

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: P641406

Luminaire Tested: ML5612LSVWFL7597FS1E - 596WB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641406
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 596WB - 900LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

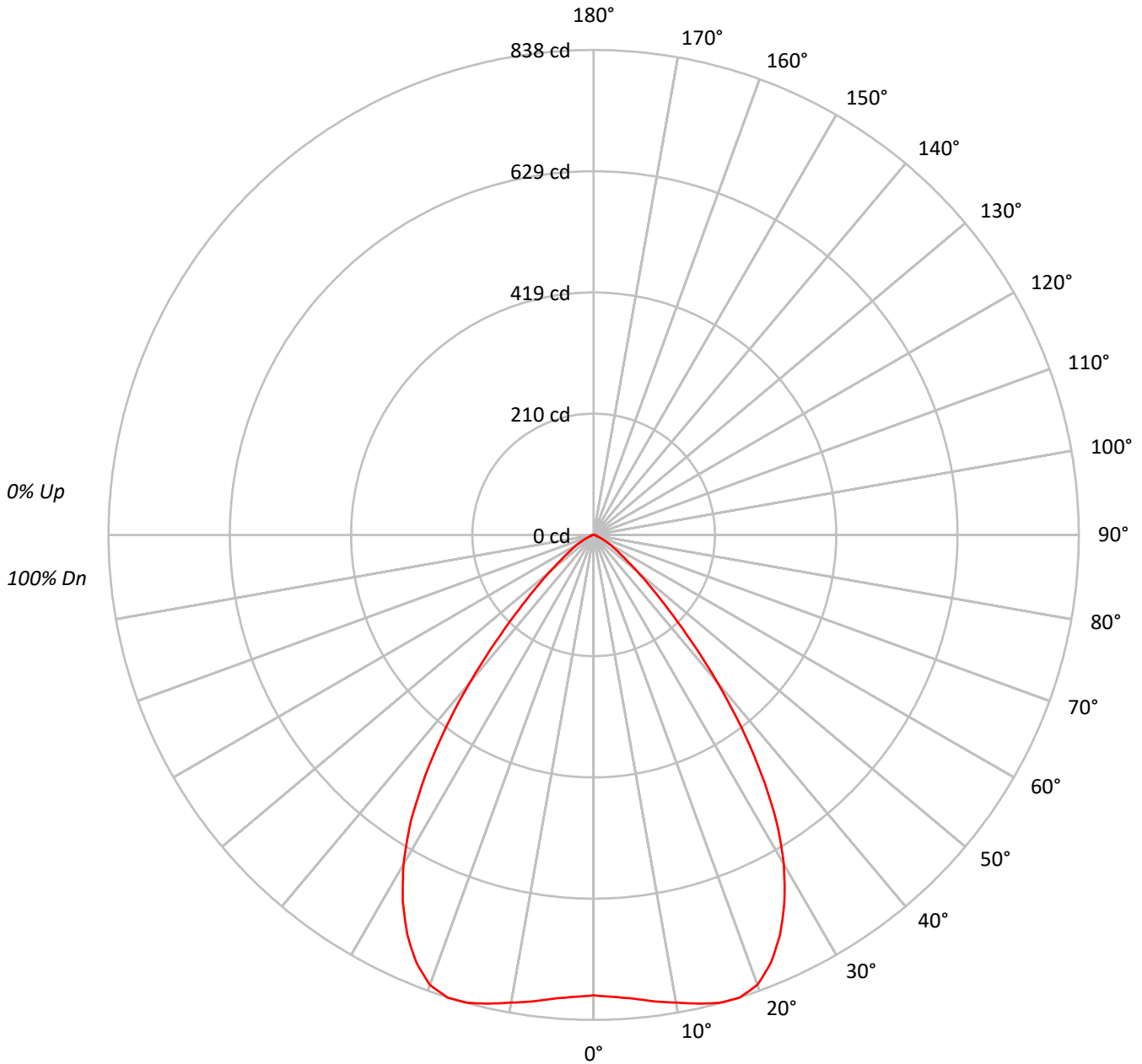
Lumens per Lamp: N/A
Luminaire Lumens: 1194.7 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.1
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P641406
CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641406

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 900LM - 2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62813
5°	63743
10°	65794
15°	68421
20°	69508
25°	66363
30°	59897
35°	48811
40°	34192
45°	20352
50°	12060
55°	7363
60°	5005
65°	2858
70°	1500
75°	1342
80°	1500
85°	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20352 cd/sqm



TEST NUMBER: P641406

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 900LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	6.5
10°-20°	236.1	19.8
20°-30°	346.9	29.0
30°-40°	311.4	26.1
40°-50°	148.9	12.5
50°-60°	51.2	4.3
60°-70°	16.5	1.4
70°-80°	4.8	0.4
80°-90°	1.6	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°	660.4	55.3
0°-40°	971.7	81.3
0°-60°	1171.8	98.1
0°-90°	1194.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1194.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	796	
5°	804	77
15°	837	236
25°	762	347
35°	506	311
45°	182	149
55°	54	51
65°	15	16
75°	4	5
85°	1	2
90°	0	



TEST NUMBER: P641406

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 900LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	795.7
2.5°	799.0
5°	804.4
7.5°	813.2
10°	820.8
12.5°	829.5
15°	837.2
17.5°	838.3
20°	827.4
22.5°	800.1
25°	761.9
27.5°	713.8
30°	657.1
32.5°	588.3
35°	506.5
37.5°	419.1
40°	331.8
42.5°	250.0
45°	182.3
47.5°	134.3
50°	98.2
52.5°	70.9
55°	53.5
57.5°	41.5
60°	31.7
62.5°	22.9
65°	15.3
67.5°	9.8
70°	6.5
72.5°	5.5
75°	4.4
77.5°	3.3
80°	3.3
82.5°	2.2
85°	1.1
87.5°	1.1
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)