

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: P643426

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643426
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 - 1500LM - 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: 1572.1 lumens
Efficiency: N/A
Efficacy: 91.9 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

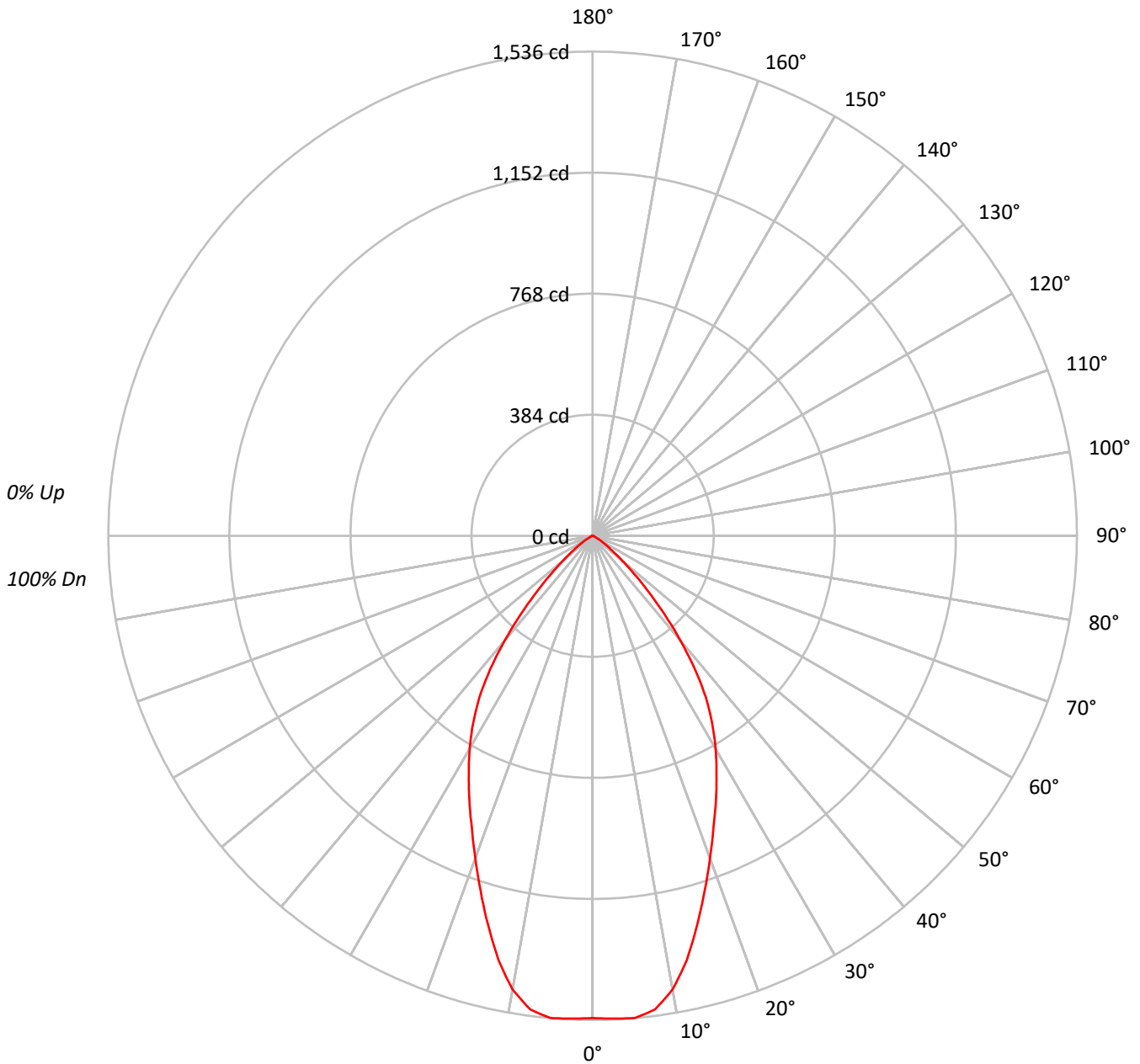
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643426

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

Luminous Intensity Polar Plot





TEST NUMBER: P643426

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592SC - 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	111	108	106	103	104	102	100	100	99	97	97	95	94	93				93															
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85				85															
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	79	78				78															
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71				71															
5	90	81	74	69	88	80	74	69	78	73	69	76	71	68	74	70	67	66				66															
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	65	62	61				61															
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56				56															
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52				52															
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48				48															
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				45															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	120772
5°	121724
10°	117152
15°	104576
20°	91425
25°	80578
30°	71145
35°	60385
40°	44538
45°	27597
50°	14897
55°	7487
60°	3442
65°	1457
70°	716
75°	488
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27597 cd/sqm



TEST NUMBER: P643426

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	9.2
10°-20°	357.0	22.7
20°-30°	425.3	27.1
30°-40°	384.0	24.4
40°-50°	197.4	12.6
50°-60°	53.6	3.4
60°-70°	8.8	0.6
70°-80°	1.7	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°	926.6	58.9
0°-40°	1310.6	83.4
0°-60°	1561.6	99.3
0°-90°	1572.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1572.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1530	
5°	1536	144
15°	1280	357
25°	925	425
35°	627	384
45°	247	197
55°	54	54
65°	8	9
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P643426

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	1529.9
2.5°	1533.0
5°	1536.1
7.5°	1515.9
10°	1461.5
12.5°	1379.1
15°	1279.6
17.5°	1181.6
20°	1088.3
22.5°	1001.3
25°	925.1
27.5°	850.5
30°	780.5
32.5°	705.9
35°	626.6
37.5°	533.3
40°	432.2
42.5°	335.8
45°	247.2
47.5°	177.2
50°	121.3
52.5°	80.8
55°	54.4
57.5°	35.8
60°	21.8
62.5°	12.4
65°	7.8
67.5°	3.1
70°	3.1
72.5°	1.6
75°	1.6
77.5°	1.6
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)