

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: P641652

Luminaire Tested: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

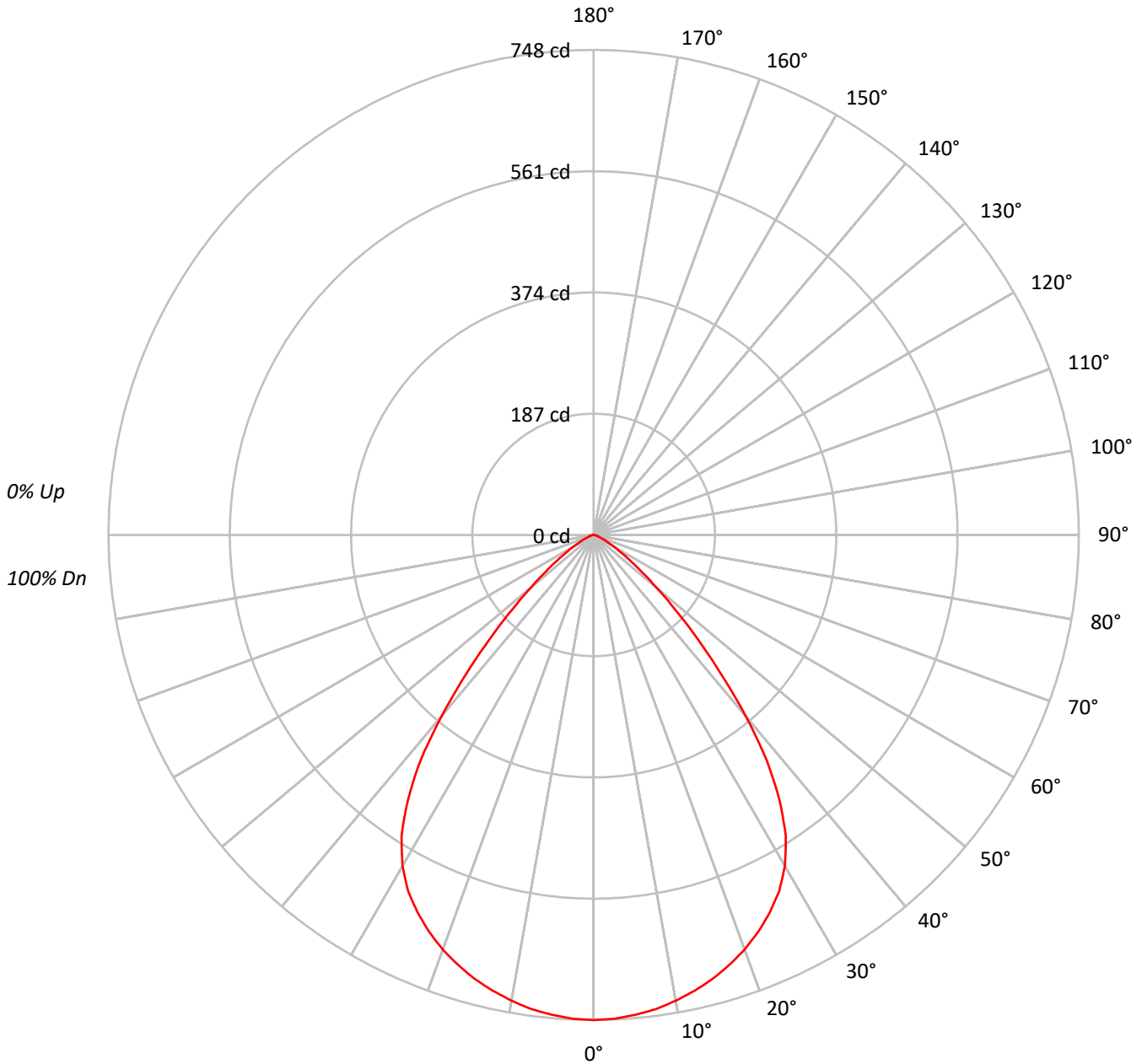
Lumens per Lamp: N/A
Luminaire Lumens: 1139.2 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): 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: P641652
CATALOG NUMBER: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641652

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59079
5°	58869
10°	58468
15°	57943
20°	57167
25°	55954
30°	53735
35°	48165
40°	37510
45°	25175
50°	15511
55°	9345
60°	5573
65°	3306
70°	1870
75°	1647
80°	1227
85°	1268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25175 cd/sqm



TEST NUMBER: P641652

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	6.2
10°-20°	199.8	17.5
20°-30°	295.0	25.9
30°-40°	306.1	26.9
40°-50°	177.7	15.6
50°-60°	64.6	5.7
60°-70°	18.7	1.6
70°-80°	5.7	0.5
80°-90°	1.1	0.1
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°	565.3	49.6
0°-40°	871.4	76.5
0°-60°	1113.7	97.8
0°-90°	1139.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	748	
5°	743	71
15°	709	200
25°	642	295
35°	500	306
45°	226	178
55°	68	65
65°	18	19
75°	5	6
85°	1	1
90°	0	



TEST NUMBER: P641652

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	748.4
2.5°	747.0
5°	742.9
7.5°	737.5
10°	729.4
12.5°	719.9
15°	709.0
17.5°	695.4
20°	680.5
22.5°	662.8
25°	642.4
27.5°	619.3
30°	589.5
32.5°	551.4
35°	499.8
37.5°	438.7
40°	364.0
42.5°	290.7
45°	225.5
47.5°	169.8
50°	126.3
52.5°	93.7
55°	67.9
57.5°	48.9
60°	35.3
62.5°	24.4
65°	17.7
67.5°	12.2
70°	8.1
72.5°	6.8
75°	5.4
77.5°	4.1
80°	2.7
82.5°	1.4
85°	1.4
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)