

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: P641361

Luminaire Tested: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-79)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1196.8 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

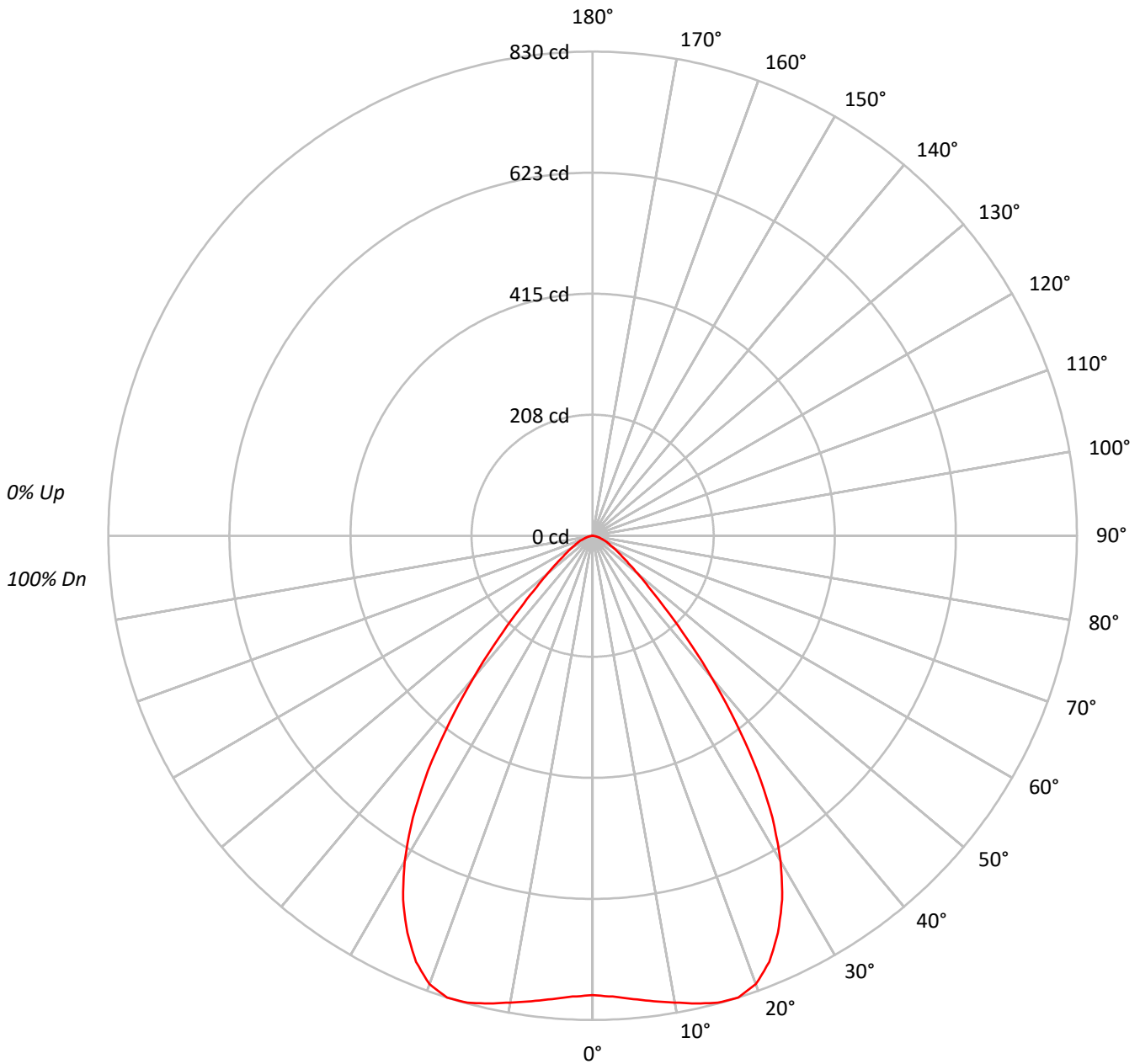
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641361

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P641361

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 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	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	84	83																			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75																			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68																			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62																			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57																			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52																			
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48																			
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

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

	0°
0°	62158
5°	63172
10°	65129
15°	67734
20°	68709
25°	65448
30°	58748
35°	47404
40°	32708
45°	19481
50°	12318
55°	8409
60°	6536
65°	5305
70°	4270
75°	3325
80°	2000
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19481 cd/sqm



TEST NUMBER: P641361

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	6.4
10°-20°	233.7	19.5
20°-30°	342.1	28.6
30°-40°	302.0	25.2
40°-50°	143.3	12.0
50°-60°	57.7	4.8
60°-70°	28.7	2.4
70°-80°	11.6	1.0
80°-90°	1.2	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°	652.3	54.5
0°-40°	954.3	79.7
0°-60°	1155.3	96.5
0°-90°	1196.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1196.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	787	
5°	797	77
15°	829	234
25°	751	342
35°	492	302
45°	174	143
55°	61	58
65°	28	29
75°	11	12
85°	0	1
90°	0	



TEST NUMBER: P641361

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	787.4
2.5°	790.7
5°	797.2
7.5°	804.9
10°	812.5
12.5°	821.2
15°	828.8
17.5°	829.9
20°	817.9
22.5°	790.7
25°	751.4
27.5°	703.4
30°	644.5
32.5°	573.6
35°	491.9
37.5°	402.4
40°	317.4
42.5°	238.8
45°	174.5
47.5°	129.8
50°	100.3
52.5°	77.4
55°	61.1
57.5°	50.2
60°	41.4
62.5°	33.8
65°	28.4
67.5°	24.0
70°	18.5
72.5°	14.2
75°	10.9
77.5°	7.6
80°	4.4
82.5°	2.2
85°	0.0
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)