

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: P643510

Luminaire Tested: ML5615LSVWFL9FS1E - 593WB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643510  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-97)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 593WB - 900LM - 5000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1101.8 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

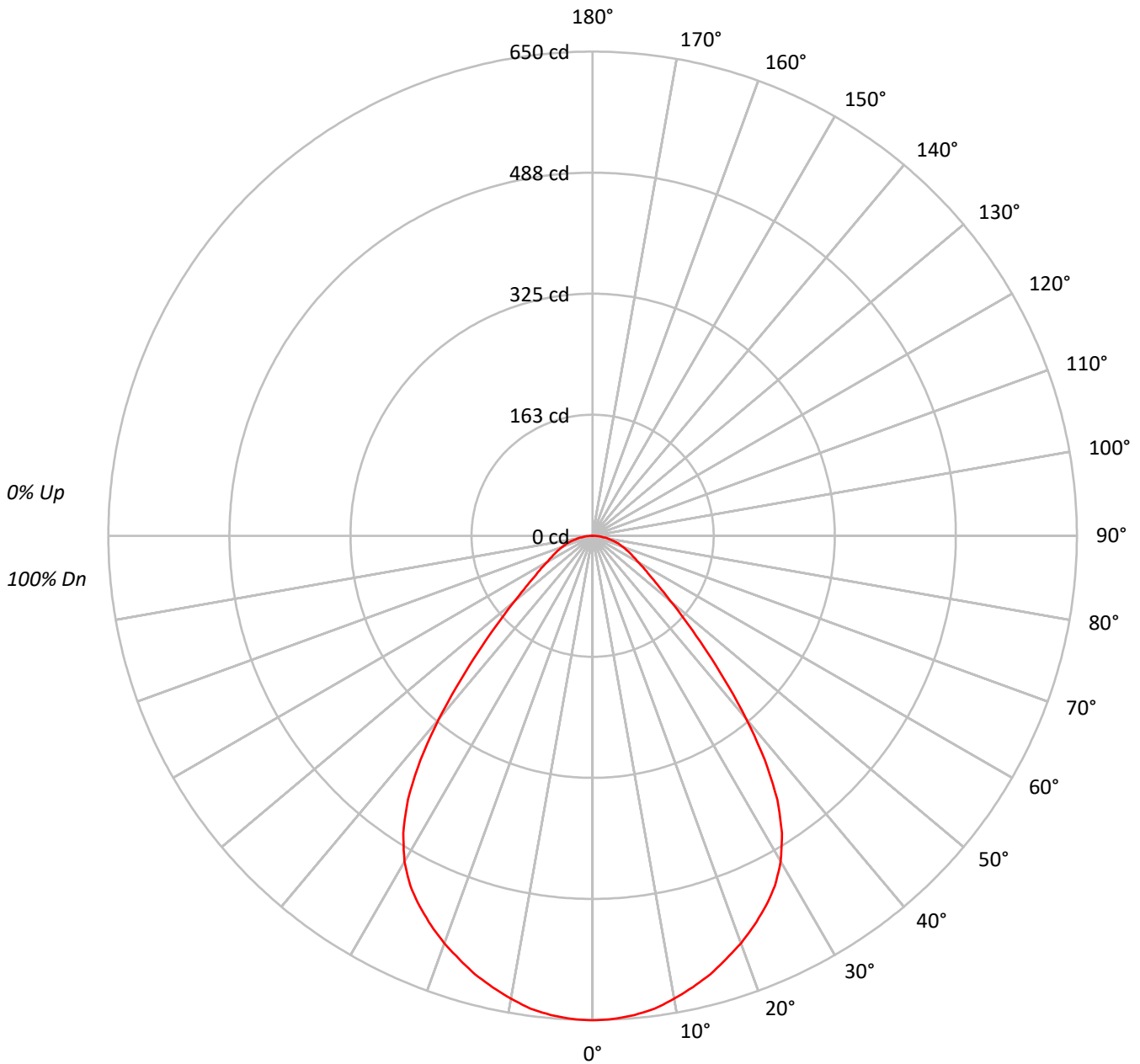
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P643510

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593WB - 900LM - 5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643510

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593WB - 900LM - 5000K

**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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

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

	0°
0°	51343
5°	51183
10°	50588
15°	49812
20°	48909
25°	47836
30°	46023
35°	41641
40°	33048
45°	23489
50°	16751
55°	12992
60°	11131
65°	10404
70°	9971
75°	9699
80°	9319
85°	8242

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23489 cd/sqm



TEST NUMBER: P643510

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593WB - 900LM - 5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	5.6
10°-20°	171.7	15.6
20°-30°	252.3	22.9
30°-40°	264.4	24.0
40°-50°	166.2	15.1
50°-60°	87.4	7.9
60°-70°	55.4	5.0
70°-80°	33.3	3.0
80°-90°	9.9	0.9
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°	485.2	44.0
0°-40°	749.5	68.0
0°-60°	1003.2	91.1
0°-90°	1101.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1101.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	650	
5°	646	61
15°	610	172
25°	549	252
35°	432	264
45°	210	166
55°	94	87
65°	56	55
75°	32	33
85°	9	10
90°	0	



TEST NUMBER: P643510

CATALOG NUMBER: ML5615LSVWFL9FS1E - 593WB - 900LM - 5000K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	650.4
2.5°	649.3
5°	645.9
7.5°	640.2
10°	631.1
12.5°	620.8
15°	609.5
17.5°	595.8
20°	582.2
22.5°	566.3
25°	549.2
27.5°	529.9
30°	504.9
32.5°	473.0
35°	432.1
37.5°	379.8
40°	320.7
42.5°	261.5
45°	210.4
47.5°	168.3
50°	136.4
52.5°	112.6
55°	94.4
57.5°	81.9
60°	70.5
62.5°	62.5
65°	55.7
67.5°	48.9
70°	43.2
72.5°	37.5
75°	31.8
77.5°	25.0
80°	20.5
82.5°	13.6
85°	9.1
87.5°	3.4
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)