

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: P643357

Luminaire Tested: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643357
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 - 3000K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1129.4 lumens
Efficiency: N/A
Efficacy: 107.6 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

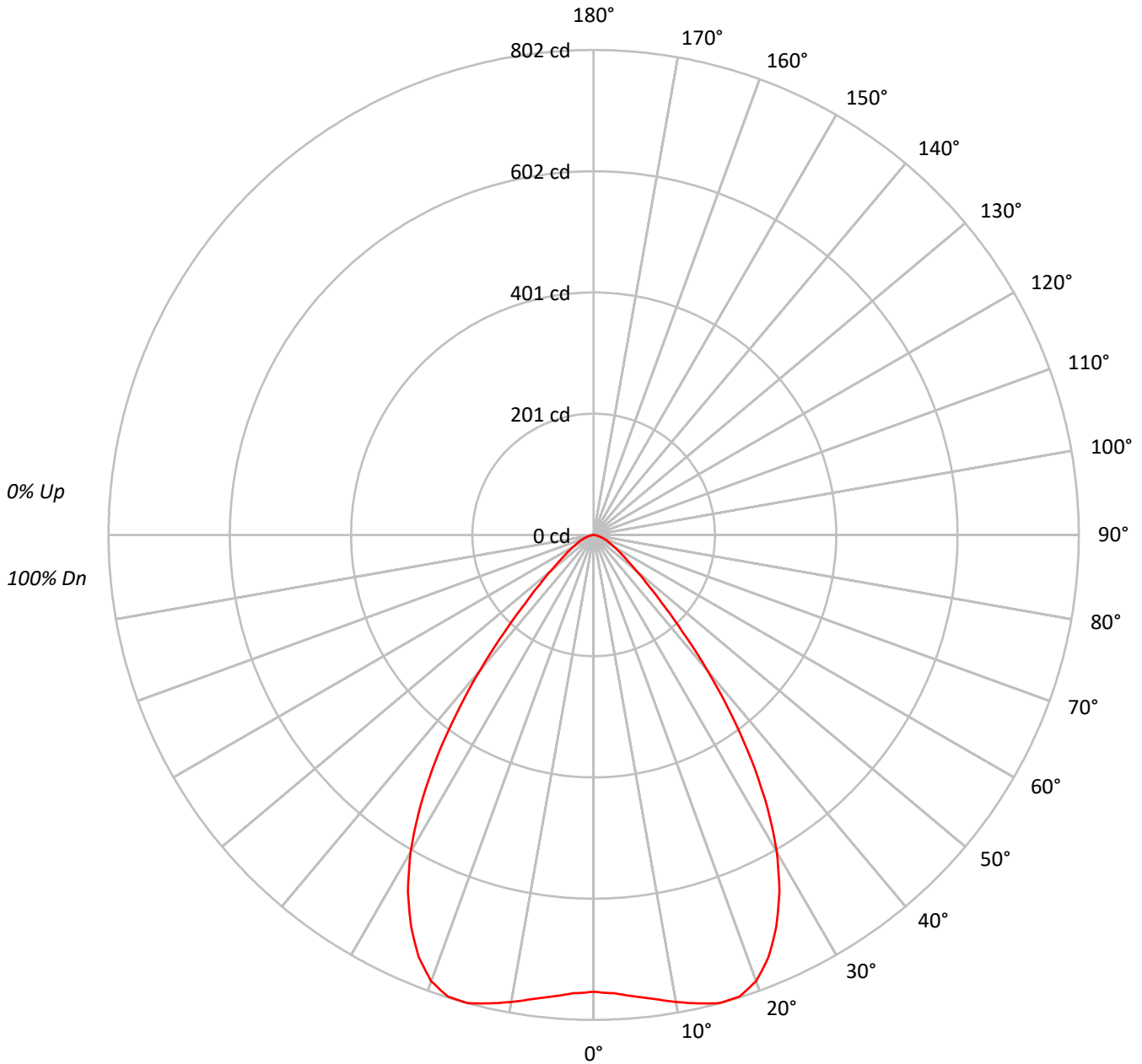
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643357

CATALOG NUMBER: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P643357

CATALOG NUMBER: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3000K

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			100	
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91	
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83	
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			75	
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68			68	
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62			62	
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57			57	
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	52			52	
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48			48	
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45			45	
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42			42	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	41422
5°	42147
10°	43664
15°	45505
20°	45819
25°	43218
30°	38329
35°	30477
40°	20889
45°	12350
50°	7889
55°	5505
60°	4166
65°	3463
70°	2805
75°	2182
80°	1294
85°	629

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12350 cd/sqm



TEST NUMBER: P643357

CATALOG NUMBER: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	6.5
10°-20°	225.5	20.0
20°-30°	325.1	28.8
30°-40°	280.5	24.8
40°-50°	131.4	11.6
50°-60°	53.9	4.8
60°-70°	26.9	2.4
70°-80°	11.0	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°	624.3	55.3
0°-40°	904.8	80.1
0°-60°	1090.1	96.5
0°-90°	1129.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1129.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	756	
5°	766	74
15°	802	226
25°	714	325
35°	455	280
45°	159	131
55°	58	54
65°	27	27
75°	10	11
85°	1	1
90°	0	



TEST NUMBER: P643357

CATALOG NUMBER: ML5615LSVWFL759FS1E - 694TBZB - 900LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	755.6
2.5°	758.7
5°	765.9
7.5°	774.1
10°	784.4
12.5°	793.6
15°	801.8
17.5°	800.8
20°	785.4
22.5°	755.6
25°	714.5
27.5°	665.1
30°	605.5
32.5°	534.6
35°	455.4
37.5°	372.1
40°	291.9
42.5°	217.9
45°	159.3
47.5°	120.3
50°	92.5
52.5°	72.0
55°	57.6
57.5°	47.3
60°	38.0
62.5°	31.9
65°	26.7
67.5°	22.6
70°	17.5
72.5°	13.4
75°	10.3
77.5°	7.2
80°	4.1
82.5°	2.1
85°	1.0
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)