

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: P640967

Luminaire Tested: ML5612LSNFL2597FS1E - 593SNB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640967
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 - 600LM - 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

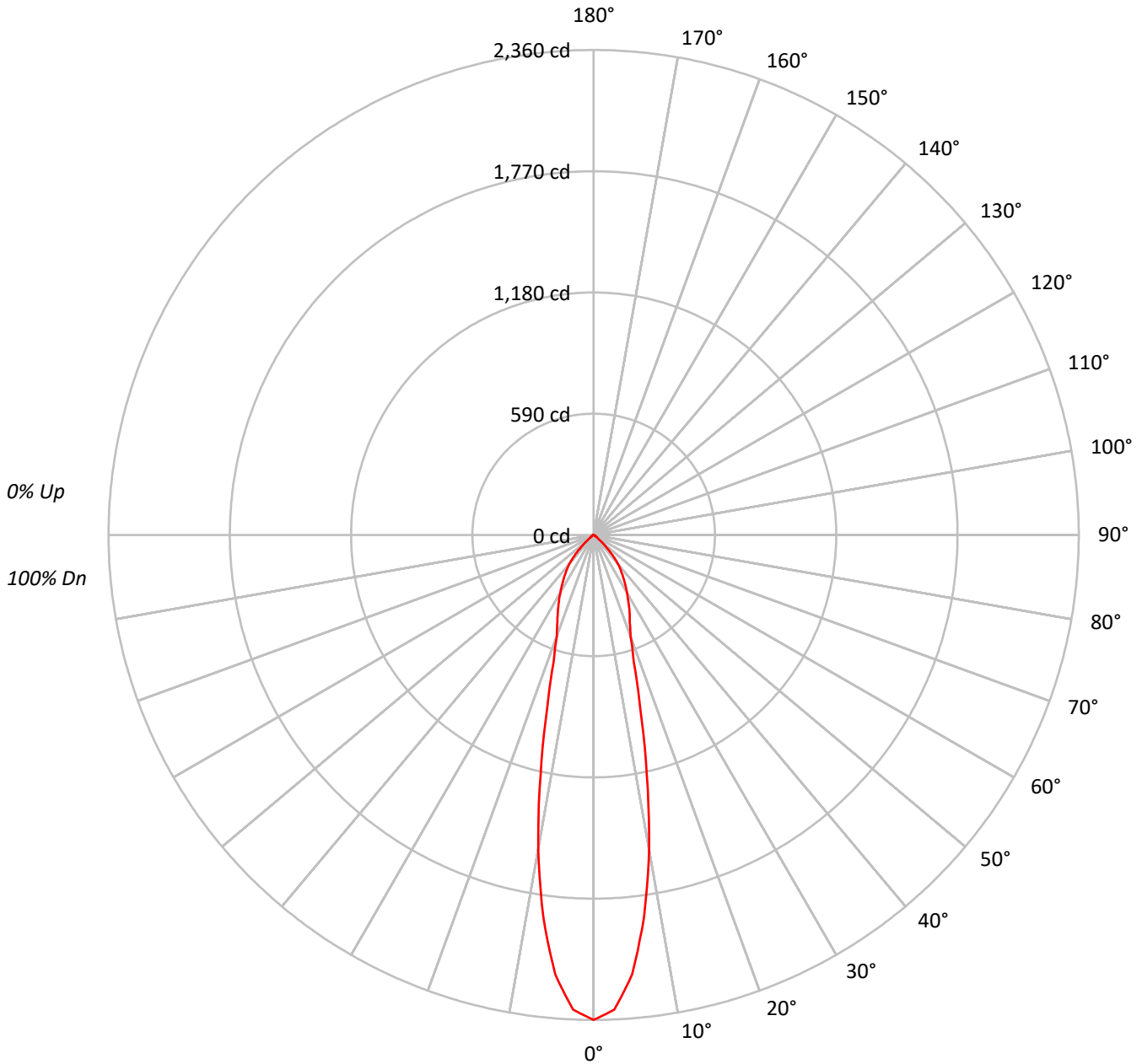
Lumens per Lamp: N/A
Luminaire Lumens: 880.8 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P640967
CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 600LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P640967

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 600LM - 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	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94																			
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88																			
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83																			
4	99	91	86	82	97	90	85	82	88	84	81	86	83	80	84	81	79	77																			
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73																			
6	90	82	76	72	88	81	75	72	79	75	71	78	74	71	77	73	70	69																			
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	66	65																			
8	82	73	68	64	81	73	68	64	72	67	64	71	67	63	70	66	63	62																			
9	79	70	65	61	78	70	64	61	69	64	61	68	63	60	67	63	60	59																			
10	76	67	61	58	75	66	61	58	66	61	58	65	61	58	64	60	57	56																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	186293
5°	170094
10°	124382
15°	71412
20°	44011
25°	35956
30°	29579
35°	24025
40°	18930
45°	11521
50°	3647
55°	1927
60°	1374
65°	822
70°	392
75°	275
80°	409
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11521 cd/sqm



TEST NUMBER: P640967

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 600LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	21.1
10°-20°	250.9	28.5
20°-30°	189.9	21.6
30°-40°	156.0	17.7
40°-50°	78.5	8.9
50°-60°	14.0	1.6
60°-70°	4.5	0.5
70°-80°	1.3	0.1
80°-90°	0.4	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°	626.2	71.1
0°-40°	782.2	88.8
0°-60°	874.7	99.3
0°-90°	880.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	880.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2360	
5°	2146	185
15°	874	251
25°	413	190
35°	249	156
45°	103	78
55°	14	14
65°	4	4
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P640967

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 600LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	2359.9
2.5°	2312.6
5°	2146.5
7.5°	1876.2
10°	1551.7
12.5°	1193.9
15°	873.8
17.5°	649.0
20°	523.9
22.5°	460.1
25°	412.8
27.5°	366.5
30°	324.5
32.5°	285.1
35°	249.3
37.5°	216.0
40°	183.7
42.5°	140.8
45°	103.2
47.5°	63.0
50°	29.7
52.5°	18.4
55°	14.0
57.5°	11.4
60°	8.7
62.5°	6.1
65°	4.4
67.5°	2.6
70°	1.7
72.5°	1.7
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.9
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)