

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: P641401

Luminaire Tested: ML5612LSVWFL7597FS1E - 596WB - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641401  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-81)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 596WB - 600LM - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 931.3 lumens  
Efficiency: N/A  
Efficacy: 90.4 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.1  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

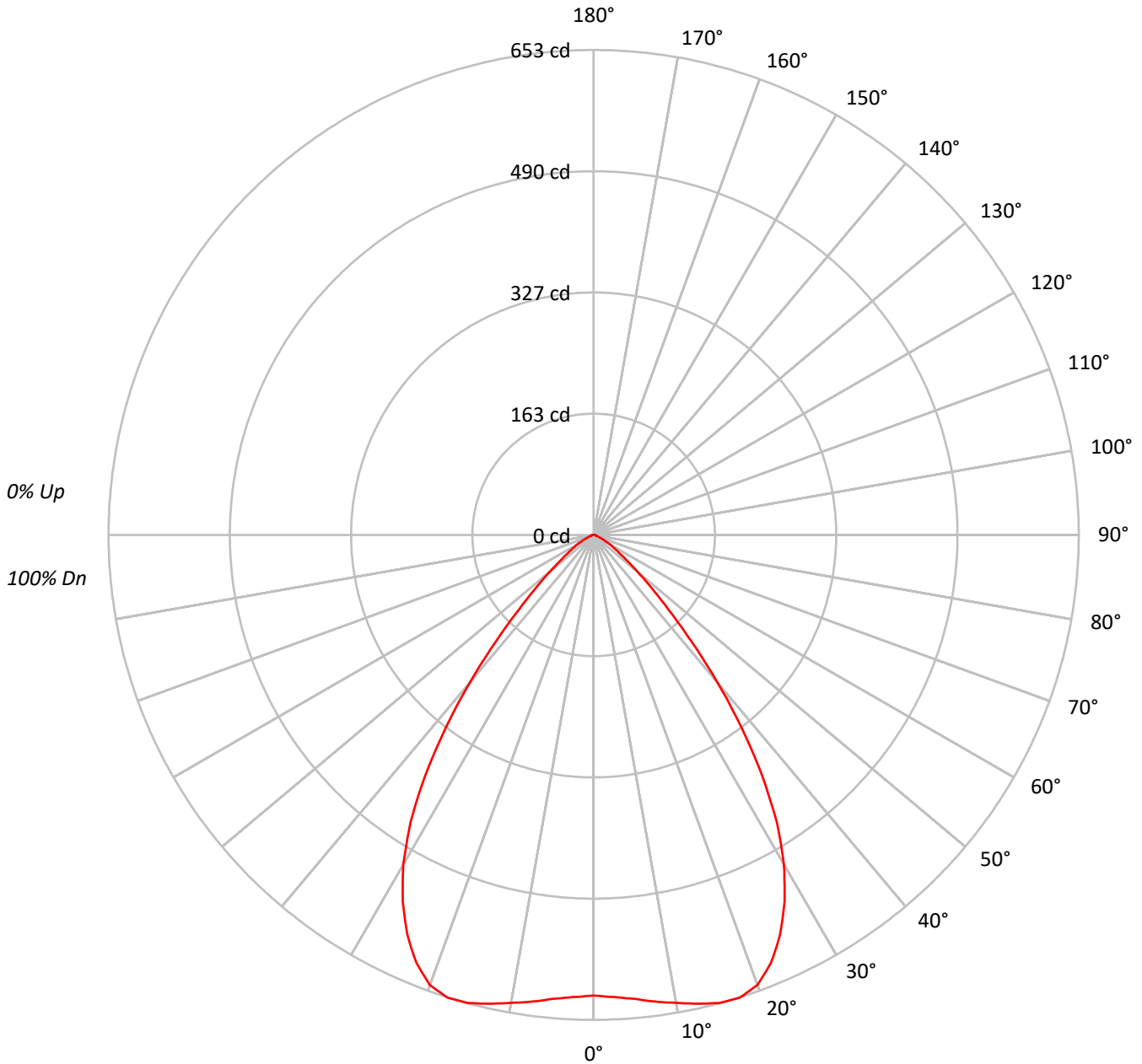
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641401

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 600LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P641401

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 600LM - 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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																			
2	106	101	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	77	73	80	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	65	60	69	64	60	67	63	59	58																			
7	78	67	61	56	76	67	60	56	65	60	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	59	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°	48959
5°	49685
10°	51286
15°	53326
20°	54176
25°	51721
30°	46689
35°	38047
40°	26649
45°	15864
50°	9407
55°	5739
60°	3900
65°	2223
70°	1177
75°	1037
80°	1182
85°	815

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15864 cd/sqm



TEST NUMBER: P641401

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 600LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.3	6.5
10°-20°	184.0	19.8
20°-30°	270.4	29.0
30°-40°	242.7	26.1
40°-50°	116.0	12.5
50°-60°	39.9	4.3
60°-70°	12.9	1.4
70°-80°	3.7	0.4
80°-90°	1.3	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°	514.7	55.3
0°-40°	757.4	81.3
0°-60°	913.4	98.1
0°-90°	931.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	931.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	620	
5°	627	60
15°	652	184
25°	594	270
35°	395	243
45°	142	116
55°	42	40
65°	12	13
75°	3	4
85°	1	1
90°	0	



TEST NUMBER: P641401

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 600LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	620.2
2.5°	622.8
5°	627.0
7.5°	633.8
10°	639.8
12.5°	646.6
15°	652.5
17.5°	653.4
20°	644.9
22.5°	623.6
25°	593.8
27.5°	556.4
30°	512.2
32.5°	458.6
35°	394.8
37.5°	326.7
40°	258.6
42.5°	194.8
45°	142.1
47.5°	104.6
50°	76.6
52.5°	55.3
55°	41.7
57.5°	32.3
60°	24.7
62.5°	17.9
65°	11.9
67.5°	7.7
70°	5.1
72.5°	4.3
75°	3.4
77.5°	2.6
80°	2.6
82.5°	1.7
85°	0.9
87.5°	0.9
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)