

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P641934

Luminaire Tested: ML5612LSWFL5597FS1E - 591WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641934
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 - 900LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

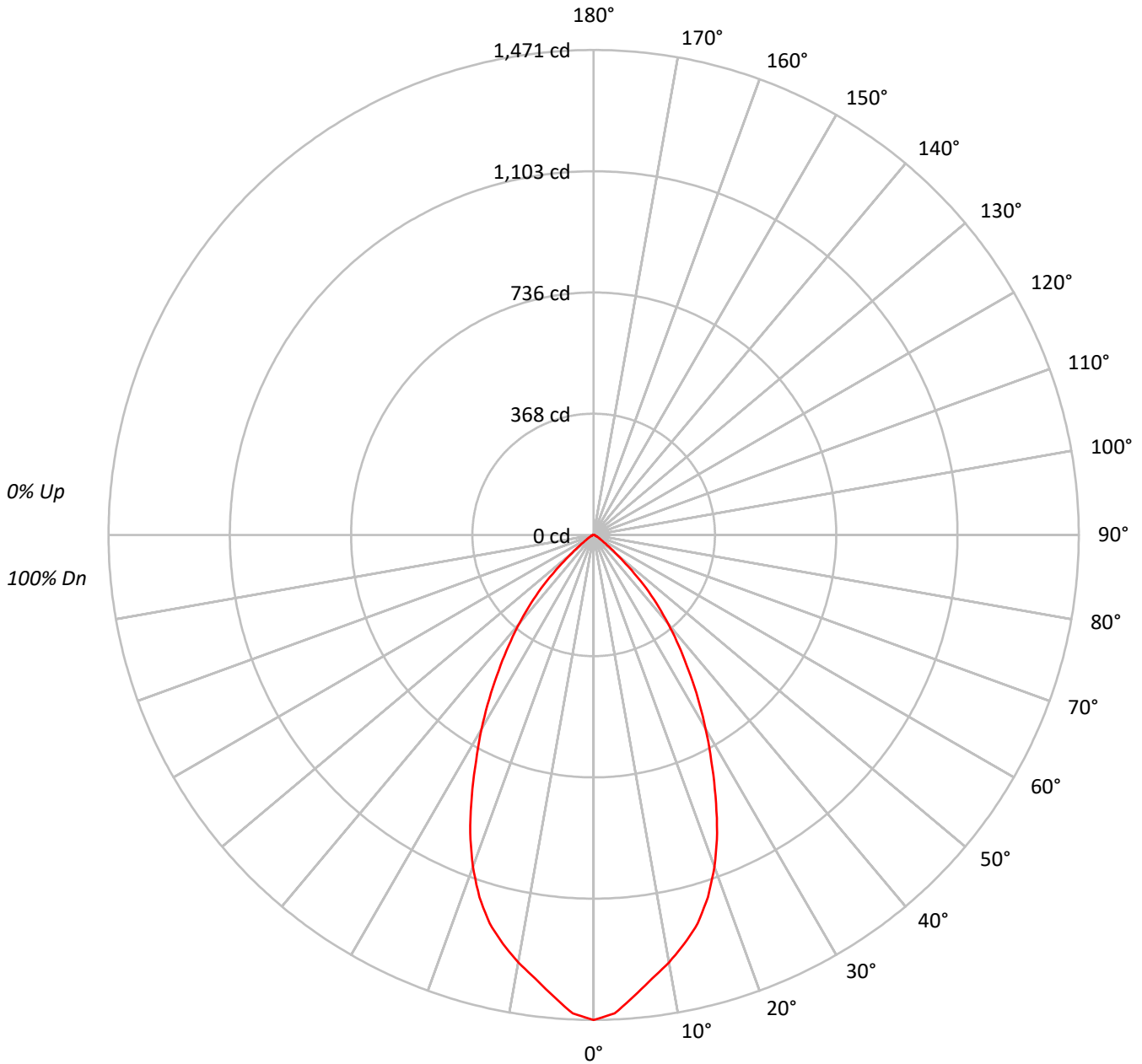
Lumens per Lamp: N/A
Luminaire Lumens: 1399.1 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P641934
CATALOG NUMBER: ML5612LSWFL5597FS1E - 591WB - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641934

CATALOG NUMBER: ML5612LSWFL5597FS1E - 591WB - 900LM - 4000K

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°	116154
5°	111288
10°	105521
15°	99681
20°	89972
25°	76118
30°	61920
35°	48377
40°	36150
45°	23802
50°	11114
55°	4611
60°	2747
65°	1625
70°	1154
75°	1129
80°	1137
85°	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23802 cd/sqm



TEST NUMBER: P641934

CATALOG NUMBER: ML5612LSWFL5597FS1E - 591WB - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	9.4
10°-20°	339.2	24.2
20°-30°	399.5	28.6
30°-40°	314.7	22.5
40°-50°	163.0	11.7
50°-60°	36.2	2.6
60°-70°	9.5	0.7
70°-80°	3.9	0.3
80°-90°	1.7	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°	870.0	62.2
0°-40°	1184.8	84.7
0°-60°	1384.0	98.9
0°-90°	1399.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1399.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1471	
5°	1404	131
15°	1220	339
25°	874	400
35°	502	315
45°	213	163
55°	34	36
65°	9	9
75°	4	4
85°	1	2
90°	0	



TEST NUMBER: P641934

CATALOG NUMBER: ML5612LSWFL5597FS1E - 591WB - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1471.4
2.5°	1452.8
5°	1404.4
7.5°	1357.3
10°	1316.4
12.5°	1270.6
15°	1219.7
17.5°	1151.6
20°	1071.0
22.5°	978.0
25°	873.9
27.5°	772.2
30°	679.3
32.5°	588.8
35°	502.0
37.5°	423.9
40°	350.8
42.5°	281.4
45°	213.2
47.5°	141.3
50°	90.5
52.5°	54.5
55°	33.5
57.5°	22.3
60°	17.4
62.5°	12.4
65°	8.7
67.5°	6.2
70°	5.0
72.5°	3.7
75°	3.7
77.5°	3.7
80°	2.5
82.5°	2.5
85°	1.2
87.5°	1.2
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)