

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: P641078

Luminaire Tested: ML5612LSNFL2597FS1E - 691WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641078
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 - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

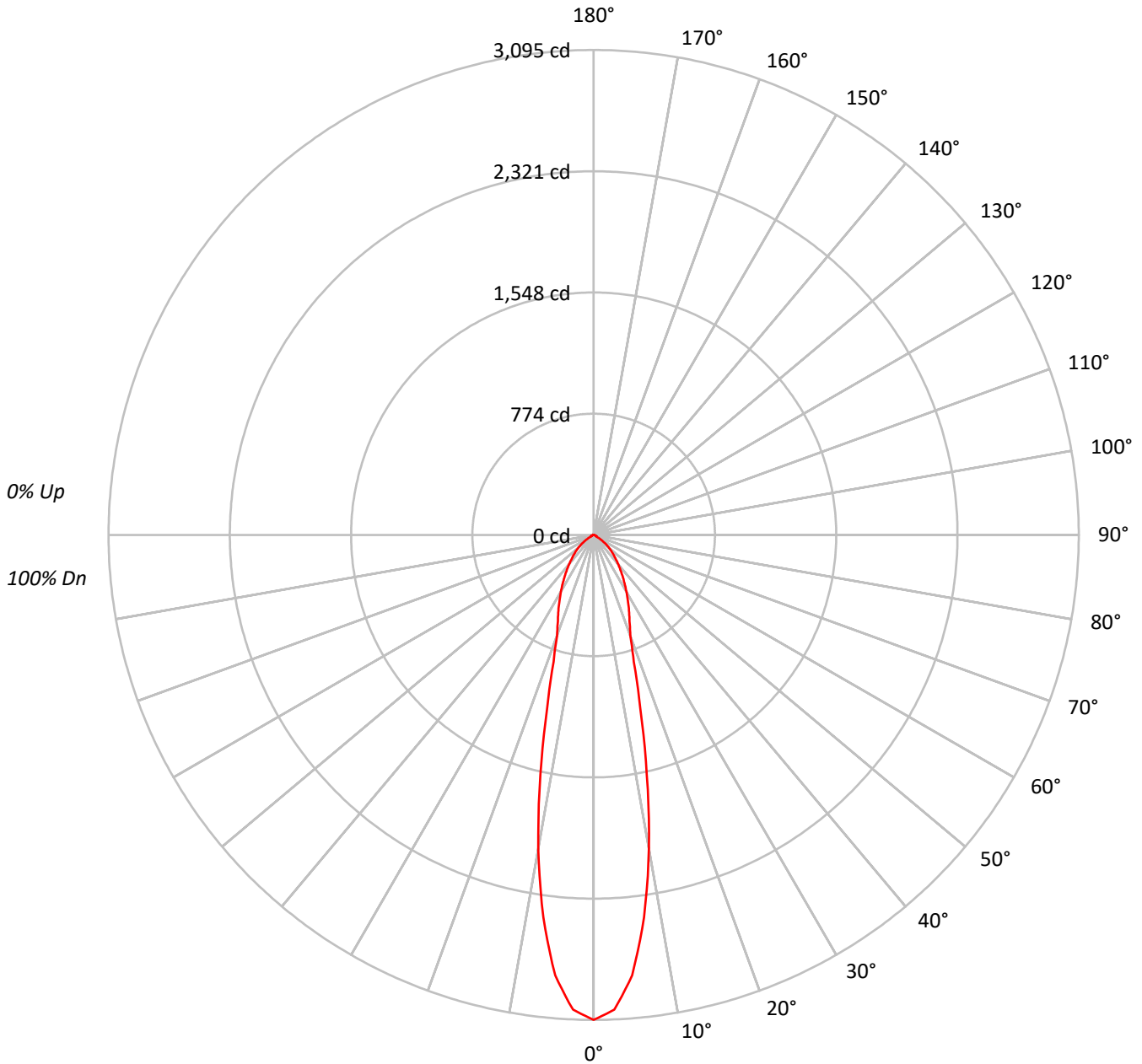
Lumens per Lamp: N/A
Luminaire Lumens: 1250.8 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P641078
CATALOG NUMBER: ML5612LSNFL2597FS1E - 691WB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641078

CATALOG NUMBER: ML5612LSNFL2597FS1E - 691WB - 900LM - 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
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	89	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°	169663
5°	155277
10°	113124
15°	65029
20°	39810
25°	32210
30°	26415
35°	21522
40°	17325
45°	13854
50°	10908
55°	7054
60°	2785
65°	2088
70°	1667
75°	1461
80°	1452
85°	1447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13854 cd/sqm



TEST NUMBER: P641078

CATALOG NUMBER: ML5612LSNFL2597FS1E - 691WB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.3	19.5
10°-20°	328.5	26.3
20°-30°	245.4	19.6
30°-40°	201.7	16.1
40°-50°	139.1	11.1
50°-60°	66.7	5.3
60°-70°	16.1	1.3
70°-80°	7.5	0.6
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°	817.2	65.3
0°-40°	1019.0	81.5
0°-60°	1224.7	97.9
0°-90°	1250.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1250.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3095	
5°	2822	243
15°	1146	329
25°	532	245
35°	322	202
45°	179	139
55°	74	67
65°	16	16
75°	7	7
85°	2	3
90°	0	



TEST NUMBER: P641078

CATALOG NUMBER: ML5612LSNFL2597FS1E - 691WB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	3094.9
2.5°	3032.7
5°	2821.7
7.5°	2461.0
10°	2032.2
12.5°	1566.5
15°	1145.8
17.5°	848.4
20°	682.4
22.5°	595.9
25°	532.5
27.5°	472.6
30°	417.3
32.5°	366.6
35°	321.6
37.5°	280.1
40°	242.1
42.5°	208.6
45°	178.7
47.5°	152.2
50°	127.9
52.5°	103.7
55°	73.8
57.5°	47.3
60°	25.4
62.5°	18.4
65°	16.1
67.5°	12.7
70°	10.4
72.5°	8.1
75°	6.9
77.5°	5.8
80°	4.6
82.5°	3.5
85°	2.3
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)