

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: P641828

Luminaire Tested: ML5612LSVWFL97FS1E - 693BB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-110)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 693BB - 900LM - 3500K
Description: ML56 RR, MILKY OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 893.6 lumens
Efficiency: N/A
Efficacy: 67.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

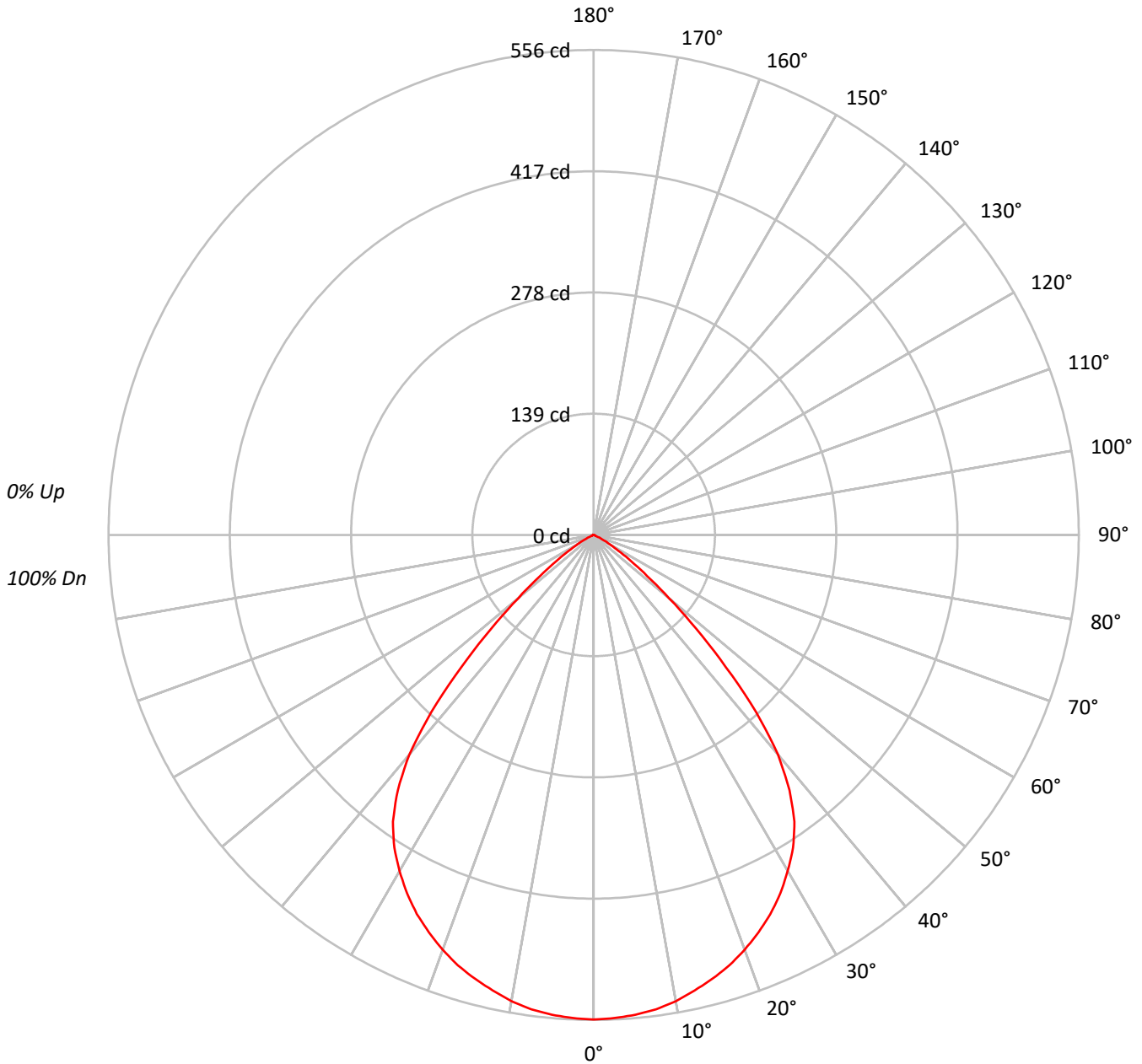
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641828

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693BB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641828

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693BB - 900LM - 3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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			100
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83			83
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74			74
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67			67
5	86	77	70	64	85	76	69	64	74	68	63	72	67	63	70	66	62	61			61
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55			55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50			50
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46			46
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42			42
10	63	52	45	41	62	51	45	40	50	44	40	50	44	40	49	44	40	39			39

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	30458
5°	30382
10°	30221
15°	29892
20°	29519
25°	29004
30°	28163
35°	26843
40°	23508
45°	16622
50°	9637
55°	4960
60°	2270
65°	752
70°	192
75°	254
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16622 cd/sqm



TEST NUMBER: P641828

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693BB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	5.9
10°-20°	148.5	16.6
20°-30°	220.4	24.7
30°-40°	247.0	27.6
40°-50°	166.0	18.6
50°-60°	50.7	5.7
60°-70°	7.5	0.8
70°-80°	1.1	0.1
80°-90°	0.0	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°	421.3	47.1
0°-40°	668.4	74.8
0°-60°	885.1	99.0
0°-90°	893.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	893.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	556	
5°	552	52
15°	527	149
25°	480	220
35°	401	247
45°	214	166
55°	52	51
65°	6	7
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P641828

CATALOG NUMBER: ML5612LSVWFL97FS1E - 693BB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	555.6
2.5°	554.4
5°	552.1
7.5°	548.6
10°	542.9
12.5°	534.8
15°	526.7
17.5°	517.5
20°	506.0
22.5°	493.3
25°	479.5
27.5°	463.3
30°	444.9
32.5°	425.3
35°	401.1
37.5°	368.8
40°	328.5
42.5°	275.5
45°	214.4
47.5°	159.1
50°	113.0
52.5°	77.2
55°	51.9
57.5°	33.4
60°	20.7
62.5°	11.5
65°	5.8
67.5°	2.3
70°	1.2
72.5°	1.2
75°	1.2
77.5°	1.2
80°	0.0
82.5°	0.0
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)