

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: P641921

Luminaire Tested: ML5612LSWFL5597FS1E - 591WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 591WB - 1200LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1489.8 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

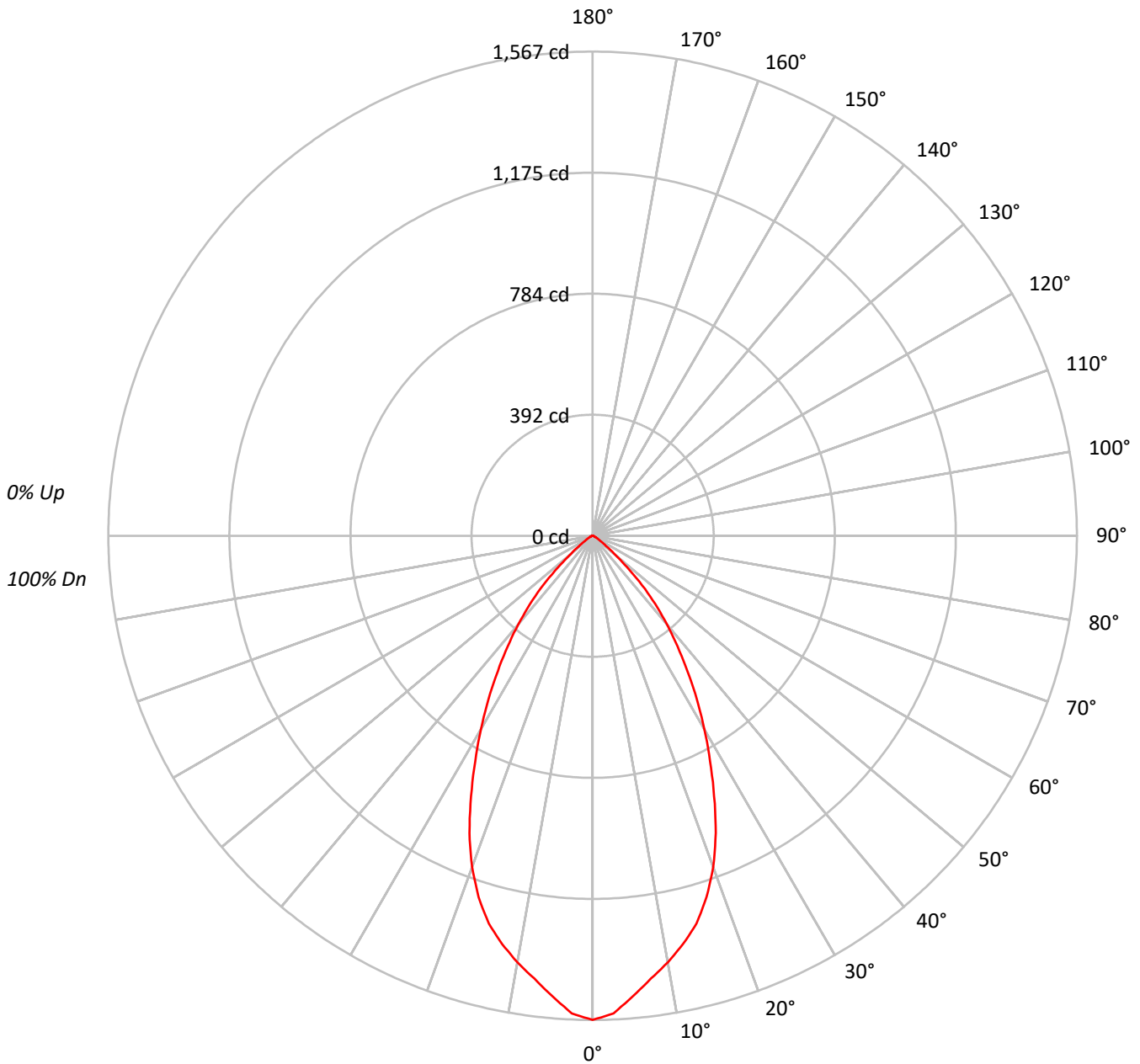
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641921

CATALOG NUMBER: ML5612LSWFL5597FS1E - 591WB - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641921

CATALOG NUMBER: ML5612LSWFL5597FS1E - 591WB - 1200LM - 2700K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93																
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85			85																
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78			78																
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72			72																
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67			67																
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62			62																
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57			57																
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53			53																
9	73	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50			50																
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47			47																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123685
5°	118507
10°	112366
15°	106145
20°	95802
25°	81057
30°	65931
35°	51519
40°	38489
45°	25342
50°	11839
55°	4900
60°	2921
65°	1718
70°	1223
75°	1220
80°	1182
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25342 cd/sqm



TEST NUMBER: P641921

CATALOG NUMBER: ML5612LSWFL5597FS1E - 591WB - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	9.4
10°-20°	361.2	24.2
20°-30°	425.4	28.6
30°-40°	335.2	22.5
40°-50°	173.6	11.7
50°-60°	38.6	2.6
60°-70°	10.1	0.7
70°-80°	4.2	0.3
80°-90°	1.8	0.1
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°	926.4	62.2
0°-40°	1261.6	84.7
0°-60°	1473.7	98.9
0°-90°	1489.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1489.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1567	
5°	1496	140
15°	1299	361
25°	931	425
35°	535	335
45°	227	174
55°	36	39
65°	9	10
75°	4	4
85°	1	2
90°	0	



TEST NUMBER: P641921

CATALOG NUMBER: ML5612LSWFL5597FS1E - 591WB - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1566.8
2.5°	1547.0
5°	1495.5
7.5°	1445.3
10°	1401.8
12.5°	1353.0
15°	1298.8
17.5°	1226.2
20°	1140.4
22.5°	1041.4
25°	930.6
27.5°	822.3
30°	723.3
32.5°	627.0
35°	534.6
37.5°	451.4
40°	373.5
42.5°	299.6
45°	227.0
47.5°	150.5
50°	96.4
52.5°	58.1
55°	35.6
57.5°	23.8
60°	18.5
62.5°	13.2
65°	9.2
67.5°	6.6
70°	5.3
72.5°	4.0
75°	4.0
77.5°	4.0
80°	2.6
82.5°	2.6
85°	1.3
87.5°	1.3
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)