

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: P643100

Luminaire Tested: ML5615LSVWFL759FS1E - 592W - 1500LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643100
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 592W - 1500LM - 5000K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1906.3 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

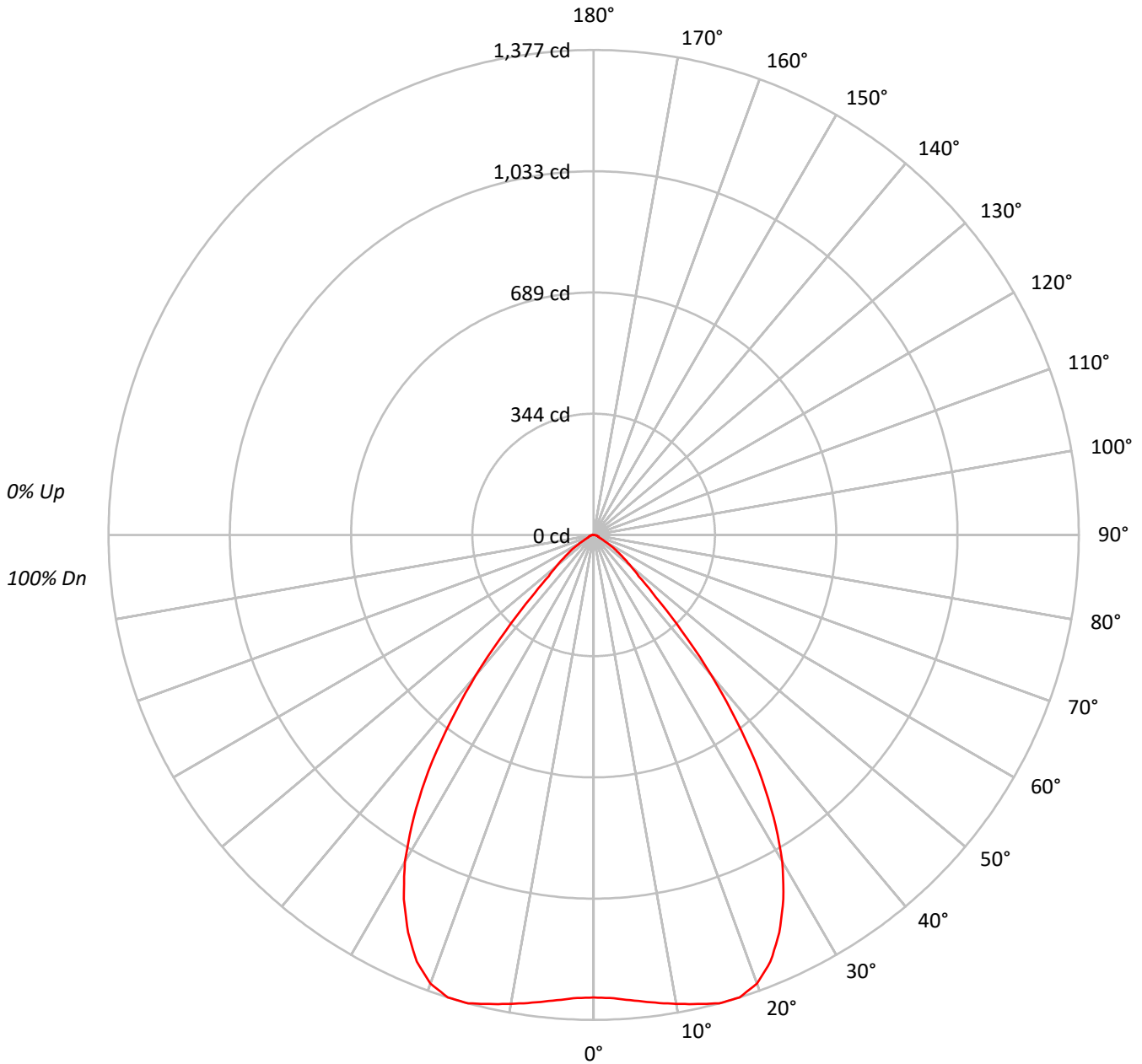
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643100

CATALOG NUMBER: ML5615LSVWFL759FS1E - 592W - 1500LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643100

CATALOG NUMBER: ML5615LSVWFL759FS1E - 592W - 1500LM - 5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	58			58
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54			54
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46			46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	103657
5°	105179
10°	108375
15°	112520
20°	113872
25°	108529
30°	97625
35°	78859
40°	53545
45°	27821
50°	16936
55°	11189
60°	5857
65°	3306
70°	3254
75°	3233
80°	3228
85°	3170

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27821 cd/sqm



TEST NUMBER: P643100

CATALOG NUMBER: ML5615LSVWFL759FS1E - 592W - 1500LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.5	6.7
10°-20°	387.9	20.4
20°-30°	567.4	29.8
30°-40°	500.5	26.3
40°-50°	212.9	11.2
50°-60°	73.9	3.9
60°-70°	21.1	1.1
70°-80°	11.2	0.6
80°-90°	3.9	0.2
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°	1082.8	56.8
0°-40°	1583.4	83.1
0°-60°	1870.1	98.1
0°-90°	1906.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1906.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1313	
5°	1327	127
15°	1377	388
25°	1246	567
35°	818	501
45°	249	213
55°	81	74
65°	18	21
75°	11	11
85°	4	4
90°	0	



TEST NUMBER: P643100

CATALOG NUMBER: ML5615LSVWFL759FS1E - 592W - 1500LM - 5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1313.1
2.5°	1316.7
5°	1327.3
7.5°	1339.6
10°	1352.0
12.5°	1364.4
15°	1376.8
17.5°	1376.8
20°	1355.5
22.5°	1311.4
25°	1246.0
27.5°	1166.4
30°	1071.0
32.5°	950.8
35°	818.3
37.5°	666.3
40°	519.6
42.5°	369.4
45°	249.2
47.5°	173.2
50°	137.9
52.5°	106.0
55°	81.3
57.5°	58.3
60°	37.1
62.5°	26.5
65°	17.7
67.5°	15.9
70°	14.1
72.5°	12.4
75°	10.6
77.5°	8.8
80°	7.1
82.5°	5.3
85°	3.5
87.5°	1.8
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)