

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: P641149

Luminaire Tested: ML5612LSNFL2597FS1E - 693SNB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641149
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSNFL2597FS1E - 693SNB - 600LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

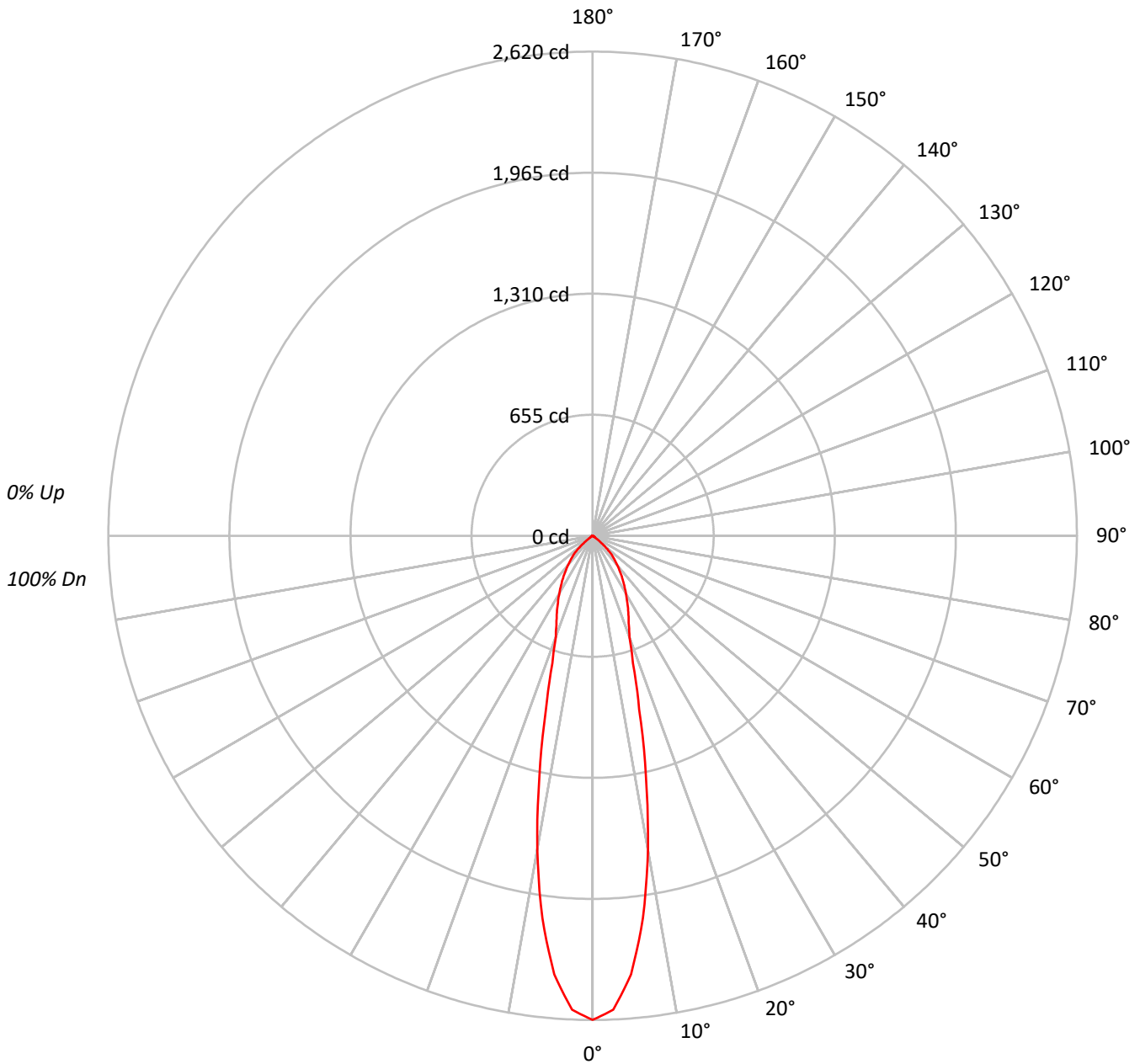
Lumens per Lamp: N/A
Luminaire Lumens: 1006.4 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P641149
CATALOG NUMBER: ML5612LSNFL2597FS1E - 693SNB - 600LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641149

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693SNB - 600LM - 4000K

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	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94			
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88			
3	103	97	92	88	101	96	91	88	93	89	86	90	87	85	88	86	84	82			
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77			
5	94	86	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72			
6	89	81	75	71	88	80	75	71	78	74	70	77	73	70	76	72	69	68			
7	85	76	71	67	84	76	70	66	74	70	66	73	69	66	72	68	65	64			
8	82	73	67	63	80	72	67	63	71	66	63	70	66	62	69	65	62	61			
9	78	69	63	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58			
10	75	66	60	57	74	65	60	57	65	60	57	64	59	56	63	59	56	55			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	143601
5°	131069
10°	95957
15°	55278
20°	33988
25°	27643
30°	22814
35°	18685
40°	14864
45°	11459
50°	6098
55°	1567
60°	954
65°	506
70°	160
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11459 cd/sqm



TEST NUMBER: P641149

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693SNB - 600LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	20.5
10°-20°	279.4	27.8
20°-30°	210.6	20.9
30°-40°	174.3	17.3
40°-50°	109.0	10.8
50°-60°	22.4	2.2
60°-70°	4.0	0.4
70°-80°	0.7	0.1
80°-90°	0.0	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°	696.0	69.2
0°-40°	870.3	86.5
0°-60°	1001.7	99.5
0°-90°	1006.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1006.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2620	
5°	2382	206
15°	974	279
25°	457	211
35°	279	174
45°	148	109
55°	16	22
65°	4	4
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P641149

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693SNB - 600LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	2619.5
2.5°	2567.3
5°	2381.8
7.5°	2087.1
10°	1723.8
12.5°	1329.5
15°	974.0
17.5°	723.7
20°	582.6
22.5°	510.2
25°	457.0
27.5°	406.8
30°	360.4
32.5°	317.9
35°	279.2
37.5°	240.6
40°	207.7
42.5°	175.9
45°	147.8
47.5°	107.3
50°	71.5
52.5°	33.8
55°	16.4
57.5°	11.6
60°	8.7
62.5°	5.8
65°	3.9
67.5°	1.9
70°	1.0
72.5°	1.0
75°	0.0
77.5°	1.0
80°	0.0
82.5°	0.0
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)