

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: P641142

Luminaire Tested: ML5612LSNFL2597FS1E - 693SNB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641142
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 - 1200LM - 3000K
Description: ML56 RR, 25D TIR OPTIC, 6" SATIN NICKLE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1414.2 lumens
Efficiency: N/A
Efficacy: 85.7 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

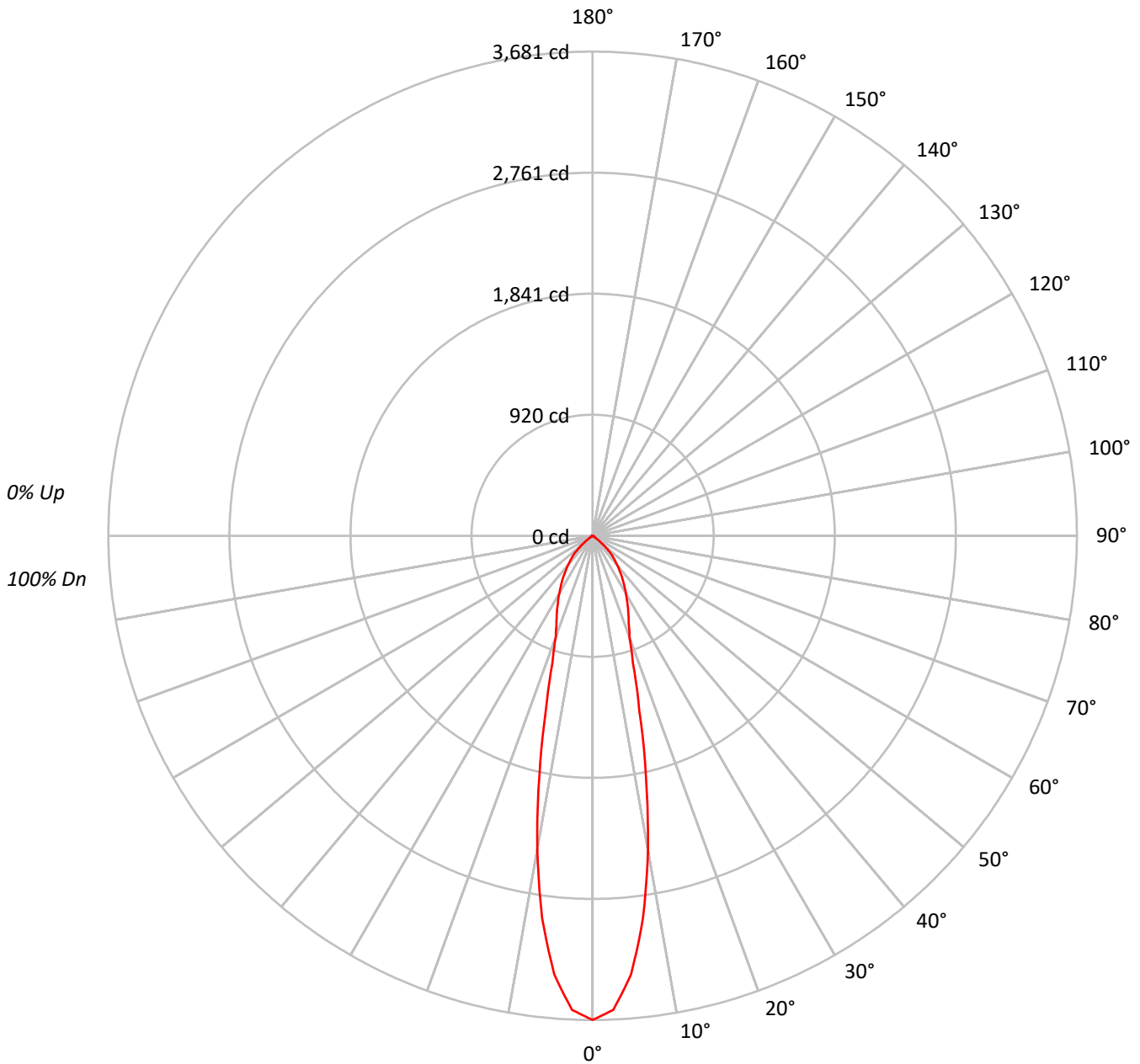
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641142

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693SNB - 1200LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641142

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693SNB - 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	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°	201788
5°	184178
10°	134839
15°	77674
20°	47762
25°	38845
30°	32056
35°	26261
40°	20889
45°	16102
50°	8571
55°	2208
60°	1338
65°	700
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16102 cd/sqm



TEST NUMBER: P641142

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693SNB - 1200LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.5	20.5
10°-20°	392.6	27.8
20°-30°	296.0	20.9
30°-40°	244.9	17.3
40°-50°	153.2	10.8
50°-60°	31.5	2.2
60°-70°	5.6	0.4
70°-80°	0.9	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°	978.0	69.2
0°-40°	1223.0	86.5
0°-60°	1407.6	99.5
0°-90°	1414.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1414.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3681	
5°	3347	290
15°	1369	393
25°	642	296
35°	392	245
45°	208	153
55°	23	31
65°	5	6
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P641142

CATALOG NUMBER: ML5612LSNFL2597FS1E - 693SNB - 1200LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	3680.9
2.5°	3607.6
5°	3346.9
7.5°	2932.8
10°	2422.3
12.5°	1868.3
15°	1368.6
17.5°	1017.0
20°	818.7
22.5°	716.9
25°	642.2
27.5°	571.6
30°	506.4
32.5°	446.7
35°	392.4
37.5°	338.1
40°	291.9
42.5°	247.1
45°	207.7
47.5°	150.7
50°	100.5
52.5°	47.5
55°	23.1
57.5°	16.3
60°	12.2
62.5°	8.1
65°	5.4
67.5°	2.7
70°	1.4
72.5°	1.4
75°	0.0
77.5°	1.4
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)