

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: P643428

Luminaire Tested: ML5615LSVWFL9FS1E - 592SC - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643428
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 - 3500K
Description: ML56 RR, MILKY OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1660.9 lumens
Efficiency: N/A
Efficacy: 97.1 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

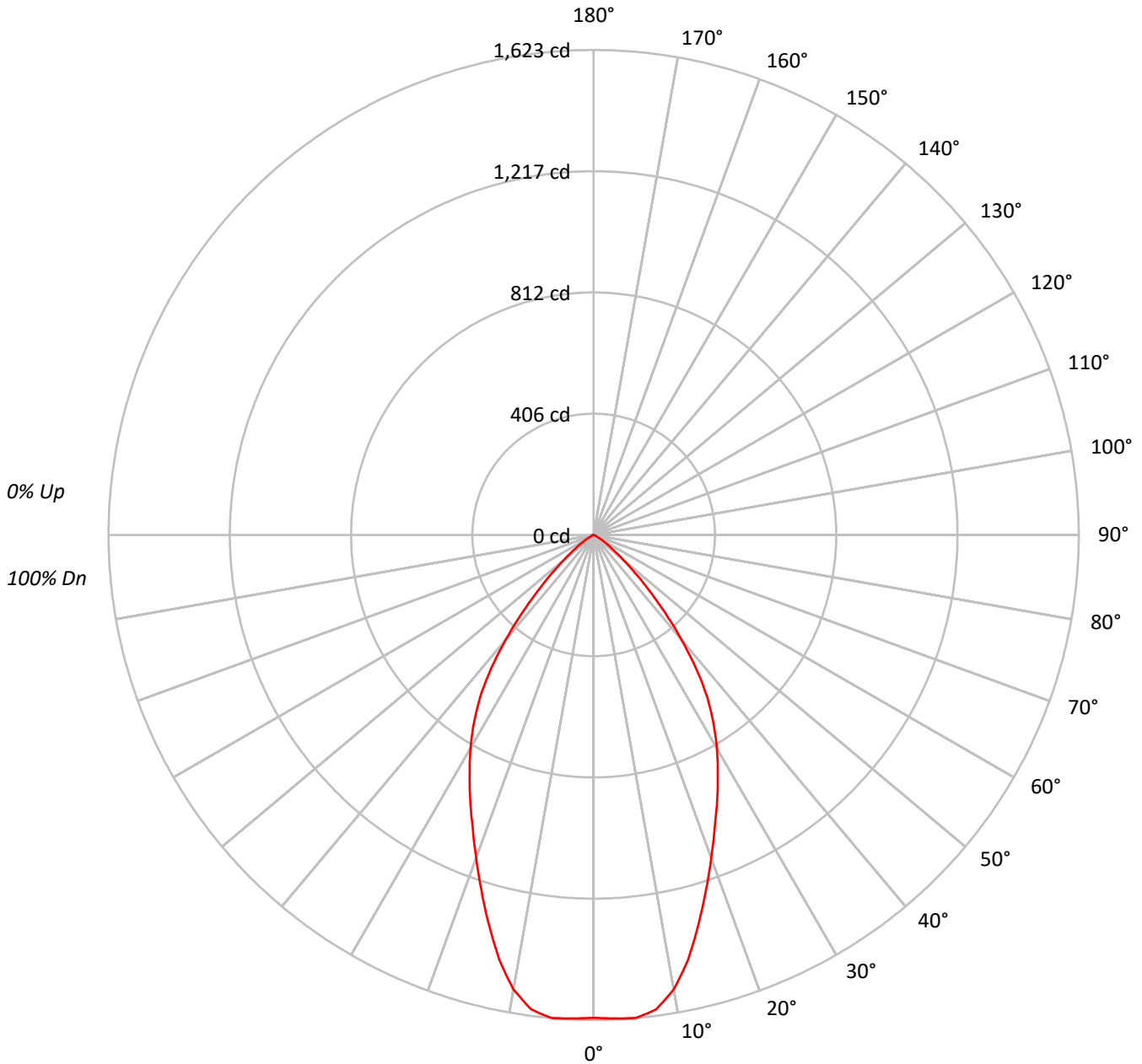
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643428

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592SC - 1500LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643428

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592SC - 1500LM - 3500K

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°	127600
5°	128611
10°	123781
15°	110493
20°	96600
25°	85133
30°	75165
35°	63796
40°	47063
45°	29160
50°	15732
55°	7914
60°	3631
65°	1532
70°	762
75°	488
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 29160 cd/sqm



TEST NUMBER: P643428

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592SC - 1500LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	9.2
10°-20°	377.2	22.7
20°-30°	449.4	27.1
30°-40°	405.7	24.4
40°-50°	208.6	12.6
50°-60°	56.6	3.4
60°-70°	9.2	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°	979.0	58.9
0°-40°	1384.7	83.4
0°-60°	1650.0	99.3
0°-90°	1660.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1660.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1616	
5°	1623	152
15°	1352	377
25°	977	449
35°	662	406
45°	261	209
55°	58	57
65°	8	9
75°	2	2
85°	0	0
90°	0	



TEST NUMBER: P643428

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592SC - 1500LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1616.4
2.5°	1619.7
5°	1623.0
7.5°	1601.7
10°	1544.2
12.5°	1457.1
15°	1352.0
17.5°	1248.5
20°	1149.9
22.5°	1057.9
25°	977.4
27.5°	898.6
30°	824.6
32.5°	745.8
35°	662.0
37.5°	563.5
40°	456.7
42.5°	354.8
45°	261.2
47.5°	187.3
50°	128.1
52.5°	85.4
55°	57.5
57.5°	37.8
60°	23.0
62.5°	13.1
65°	8.2
67.5°	3.3
70°	3.3
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)