

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: P641998

Luminaire Tested: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-53)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1543.4 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

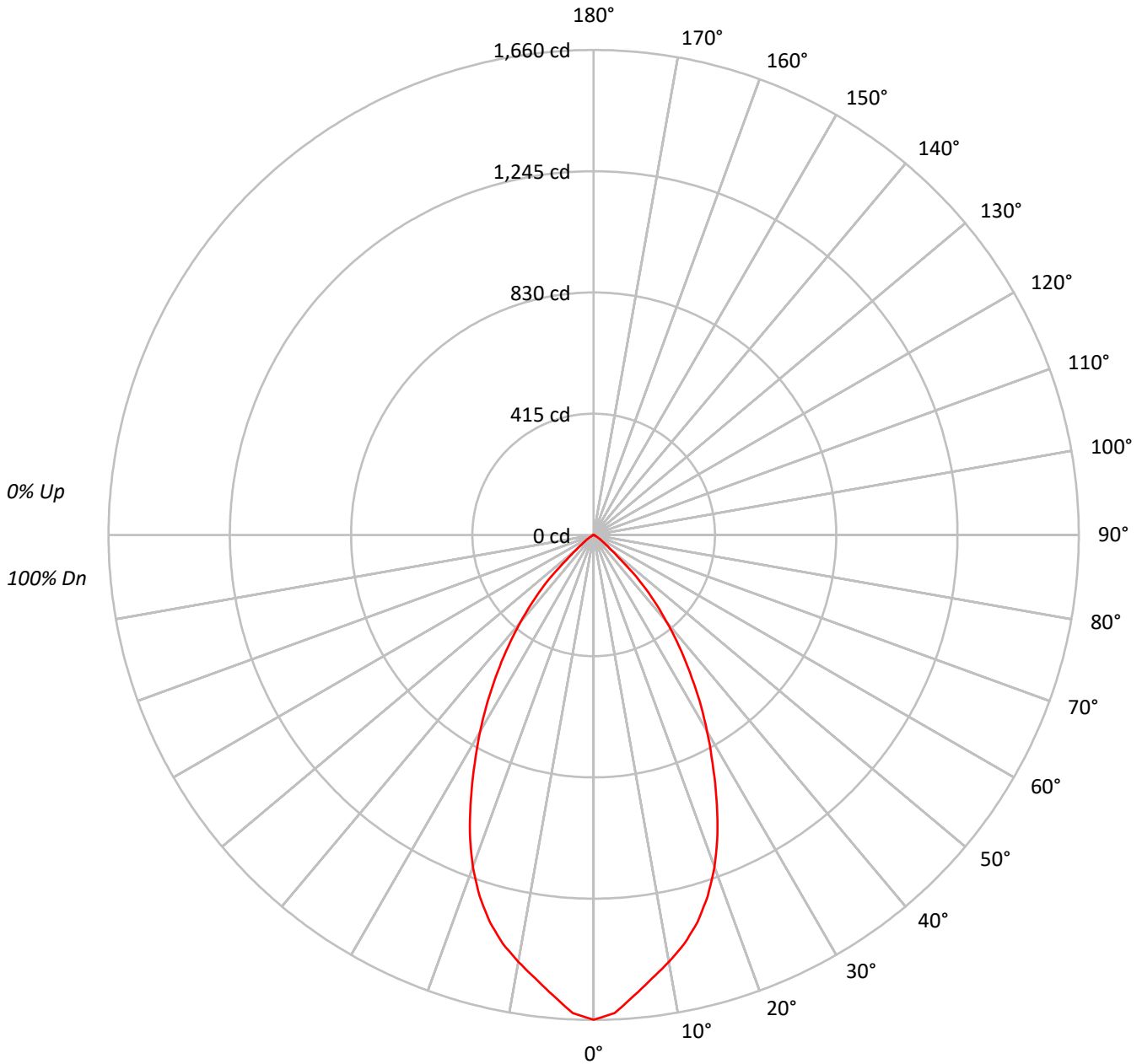
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641998

CATALOG NUMBER: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641998

CATALOG NUMBER: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 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	100	100
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	94	105	101	97	93	97	94	91	94	92	89	91	89	88	86	86	86	86
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68	68	68	68
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63	63	63	63
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58	58	58	58
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54	54	54	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51	51	51	51
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48	48	48	48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	131002
5°	125425
10°	118931
15°	112128
20°	101539
25°	86562
30°	70735
35°	55277
40°	40128
45°	24929
50°	8572
55°	4033
60°	1547
65°	523
70°	323
75°	427
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24929 cd/sqm



TEST NUMBER: P641998

CATALOG NUMBER: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.1	9.6
10°-20°	382.1	24.8
20°-30°	453.9	29.4
30°-40°	357.9	23.2
40°-50°	167.6	10.9
50°-60°	29.1	1.9
60°-70°	3.8	0.2
70°-80°	0.9	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°	984.1	63.8
0°-40°	1341.9	86.9
0°-60°	1538.7	99.7
0°-90°	1543.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1543.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1660	
5°	1583	148
15°	1372	382
25°	994	454
35°	574	358
45°	223	168
55°	29	29
65°	3	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P641998

CATALOG NUMBER: ML5612LSWFL5597FS1E - 593SNB - 1200LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1659.5
2.5°	1638.6
5°	1582.8
7.5°	1531.1
10°	1483.7
12.5°	1433.4
15°	1372.0
17.5°	1296.6
20°	1208.7
22.5°	1106.8
25°	993.8
27.5°	880.7
30°	776.0
32.5°	674.1
35°	573.6
37.5°	478.7
40°	389.4
42.5°	305.7
45°	223.3
47.5°	125.6
50°	69.8
52.5°	44.7
55°	29.3
57.5°	18.1
60°	9.8
62.5°	5.6
65°	2.8
67.5°	1.4
70°	1.4
72.5°	1.4
75°	1.4
77.5°	0.0
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)