

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: P641202

Luminaire Tested: ML5612LSNFL2597FS1E - 694WB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641202  
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 - 1200LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1487.6 lumens  
Efficiency: N/A  
Efficacy: 90.2 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

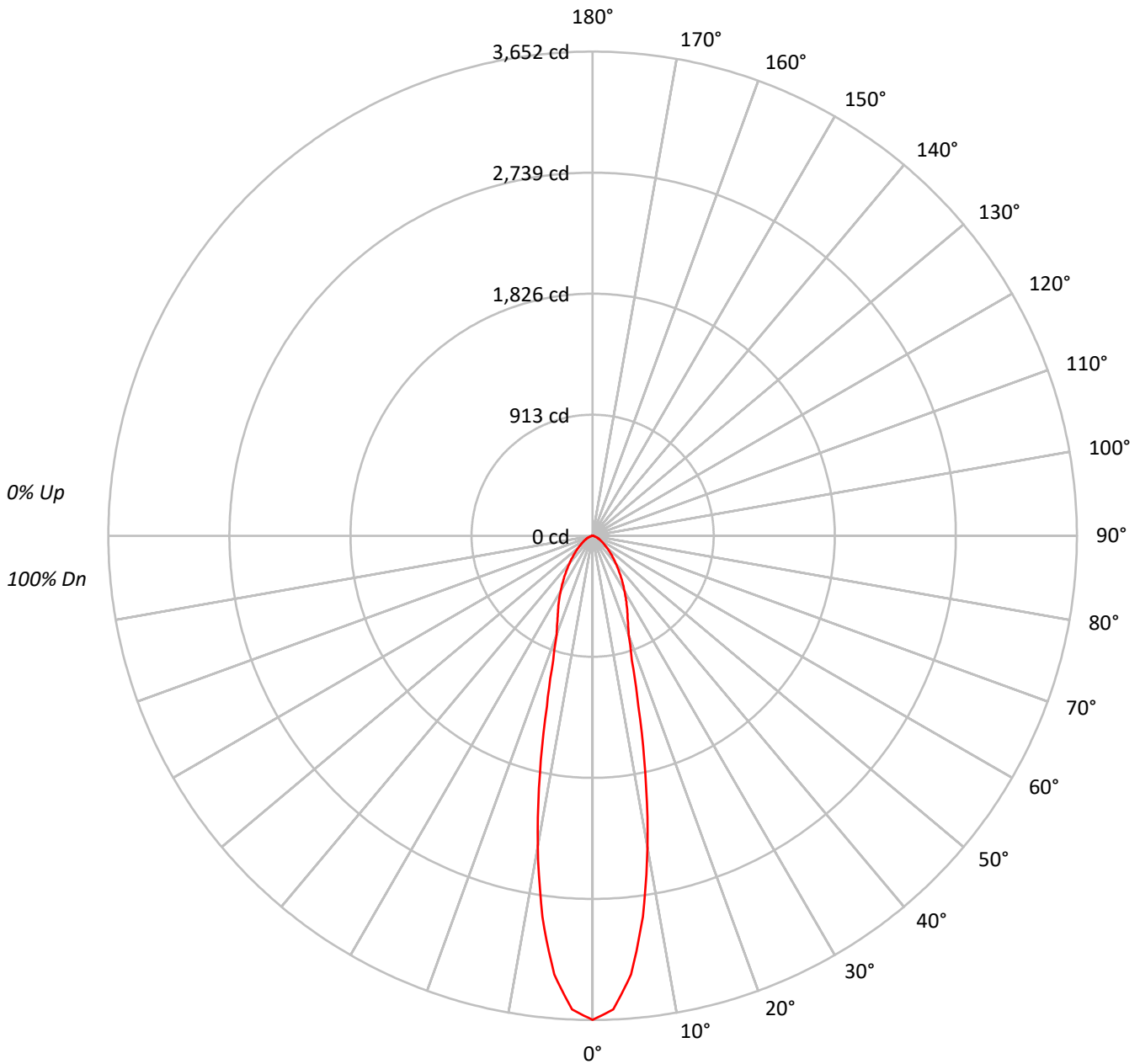
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641202

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694WB - 1200LM - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641202

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694WB - 1200LM - 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	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92																			
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	81	85	83	80	78																			
4	96	88	82	78	94	87	81	77	85	80	76	82	78	75	81	77	74	73																			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68																			
6	87	77	71	67	85	76	71	66	75	70	66	74	69	66	72	68	65	64																			
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60																			
8	79	69	63	59	77	69	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	66	60	56	74	65	60	56	64	59	55	63	59	55	62	58	55	54																			
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	52	51																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	200176
5°	182781
10°	132663
15°	75528
20°	46262
25°	37290
30°	30429
35°	24447
40°	19336
45°	15265
50°	11931
55°	9347
60°	7445
65°	5993
70°	4360
75°	2309
80°	1705
85°	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15265 cd/sqm



TEST NUMBER: P641202

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694WB - 1200LM - 3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.4	19.2
10°-20°	383.2	25.8
20°-30°	284.1	19.1
30°-40°	229.3	15.4
40°-50°	153.5	10.3
50°-60°	89.1	6.0
60°-70°	46.6	3.1
70°-80°	13.6	0.9
80°-90°	1.8	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°	953.7	64.1
0°-40°	1183.0	79.5
0°-60°	1425.6	95.8
0°-90°	1487.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1487.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3652	
5°	3322	286
15°	1331	383
25°	616	284
35°	365	229
45°	197	153
55°	98	89
65°	46	47
75°	11	14
85°	1	2
90°	0	



TEST NUMBER: P641202

CATALOG NUMBER: ML5612LSNFL2597FS1E - 694WB - 1200LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3651.5
2.5°	3575.5
5°	3321.5
7.5°	2897.8
10°	2383.2
12.5°	1835.9
15°	1330.8
17.5°	985.9
20°	793.0
22.5°	691.2
25°	616.5
27.5°	545.9
30°	480.7
32.5°	421.0
35°	365.3
37.5°	315.0
40°	270.2
42.5°	232.2
45°	196.9
47.5°	165.7
50°	139.9
52.5°	116.8
55°	97.8
57.5°	81.5
60°	67.9
62.5°	57.0
65°	46.2
67.5°	38.0
70°	27.2
72.5°	17.7
75°	10.9
77.5°	6.8
80°	5.4
82.5°	2.7
85°	1.4
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)