

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: P641813

Luminaire Tested: ML5612LSVWFL97FS1E - 692W - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641813
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-108)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 692W - 900LM - 3500K
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

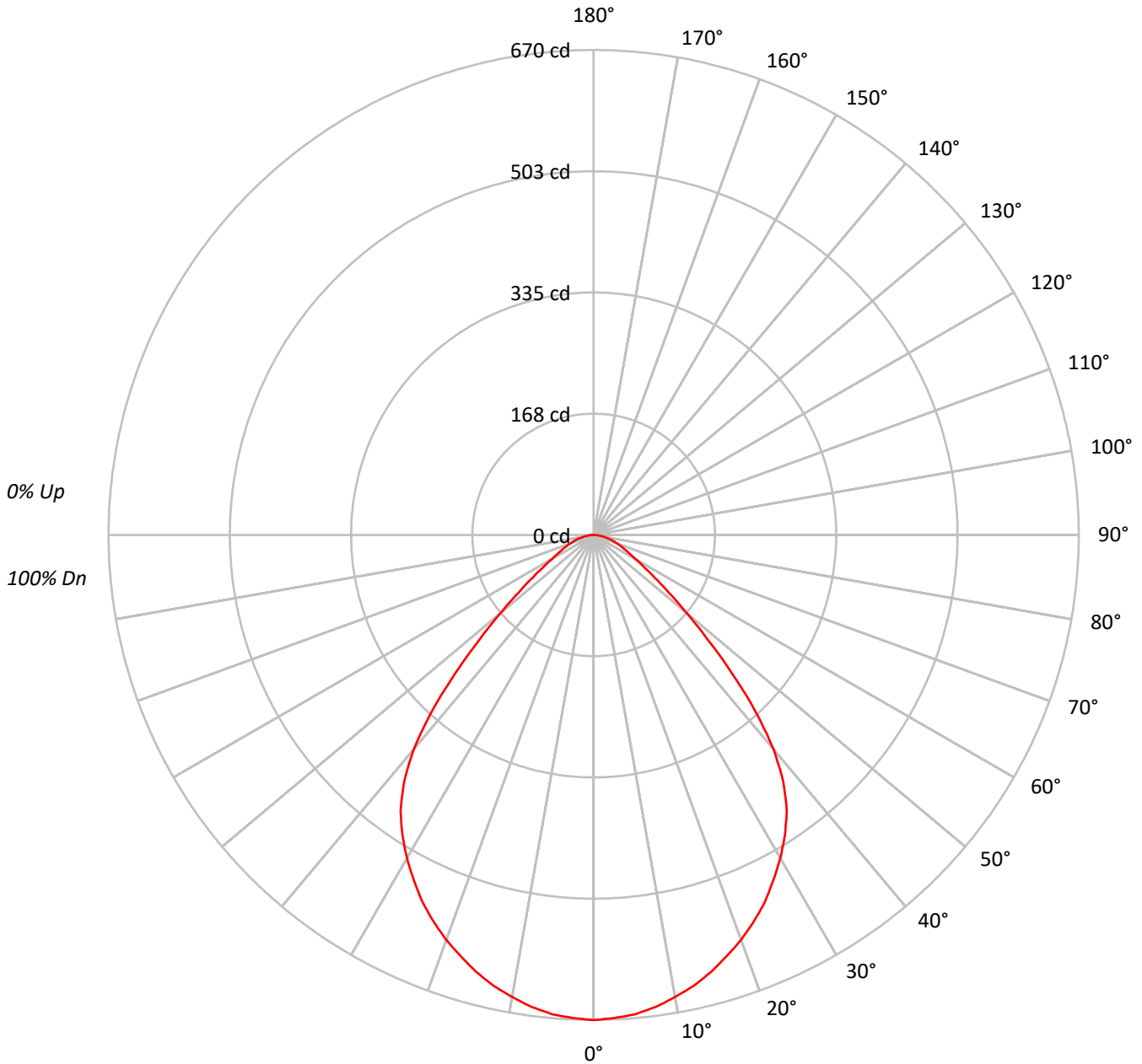
Lumens per Lamp: N/A
Luminaire Lumens: 1167.7 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P641813
CATALOG NUMBER: ML5612LSVWFL97FS1E - 692W - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641813

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692W - 900LM - 3500K

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	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																			
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	47	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	52	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36746
5°	36567
10°	36088
15°	35488
20°	34729
25°	33843
30°	32644
35°	31113
40°	27659
45°	20925
50°	14268
55°	9816
60°	7335
65°	6136
70°	5546
75°	5126
80°	4357
85°	3648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20925 cd/sqm



TEST NUMBER: P641813

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692W - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	5.4
10°-20°	176.1	15.1
20°-30°	257.0	22.0
30°-40°	287.1	24.6
40°-50°	208.9	17.9
50°-60°	96.1	8.2
60°-70°	47.9	4.1
70°-80°	25.2	2.2
80°-90°	6.6	0.6
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°	496.0	42.5
0°-40°	783.1	67.1
0°-60°	1088.0	93.2
0°-90°	1167.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	670	
5°	664	63
15°	625	176
25°	560	257
35°	465	287
45°	270	209
55°	103	96
65°	47	48
75°	24	25
85°	6	7
90°	0	



TEST NUMBER: P641813

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692W - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	670.3
2.5°	667.9
5°	664.5
7.5°	657.6
10°	648.3
12.5°	638.0
15°	625.3
17.5°	610.3
20°	595.3
22.5°	578.0
25°	559.5
27.5°	537.6
30°	515.7
32.5°	491.4
35°	464.9
37.5°	430.3
40°	386.5
42.5°	331.1
45°	269.9
47.5°	213.4
50°	167.3
52.5°	130.4
55°	102.7
57.5°	81.9
60°	66.9
62.5°	55.4
65°	47.3
67.5°	40.4
70°	34.6
72.5°	28.8
75°	24.2
77.5°	18.5
80°	13.8
82.5°	9.2
85°	5.8
87.5°	2.3
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)