

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: P641200

Luminaire Tested: ML5612LSNFL2597FS1E - 694TBZB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 694TBZB - 900LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1356.2 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

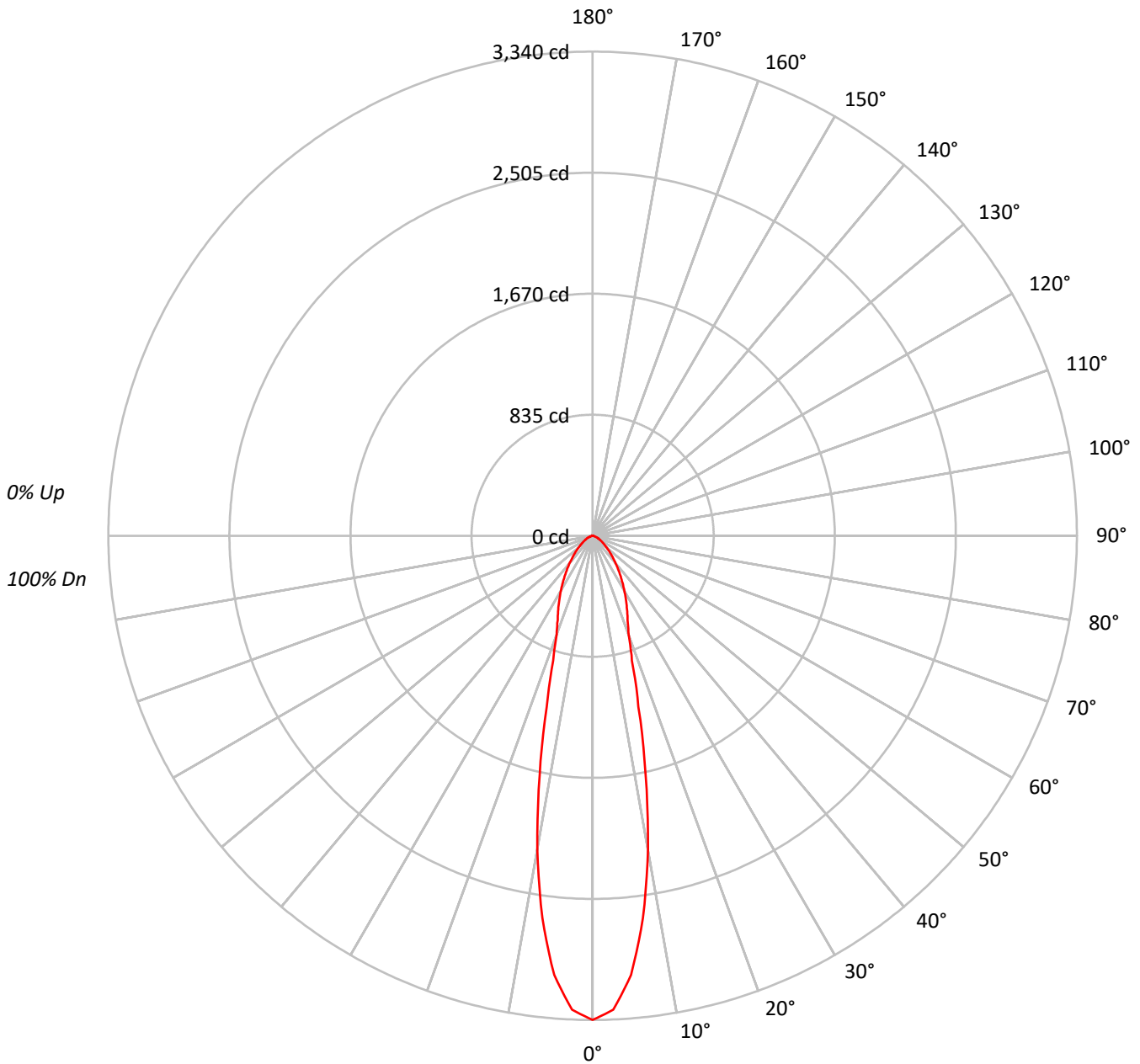
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641200

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694TBZB - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P641200

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694TBZB - 900LM - 5000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	183088
5°	167328
10°	122214
15°	69308
20°	42284
25°	33933
30°	27656
35°	22178
40°	17583
45°	13761
50°	10686
55°	8420
60°	6666
65°	5474
70°	3975
75°	2372
80°	1168
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13761 cd/sqm



TEST NUMBER: P641200

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694TBZB - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.7	19.4
10°-20°	351.8	25.9
20°-30°	258.9	19.1
30°-40°	208.4	15.4
40°-50°	138.5	10.2
50°-60°	80.2	5.9
60°-70°	42.1	3.1
70°-80°	12.5	0.9
80°-90°	1.2	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°	873.3	64.4
0°-40°	1081.7	79.8
0°-60°	1300.3	95.9
0°-90°	1356.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3340	
5°	3041	263
15°	1221	352
25°	561	259
35°	331	208
45°	178	138
55°	88	80
65°	42	42
75°	11	13
85°	0	1
90°	0	



TEST NUMBER: P641200

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694TBZB - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3339.8
2.5°	3272.7
5°	3040.7
7.5°	2659.6
10°	2195.5
12.5°	1687.9
15°	1221.2
17.5°	902.3
20°	724.8
22.5°	630.5
25°	561.0
27.5°	497.7
30°	436.9
32.5°	382.3
35°	331.4
37.5°	286.7
40°	245.7
42.5°	208.5
45°	177.5
47.5°	150.2
50°	125.3
52.5°	105.5
55°	88.1
57.5°	73.2
60°	60.8
62.5°	50.9
65°	42.2
67.5°	34.8
70°	24.8
72.5°	16.1
75°	11.2
77.5°	6.2
80°	3.7
82.5°	2.5
85°	0.0
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)