

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: P643411

Luminaire Tested: ML5615LSVWFL9FS1E - 592H - 1500LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643411  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-95)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 592H - 1500LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 5" HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

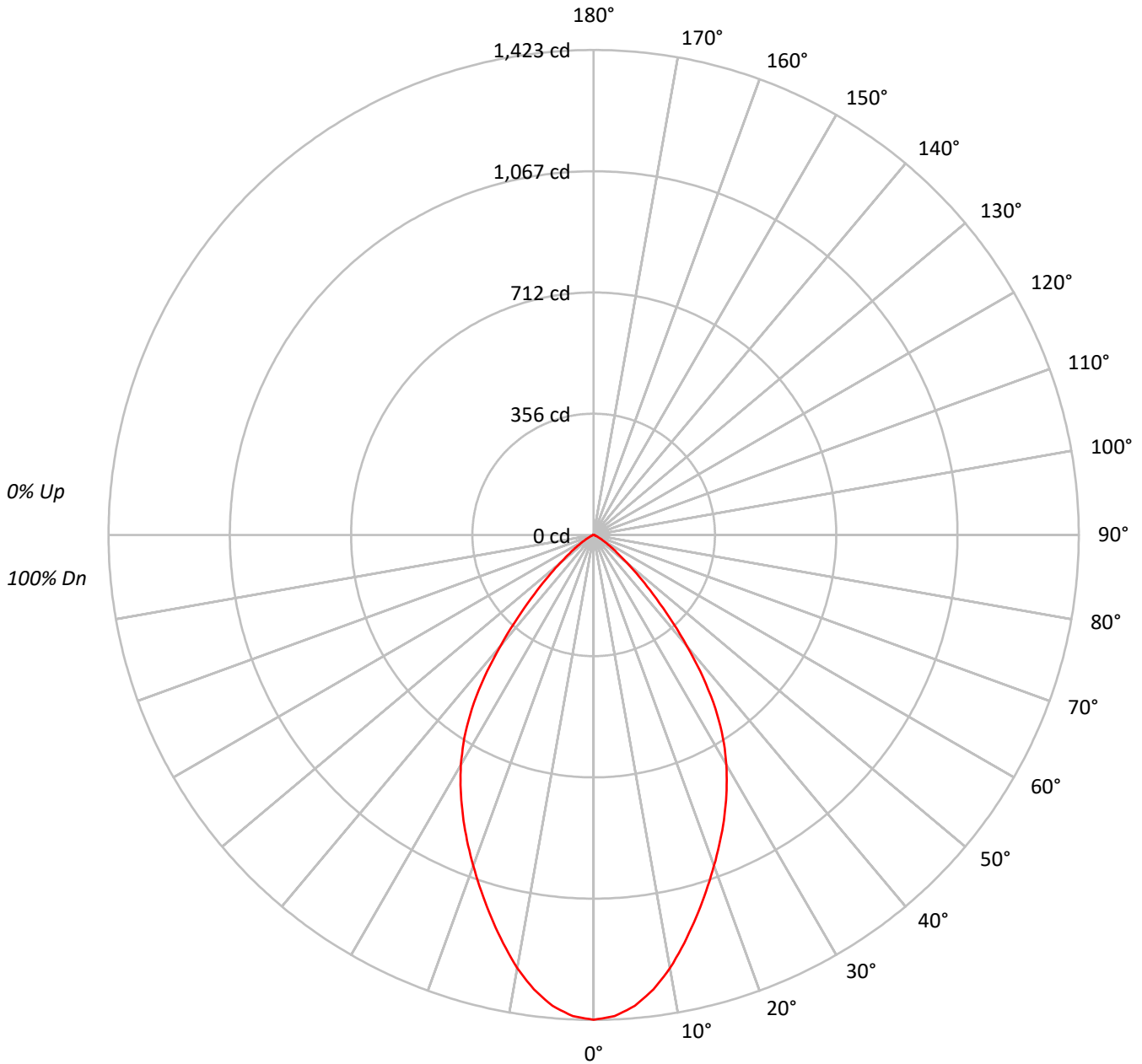
Lumens per Lamp: N/A  
Luminaire Lumens: 1524.5 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.97  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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: P643411  
CATALOG NUMBER: ML5615LSVWFL9FS1E - 592H - 1500LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P643411

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592H - 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				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	68	75	71	67	74	70	66	65				65															
6	84	74	67	63	82	73	67	62	72	66	62	70	65	62	69	64	61	60				60															
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55				55															
8	75	64	58	53	73	64	57	53	63	57	53	61	56	53	60	56	52	51				51															
9	71	60	54	49	70	60	53	49	59	53	49	58	53	49	57	52	49	47				47															
10	67	56	50	46	66	56	50	46	55	50	46	54	49	46	54	49	45	44				44															

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

	0°
0°	112309
5°	109909
10°	103453
15°	94924
20°	86737
25°	79097
30°	71008
35°	60086
40°	43899
45°	27430
50°	15658
55°	8561
60°	4421
65°	2036
70°	1085
75°	488
80°	727
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 27430 cd/sqm



TEST NUMBER: P643411

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592H - 1500LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.3	8.5
10°-20°	325.5	21.4
20°-30°	416.4	27.3
30°-40°	381.8	25.0
40°-50°	196.4	12.9
50°-60°	59.8	3.9
60°-70°	12.4	0.8
70°-80°	2.5	0.2
80°-90°	0.2	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°	871.3	57.2
0°-40°	1253.1	82.2
0°-60°	1509.4	99.0
0°-90°	1524.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1524.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1423	
5°	1387	129
15°	1162	326
25°	908	416
35°	624	382
45°	246	196
55°	62	60
65°	11	12
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P643411

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592H - 1500LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1422.7
2.5°	1413.4
5°	1387.0
7.5°	1345.0
10°	1290.6
12.5°	1226.8
15°	1161.5
17.5°	1096.2
20°	1032.5
22.5°	970.3
25°	908.1
27.5°	844.3
30°	779.0
32.5°	705.9
35°	623.5
37.5°	527.1
40°	426.0
42.5°	329.6
45°	245.7
47.5°	178.8
50°	127.5
52.5°	88.6
55°	62.2
57.5°	42.0
60°	28.0
62.5°	17.1
65°	10.9
67.5°	6.2
70°	4.7
72.5°	3.1
75°	1.6
77.5°	1.6
80°	1.6
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)