

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: P643561

Luminaire Tested: ML5615LSVWFL9FS1E - 596WB - 1500LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-104)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 596WB - 1500LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

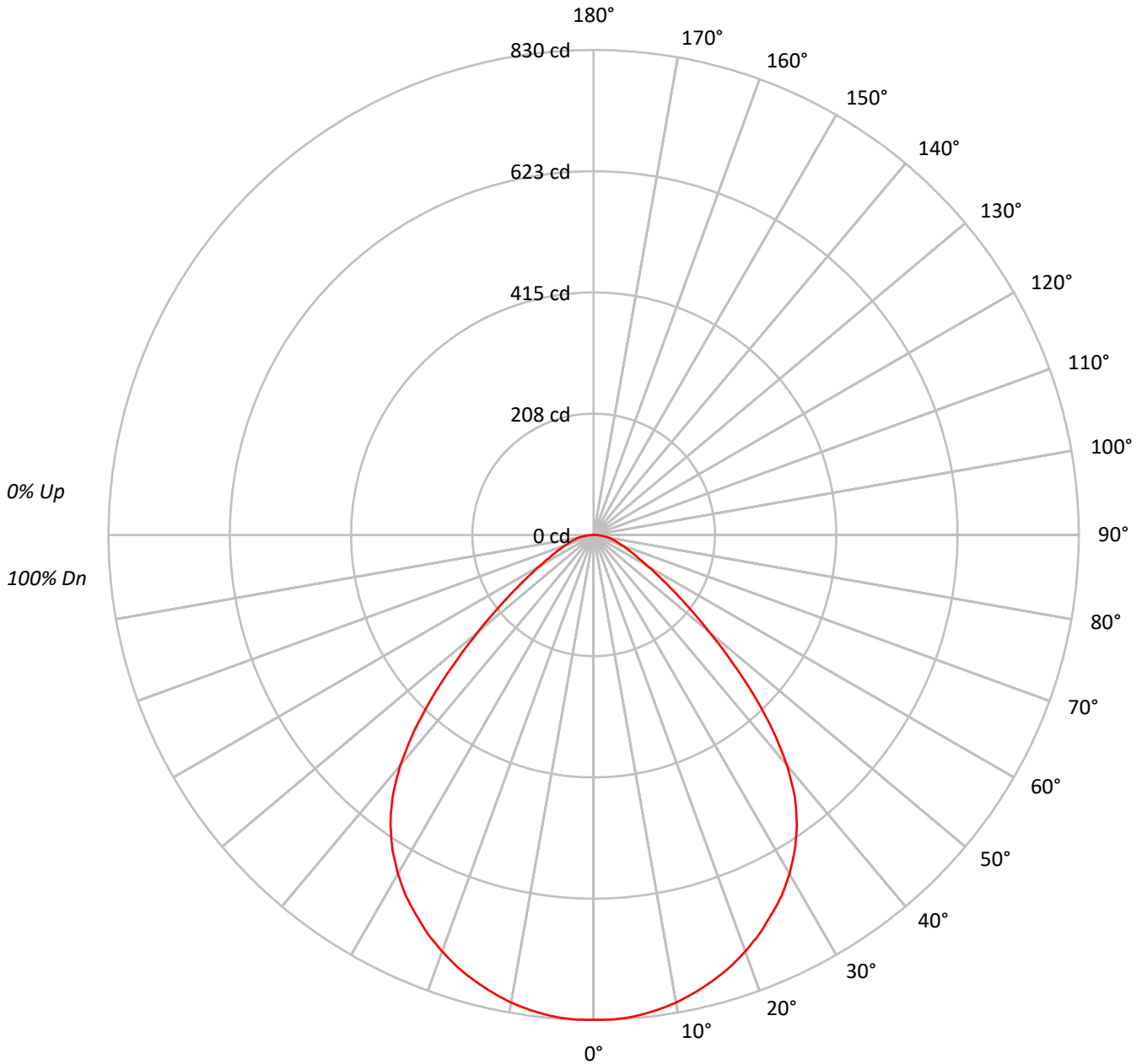
Lumens per Lamp: N/A  
Luminaire Lumens: 1582.9 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.24  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
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: P643561  
CATALOG NUMBER: ML5615LSVWFL9FS1E - 596WB - 1500LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P643561

CATALOG NUMBER: ML5615LSVWFL9FS1E - 596WB - 1500LM - 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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	82	85	82	80	78																			
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72	78	74	71	69																			
4	89	79	71	66	87	77	71	65	75	69	64	73	68	64	71	66	63	61																			
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57	65	60	56	54																			
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49																			
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46	55	50	46	44																			
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42	51	46	42	40																			
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

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

	0°
0°	65513
5°	65518
10°	65153
15°	64522
20°	63711
25°	62539
30°	61054
35°	58409
40°	53009
45°	43204
50°	31685
55°	22668
60°	16925
65°	13636
70°	11840
75°	11377
80°	11320
85°	9873

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 43204 cd/sqm



TEST NUMBER: P643561

CATALOG NUMBER: ML5615LSVWFL9FS1E - 596WB - 1500LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.5	5.0
10°-20°	222.6	14.1
20°-30°	330.7	20.9
30°-40°	375.7	23.7
40°-50°	296.5	18.7
50°-60°	152.6	9.6
60°-70°	74.1	4.7
70°-80°	39.6	2.5
80°-90°	12.7	0.8
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°	631.8	39.9
0°-40°	1007.5	63.6
0°-60°	1456.6	92.0
0°-90°	1582.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	830	
5°	827	78
15°	790	223
25°	718	331
35°	606	376
45°	387	296
55°	165	153
65°	73	74
75°	37	40
85°	11	13
90°	0	



TEST NUMBER: P643561

CATALOG NUMBER: ML5615LSVWFL9FS1E - 596WB - 1500LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	829.9
2.5°	829.9
5°	826.8
7.5°	820.6
10°	812.8
12.5°	801.9
15°	789.5
17.5°	775.5
20°	758.4
22.5°	739.8
25°	718.0
27.5°	696.2
30°	669.8
32.5°	640.3
35°	606.1
37.5°	565.7
40°	514.4
42.5°	453.8
45°	387.0
47.5°	318.6
50°	258.0
52.5°	206.7
55°	164.7
57.5°	132.1
60°	107.2
62.5°	87.0
65°	73.0
67.5°	60.6
70°	51.3
72.5°	43.5
75°	37.3
77.5°	31.1
80°	24.9
82.5°	18.6
85°	10.9
87.5°	4.7
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)