

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: P643695

Luminaire Tested: ML5615LSVWFL9FS1E - 694TBZB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643695
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-114)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 694TBZB - 1200LM - 5000K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

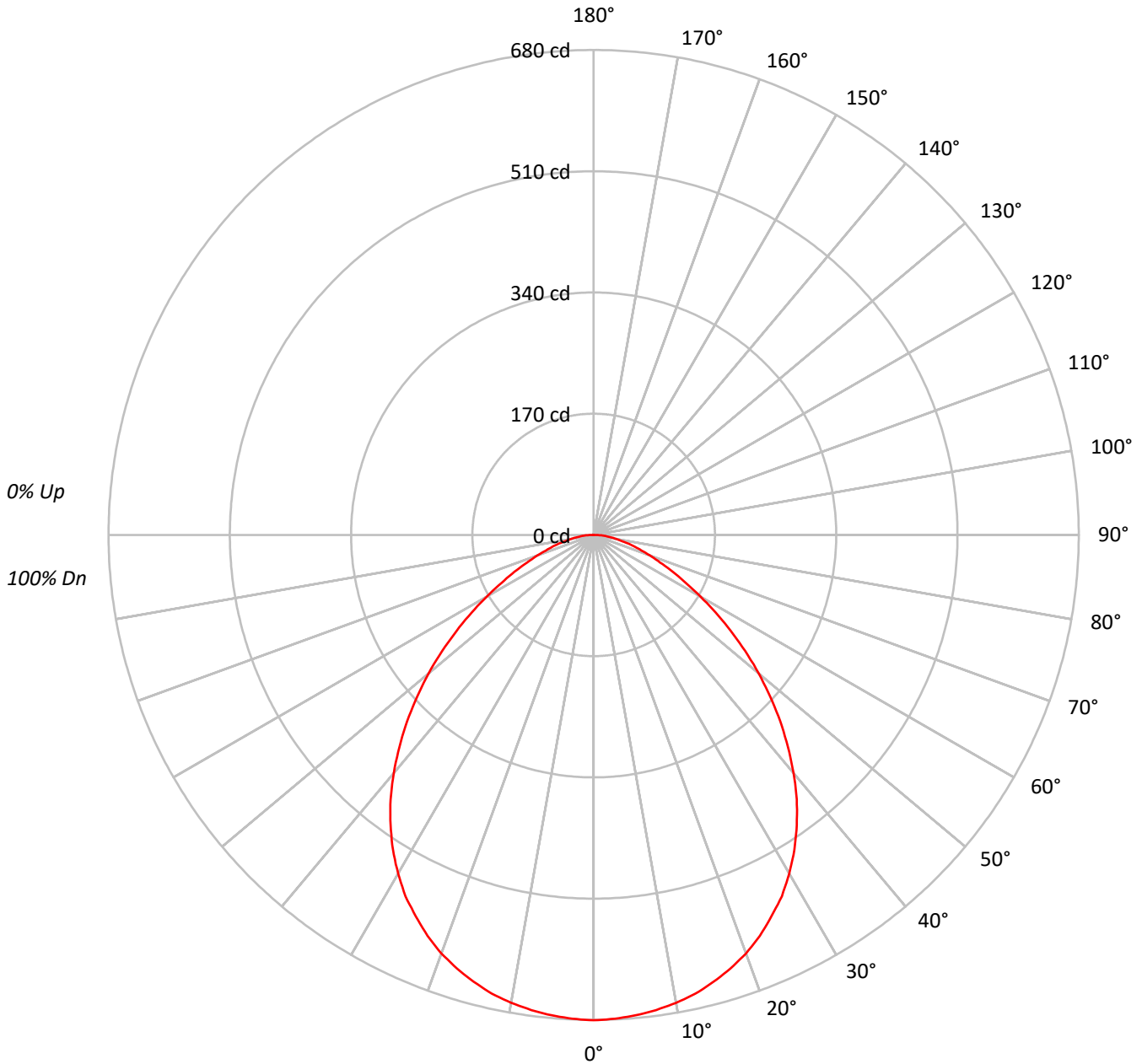
Lumens per Lamp: N/A
Luminaire Lumens: 1521.8 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
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: P643695
CATALOG NUMBER: ML5615LSVWFL9FS1E - 694TBZB - 1200LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643695

CATALOG NUMBER: ML5615LSVWFL9FS1E - 694TBZB - 1200LM - 5000K

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	100	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74	74	74	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56	56	56	56
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49	49	49	49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44	44	44	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39	39	39	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32	32	32	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	29	29	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37305
5°	37211
10°	37085
15°	36828
20°	36427
25°	35681
30°	34702
35°	33221
40°	31194
45°	28670
50°	25765
55°	22413
60°	18935
65°	15864
70°	13368
75°	11586
80°	10008
85°	9938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28670 cd/sqm



TEST NUMBER: P643695

CATALOG NUMBER: ML5615LSVWFL9FS1E - 694TBZB - 1200LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.2	4.2
10°-20°	183.0	12.0
20°-30°	271.6	17.8
30°-40°	309.5	20.3
40°-50°	284.5	18.7
50°-60°	210.3	13.8
60°-70°	122.6	8.1
70°-80°	58.4	3.8
80°-90°	17.6	1.2
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°	518.8	34.1
0°-40°	828.4	54.4
0°-60°	1323.1	86.9
0°-90°	1521.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1521.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	680	
5°	676	64
15°	649	183
25°	590	272
35°	496	310
45°	370	285
55°	234	210
65°	122	123
75°	55	58
85°	16	18
90°	0	



TEST NUMBER: P643695

CATALOG NUMBER: ML5615LSVWFL9FS1E - 694TBZB - 1200LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	680.5
2.5°	679.1
5°	676.2
7.5°	671.9
10°	666.2
12.5°	659.0
15°	648.9
17.5°	637.4
20°	624.4
22.5°	608.6
25°	589.9
27.5°	571.2
30°	548.2
32.5°	523.7
35°	496.4
37.5°	467.6
40°	435.9
42.5°	402.9
45°	369.8
47.5°	335.2
50°	302.1
52.5°	267.6
55°	234.5
57.5°	202.9
60°	172.7
62.5°	145.3
65°	122.3
67.5°	100.7
70°	83.4
72.5°	67.6
75°	54.7
77.5°	41.7
80°	31.7
82.5°	23.0
85°	15.8
87.5°	10.1
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)