

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: P641752

Luminaire Tested: ML5612LSVWFL97FS1E - 596WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641752
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 - 900LM - 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: 1142.4 lumens
Efficiency: N/A
Efficacy: 85.9 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

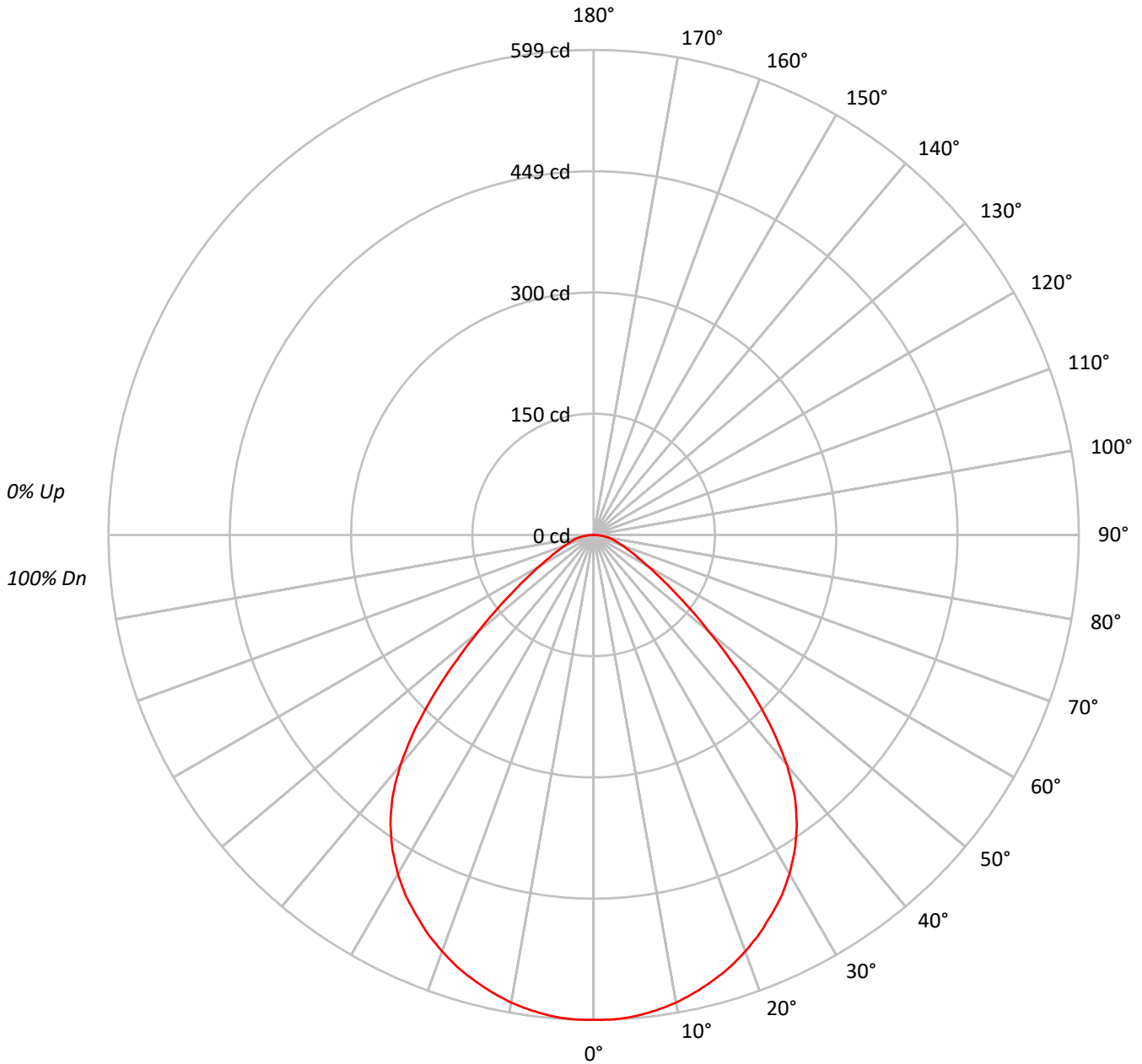
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641752

CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 900LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641752
 CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 900LM - 3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	47278
5°	47284
10°	47021
15°	46567
20°	45986
25°	45136
30°	44063
35°	42152
40°	38262
45°	31181
50°	22867
55°	16364
60°	12220
65°	9844
70°	8540
75°	8205
80°	8137
85°	7155

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31181 cd/sqm



TEST NUMBER: P641752

CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 900LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	5.0
10°-20°	160.7	14.1
20°-30°	238.7	20.9
30°-40°	271.2	23.7
40°-50°	214.0	18.7
50°-60°	110.1	9.6
60°-70°	53.4	4.7
70°-80°	28.5	2.5
80°-90°	9.2	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°	456.0	39.9
0°-40°	727.1	63.6
0°-60°	1051.2	92.0
0°-90°	1142.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1142.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	599	
5°	597	57
15°	570	161
25°	518	239
35°	437	271
45°	279	214
55°	119	110
65°	53	53
75°	27	29
85°	8	9
90°	0	



TEST NUMBER: P641752

CATALOG NUMBER: ML5612LSVWFL97FS1E - 596WB - 900LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	598.9
2.5°	598.9
5°	596.7
7.5°	592.2
10°	586.6
12.5°	578.8
15°	569.8
17.5°	559.7
20°	547.4
22.5°	533.9
25°	518.2
27.5°	502.5
30°	483.4
32.5°	462.1
35°	437.4
37.5°	408.3
40°	371.3
42.5°	327.5
45°	279.3
47.5°	229.9
50°	186.2
52.5°	149.2
55°	118.9
57.5°	95.3
60°	77.4
62.5°	62.8
65°	52.7
67.5°	43.7
70°	37.0
72.5°	31.4
75°	26.9
77.5°	22.4
80°	17.9
82.5°	13.5
85°	7.9
87.5°	3.4
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)