

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: P641077

Luminaire Tested: ML5612LSNFL2597FS1E - 691WB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641077
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 691WB - 900LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1217.6 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

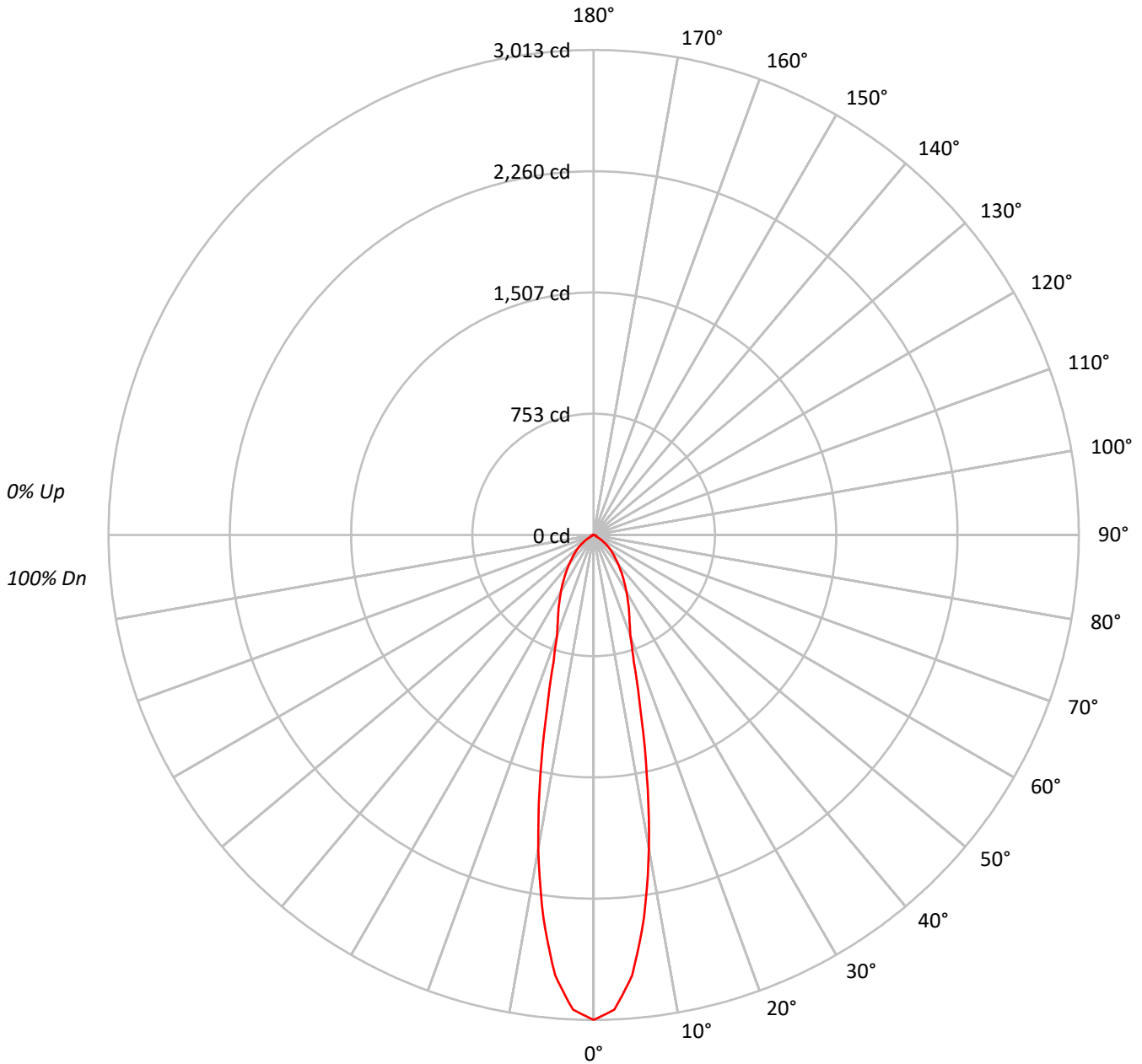
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641077

CATALOG NUMBER: ML5612LSNFL2597FS1E - 691WB - 900LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641077

CATALOG NUMBER: ML5612LSNFL2597FS1E - 691WB - 900LM - 3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165168
5°	151166
10°	110124
15°	63303
20°	38754
25°	31357
30°	25713
35°	20954
40°	16860
45°	13482
50°	10627
55°	6862
60°	2708
65°	2037
70°	1619
75°	1419
80°	1421
85°	1384

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13482 cd/sqm



TEST NUMBER: P641077

CATALOG NUMBER: ML5612LSNFL2597FS1E - 691WB - 900LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	19.5
10°-20°	319.8	26.3
20°-30°	238.9	19.6
30°-40°	196.4	16.1
40°-50°	135.4	11.1
50°-60°	64.9	5.3
60°-70°	15.6	1.3
70°-80°	7.3	0.6
80°-90°	2.4	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°	795.6	65.3
0°-40°	991.9	81.5
0°-60°	1192.2	97.9
0°-90°	1217.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1217.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3013	
5°	2747	237
15°	1115	320
25°	518	239
35°	313	196
45°	174	135
55°	72	65
65°	16	16
75°	7	7
85°	2	2
90°	0	



TEST NUMBER: P641077

CATALOG NUMBER: ML5612LSNFL2597FS1E - 691WB - 900LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	3012.9
2.5°	2952.3
5°	2747.0
7.5°	2395.7
10°	1978.3
12.5°	1525.0
15°	1115.4
17.5°	825.9
20°	664.3
22.5°	580.1
25°	518.4
27.5°	460.1
30°	406.2
32.5°	356.8
35°	313.1
37.5°	272.7
40°	235.6
42.5°	203.1
45°	173.9
47.5°	148.1
50°	124.6
52.5°	101.0
55°	71.8
57.5°	46.0
60°	24.7
62.5°	18.0
65°	15.7
67.5°	12.3
70°	10.1
72.5°	7.9
75°	6.7
77.5°	5.6
80°	4.5
82.5°	3.4
85°	2.2
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)