

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: P641213

Luminaire Tested: ML5612LSNFL2597FS1E - 694WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 694WB - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

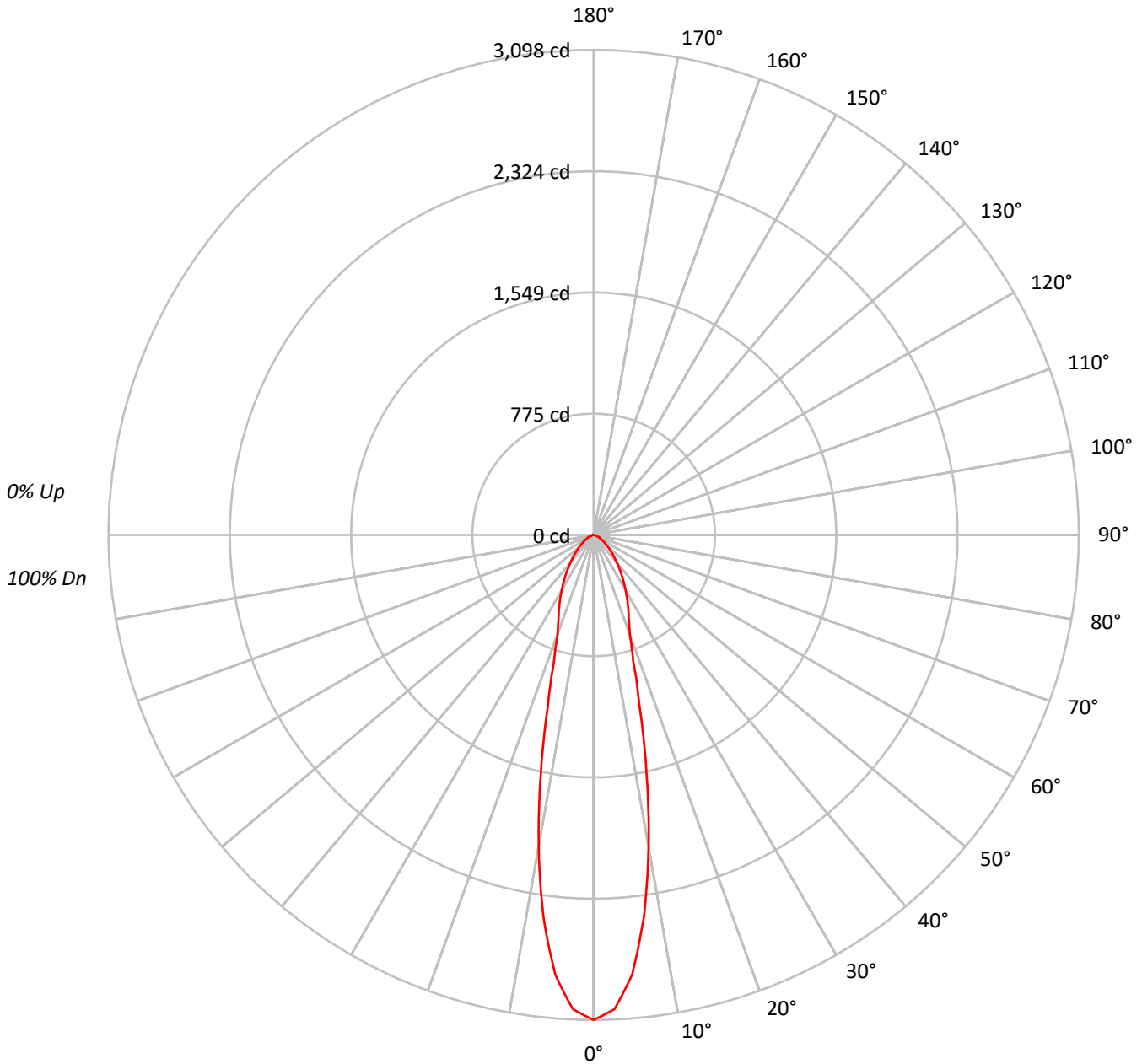
Lumens per Lamp: N/A
Luminaire Lumens: 1262.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P641213
CATALOG NUMBER: ML5612LSNFL2597FS1E - 694WB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641213

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694WB - 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92	92	92	92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78	78	78	78
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	81	77	74	73	73	73	73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68	68	68	68
6	87	77	71	67	85	77	71	66	75	70	66	74	69	66	72	68	65	64	64	64	64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60	60	60	60
8	79	69	63	59	77	69	63	59	67	62	58	66	62	58	65	61	58	57	57	57	57
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	62	58	55	54	54	54	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51	51	51	51

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	169860
5°	155101
10°	112573
15°	64087
20°	39256
25°	31641
30°	25820
35°	20746
40°	16409
45°	12955
50°	10123
55°	7933
60°	6315
65°	5085
70°	3687
75°	1949
80°	1452
85°	755

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12955 cd/sqm



TEST NUMBER: P641213

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694WB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.0	19.3
10°-20°	325.2	25.8
20°-30°	241.0	19.1
30°-40°	194.6	15.4
40°-50°	130.2	10.3
50°-60°	75.6	6.0
60°-70°	39.5	3.1
70°-80°	11.5	0.9
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°	809.2	64.1
0°-40°	1003.8	79.5
0°-60°	1209.6	95.8
0°-90°	1262.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1262.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3098	
5°	2818	243
15°	1129	325
25°	523	241
35°	310	195
45°	167	130
55°	83	76
65°	39	40
75°	9	12
85°	1	2
90°	0	



TEST NUMBER: P641213

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694WB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3098.5
2.5°	3034.0
5°	2818.5
7.5°	2459.0
10°	2022.3
12.5°	1557.9
15°	1129.2
17.5°	836.6
20°	672.9
22.5°	586.5
25°	523.1
27.5°	463.2
30°	407.9
32.5°	357.2
35°	310.0
37.5°	267.3
40°	229.3
42.5°	197.0
45°	167.1
47.5°	140.6
50°	118.7
52.5°	99.1
55°	83.0
57.5°	69.1
60°	57.6
62.5°	48.4
65°	39.2
67.5°	32.3
70°	23.0
72.5°	15.0
75°	9.2
77.5°	5.8
80°	4.6
82.5°	2.3
85°	1.2
87.5°	0.0
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)