

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P641012

Luminaire Tested: ML5612LSNFL2597FS1E - 594SNB - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-10)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 594SNB - 600LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 956.0 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

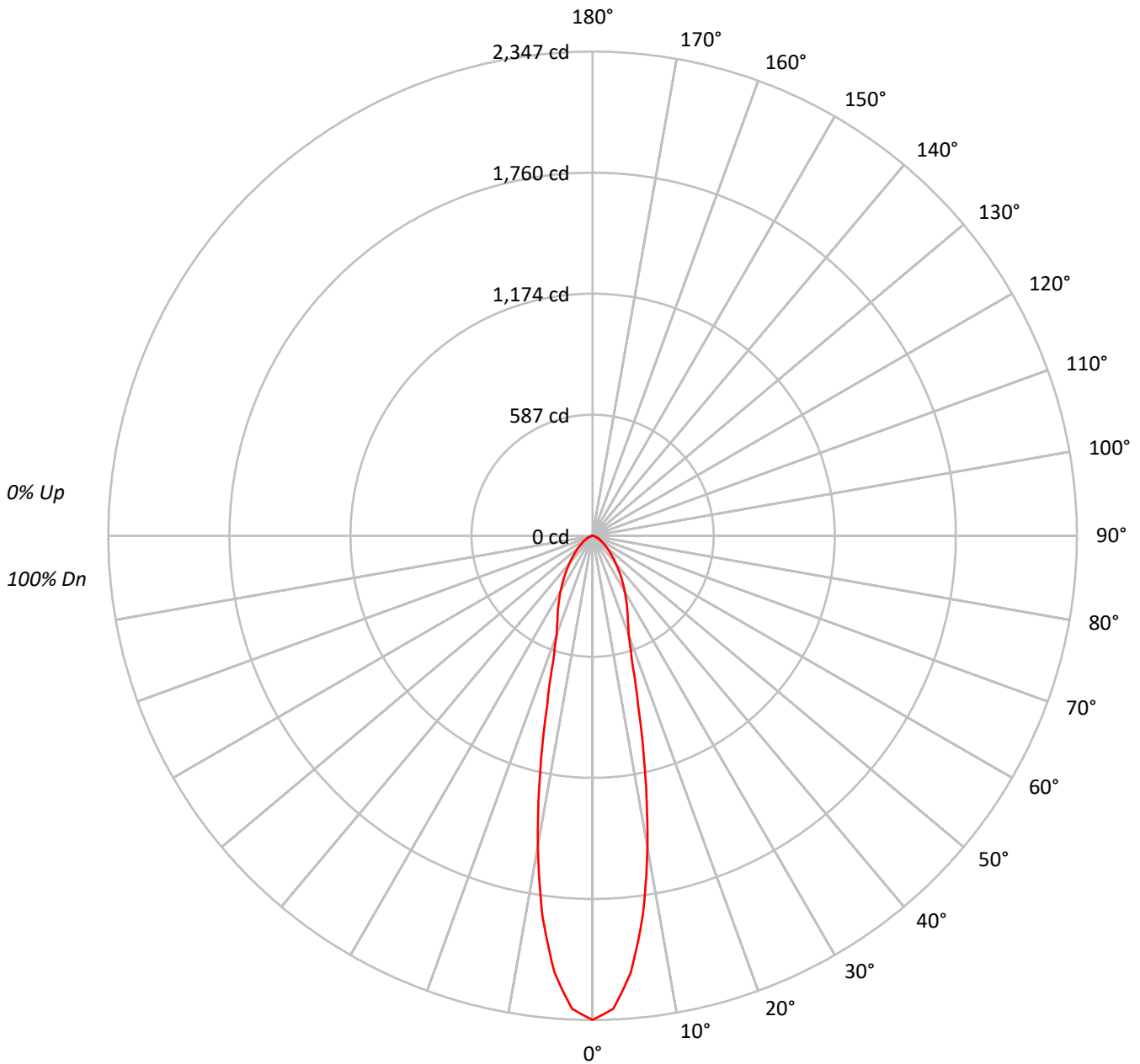
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641012

CATALOG NUMBER: ML5612LSNFL2597FS1E - 594SNB - 600LM - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641012

CATALOG NUMBER: ML5612LSNFL2597FS1E - 594SNB - 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			100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92			92
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78			78
4	96	88	82	78	94	87	81	77	84	80	76	82	78	75	81	77	74	73			73
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68			68
6	86	77	71	67	85	76	71	66	75	70	66	74	69	66	72	68	65	64			64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60			60
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			57
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54			54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	55	52	51			51

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

	0°
0°	185259
5°	168359
10°	122699
15°	69557
20°	42768
25°	34588
30°	28303
35°	22762
40°	18023
45°	14156
50°	11065
55°	8671
60°	6899
65°	5548
70°	4039
75°	2135
80°	1182
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14156 cd/sqm



TEST NUMBER: P641012

CATALOG NUMBER: ML5612LSNFL2597FS1E - 594SNB - 600LM - 3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.7	19.2
10°-20°	245.3	25.7
20°-30°	183.2	19.2
30°-40°	148.2	15.5
40°-50°	98.9	10.3
50°-60°	57.4	6.0
60°-70°	30.0	3.1
70°-80°	8.6	0.9
80°-90°	0.8	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°	612.1	64.0
0°-40°	760.3	79.5
0°-60°	916.6	95.9
0°-90°	956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2347	
5°	2125	184
15°	851	245
25°	397	183
35°	236	148
45°	127	99
55°	63	57
65°	30	30
75°	7	9
85°	0	1
90°	0	



TEST NUMBER: P641012

CATALOG NUMBER: ML5612LSNFL2597FS1E - 594SNB - 600LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2346.8
2.5°	2295.2
5°	2124.6
7.5°	1860.5
10°	1530.7
12.5°	1173.0
15°	851.1
17.5°	630.7
20°	509.1
22.5°	446.1
25°	397.1
27.5°	352.5
30°	310.5
32.5°	271.2
35°	236.2
37.5°	203.8
40°	174.9
42.5°	149.6
45°	126.8
47.5°	106.7
50°	90.1
52.5°	75.2
55°	63.0
57.5°	52.5
60°	43.7
62.5°	36.7
65°	29.7
67.5°	24.5
70°	17.5
72.5°	11.4
75°	7.0
77.5°	4.4
80°	2.6
82.5°	1.7
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)