

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: P641767

Luminaire Tested: ML5612LSVWFL97FS1E - 691WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641767
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-105)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 691WB - 900LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

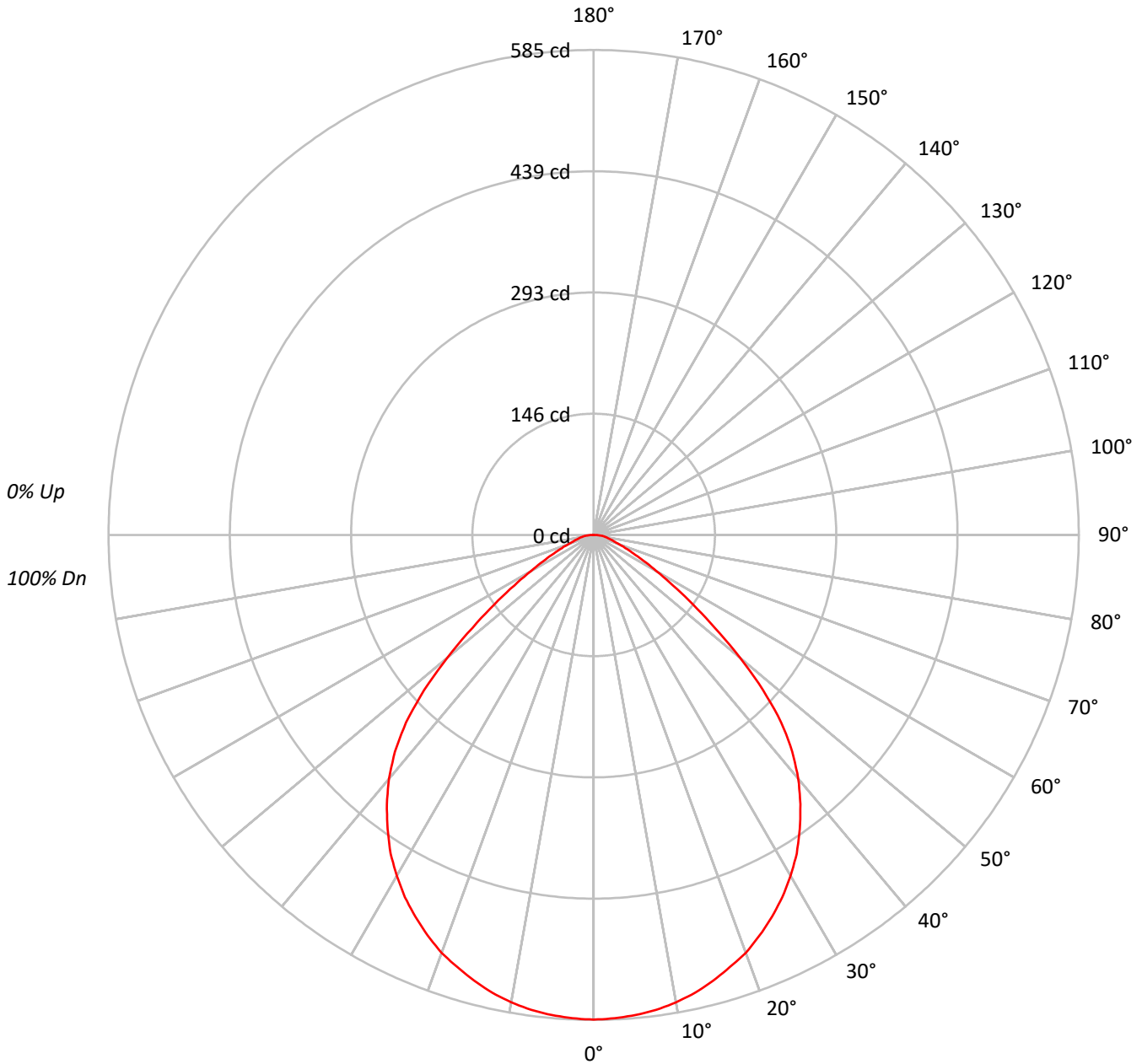
Lumens per Lamp: N/A
Luminaire Lumens: 1179.4 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P641767
CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 900LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641767

CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 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	108	105	102	99	101	98	96	97	95	93	94	92	90	89																			
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53																			
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48																			
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32053
5°	31994
10°	31863
15°	31595
20°	31299
25°	30752
30°	30049
35°	28991
40°	27466
45°	24801
50°	19624
55°	13945
60°	9594
65°	6836
70°	5209
75°	4512
80°	4609
85°	4969

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24801 cd/sqm



TEST NUMBER: P641767

CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 900LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	4.7
10°-20°	157.0	13.3
20°-30°	234.0	19.8
30°-40°	270.2	22.9
40°-50°	242.1	20.5
50°-60°	133.8	11.3
60°-70°	54.9	4.7
70°-80°	23.4	2.0
80°-90°	8.7	0.7
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°	446.3	37.8
0°-40°	716.5	60.8
0°-60°	1092.4	92.6
0°-90°	1179.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	585	
5°	581	55
15°	557	157
25°	508	234
35°	433	270
45°	320	242
55°	146	134
65°	53	55
75°	21	23
85°	8	9
90°	0	



TEST NUMBER: P641767

CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 900LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	584.7
2.5°	583.6
5°	581.4
7.5°	578.0
10°	572.4
12.5°	565.6
15°	556.7
17.5°	546.6
20°	536.5
22.5°	523.0
25°	508.4
27.5°	492.7
30°	474.7
32.5°	455.7
35°	433.2
37.5°	409.6
40°	383.8
42.5°	354.6
45°	319.9
47.5°	277.2
50°	230.1
52.5°	184.1
55°	145.9
57.5°	113.4
60°	87.5
62.5°	68.5
65°	52.7
67.5°	41.5
70°	32.5
72.5°	25.8
75°	21.3
77.5°	18.0
80°	14.6
82.5°	12.3
85°	7.9
87.5°	4.5
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)