

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: P641742

Luminaire Tested: ML5612LSVWFL97FS1E - 596WB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641742  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-104)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 596WB - 1200LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

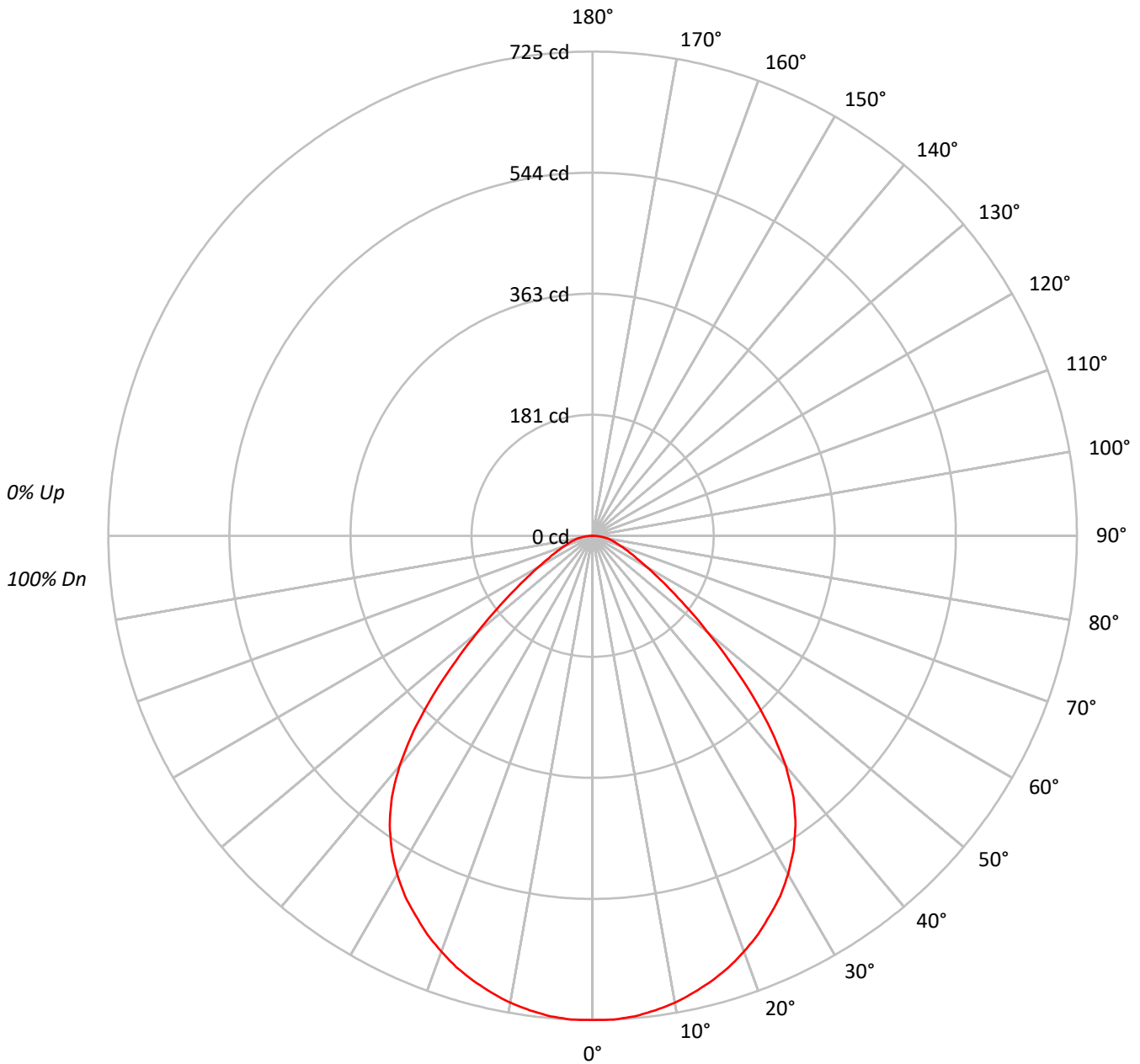
Lumens per Lamp: N/A  
Luminaire Lumens: 1382.9 lumens  
Efficiency: N/A  
Efficacy: 83.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.24  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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: P641742

CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 1200LM - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641742

CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 1200LM - 3000K

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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				100
1	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89				89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78				78
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69				69
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61				61
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54				54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49				49
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44				44
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40				40
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

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

	0°
0°	57240
5°	57237
10°	56921
15°	56374
20°	55663
25°	54639
30°	53343
35°	51027
40°	46311
45°	37745
50°	27681
55°	19805
60°	14794
65°	11917
70°	10340
75°	9943
80°	9865
85°	8605

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 37745 cd/sqm



TEST NUMBER: P641742

CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 1200LM - 3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.5	5.0
10°-20°	194.5	14.1
20°-30°	288.9	20.9
30°-40°	328.2	23.7
40°-50°	259.0	18.7
50°-60°	133.3	9.6
60°-70°	64.7	4.7
70°-80°	34.6	2.5
80°-90°	11.1	0.8
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°	552.0	39.9
0°-40°	880.2	63.6
0°-60°	1272.5	92.0
0°-90°	1382.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1382.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	725	
5°	722	69
15°	690	195
25°	627	289
35°	530	328
45°	338	259
55°	144	133
65°	64	65
75°	33	35
85°	10	11
90°	0	



TEST NUMBER: P641742

CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 1200LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	725.1
2.5°	725.1
5°	722.3
7.5°	716.9
10°	710.1
12.5°	700.6
15°	689.8
17.5°	677.5
20°	662.6
22.5°	646.3
25°	627.3
27.5°	608.3
30°	585.2
32.5°	559.4
35°	529.5
37.5°	494.2
40°	449.4
42.5°	396.5
45°	338.1
47.5°	278.3
50°	225.4
52.5°	180.6
55°	143.9
57.5°	115.4
60°	93.7
62.5°	76.0
65°	63.8
67.5°	53.0
70°	44.8
72.5°	38.0
75°	32.6
77.5°	27.2
80°	21.7
82.5°	16.3
85°	9.5
87.5°	4.1
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)