

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: P641654

Luminaire Tested: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641654
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 - 4000K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

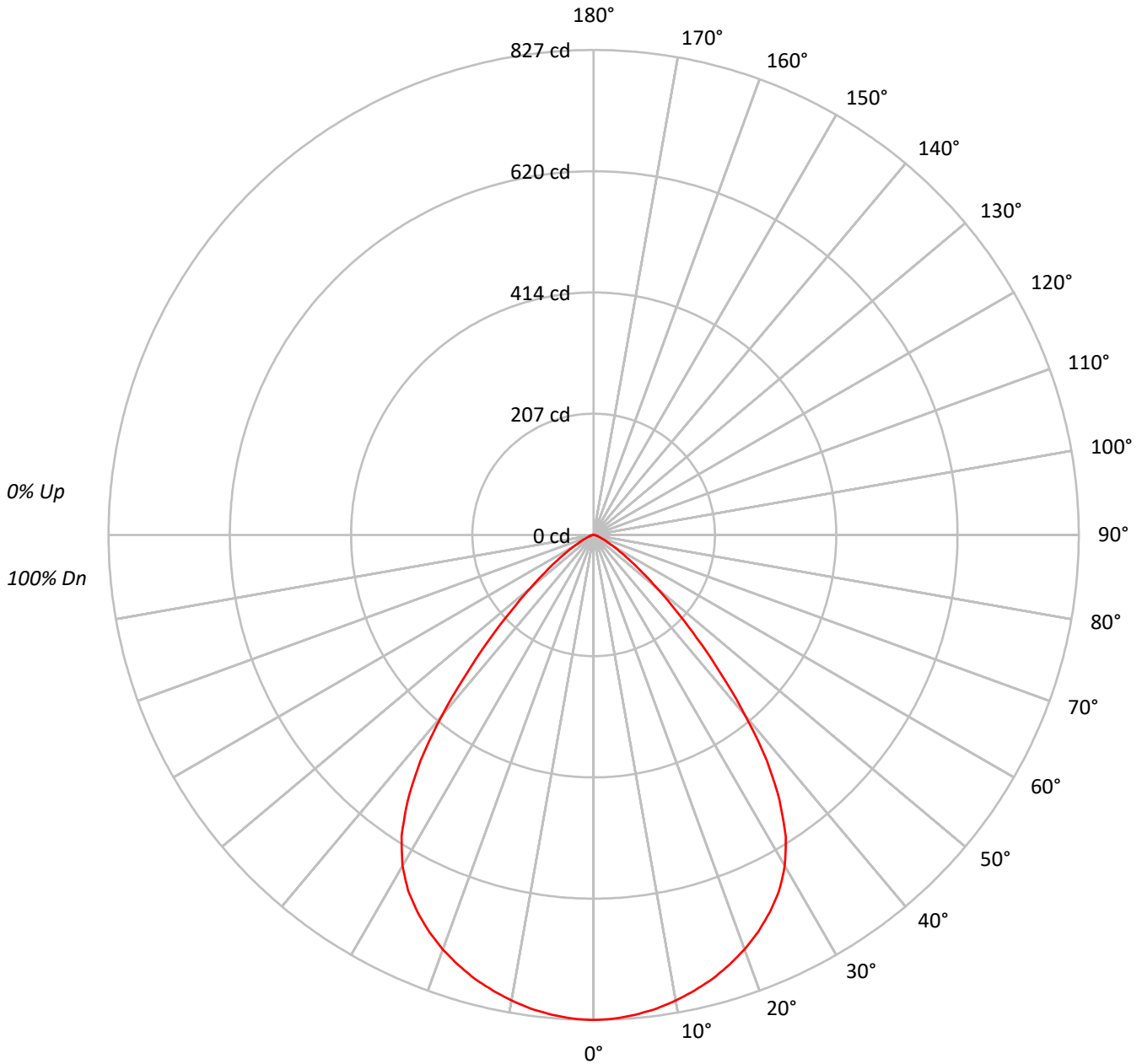
Lumens per Lamp: N/A
Luminaire Lumens: 1259.1 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (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: P641654
CATALOG NUMBER: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641654

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 4000K

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°	65292
5°	65066
10°	64616
15°	64040
20°	63182
25°	61851
30°	59386
35°	53234
40°	41457
45°	27821
50°	17144
55°	10336
60°	6157
65°	3642
70°	2077
75°	1830
80°	1364
85°	1359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27821 cd/sqm



TEST NUMBER: P641654

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	6.2
10°-20°	220.8	17.5
20°-30°	326.0	25.9
30°-40°	338.3	26.9
40°-50°	196.4	15.6
50°-60°	71.4	5.7
60°-70°	20.7	1.6
70°-80°	6.3	0.5
80°-90°	1.2	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°	624.8	49.6
0°-40°	963.1	76.5
0°-60°	1230.9	97.8
0°-90°	1259.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1259.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	827	
5°	821	78
15°	784	221
25°	710	326
35°	552	338
45°	249	196
55°	75	71
65°	20	21
75°	6	6
85°	2	1
90°	0	



TEST NUMBER: P641654

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	827.1
2.5°	825.6
5°	821.1
7.5°	815.1
10°	806.1
12.5°	795.6
15°	783.6
17.5°	768.6
20°	752.1
22.5°	732.6
25°	710.1
27.5°	684.5
30°	651.5
32.5°	609.5
35°	552.4
37.5°	484.9
40°	402.3
42.5°	321.3
45°	249.2
47.5°	187.6
50°	139.6
52.5°	103.6
55°	75.1
57.5°	54.0
60°	39.0
62.5°	27.0
65°	19.5
67.5°	13.5
70°	9.0
72.5°	7.5
75°	6.0
77.5°	4.5
80°	3.0
82.5°	1.5
85°	1.5
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)