

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: P642174

Luminaire Tested: ML5612LSWFL5597FS1E - 693BB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-64)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 693BB - 900LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" BLACK BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1370.5 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

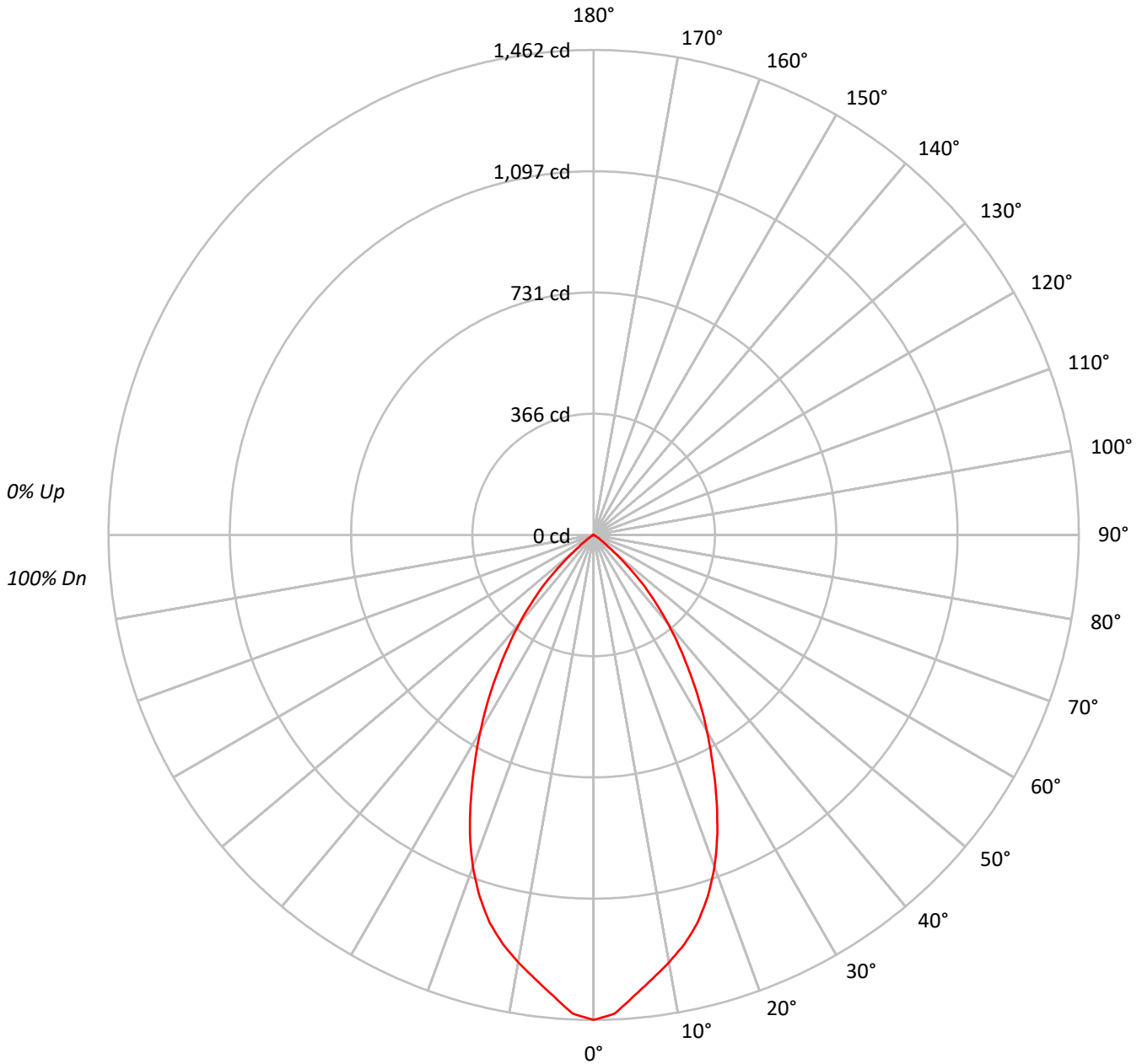
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P642174

CATALOG NUMBER: ML5612LSWFL5597FS1E - 693BB - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P642174

CATALOG NUMBER: ML5612LSWFL5597FS1E - 693BB - 900LM - 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			100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86			86
3	101	95	90	85	99	93	89	85	91	87	83	88	85	82	86	83	81	79			79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73			73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58			58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54			54
9	73	63	57	53	72	62	56	52	61	56	52	61	56	52	60	55	52	50			50
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47			47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80142
5°	76761
10°	72817
15°	68672
20°	62119
25°	52920
30°	43209
35°	33636
40°	24868
45°	16164
50°	6669
55°	2495
60°	1085
65°	156
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16164 cd/sqm



TEST NUMBER: P642174

CATALOG NUMBER: ML5612LSWFL5597FS1E - 693BB - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	9.5
10°-20°	336.9	24.6
20°-30°	399.6	29.2
30°-40°	314.9	23.0
40°-50°	158.2	11.5
50°-60°	28.0	2.0
60°-70°	2.4	0.2
70°-80°	0.0	0.0
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°	867.0	63.3
0°-40°	1181.9	86.2
0°-60°	1368.2	99.8
0°-90°	1370.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1370.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1462	
5°	1395	131
15°	1210	337
25°	875	400
35°	503	315
45°	208	158
55°	26	28
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P642174

CATALOG NUMBER: ML5612LSWFL5597FS1E - 693BB - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1461.9
2.5°	1444.6
5°	1394.9
7.5°	1350.3
10°	1308.1
12.5°	1263.4
15°	1210.0
17.5°	1143.0
20°	1064.8
22.5°	974.2
25°	874.9
27.5°	775.7
30°	682.6
32.5°	592.0
35°	502.6
37.5°	422.0
40°	347.5
42.5°	275.5
45°	208.5
47.5°	135.3
50°	78.2
52.5°	41.0
55°	26.1
57.5°	16.1
60°	9.9
62.5°	3.7
65°	1.2
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
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)