

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: P643910

Luminaire Tested: ML5615LSWFL559FS1E - 596WB - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643910
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 596WB - 1500LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2033.6 lumens
Efficiency: N/A
Efficacy: 118.9 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

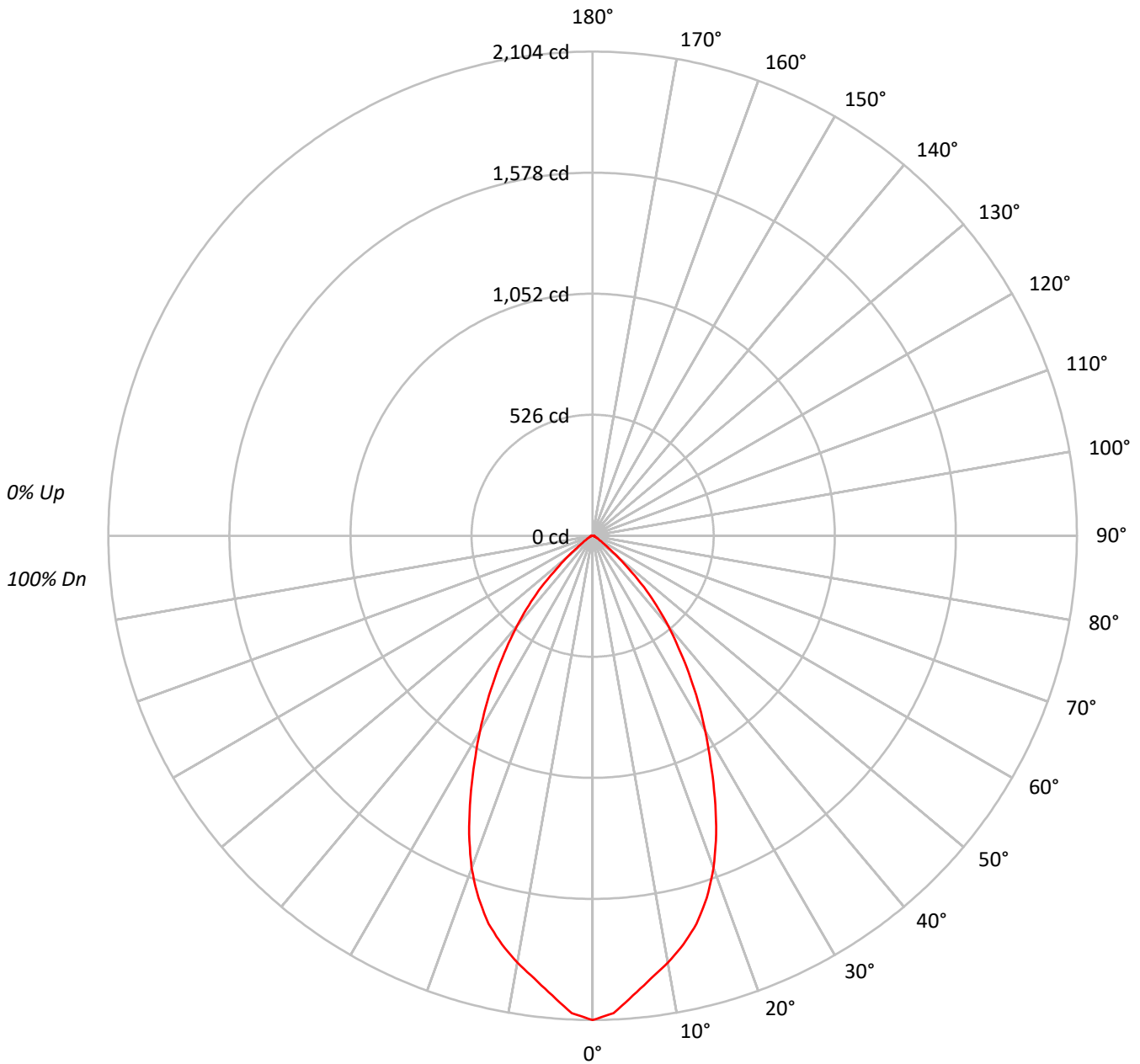
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643910

CATALOG NUMBER: ML5615LSWFL559FS1E - 596WB - 1500LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643910

CATALOG NUMBER: ML5615LSWFL559FS1E - 596WB - 1500LM - 5000K

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	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61			61																
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57			57																
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53			53																
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49																
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	166115
5°	158905
10°	150963
15°	142644
20°	129094
25°	109356
30°	89139
35°	70041
40°	52669
45°	35144
50°	16936
55°	7542
60°	4752
65°	3306
70°	2447
75°	1617
80°	3228
85°	4800

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 35144 cd/sqm



TEST NUMBER: P643910

CATALOG NUMBER: ML5615LSWFL559FS1E - 596WB - 1500LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	9.2
10°-20°	485.8	23.9
20°-30°	573.8	28.2
30°-40°	455.3	22.4
40°-50°	239.9	11.8
50°-60°	58.4	2.9
60°-70°	18.5	0.9
70°-80°	8.4	0.4
80°-90°	5.8	0.3
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°	1247.3	61.3
0°-40°	1702.6	83.7
0°-60°	2000.9	98.4
0°-90°	2033.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2033.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2104	
5°	2005	188
15°	1745	486
25°	1256	574
35°	727	455
45°	315	240
55°	55	58
65°	18	19
75°	5	8
85°	5	6
90°	0	



TEST NUMBER: P643910
CATALOG NUMBER: ML5615LSWFL559FS1E - 596WB - 1500LM - 5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	2104.3
2.5°	2076.1
5°	2005.3
7.5°	1939.9
10°	1883.3
12.5°	1819.6
15°	1745.4
17.5°	1649.9
20°	1536.7
22.5°	1402.3
25°	1255.5
27.5°	1110.5
30°	977.9
32.5°	850.6
35°	726.8
37.5°	613.6
40°	511.1
42.5°	410.3
45°	314.8
47.5°	210.4
50°	137.9
52.5°	86.6
55°	54.8
57.5°	38.9
60°	30.1
62.5°	23.0
65°	17.7
67.5°	14.1
70°	10.6
72.5°	8.8
75°	5.3
77.5°	8.8
80°	7.1
82.5°	7.1
85°	5.3
87.5°	5.3
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)