

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: P641117

Luminaire Tested: ML5612LSNFL2597FS1E - 692W - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 692W - 600LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 935.9 lumens  
Efficiency: N/A  
Efficacy: 90.9 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

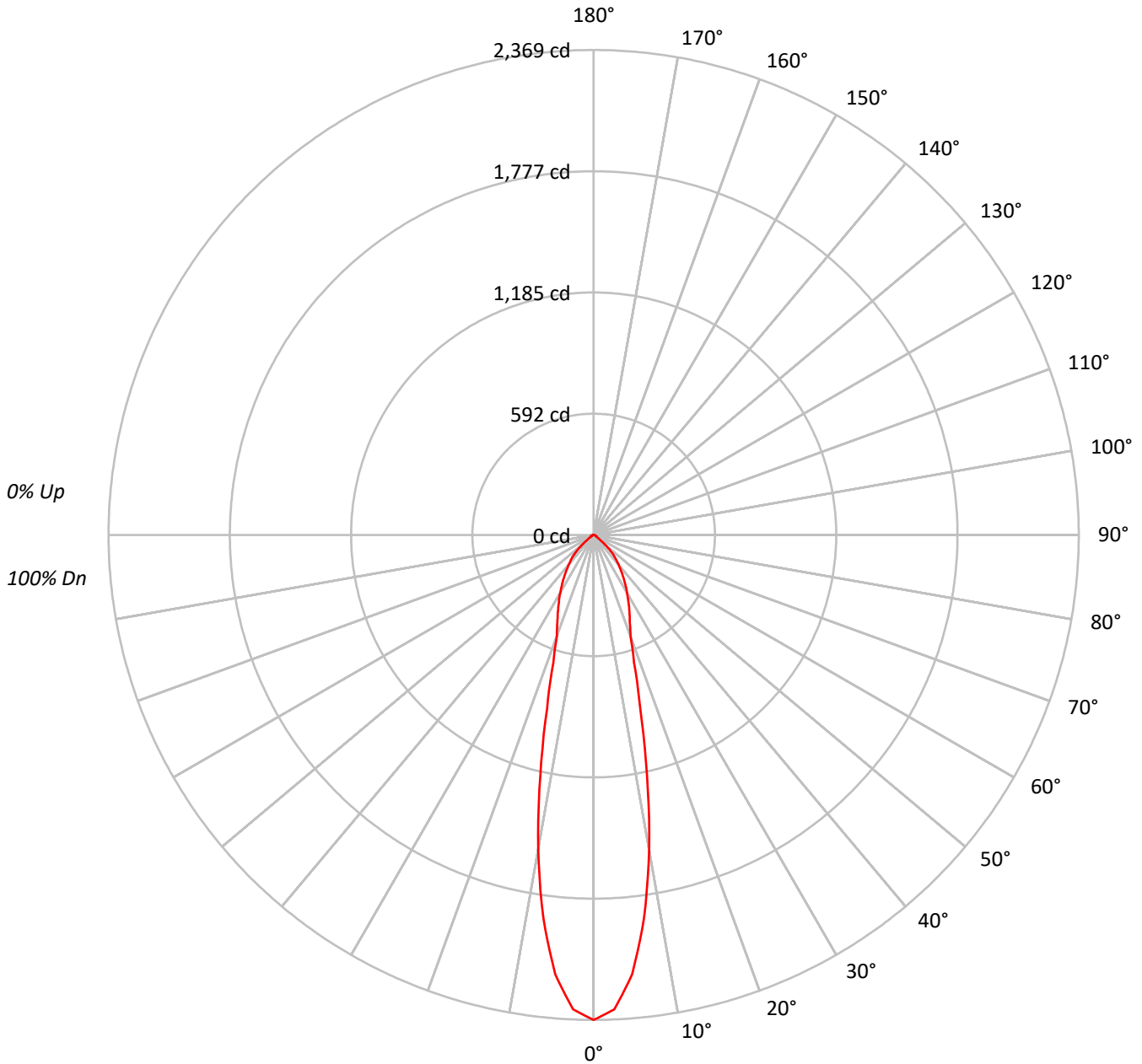
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641117

CATALOG NUMBER: ML5612LSNFL2597FS1E - 692W - 600LM - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641117

CATALOG NUMBER: ML5612LSNFL2597FS1E - 692W - 600LM - 3000K

**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			
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75			
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62			
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54			

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

	0°
0°	129869
5°	118528
10°	86939
15°	49830
20°	30709
25°	24969
30°	20649
35°	16858
40°	13518
45°	10505
50°	5816
55°	2256
60°	1820
65°	1583
70°	1394
75°	1483
80°	1389
85°	1069

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10505 cd/sqm



TEST NUMBER: P641117

CATALOG NUMBER: ML5612LSNFL2597FS1E - 692W - 600LM - 3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	186.3	19.9
10°-20°	252.5	27.0
20°-30°	190.4	20.3
30°-40°	157.8	16.9
40°-50°	100.6	10.8
50°-60°	26.8	2.9
60°-70°	12.4	1.3
70°-80°	7.0	0.8
80°-90°	2.0	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°	629.2	67.2
0°-40°	787.0	84.1
0°-60°	914.4	97.7
0°-90°	935.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	935.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2369	
5°	2154	186
15°	878	252
25°	413	190
35°	252	158
45°	136	101
55°	24	27
65°	12	12
75°	7	7
85°	2	2
90°	0	



TEST NUMBER: P641117

CATALOG NUMBER: ML5612LSNFL2597FS1E - 692W - 600LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2369.0
2.5°	2320.0
5°	2153.9
7.5°	1886.3
10°	1561.8
12.5°	1201.5
15°	878.0
17.5°	655.0
20°	526.4
22.5°	461.7
25°	412.8
27.5°	367.3
30°	326.2
32.5°	287.7
35°	251.9
37.5°	218.6
40°	188.9
42.5°	161.8
45°	135.5
47.5°	100.6
50°	68.2
52.5°	35.9
55°	23.6
57.5°	19.2
60°	16.6
62.5°	14.9
65°	12.2
67.5°	10.5
70°	8.7
72.5°	7.9
75°	7.0
77.5°	5.2
80°	4.4
82.5°	2.6
85°	1.7
87.5°	0.9
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)