

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: P643739

Luminaire Tested: ML5615LSWFL559FS1E - 591WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643739
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: ML5615LSWFL559FS1E - 591WB - 1200LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1621.8 lumens
Efficiency: N/A
Efficacy: 121.0 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

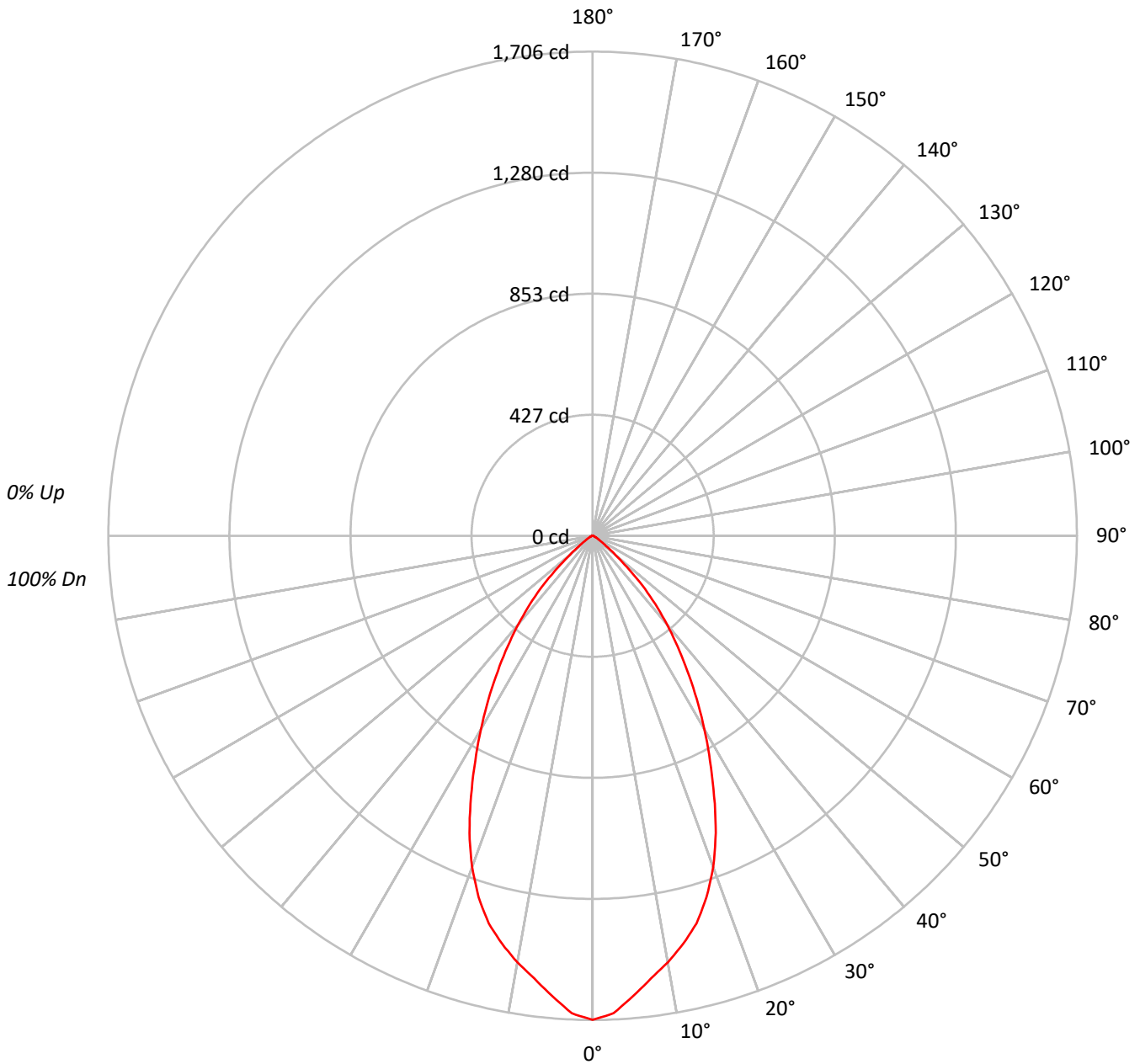
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643739

CATALOG NUMBER: ML5615LSWFL559FS1E - 591WB - 1200LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P643739

CATALOG NUMBER: ML5615LSWFL559FS1E - 591WB - 1200LM - 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°	134642
5°	129015
10°	122322
15°	115552
20°	104295
25°	88234
30°	71774
35°	56087
40°	41910
45°	27597
50°	12883
55°	5340
60°	3173
65°	1887
70°	1316
75°	1312
80°	1318
85°	1268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27597 cd/sqm



TEST NUMBER: P643739

CATALOG NUMBER: ML5615LSWFL559FS1E - 591WB - 1200LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.2	9.4
10°-20°	393.2	24.2
20°-30°	463.1	28.6
30°-40°	364.9	22.5
40°-50°	189.0	11.7
50°-60°	42.0	2.6
60°-70°	11.0	0.7
70°-80°	4.5	0.3
80°-90°	1.9	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°	1008.5	62.2
0°-40°	1373.4	84.7
0°-60°	1604.4	98.9
0°-90°	1621.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1621.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1706	
5°	1628	152
15°	1414	393
25°	1013	463
35°	582	365
45°	247	189
55°	39	42
65°	10	11
75°	4	5
85°	1	2
90°	0	



TEST NUMBER: P643739

CATALOG NUMBER: ML5615LSWFL559FS1E - 591WB - 1200LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1705.6
2.5°	1684.1
5°	1628.1
7.5°	1573.4
10°	1526.0
12.5°	1472.9
15°	1413.9
17.5°	1334.9
20°	1241.5
22.5°	1133.7
25°	1013.0
27.5°	895.2
30°	787.4
32.5°	682.5
35°	582.0
37.5°	491.4
40°	406.7
42.5°	326.2
45°	247.2
47.5°	163.8
50°	104.9
52.5°	63.2
55°	38.8
57.5°	25.9
60°	20.1
62.5°	14.4
65°	10.1
67.5°	7.2
70°	5.7
72.5°	4.3
75°	4.3
77.5°	4.3
80°	2.9
82.5°	2.9
85°	1.4
87.5°	1.4
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)