

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: P641841

Luminaire Tested: ML5612LSVWFL97FS1E - 693SNB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-111)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 693SNB - 900LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

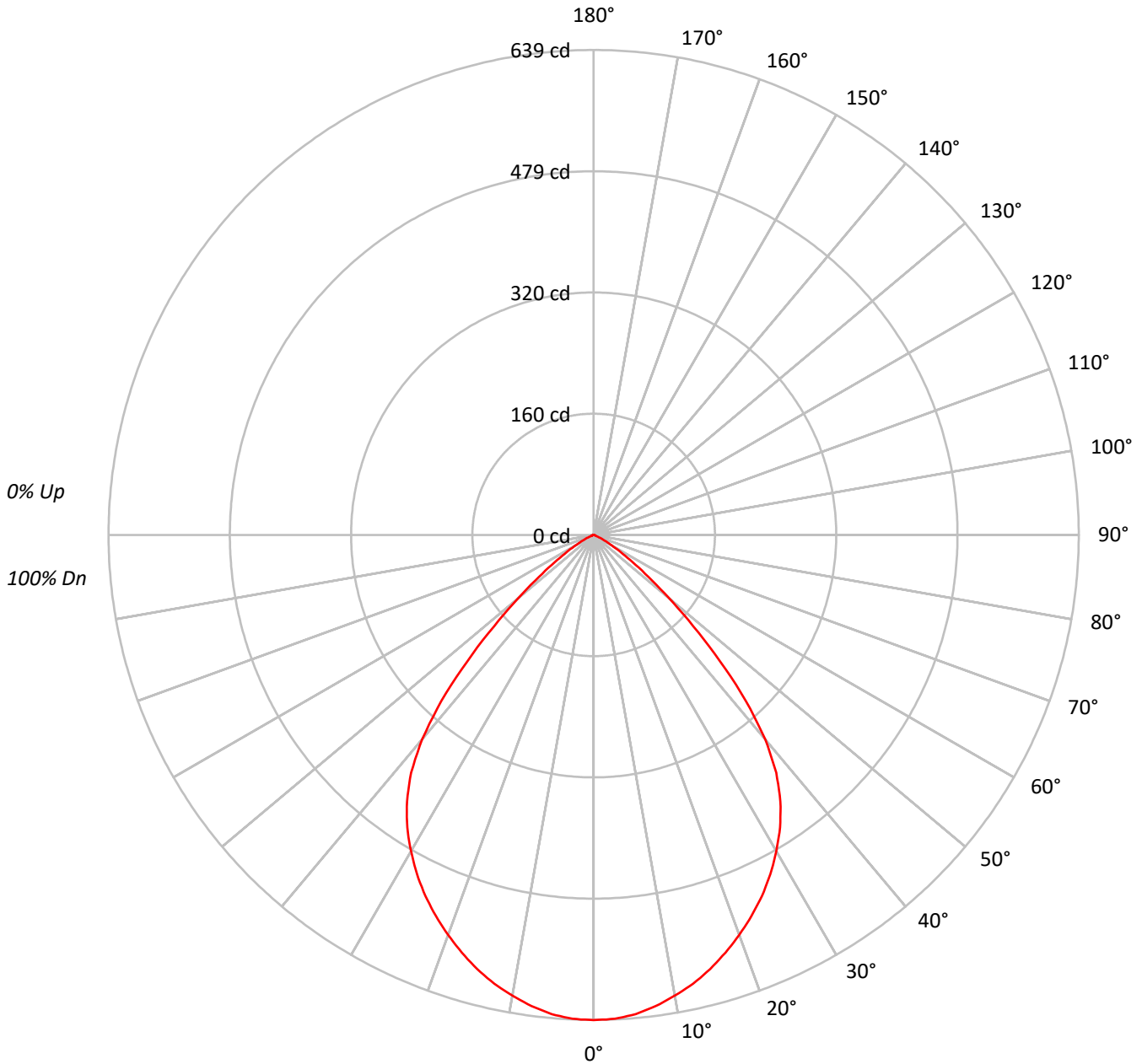
Lumens per Lamp: N/A
Luminaire Lumens: 987.6 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.13 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P641841
CATALOG NUMBER: ML5612LSVWFL97FS1E - 693SNB - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641841

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693SNB - 900LM - 2700K

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91																			
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82																			
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74																			
4	92	83	77	72	90	82	76	71	80	75	70	78	73	69	76	72	69	67																			
5	86	76	69	64	85	75	69	64	73	68	63	72	67	63	70	66	62	60																			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55																			
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50																			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	47	56	51	47	46																			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42																			
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35047
5°	34883
10°	34312
15°	33621
20°	32716
25°	31744
30°	30454
35°	28697
40°	25140
45°	18273
50°	10976
55°	5945
60°	2993
65°	1271
70°	353
75°	233
80°	347
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18273 cd/sqm



TEST NUMBER: P641841

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693SNB - 900LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.9	6.1
10°-20°	166.7	16.9
20°-30°	241.1	24.4
30°-40°	265.0	26.8
40°-50°	181.6	18.4
50°-60°	60.2	6.1
60°-70°	11.1	1.1
70°-80°	1.6	0.2
80°-90°	0.4	0.0
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°	467.8	47.4
0°-40°	732.7	74.2
0°-60°	974.5	98.7
0°-90°	987.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	987.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	639	
5°	634	60
15°	592	167
25°	525	241
35°	429	265
45°	236	182
55°	62	60
65°	10	11
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P641841

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693SNB - 900LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	639.3
2.5°	638.2
5°	633.9
7.5°	626.2
10°	616.4
12.5°	605.5
15°	592.4
17.5°	577.1
20°	560.8
22.5°	543.3
25°	524.8
27.5°	504.0
30°	481.1
32.5°	457.1
35°	428.8
37.5°	394.9
40°	351.3
42.5°	296.8
45°	235.7
47.5°	177.8
50°	128.7
52.5°	90.6
55°	62.2
57.5°	41.5
60°	27.3
62.5°	16.4
65°	9.8
67.5°	4.4
70°	2.2
72.5°	2.2
75°	1.1
77.5°	1.1
80°	1.1
82.5°	1.1
85°	0.0
87.5°	0.0
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)