

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: P643477

Luminaire Tested: ML5615LSVWFL9FS1E - 593SNB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-99)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 593SNB - 900LM - 3000K
Description: ML56 RR, MILKY 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: 862.5 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

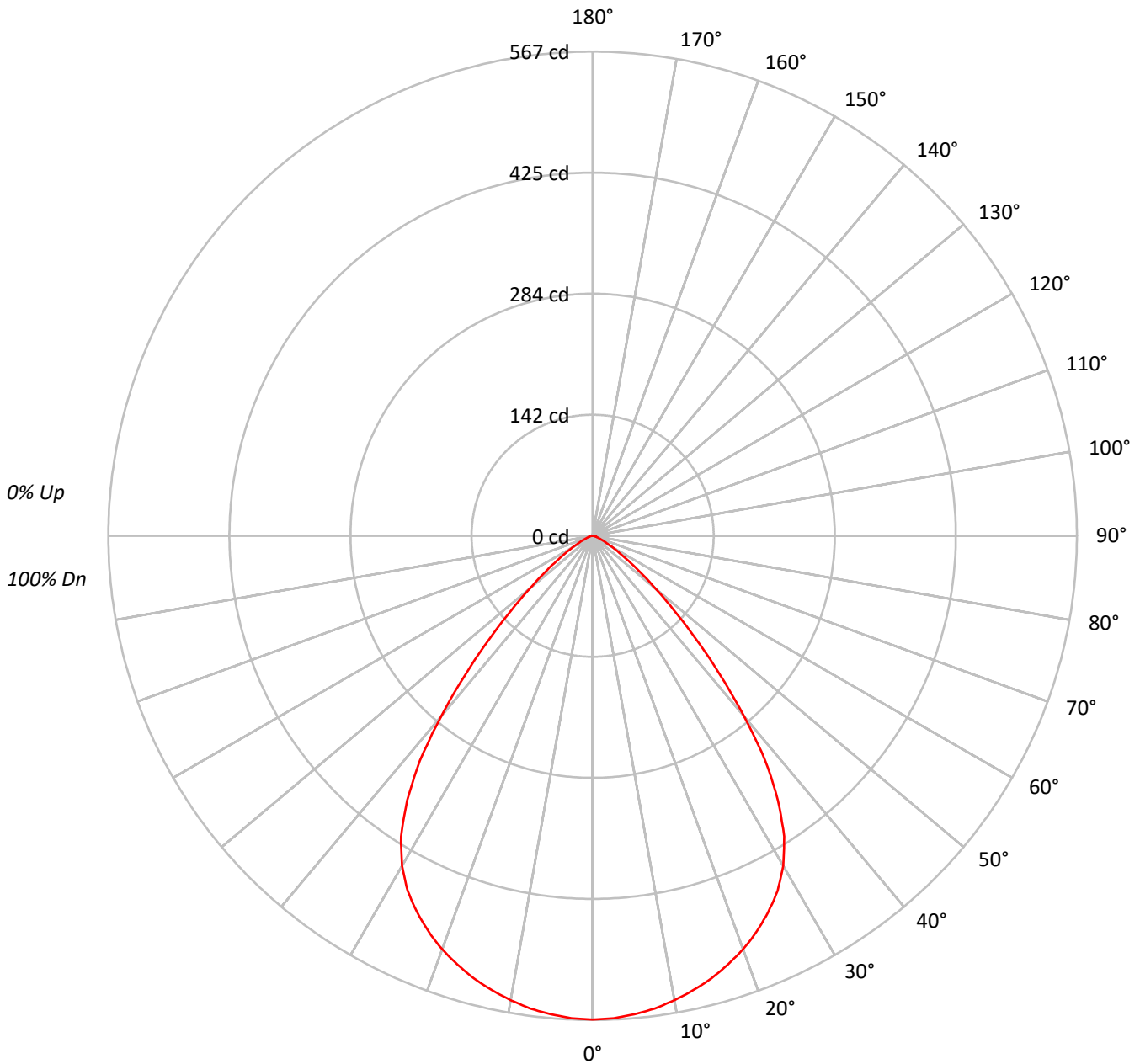
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643477

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593SNB - 900LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P643477

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593SNB - 900LM - 3000K

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																			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82																			
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74																			
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55																			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51																			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																			
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43																			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	44728
5°	44574
10°	44264
15°	43870
20°	43280
25°	42366
30°	40682
35°	36466
40°	28401
45°	19057
50°	11741
55°	7074
60°	4215
65°	2503
70°	1431
75°	1251
80°	955
85°	906

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19057 cd/sqm



TEST NUMBER: P643477

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593SNB - 900LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.4	6.2
10°-20°	151.3	17.5
20°-30°	223.3	25.9
30°-40°	231.8	26.9
40°-50°	134.6	15.6
50°-60°	48.9	5.7
60°-70°	14.2	1.6
70°-80°	4.3	0.5
80°-90°	0.8	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°	428.0	49.6
0°-40°	659.7	76.5
0°-60°	843.2	97.8
0°-90°	862.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	567	
5°	562	53
15°	537	151
25°	486	223
35°	378	232
45°	171	135
55°	51	49
65°	13	14
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P643477

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593SNB - 900LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	566.6
2.5°	565.6
5°	562.5
7.5°	558.4
10°	552.2
12.5°	545.0
15°	536.8
17.5°	526.5
20°	515.2
22.5°	501.8
25°	486.4
27.5°	468.9
30°	446.3
32.5°	417.5
35°	378.4
37.5°	332.2
40°	275.6
42.5°	220.1
45°	170.7
47.5°	128.5
50°	95.6
52.5°	71.0
55°	51.4
57.5°	37.0
60°	26.7
62.5°	18.5
65°	13.4
67.5°	9.3
70°	6.2
72.5°	5.1
75°	4.1
77.5°	3.1
80°	2.1
82.5°	1.0
85°	1.0
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)