	34392
40°	23415
45°	13939
50°	8946
55°	6165
60°	4802
65°	3891
70°	3142
75°	2436
80°	1452
85°	755

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13939 cd/sqm



TEST NUMBER: P641558

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694WB - 900LM - 3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.3	6.5
10°-20°	254.8	20.0
20°-30°	366.2	28.8
30°-40°	315.9	24.8
40°-50°	147.7	11.6
50°-60°	60.6	4.8
60°-70°	30.3	2.4
70°-80°	12.3	1.0
80°-90°	1.6	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°	704.3	55.3
0°-40°	1020.2	80.2
0°-60°	1228.5	96.5
0°-90°	1272.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1272.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	855	
5°	865	83
15°	907	255
25°	804	366
35°	514	316
45°	180	148
55°	64	61
65°	30	30
75°	12	12
85°	1	2
90°	0	



TEST NUMBER: P641558

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694WB - 900LM - 3500K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	855.0
2.5°	858.4
5°	865.3
7.5°	875.7
10°	886.1
12.5°	897.6
15°	906.8
17.5°	903.4
20°	886.1
22.5°	851.5
25°	804.3
27.5°	749.0
30°	682.1
32.5°	602.6
35°	513.9
37.5°	418.3
40°	327.2
42.5°	244.3
45°	179.8
47.5°	134.8
50°	104.9
52.5°	80.7
55°	64.5
57.5°	53.0
60°	43.8
62.5°	35.7
65°	30.0
67.5°	25.3
70°	19.6
72.5°	15.0
75°	11.5
77.5°	8.1
80°	4.6
82.5°	2.3
85°	1.2
87.5°	0.0
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)