

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: P643358

Luminaire Tested: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1160.1 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

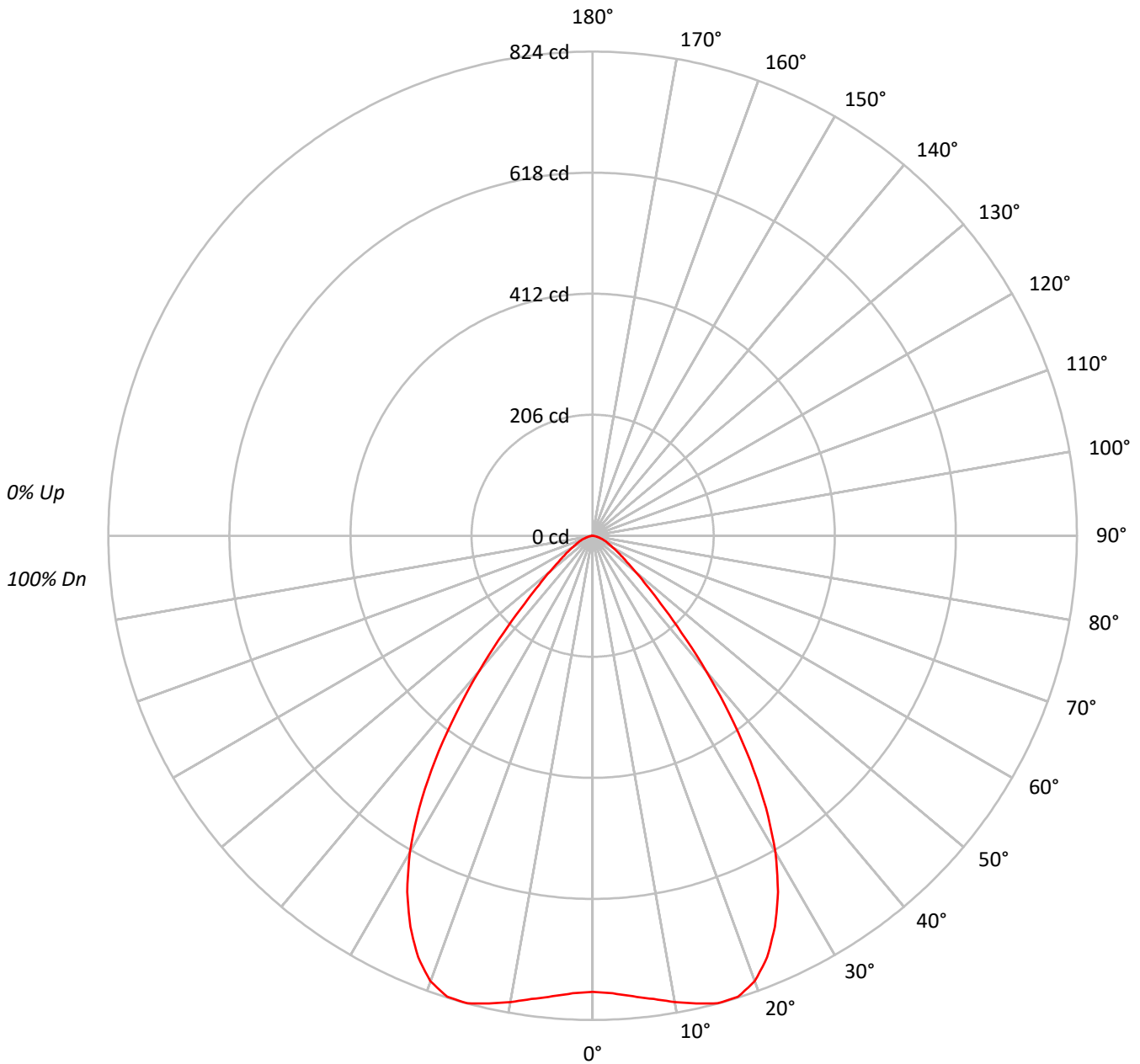
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643358

CATALOG NUMBER: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643358

CATALOG NUMBER: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	52			
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45			
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	42546
5°	43292
10°	44850
15°	46748
20°	47067
25°	44392
30°	39373
35°	31307
40°	21462
45°	12691
50°	8102
55°	5649
60°	4287
65°	3567
70°	2885
75°	2245
80°	1326
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12691 cd/sqm



TEST NUMBER: P643358

CATALOG NUMBER: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.7	6.5
10°-20°	231.7	20.0
20°-30°	334.0	28.8
30°-40°	288.1	24.8
40°-50°	135.0	11.6
50°-60°	55.3	4.8
60°-70°	27.7	2.4
70°-80°	11.3	1.0
80°-90°	1.4	0.1
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°	641.3	55.3
0°-40°	929.4	80.1
0°-60°	1119.8	96.5
0°-90°	1160.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1160.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	776	
5°	787	76
15°	824	232
25°	734	334
35°	468	288
45°	164	135
55°	59	55
65°	28	28
75°	11	11
85°	1	1
90°	0	



TEST NUMBER: P643358

CATALOG NUMBER: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	776.1
2.5°	779.3
5°	786.7
7.5°	795.1
10°	805.7
12.5°	815.2
15°	823.7
17.5°	822.6
20°	806.8
22.5°	776.1
25°	733.9
27.5°	683.2
30°	622.0
32.5°	549.1
35°	467.8
37.5°	382.3
40°	299.9
42.5°	223.9
45°	163.7
47.5°	123.5
50°	95.0
52.5°	73.9
55°	59.1
57.5°	48.6
60°	39.1
62.5°	32.7
65°	27.5
67.5°	23.2
70°	18.0
72.5°	13.7
75°	10.6
77.5°	7.4
80°	4.2
82.5°	2.1
85°	1.1
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)