

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: P643132

Luminaire Tested: ML5615LSVWFL759FS1E - 593SNB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 593SNB - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1085.1 lumens
Efficiency: N/A
Efficacy: 103.3 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

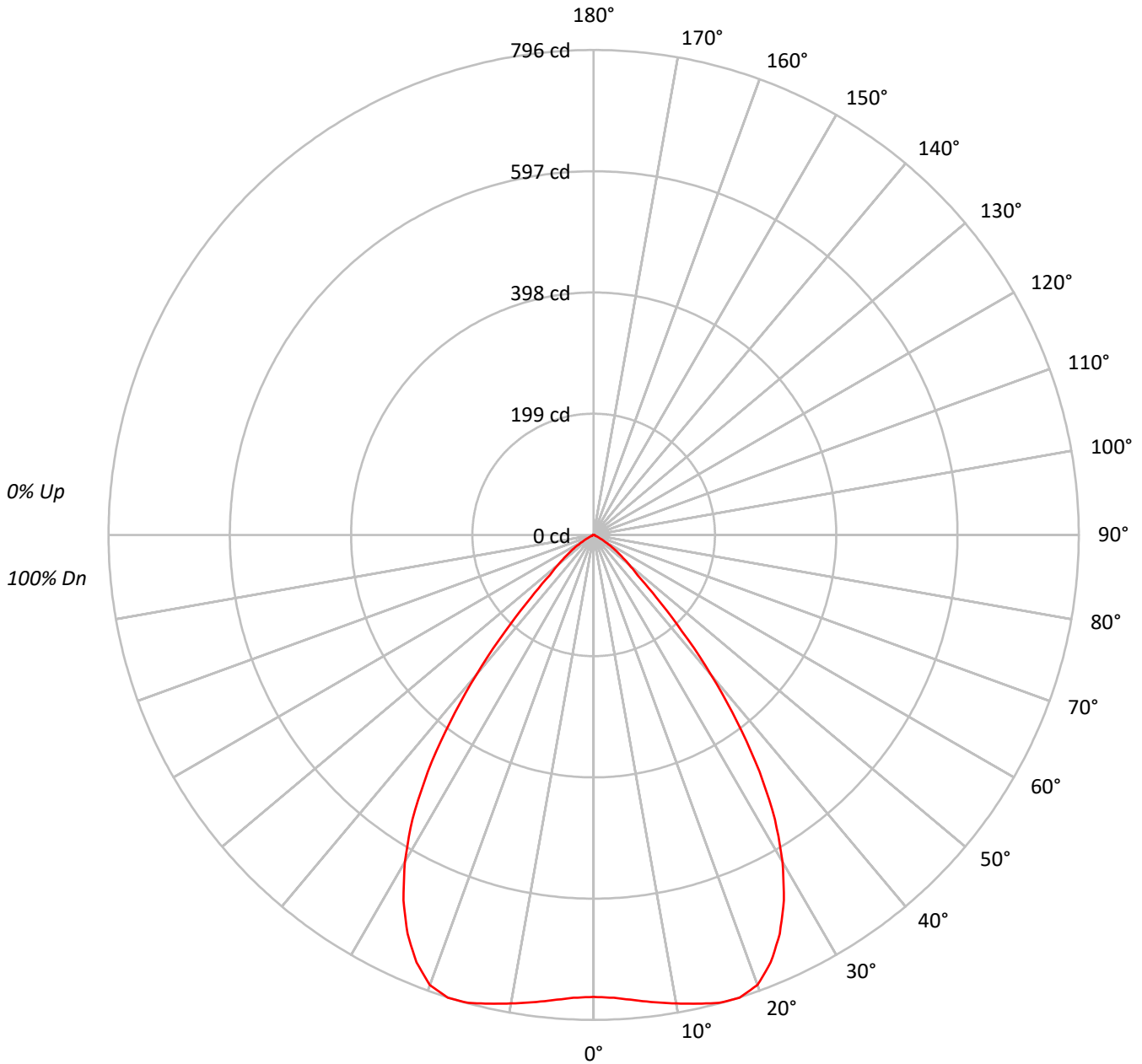
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643132

CATALOG NUMBER: ML5615LSVWFL759FS1E - 593SNB - 900LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P643132

CATALOG NUMBER: ML5615LSVWFL759FS1E - 593SNB - 900LM - 3000K

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	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84			84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77			77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71			71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	74	69	66	65			65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	61	69	64	61	59			59
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55			55
8	75	64	57	53	73	63	57	53	62	57	52	61	56	52	60	55	52	50			50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47			47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	59853
5°	60739
10°	62596
15°	64996
20°	66030
25°	62905
30°	56460
35°	45708
40°	30853
45°	16199
50°	9346
55°	5808
60°	2605
65°	766
70°	485
75°	305
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16199 cd/sqm



TEST NUMBER: P643132

CATALOG NUMBER: ML5615LSVWFL759FS1E - 593SNB - 900LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	6.8
10°-20°	224.3	20.7
20°-30°	328.7	30.3
30°-40°	290.3	26.8
40°-50°	122.6	11.3
50°-60°	38.7	3.6
60°-70°	5.8	0.5
70°-80°	1.1	0.1
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°	626.6	57.7
0°-40°	917.0	84.5
0°-60°	1078.3	99.4
0°-90°	1085.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	758	
5°	766	74
15°	795	224
25°	722	329
35°	474	290
45°	145	123
55°	42	39
65°	4	6
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P643132

CATALOG NUMBER: ML5615LSVWFL759FS1E - 593SNB - 900LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	758.2
2.5°	760.3
5°	766.5
7.5°	773.7
10°	780.9
12.5°	788.1
15°	795.3
17.5°	796.3
20°	786.0
22.5°	759.3
25°	722.2
27.5°	675.9
30°	619.4
32.5°	553.5
35°	474.3
37.5°	386.8
40°	299.4
42.5°	215.0
45°	145.1
47.5°	97.7
50°	76.1
52.5°	57.6
55°	42.2
57.5°	28.8
60°	16.5
62.5°	8.2
65°	4.1
67.5°	2.1
70°	2.1
72.5°	1.0
75°	1.0
77.5°	1.0
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)