

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: P640975

Luminaire Tested: ML5612LSNFL2597FS1E - 593SNB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640975
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 - 900LM - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

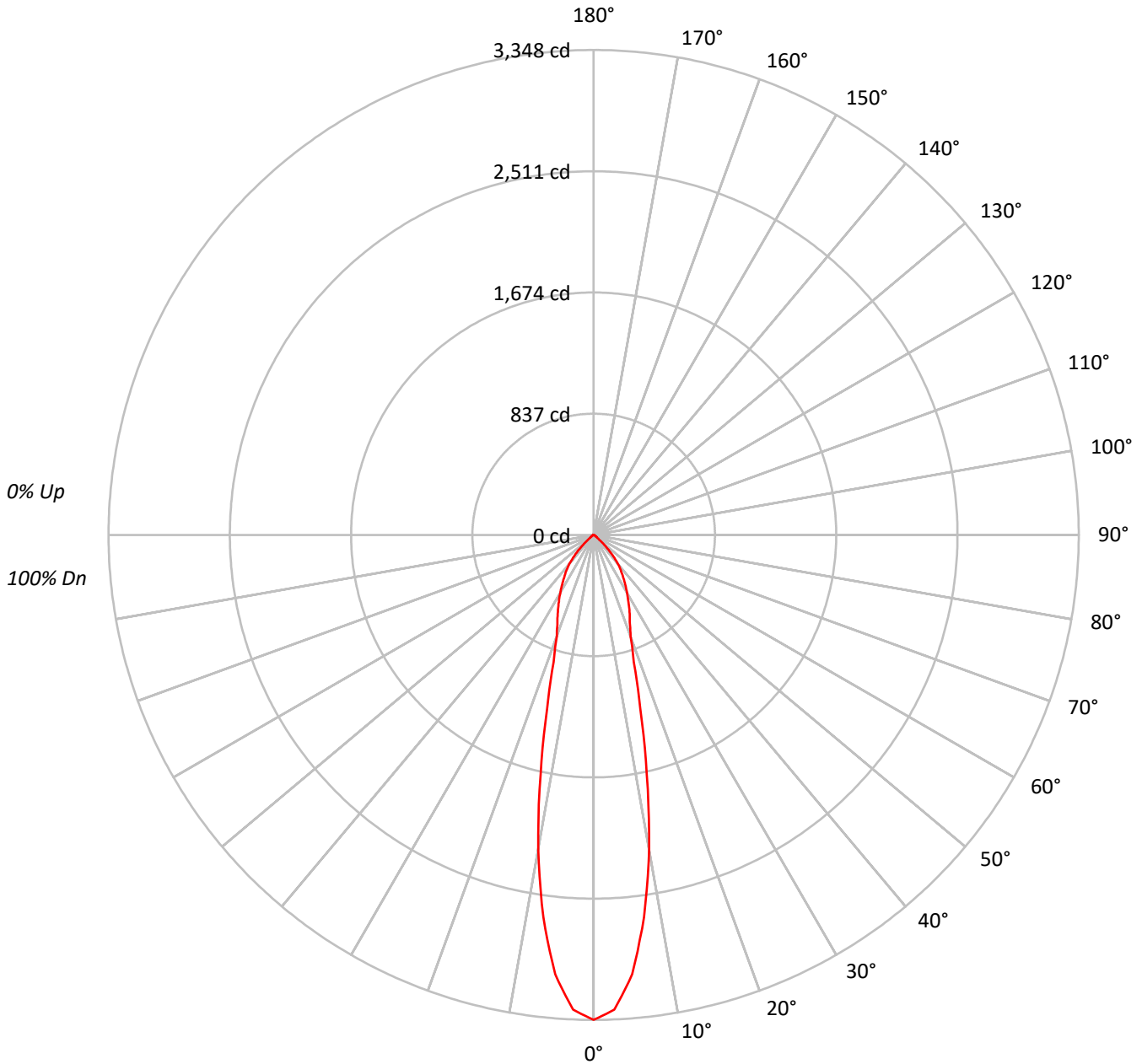
Lumens per Lamp: N/A
Luminaire Lumens: 1249.4 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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: P640975
CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P640975

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 900LM - 5000K

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	78			
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°	264263
5°	241277
10°	176437
15°	101299
20°	62434
25°	51007
30°	41958
35°	34076
40°	26855
45°	16344
50°	5183
55°	2739
60°	1958
65°	1158
70°	577
75°	366
80°	546
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16344 cd/sqm



TEST NUMBER: P640975

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.1	21.1
10°-20°	355.9	28.5
20°-30°	269.3	21.6
30°-40°	221.4	17.7
40°-50°	111.3	8.9
50°-60°	19.8	1.6
60°-70°	6.4	0.5
70°-80°	1.8	0.1
80°-90°	0.5	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°	888.3	71.1
0°-40°	1109.6	88.8
0°-60°	1240.8	99.3
0°-90°	1249.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1249.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3348	
5°	3045	263
15°	1240	356
25°	586	269
35°	354	221
45°	146	111
55°	20	20
65°	6	6
75°	1	2
85°	0	0
90°	0	



TEST NUMBER: P640975

CATALOG NUMBER: ML5612LSNFL2597FS1E - 593SNB - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	3347.6
2.5°	3280.6
5°	3044.8
7.5°	2661.4
10°	2201.1
12.5°	1693.6
15°	1239.5
17.5°	920.6
20°	743.2
22.5°	652.6
25°	585.6
27.5°	519.9
30°	460.3
32.5°	404.5
35°	353.6
37.5°	306.5
40°	260.6
42.5°	199.8
45°	146.4
47.5°	89.3
50°	42.2
52.5°	26.1
55°	19.9
57.5°	16.1
60°	12.4
62.5°	8.7
65°	6.2
67.5°	3.7
70°	2.5
72.5°	2.5
75°	1.2
77.5°	1.2
80°	1.2
82.5°	1.2
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)