

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: P644064

Luminaire Tested: ML5615LSWFL559FS1E - 694WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-67)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 694WB - 900LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

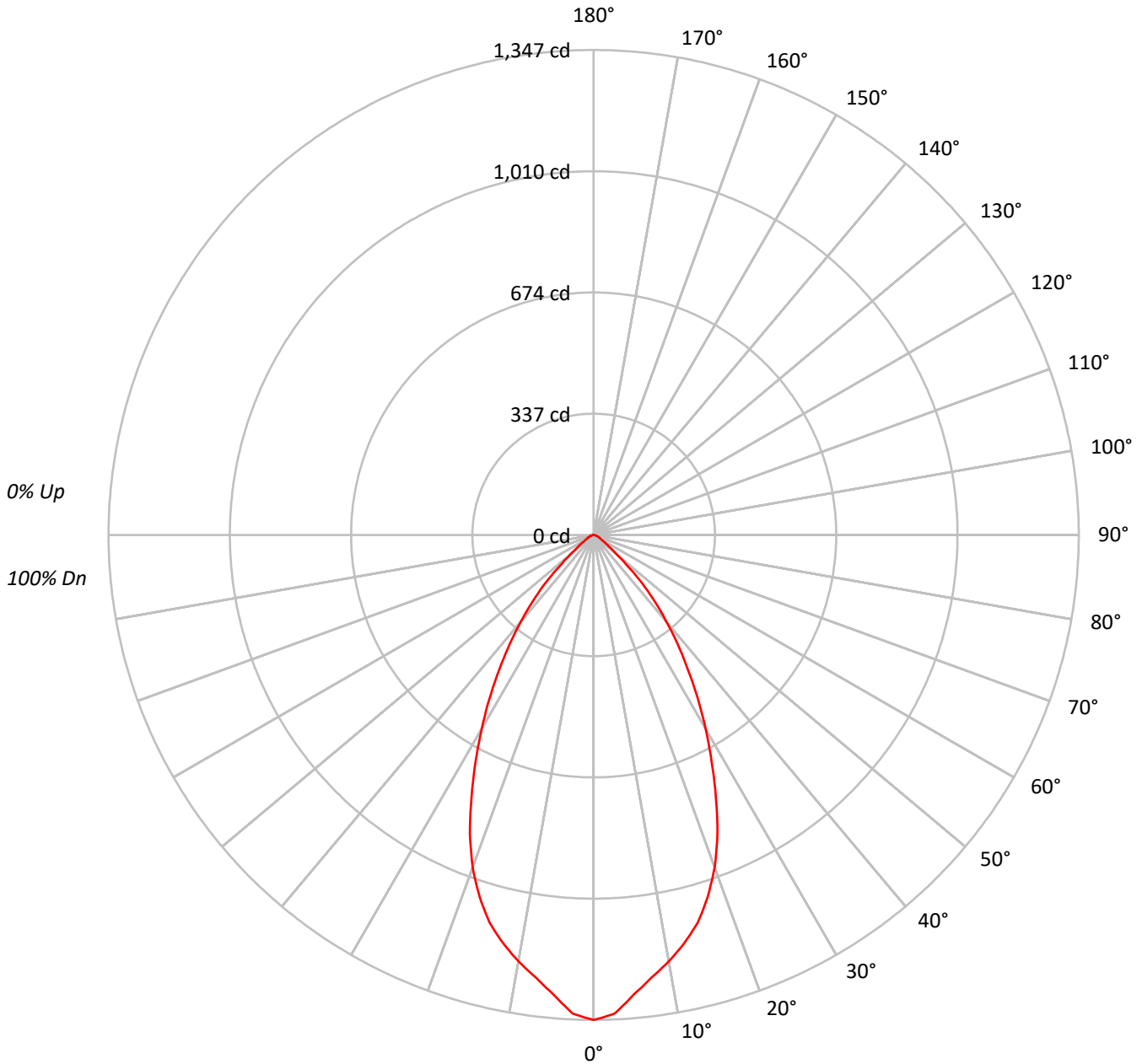
Lumens per Lamp: N/A
Luminaire Lumens: 1292.5 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P644064
CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P644064
 CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 900LM - 4000K

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92				
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85				
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78				
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61				
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57				
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53				
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49				
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	73854
5°	70504
10°	66955
15°	63298
20°	57306
25°	48547
30°	39291
35°	30510
40°	22535
45°	14808
50°	7172
55°	3804
60°	2620
65°	2062
70°	1827
75°	1207
80°	726
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14808 cd/sqm



TEST NUMBER: P644064

CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	9.3
10°-20°	310.3	24.0
20°-30°	366.7	28.4
30°-40°	285.9	22.1
40°-50°	146.2	11.3
50°-60°	39.9	3.1
60°-70°	16.4	1.3
70°-80°	6.6	0.5
80°-90°	0.6	0.0
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°	796.9	61.7
0°-40°	1082.9	83.8
0°-60°	1268.9	98.2
0°-90°	1292.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1292.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1347	
5°	1281	120
15°	1115	310
25°	803	367
35°	456	286
45°	191	146
55°	40	40
65°	16	16
75°	6	7
85°	0	1
90°	0	



TEST NUMBER: P644064

CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1347.2
2.5°	1331.3
5°	1281.2
7.5°	1239.2
10°	1202.8
12.5°	1161.9
15°	1115.3
17.5°	1053.9
20°	982.3
22.5°	898.1
25°	802.6
27.5°	709.4
30°	620.7
32.5°	537.7
35°	455.9
37.5°	383.1
40°	314.9
42.5°	251.2
45°	191.0
47.5°	126.2
50°	84.1
52.5°	56.8
55°	39.8
57.5°	29.6
60°	23.9
62.5°	19.3
65°	15.9
67.5°	13.6
70°	11.4
72.5°	8.0
75°	5.7
77.5°	4.5
80°	2.3
82.5°	1.1
85°	0.0
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)