

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: P641579

Luminaire Tested: ML5612LSVWFL97FS1E - 591WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 591WB - 1200LM - 4000K
Description: ML56 RR, MILKY OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1532.9 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

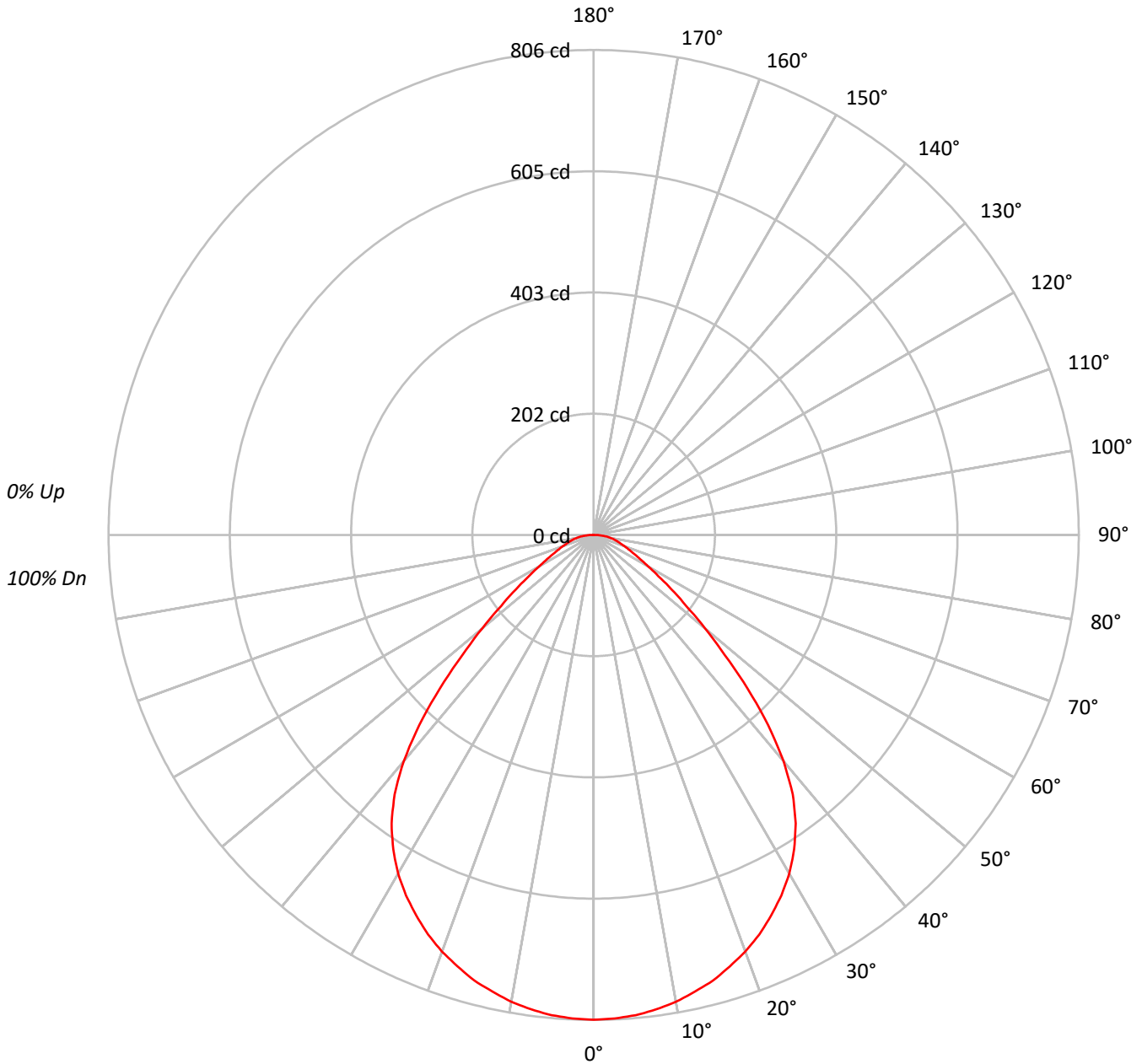
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641579

CATALOG NUMBER: ML5612LSVWFL97FS1E - 591WB - 1200LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641579

CATALOG NUMBER: ML5612LSVWFL97FS1E - 591WB - 1200LM - 4000K

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	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	81	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40																			
9	63	51	44	39	62	50	43	38	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°	63611
5°	63497
10°	63149
15°	62667
20°	61896
25°	60780
30°	59231
35°	56405
40°	50567
45°	40380
50°	29671
55°	21690
60°	16578
65°	13729
70°	12464
75°	12353
80°	12956
85°	13586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 40380 cd/sqm



TEST NUMBER: P641579

CATALOG NUMBER: ML5612LSVWFL97FS1E - 591WB - 1200LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	5.0
10°-20°	216.0	14.1
20°-30°	321.1	20.9
30°-40°	362.2	23.6
40°-50°	278.5	18.2
50°-60°	145.1	9.5
60°-70°	74.9	4.9
70°-80°	42.9	2.8
80°-90°	16.1	1.1
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°	613.1	40.0
0°-40°	975.4	63.6
0°-60°	1399.0	91.3
0°-90°	1532.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1532.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	806	
5°	801	76
15°	767	216
25°	698	321
35°	585	362
45°	362	279
55°	158	145
65°	74	75
75°	40	43
85°	15	16
90°	0	



TEST NUMBER: P641579

CATALOG NUMBER: ML5612LSVWFL97FS1E - 591WB - 1200LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	805.8
2.5°	804.3
5°	801.3
7.5°	795.3
10°	787.8
12.5°	777.3
15°	766.8
17.5°	751.8
20°	736.8
22.5°	718.8
25°	697.8
27.5°	675.3
30°	649.8
32.5°	619.8
35°	585.3
37.5°	543.2
40°	490.7
42.5°	429.2
45°	361.7
47.5°	295.6
50°	241.6
52.5°	193.6
55°	157.6
57.5°	127.6
60°	105.0
62.5°	87.0
65°	73.5
67.5°	63.0
70°	54.0
72.5°	46.5
75°	40.5
77.5°	34.5
80°	28.5
82.5°	22.5
85°	15.0
87.5°	7.5
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)