

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: P641398

Luminaire Tested: ML5612LSVWFL7597FS1E - 596WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641398
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 - 1200LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1528.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

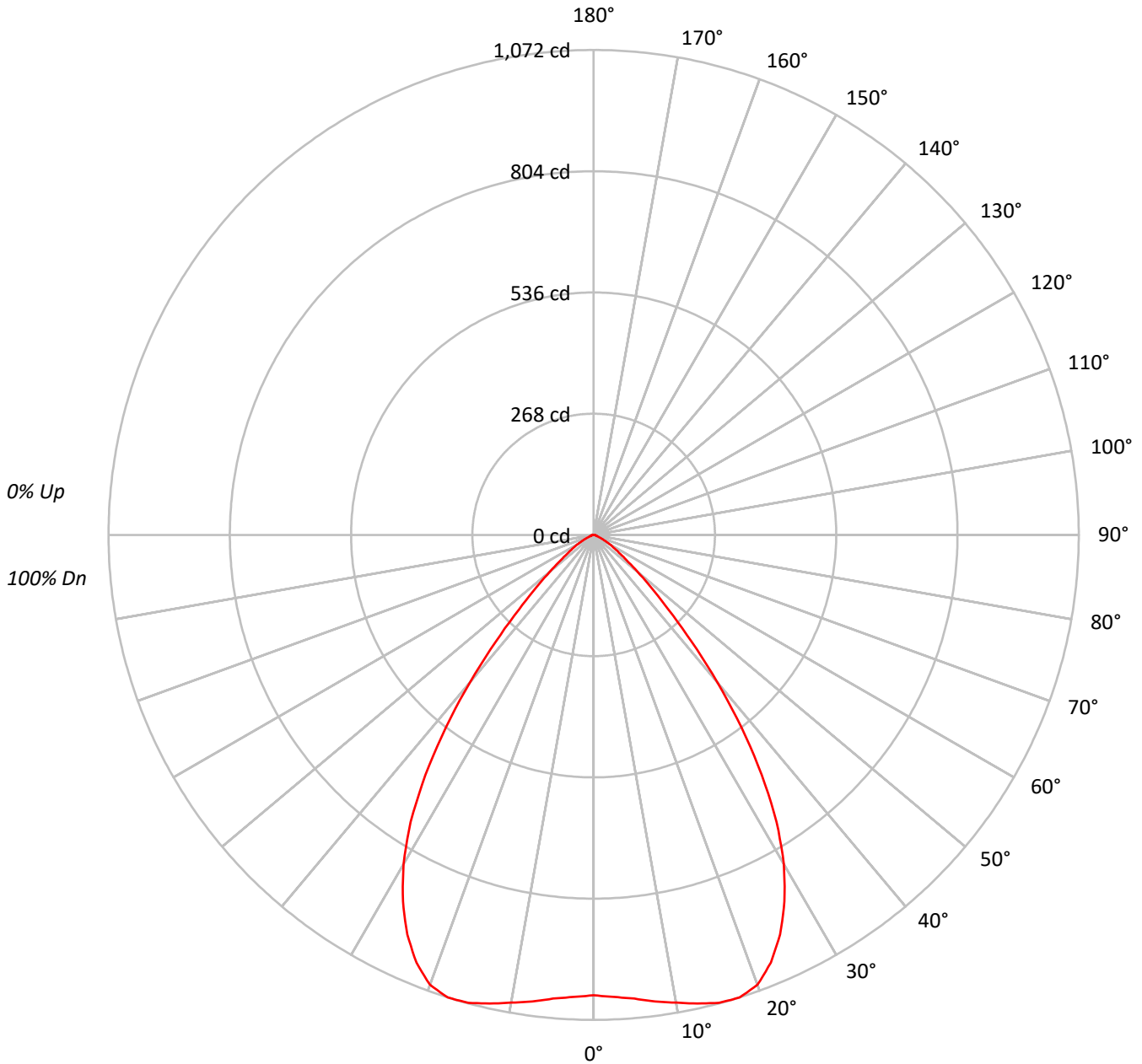
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641398

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 1200LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641398

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 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
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°	80338
5°	81533
10°	84151
15°	87512
20°	88896
25°	84881
30°	76605
35°	62428
40°	43734
45°	26023
50°	15425
55°	9414
60°	6394
65°	3642
70°	1939
75°	1708
80°	1909
85°	1268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26023 cd/sqm



TEST NUMBER: P641398

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 1200LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	6.5
10°-20°	302.0	19.8
20°-30°	443.7	29.0
30°-40°	398.3	26.1
40°-50°	190.4	12.5
50°-60°	65.5	4.3
60°-70°	21.1	1.4
70°-80°	6.1	0.4
80°-90°	2.1	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°	844.6	55.3
0°-40°	1242.9	81.3
0°-60°	1498.7	98.1
0°-90°	1528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1528.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1018	
5°	1029	99
15°	1071	302
25°	974	444
35°	648	398
45°	233	190
55°	68	66
65°	20	21
75°	6	6
85°	1	2
90°	0	



TEST NUMBER: P641398
CATALOG NUMBER: ML5612LSVWFL7597FS1E - 596WB - 1200LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1017.7
2.5°	1021.9
5°	1028.9
7.5°	1040.1
10°	1049.8
12.5°	1061.0
15°	1070.8
17.5°	1072.2
20°	1058.2
22.5°	1023.3
25°	974.5
27.5°	913.0
30°	840.4
32.5°	752.5
35°	647.8
37.5°	536.1
40°	424.4
42.5°	319.7
45°	233.1
47.5°	171.7
50°	125.6
52.5°	90.7
55°	68.4
57.5°	53.1
60°	40.5
62.5°	29.3
65°	19.5
67.5°	12.6
70°	8.4
72.5°	7.0
75°	5.6
77.5°	4.2
80°	4.2
82.5°	2.8
85°	1.4
87.5°	1.4
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)