

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: P641560

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641560  
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 - 5000K  
Description: ML56 RR, 75D TIR 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: 1369.8 lumens  
Efficiency: N/A  
Efficacy: 103.0 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

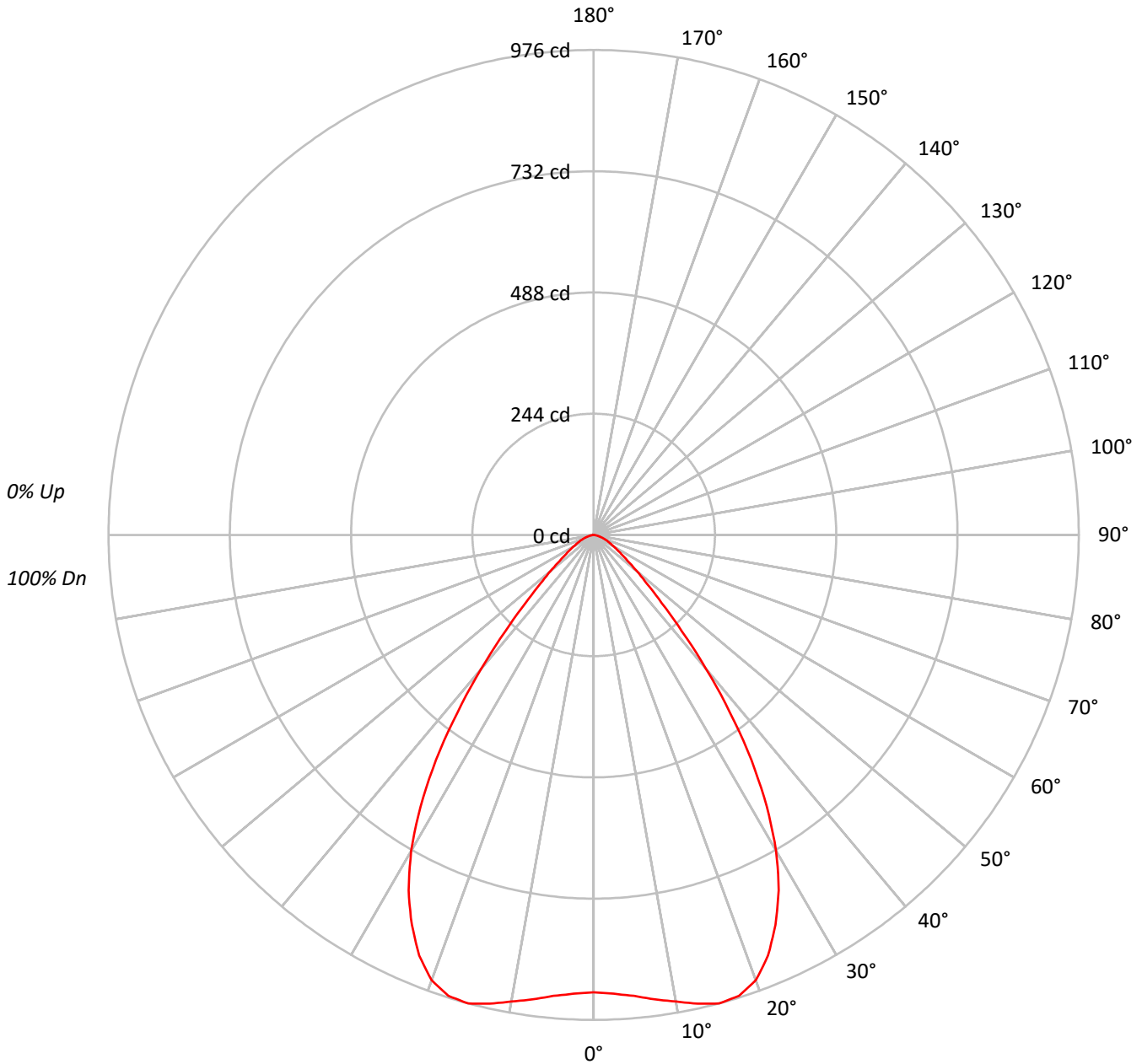
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641560

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694WB - 900LM - 5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641560

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694WB - 900LM - 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	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°	50451
5°	51255
10°	53089
15°	55398
20°	55637
25°	52364
30°	46476
35°	37015
40°	25204
45°	15002
50°	9629
55°	6643
60°	5164
65°	4177
70°	3382
75°	2626
80°	1578
85°	755

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15002 cd/sqm



TEST NUMBER: P641560

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694WB - 900LM - 5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.7	6.5
10°-20°	274.2	20.0
20°-30°	394.2	28.8
30°-40°	340.0	24.8
40°-50°	159.0	11.6
50°-60°	65.3	4.8
60°-70°	32.6	2.4
70°-80°	13.2	1.0
80°-90°	1.7	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°	758.1	55.3
0°-40°	1098.1	80.2
0°-60°	1322.3	96.5
0°-90°	1369.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1369.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	920	
5°	931	90
15°	976	274
25°	866	394
35°	553	340
45°	194	159
55°	70	65
65°	32	33
75°	12	13
85°	1	2
90°	0	



TEST NUMBER: P641560

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694WB - 900LM - 5000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	920.3
2.5°	924.0
5°	931.4
7.5°	942.6
10°	953.7
12.5°	966.2
15°	976.1
17.5°	972.4
20°	953.7
22.5°	916.5
25°	865.7
27.5°	806.2
30°	734.2
32.5°	648.6
35°	553.1
37.5°	450.2
40°	352.2
42.5°	262.9
45°	193.5
47.5°	145.1
50°	112.9
52.5°	86.8
55°	69.5
57.5°	57.1
60°	47.1
62.5°	38.4
65°	32.2
67.5°	27.3
70°	21.1
72.5°	16.1
75°	12.4
77.5°	8.7
80°	5.0
82.5°	2.5
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)