

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: P643431

Luminaire Tested: ML5615LSVWFL9FS1E - 592SC - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-94)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 592SC - 900LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" SPECULAR CLEAR TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1011.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.95  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

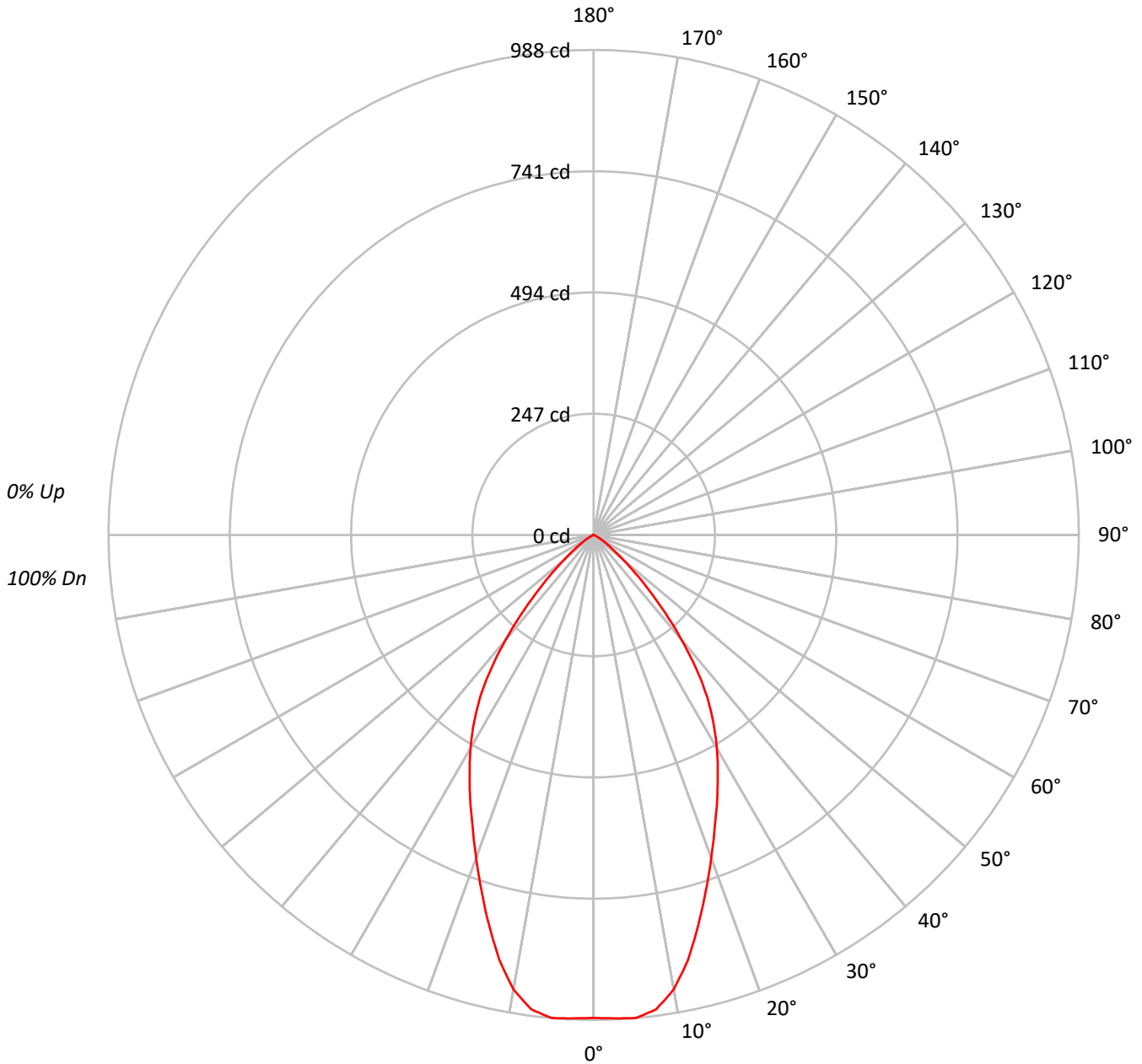
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P643431

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592SC - 900LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P643431  
 CATALOG NUMBER: ML5615LSVWFL9FS1E - 592SC - 900LM - 2700K

**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	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	79	78																			
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71																			
5	90	81	74	69	88	80	74	69	78	73	69	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52																			
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48																			
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	77670
5°	78284
10°	75341
15°	67252
20°	58797
25°	51817
30°	45759
35°	38837
40°	28648
45°	17751
50°	9579
55°	4817
60°	2210
65°	934
70°	462
75°	305
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17751 cd/sqm



TEST NUMBER: P643431

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592SC - 900LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.8	9.2
10°-20°	229.6	22.7
20°-30°	273.5	27.1
30°-40°	247.0	24.4
40°-50°	127.0	12.6
50°-60°	34.5	3.4
60°-70°	5.6	0.6
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°	595.9	58.9
0°-40°	842.9	83.4
0°-60°	1004.3	99.3
0°-90°	1011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1011.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	984	
5°	988	93
15°	823	230
25°	595	274
35°	403	247
45°	159	127
55°	35	34
65°	5	6
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P643431

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592SC - 900LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	983.9
2.5°	985.9
5°	987.9
7.5°	974.9
10°	939.9
12.5°	886.9
15°	822.9
17.5°	759.9
20°	699.9
22.5°	643.9
25°	594.9
27.5°	546.9
30°	502.0
32.5°	454.0
35°	403.0
37.5°	343.0
40°	278.0
42.5°	216.0
45°	159.0
47.5°	114.0
50°	78.0
52.5°	52.0
55°	35.0
57.5°	23.0
60°	14.0
62.5°	8.0
65°	5.0
67.5°	2.0
70°	2.0
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)