

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: P643780

Luminaire Tested: ML5615LSWFL559FS1E - 592SC - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 592SC - 900LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1281.7 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

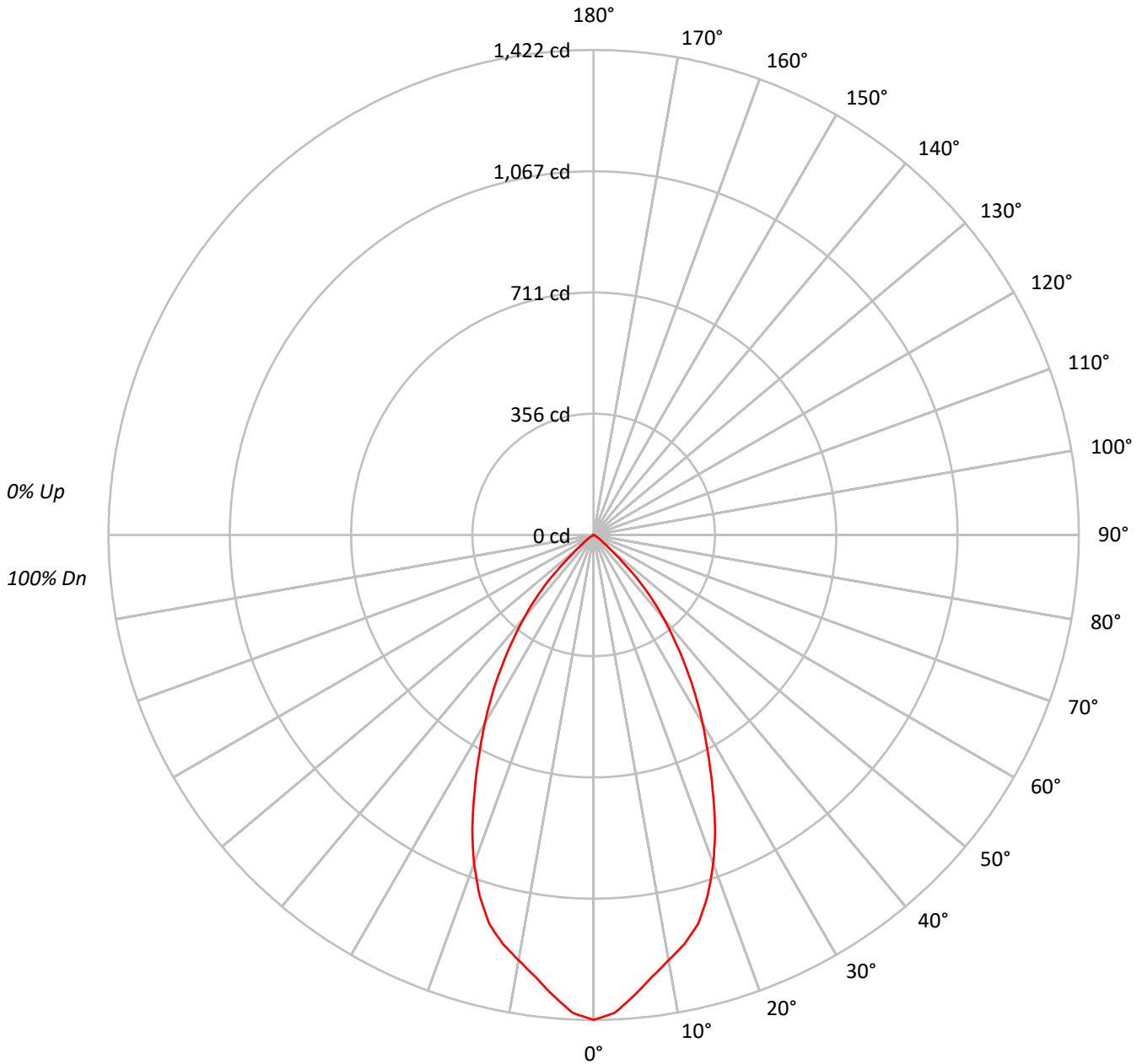
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643780

CATALOG NUMBER: ML5615LSWFL559FS1E - 592SC - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643780

CATALOG NUMBER: ML5615LSWFL559FS1E - 592SC - 900LM - 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			
1	113	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80			
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74			
5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68			
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63			
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59			
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55			
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51			
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	112254
5°	107461
10°	101497
15°	96510
20°	86107
25°	71841
30°	58174
35°	45168
40°	32708
45°	19816
50°	6570
55°	2973
60°	900
65°	205
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19816 cd/sqm



TEST NUMBER: P643780

CATALOG NUMBER: ML5615LSWFL559FS1E - 592SC - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	9.9
10°-20°	327.2	25.5
20°-30°	378.0	29.5
30°-40°	292.6	22.8
40°-50°	134.5	10.5
50°-60°	21.3	1.7
60°-70°	1.5	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	831.8	64.9
0°-40°	1124.4	87.7
0°-60°	1280.2	99.9
0°-90°	1281.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1281.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1422	
5°	1356	127
15°	1181	327
25°	825	378
35°	469	293
45°	178	134
55°	22	21
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P643780

CATALOG NUMBER: ML5615LSWFL559FS1E - 592SC - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1422.0
2.5°	1402.7
5°	1356.1
7.5°	1307.1
10°	1266.2
12.5°	1228.7
15°	1180.9
17.5°	1110.3
20°	1025.0
22.5°	929.5
25°	824.8
27.5°	727.0
30°	638.2
32.5°	552.9
35°	468.7
37.5°	389.1
40°	317.4
42.5°	249.1
45°	177.5
47.5°	97.8
50°	53.5
52.5°	33.0
55°	21.6
57.5°	12.5
60°	5.7
62.5°	2.3
65°	1.1
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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)