

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: P641228

Luminaire Tested: ML5612LSNFL2597FS1E - 696WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641228
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-23)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 696WB - 900LM - 3500K
Description: ML56 RR, 25D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1253.1 lumens
Efficiency: N/A
Efficacy: 94.2 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

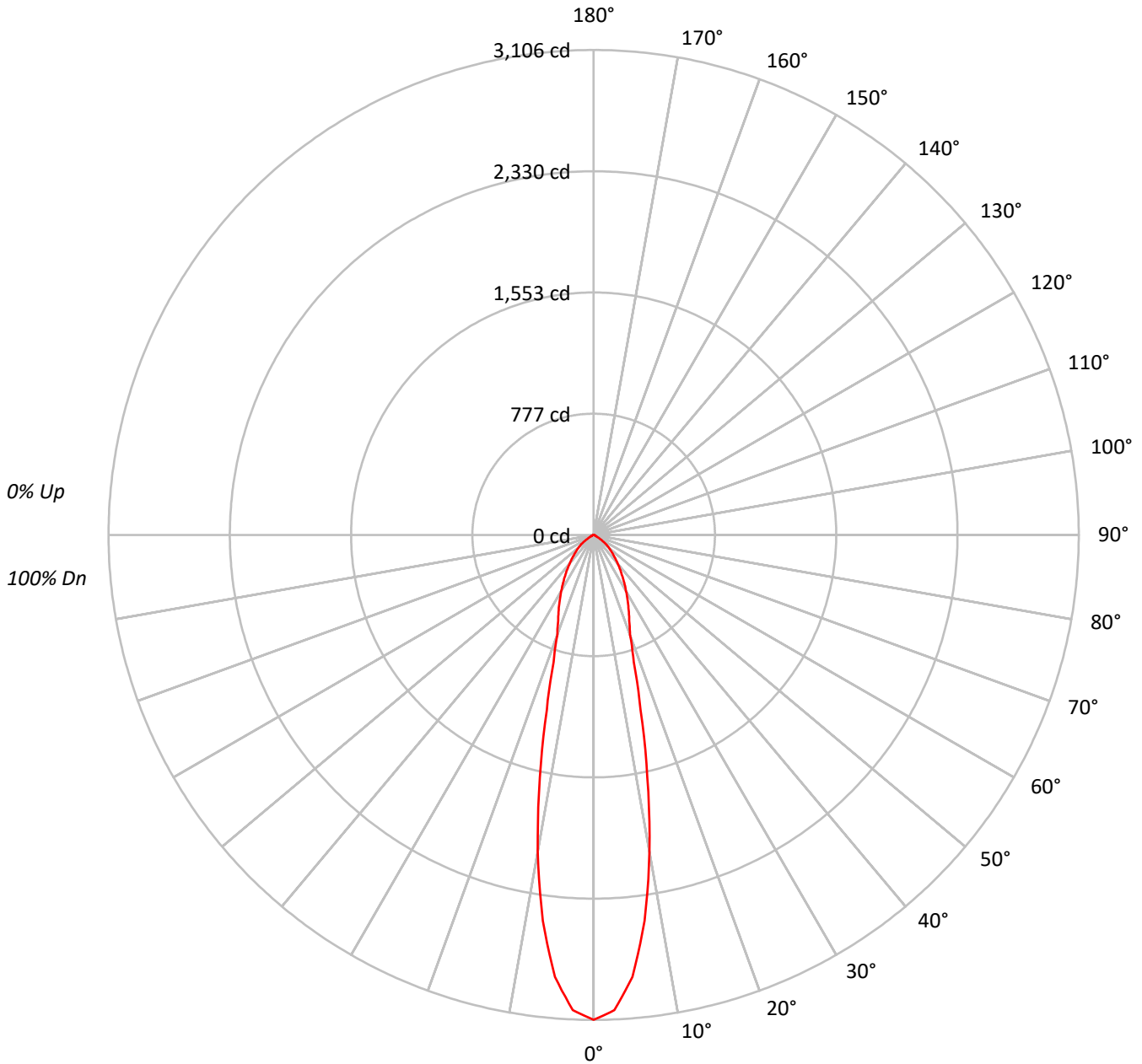
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641228

CATALOG NUMBER: ML5612LSNFL2597FS1E - 696WB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641228

CATALOG NUMBER: ML5612LSNFL2597FS1E - 696WB - 900LM - 3500K

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			100																
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	95	90	86	100	94	89	85	91	87	84	89	85	83	87	84	81	80			80																
4	97	89	83	79	95	88	83	79	86	81	78	84	80	77	82	78	76	74			74																
5	92	83	77	73	90	82	77	73	81	76	72	79	75	71	77	74	71	69			69																
6	87	78	72	68	86	78	72	68	76	71	67	75	70	67	73	70	67	65			65																
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61			61																
8	80	70	64	60	78	70	64	60	69	63	60	68	63	60	67	62	59	58			58																
9	76	67	61	57	75	66	61	57	65	60	57	64	60	57	64	59	56	55			55																
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52			52																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	170250
5°	156378
10°	114633
15°	65857
20°	39728
25°	32064
30°	26264
35°	21288
40°	17068
45°	13583
50°	10712
55°	7493
60°	3289
65°	1946
70°	1475
75°	1228
80°	1105
85°	1447

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13583 cd/sqm



TEST NUMBER: P641228

CATALOG NUMBER: ML5612LSNFL2597FS1E - 696WB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.7	19.6
10°-20°	332.0	26.5
20°-30°	244.5	19.5
30°-40°	199.7	15.9
40°-50°	136.5	10.9
50°-60°	69.6	5.6
60°-70°	16.5	1.3
70°-80°	6.2	0.5
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°	822.2	65.6
0°-40°	1021.9	81.6
0°-60°	1228.0	98.0
0°-90°	1253.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1253.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3106	
5°	2842	246
15°	1160	332
25°	530	244
35°	318	200
45°	175	136
55°	78	70
65°	15	16
75°	6	6
85°	2	2
90°	0	



TEST NUMBER: P641228

CATALOG NUMBER: ML5612LSNFL2597FS1E - 696WB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	3105.6
2.5°	3046.8
5°	2841.7
7.5°	2493.7
10°	2059.3
12.5°	1589.1
15°	1160.4
17.5°	853.9
20°	681.0
22.5°	594.6
25°	530.1
27.5°	470.2
30°	414.9
32.5°	364.1
35°	318.1
37.5°	276.6
40°	238.5
42.5°	205.1
45°	175.2
47.5°	148.7
50°	125.6
52.5°	104.9
55°	78.4
57.5°	53.0
60°	30.0
62.5°	19.6
65°	15.0
67.5°	12.7
70°	9.2
72.5°	6.9
75°	5.8
77.5°	4.6
80°	3.5
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)