

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: P640968

Luminaire Tested: ML5612LSNFL2597FS1E - 593SNB - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640968
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 - 3500K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

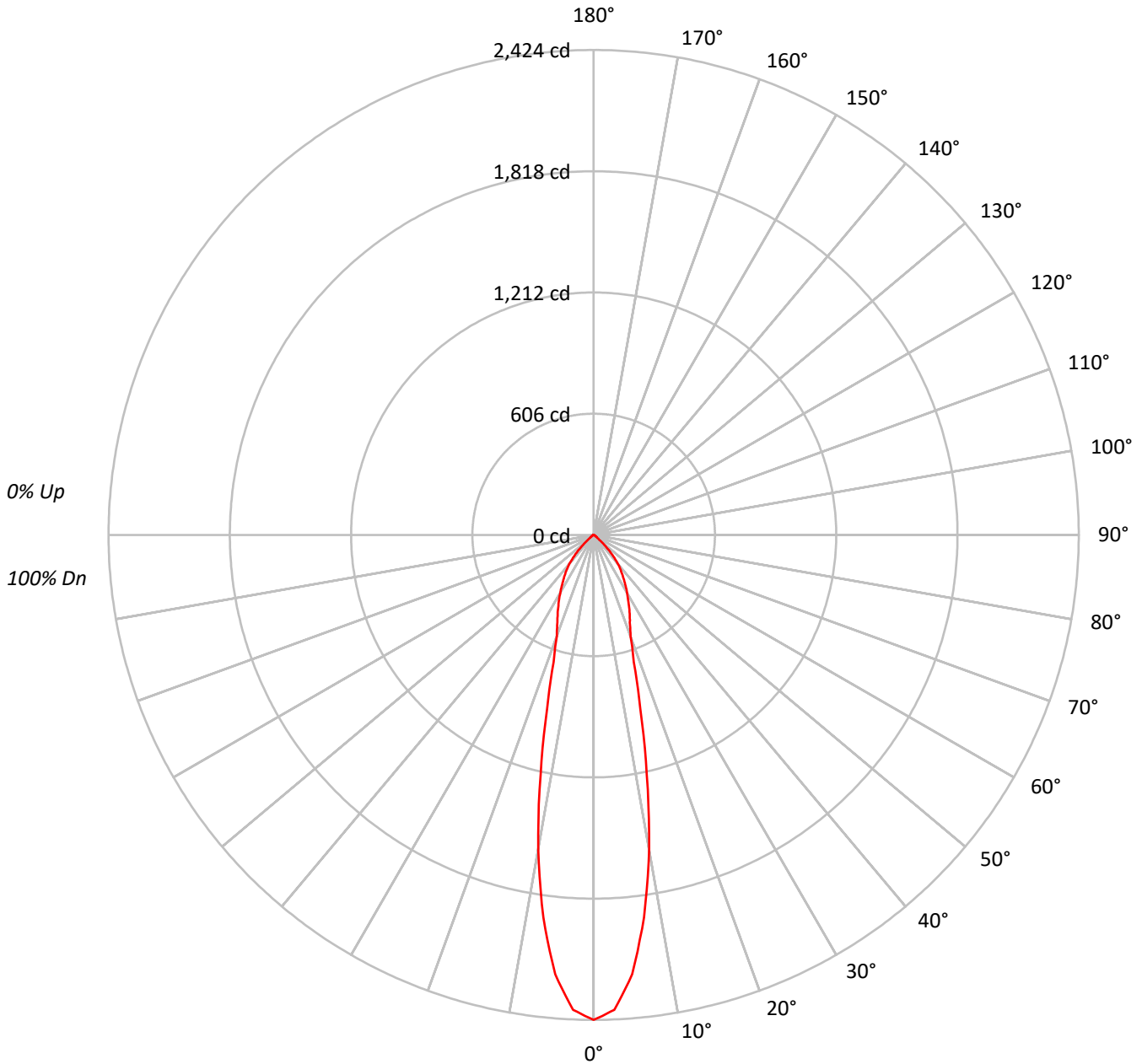
Lumens per Lamp: N/A
Luminaire Lumens: 904.8 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): 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: P640968
CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 600LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P640968

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 600LM - 3500K

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	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°	191361
5°	174722
10°	127765
15°	73357
20°	45213
25°	36940
30°	30381
35°	24680
40°	19446
45°	11834
50°	3746
55°	1982
60°	1421
65°	841
70°	415
75°	275
80°	409
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11834 cd/sqm



TEST NUMBER: P640968

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 600LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	21.1
10°-20°	257.7	28.5
20°-30°	195.0	21.6
30°-40°	160.3	17.7
40°-50°	80.6	8.9
50°-60°	14.4	1.6
60°-70°	4.6	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°	643.2	71.1
0°-40°	803.5	88.8
0°-60°	898.5	99.3
0°-90°	904.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	904.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2424	
5°	2205	190
15°	898	258
25°	424	195
35°	256	160
45°	106	81
55°	14	14
65°	4	5
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P640968

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 600LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2424.1
2.5°	2375.6
5°	2204.9
7.5°	1927.2
10°	1593.9
12.5°	1226.4
15°	897.6
17.5°	666.7
20°	538.2
22.5°	472.6
25°	424.1
27.5°	376.5
30°	333.3
32.5°	292.9
35°	256.1
37.5°	221.9
40°	188.7
42.5°	144.7
45°	106.0
47.5°	64.7
50°	30.5
52.5°	18.9
55°	14.4
57.5°	11.7
60°	9.0
62.5°	6.3
65°	4.5
67.5°	2.7
70°	1.8
72.5°	1.8
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)