

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: P641244

Luminaire Tested: ML5612LSVWFL7597FS1E - 591WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 591WB - 900LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1349.5 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

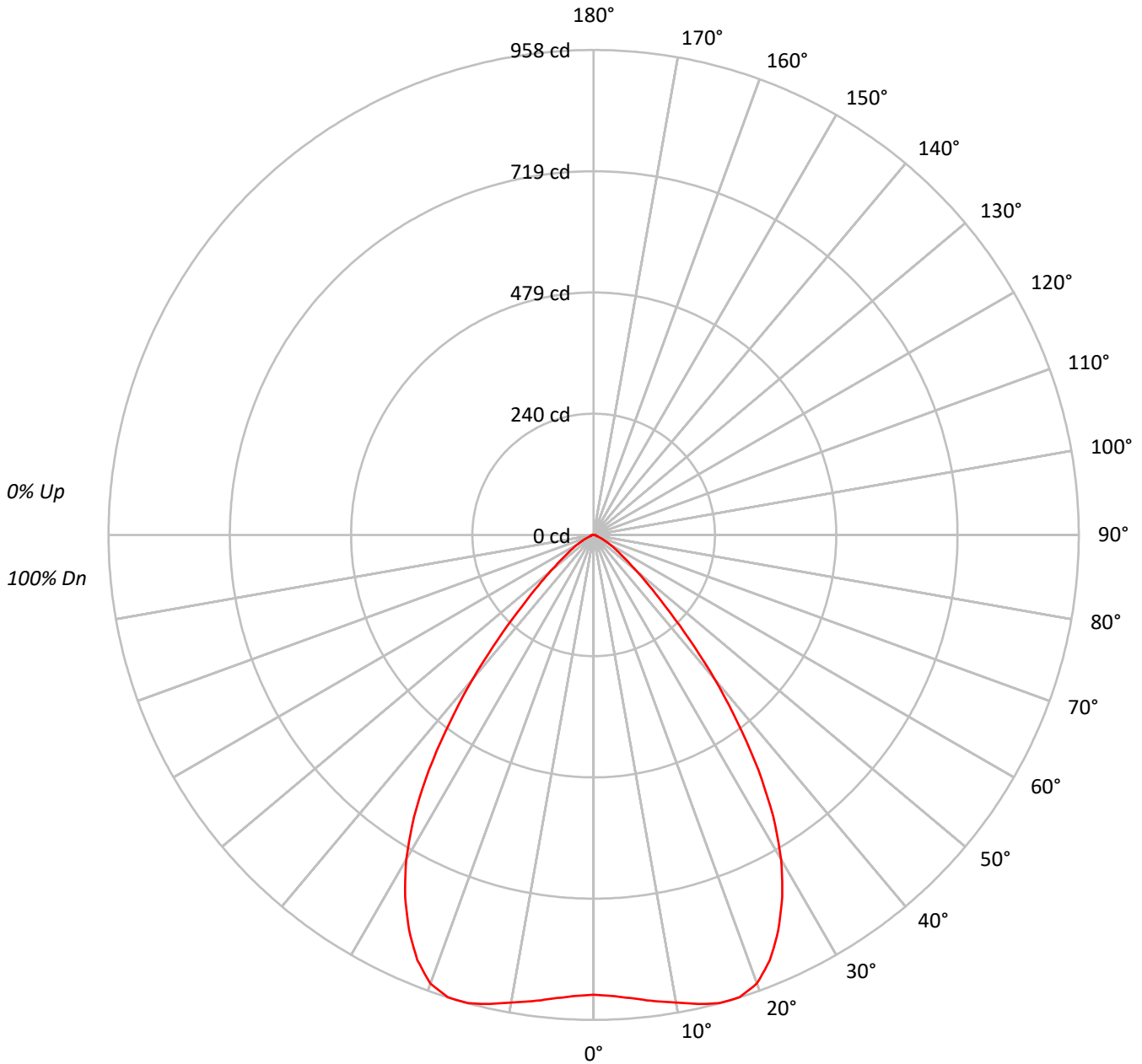
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641244

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 591WB - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641244

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 591WB - 900LM - 4000K

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																			
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92																			
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69																			
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58																			
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53																			
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49																			
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	49782
5°	50589
10°	52209
15°	54353
20°	55007
25°	52152
30°	46881
35°	37945
40°	26543
45°	15583
50°	9313
55°	5811
60°	3947
65°	2257
70°	1186
75°	1059
80°	1168
85°	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15583 cd/sqm



TEST NUMBER: P641244

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 591WB - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	6.5
10°-20°	269.8	20.0
20°-30°	393.0	29.1
30°-40°	348.6	25.8
40°-50°	165.0	12.2
50°-60°	57.7	4.3
60°-70°	18.8	1.4
70°-80°	5.7	0.4
80°-90°	2.5	0.2
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°	751.1	55.7
0°-40°	1099.8	81.5
0°-60°	1322.5	98.0
0°-90°	1349.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1349.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	908	
5°	919	88
15°	958	270
25°	862	393
35°	567	349
45°	201	165
55°	61	58
65°	17	19
75°	5	6
85°	2	3
90°	0	



TEST NUMBER: P641244

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 591WB - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	908.1
2.5°	911.8
5°	919.3
7.5°	929.2
10°	937.9
12.5°	949.1
15°	957.7
17.5°	957.7
20°	942.9
22.5°	909.4
25°	862.2
27.5°	806.4
30°	740.6
32.5°	660.0
35°	567.0
37.5°	466.5
40°	370.9
42.5°	277.9
45°	201.0
47.5°	147.6
50°	109.2
52.5°	79.4
55°	60.8
57.5°	47.1
60°	36.0
62.5°	26.1
65°	17.4
67.5°	11.2
70°	7.4
72.5°	6.2
75°	5.0
77.5°	5.0
80°	3.7
82.5°	3.7
85°	2.5
87.5°	1.2
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)