

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: P642100

Luminaire Tested: ML5612LSWFL5597FS1E - 596WB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 596WB - 900LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1426.9 lumens
Efficiency: N/A
Efficacy: 107.3 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

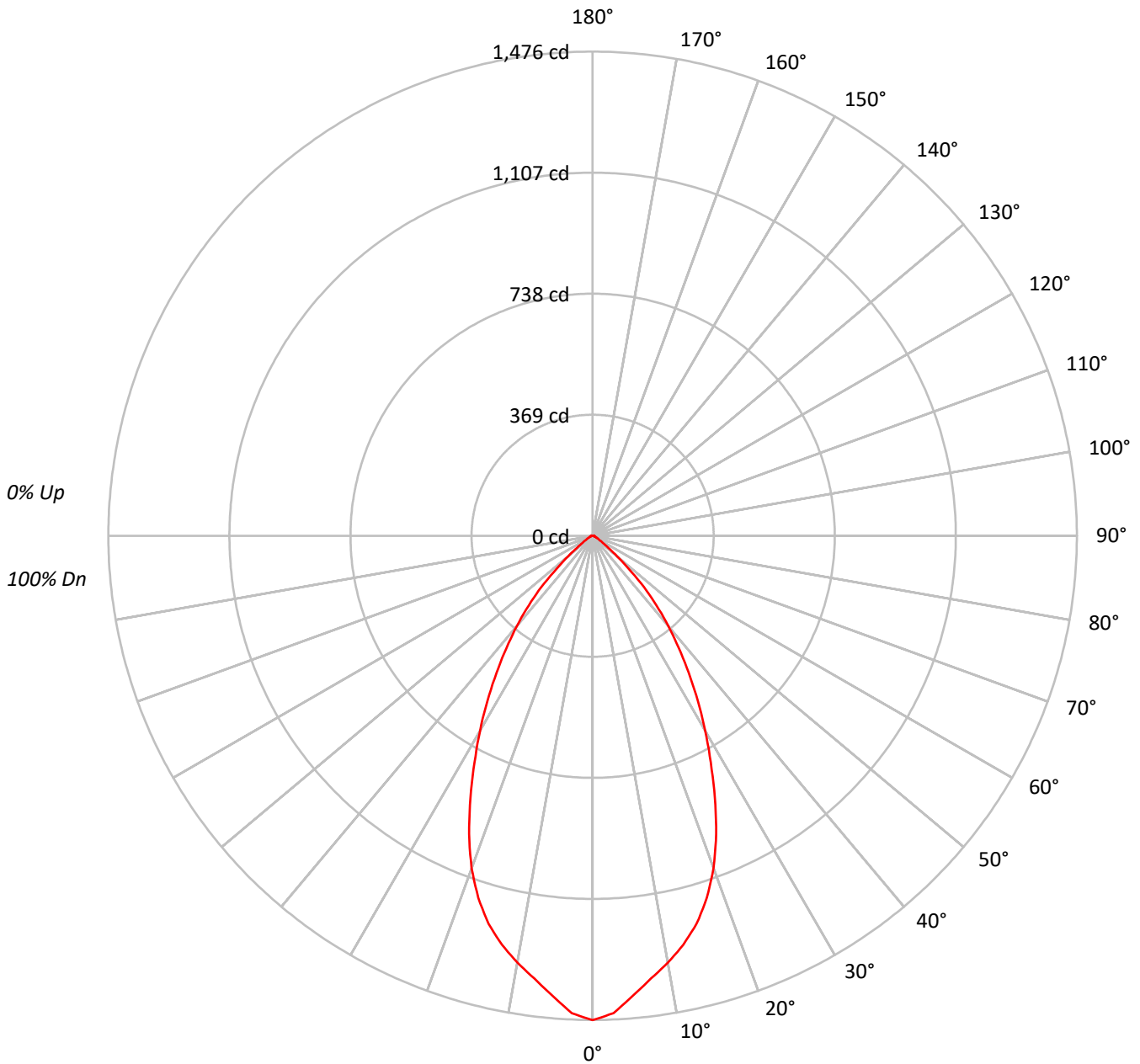
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P642100

CATALOG NUMBER: ML5612LSWFL5597FS1E - 596WB - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P642100

CATALOG NUMBER: ML5612LSWFL5597FS1E - 596WB - 900LM - 5000K

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72			72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61			61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57			57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53			53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46			46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	116556
5°	111502
10°	105922
15°	100089
20°	90577
25°	76737
30°	62549
35°	49148
40°	36954
45°	24661
50°	11888
55°	5299
60°	3331
65°	2316
70°	1708
75°	1129
80°	2273
85°	3351

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24661 cd/sqm



TEST NUMBER: P642100

CATALOG NUMBER: ML5612LSWFL5597FS1E - 596WB - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.7	9.2
10°-20°	340.9	23.9
20°-30°	402.6	28.2
30°-40°	319.5	22.4
40°-50°	168.3	11.8
50°-60°	41.0	2.9
60°-70°	13.0	0.9
70°-80°	5.9	0.4
80°-90°	4.1	0.3
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°	875.2	61.3
0°-40°	1194.6	83.7
0°-60°	1404.0	98.4
0°-90°	1426.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1426.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1476	
5°	1407	132
15°	1225	341
25°	881	403
35°	510	319
45°	221	168
55°	38	41
65°	12	13
75°	4	6
85°	4	4
90°	0	



TEST NUMBER: P642100

CATALOG NUMBER: ML5612LSWFL5597FS1E - 596WB - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1476.5
2.5°	1456.7
5°	1407.1
7.5°	1361.1
10°	1321.4
12.5°	1276.8
15°	1224.7
17.5°	1157.7
20°	1078.2
22.5°	983.9
25°	881.0
27.5°	779.2
30°	686.2
32.5°	596.8
35°	510.0
37.5°	430.6
40°	358.6
42.5°	287.9
45°	220.9
47.5°	147.7
50°	96.8
52.5°	60.8
55°	38.5
57.5°	27.3
60°	21.1
62.5°	16.1
65°	12.4
67.5°	9.9
70°	7.4
72.5°	6.2
75°	3.7
77.5°	6.2
80°	5.0
82.5°	5.0
85°	3.7
87.5°	3.7
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)