

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: P641904

Luminaire Tested: ML5612LSVWFL97FS1E - 694WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-113)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 694WB - 900LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1347.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

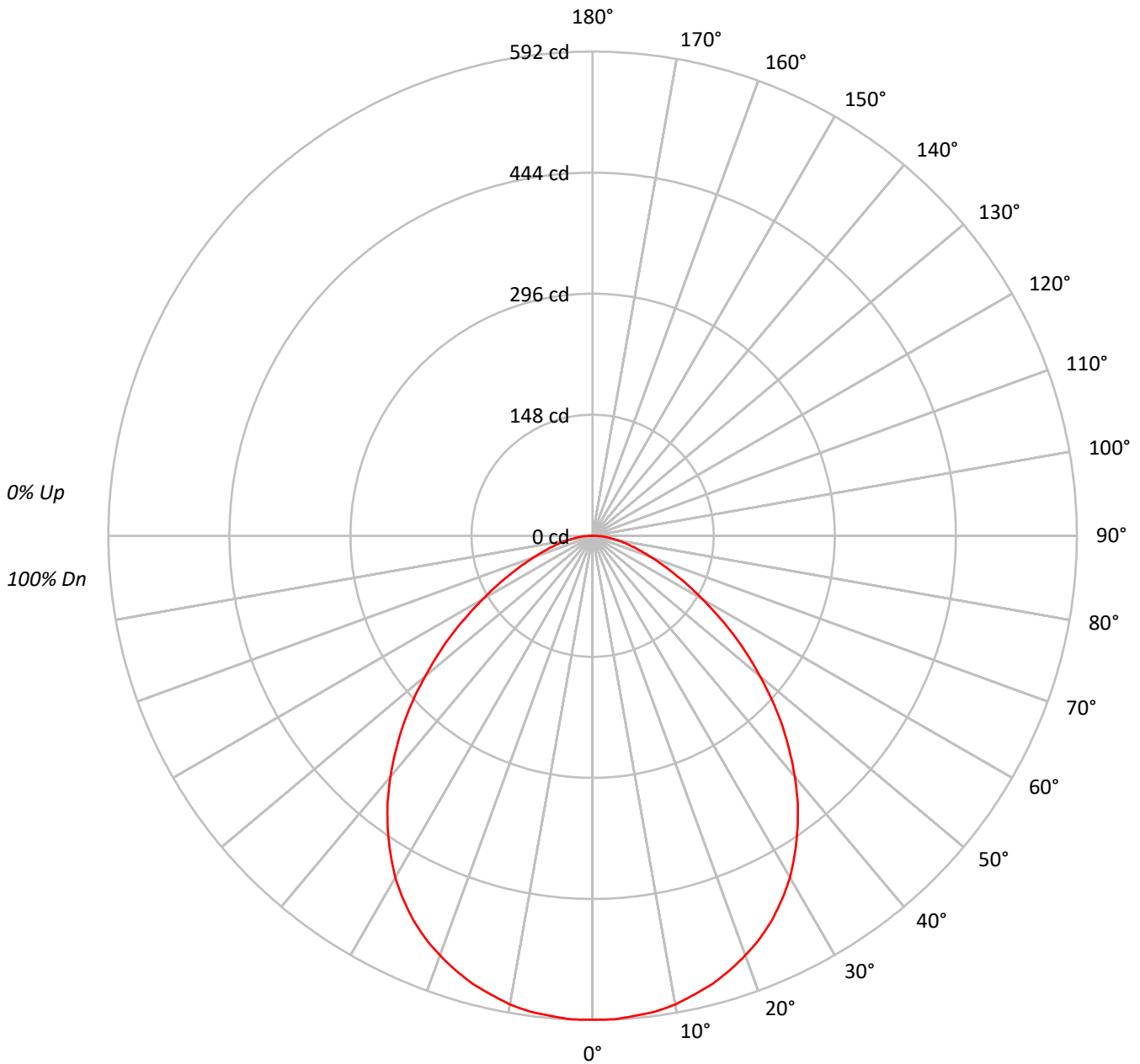
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641904

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694WB - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641904

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694WB - 900LM - 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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74																			
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64																			
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43																			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32																			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	32443
5°	32429
10°	32392
15°	32180
20°	31847
25°	31369
30°	30549
35°	29225
40°	27523
45°	25398
50°	22754
55°	20042
60°	17005
65°	14321
70°	12133
75°	10506
80°	9408
85°	9372

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25398 cd/sqm



TEST NUMBER: P641904

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694WB - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	4.2
10°-20°	159.8	11.9
20°-30°	238.4	17.7
30°-40°	272.5	20.2
40°-50°	251.8	18.7
50°-60°	187.4	13.9
60°-70°	110.9	8.2
70°-80°	53.8	4.0
80°-90°	16.2	1.2
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°	454.3	33.7
0°-40°	726.7	54.0
0°-60°	1166.0	86.6
0°-90°	1347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1347.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	592	
5°	589	56
15°	567	160
25°	519	238
35°	437	272
45°	328	252
55°	210	187
65°	110	111
75°	50	54
85°	15	16
90°	0	



TEST NUMBER: P641904

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694WB - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	591.8
2.5°	591.8
5°	589.3
7.5°	586.9
10°	581.9
12.5°	574.5
15°	567.0
17.5°	557.1
20°	545.9
22.5°	533.5
25°	518.6
27.5°	501.3
30°	482.6
32.5°	460.3
35°	436.7
37.5°	411.9
40°	384.6
42.5°	356.1
45°	327.6
47.5°	297.8
50°	266.8
52.5°	238.2
55°	209.7
57.5°	181.1
60°	155.1
62.5°	131.5
65°	110.4
67.5°	91.8
70°	75.7
72.5°	62.0
75°	49.6
77.5°	39.7
80°	29.8
82.5°	21.1
85°	14.9
87.5°	8.7
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)