

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: P643711

Luminaire Tested: ML5615LSVWFL9FS1E - 694WB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643711
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 - 1500LM - 2700K
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

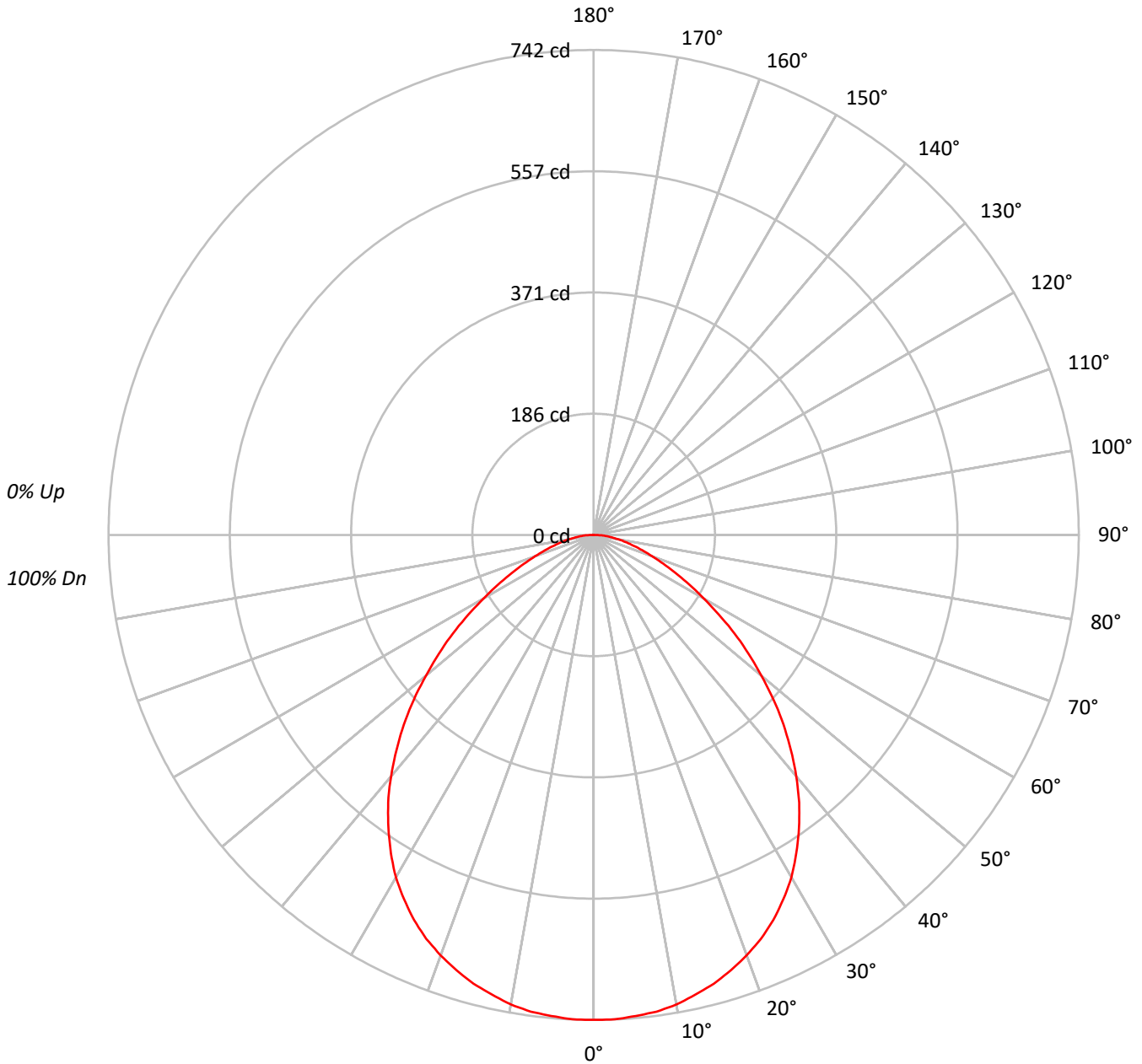
Lumens per Lamp: N/A
Luminaire Lumens: 1688.6 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P643711
CATALOG NUMBER: ML5615LSVWFL9FS1E - 694WB - 1500LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P643711

CATALOG NUMBER: ML5615LSVWFL9FS1E - 694WB - 1500LM - 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			
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74			
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64			
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	40671
5°	40656
10°	40608
15°	40341
20°	39927
25°	39329
30°	38303
35°	36640
40°	34508
45°	31833
50°	28519
55°	25127
60°	21314
65°	17953
70°	15211
75°	13175
80°	11775
85°	11762

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31833 cd/sqm



TEST NUMBER: P643711

CATALOG NUMBER: ML5615LSVWFL9FS1E - 694WB - 1500LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	4.2
10°-20°	200.4	11.9
20°-30°	298.9	17.7
30°-40°	341.6	20.2
40°-50°	315.7	18.7
50°-60°	235.0	13.9
60°-70°	139.1	8.2
70°-80°	67.5	4.0
80°-90°	20.3	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°	569.5	33.7
0°-40°	911.1	54.0
0°-60°	1461.8	86.6
0°-90°	1688.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1688.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	742	
5°	739	70
15°	711	200
25°	650	299
35°	548	342
45°	411	316
55°	263	235
65°	138	139
75°	62	67
85°	19	20
90°	0	



TEST NUMBER: P643711

CATALOG NUMBER: ML5615LSVWFL9FS1E - 694WB - 1500LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	741.9
2.5°	741.9
5°	738.8
7.5°	735.7
10°	729.5
12.5°	720.2
15°	710.8
17.5°	698.4
20°	684.4
22.5°	668.8
25°	650.2
27.5°	628.4
30°	605.1
32.5°	577.1
35°	547.5
37.5°	516.4
40°	482.2
42.5°	446.4
45°	410.6
47.5°	373.3
50°	334.4
52.5°	298.6
55°	262.9
57.5°	227.1
60°	194.4
62.5°	164.9
65°	138.4
67.5°	115.1
70°	94.9
72.5°	77.8
75°	62.2
77.5°	49.8
80°	37.3
82.5°	26.4
85°	18.7
87.5°	10.9
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)