

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: P640962

Luminaire Tested: ML5612LSNFL2597FS1E - 593SNB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640962  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-7)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 593SNB - 1200LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1368.0 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

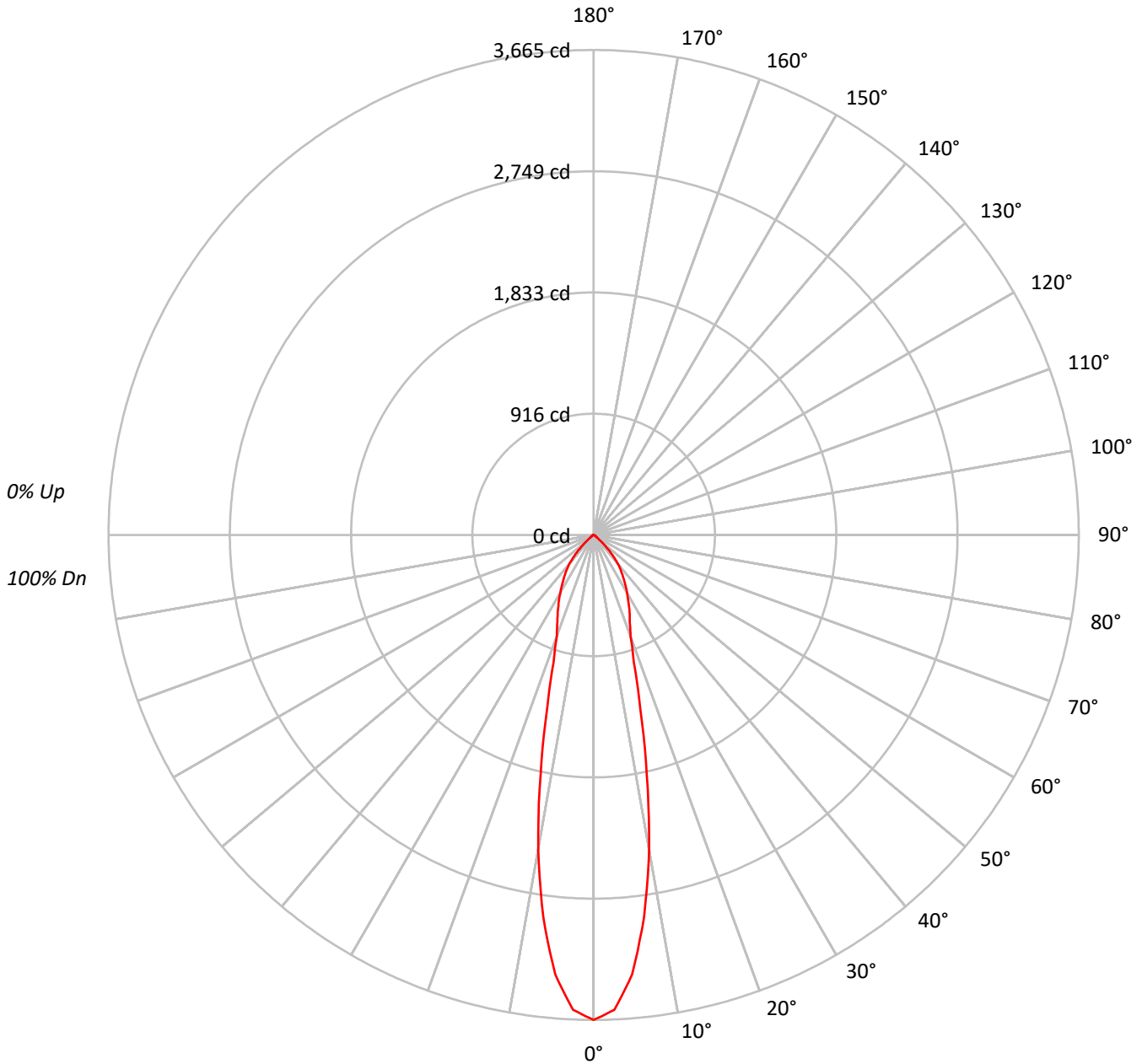
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P640962

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 1200LM - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P640962

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 1200LM - 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	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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94					94			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88					88			
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83					83			
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77					77			
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73					73			
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69					69			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	66	65					65			
8	82	73	68	64	81	73	68	64	72	67	64	71	67	63	70	66	63	62					62			
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59					59			
10	76	67	61	58	75	66	61	58	66	61	58	65	61	58	64	60	57	56					56			

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

	0°
0°	289326
5°	264163
10°	193174
15°	110910
20°	68357
25°	55850
30°	45941
35°	37314
40°	29400
45°	17896
50°	5674
55°	2987
60°	2147
65°	1270
70°	623
75°	427
80°	636
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17896 cd/sqm



TEST NUMBER: P640962

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 1200LM - 3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.0	21.1
10°-20°	389.6	28.5
20°-30°	294.9	21.6
30°-40°	242.4	17.7
40°-50°	121.9	8.9
50°-60°	21.7	1.6
60°-70°	7.0	0.5
70°-80°	2.0	0.1
80°-90°	0.6	0.0
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°	972.5	71.1
0°-40°	1214.9	88.8
0°-60°	1358.5	99.3
0°-90°	1368.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1368.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3665	
5°	3334	288
15°	1357	390
25°	641	295
35°	387	242
45°	160	122
55°	22	22
65°	7	7
75°	1	2
85°	0	1
90°	0	



TEST NUMBER: P640962

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 1200LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3665.1
2.5°	3591.8
5°	3333.6
7.5°	2913.9
10°	2409.9
12.5°	1854.3
15°	1357.1
17.5°	1008.0
20°	813.7
22.5°	714.5
25°	641.2
27.5°	569.2
30°	504.0
32.5°	442.9
35°	387.2
37.5°	335.5
40°	285.3
42.5°	218.7
45°	160.3
47.5°	97.8
50°	46.2
52.5°	28.5
55°	21.7
57.5°	17.7
60°	13.6
62.5°	9.5
65°	6.8
67.5°	4.1
70°	2.7
72.5°	2.7
75°	1.4
77.5°	1.4
80°	1.4
82.5°	1.4
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)