

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: P643706

Luminaire Tested: ML5615LSVWFL9FS1E - 694WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-113)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 694WB - 1200LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

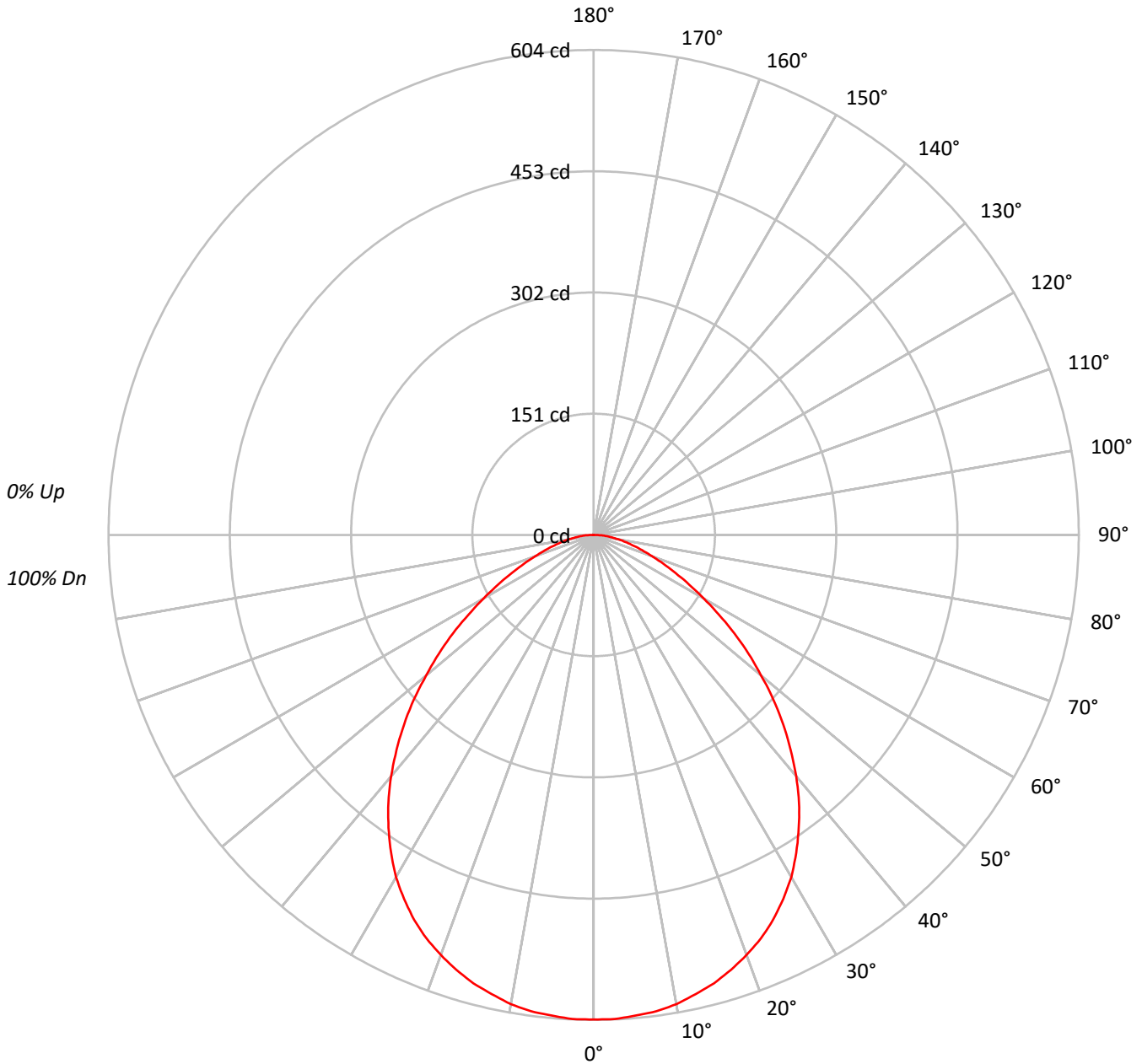
Lumens per Lamp: N/A
Luminaire Lumens: 1373.5 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P643706
CATALOG NUMBER: ML5615LSVWFL9FS1E - 694WB - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P643706

CATALOG NUMBER: ML5615LSVWFL9FS1E - 694WB - 1200LM - 2700K

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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74			74
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64			64
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56			56
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49			49
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43			43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39			39
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35			35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32			32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29			29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	33084
5°	33073
10°	33032
15°	32815
20°	32477
25°	31986
30°	31157
35°	29801
40°	28067
45°	25894
50°	23198
55°	20434
60°	17334
65°	14606
70°	12374
75°	10718
80°	9597
85°	9561

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25894 cd/sqm



TEST NUMBER: P643706

CATALOG NUMBER: ML5615LSVWFL9FS1E - 694WB - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	4.2
10°-20°	163.0	11.9
20°-30°	243.1	17.7
30°-40°	277.8	20.2
40°-50°	256.8	18.7
50°-60°	191.1	13.9
60°-70°	113.1	8.2
70°-80°	54.9	4.0
80°-90°	16.5	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°	463.2	33.7
0°-40°	741.1	54.0
0°-60°	1189.0	86.6
0°-90°	1373.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1373.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	604	
5°	601	57
15°	578	163
25°	529	243
35°	445	278
45°	334	257
55°	214	191
65°	113	113
75°	51	55
85°	15	17
90°	0	



TEST NUMBER: P643706

CATALOG NUMBER: ML5615LSVWFL9FS1E - 694WB - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	603.5
2.5°	603.5
5°	601.0
7.5°	598.4
10°	593.4
12.5°	585.8
15°	578.2
17.5°	568.1
20°	556.7
22.5°	544.0
25°	528.8
27.5°	511.1
30°	492.2
32.5°	469.4
35°	445.3
37.5°	420.0
40°	392.2
42.5°	363.1
45°	334.0
47.5°	303.6
50°	272.0
52.5°	242.9
55°	213.8
57.5°	184.7
60°	158.1
62.5°	134.1
65°	112.6
67.5°	93.6
70°	77.2
72.5°	63.3
75°	50.6
77.5°	40.5
80°	30.4
82.5°	21.5
85°	15.2
87.5°	8.9
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)