

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: P643923

Luminaire Tested: ML5615LSWFL559FS1E - 691WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 691WB - 1500LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1858.0 lumens
Efficiency: N/A
Efficacy: 108.7 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

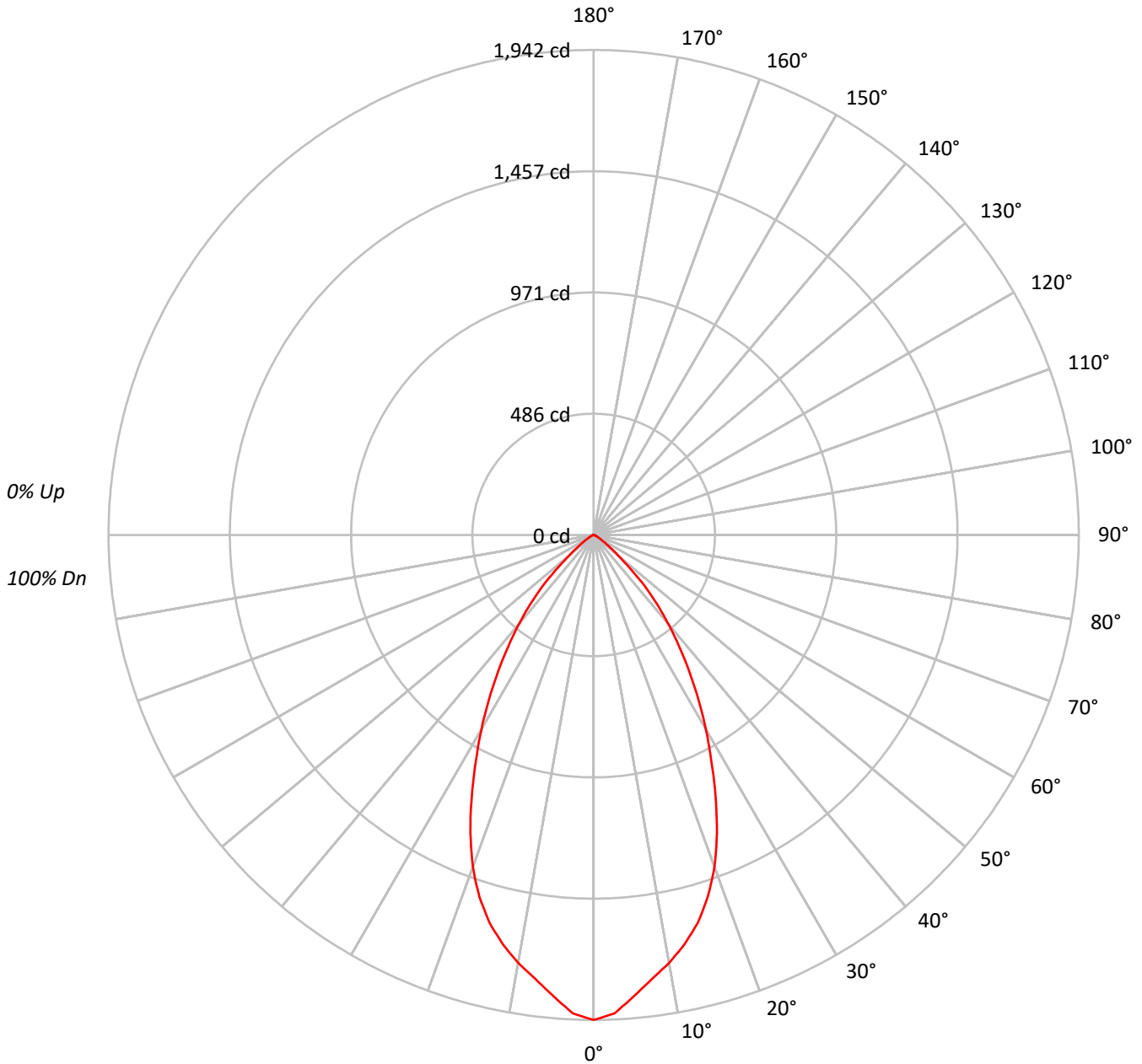
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643923

CATALOG NUMBER: ML5615LSWFL559FS1E - 691WB - 1500LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643923

CATALOG NUMBER: ML5615LSWFL559FS1E - 691WB - 1500LM - 3500K

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	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78			78																
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72			72																
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66			66																
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61			61																
7	81	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57			57																
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	54	53			53																
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49			49																
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	106461
5°	101986
10°	96853
15°	91289
20°	82526
25°	69863
30°	56888
35°	44531
40°	33155
45°	22289
50°	10789
55°	5343
60°	2697
65°	1699
70°	785
75°	699
80°	505
85°	1006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22289 cd/sqm



TEST NUMBER: P643923

CATALOG NUMBER: ML5615LSWFL559FS1E - 691WB - 1500LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.4	9.3
10°-20°	447.8	24.1
20°-30°	527.7	28.4
30°-40°	416.4	22.4
40°-50°	218.5	11.8
50°-60°	55.9	3.0
60°-70°	13.3	0.7
70°-80°	3.5	0.2
80°-90°	1.5	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°	1148.9	61.8
0°-40°	1565.3	84.2
0°-60°	1839.7	99.0
0°-90°	1858.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1942	
5°	1853	173
15°	1608	448
25°	1155	528
35°	665	416
45°	288	219
55°	56	56
65°	13	13
75°	3	3
85°	2	2
90°	0	



TEST NUMBER: P643923

CATALOG NUMBER: ML5615LSWFL559FS1E - 691WB - 1500LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1942.0
2.5°	1917.4
5°	1853.3
7.5°	1792.5
10°	1739.9
12.5°	1679.1
15°	1608.5
17.5°	1519.8
20°	1414.6
22.5°	1289.7
25°	1155.0
27.5°	1020.3
30°	898.7
32.5°	778.8
35°	665.4
37.5°	560.3
40°	463.3
42.5°	373.0
45°	287.5
47.5°	192.2
50°	126.5
52.5°	85.4
55°	55.9
57.5°	36.1
60°	24.6
62.5°	18.1
65°	13.1
67.5°	8.2
70°	4.9
72.5°	3.3
75°	3.3
77.5°	3.3
80°	1.6
82.5°	1.6
85°	1.6
87.5°	1.6
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)