

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: P644059

Luminaire Tested: ML5615LSWFL559FS1E - 694WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644059
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 - 1500LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

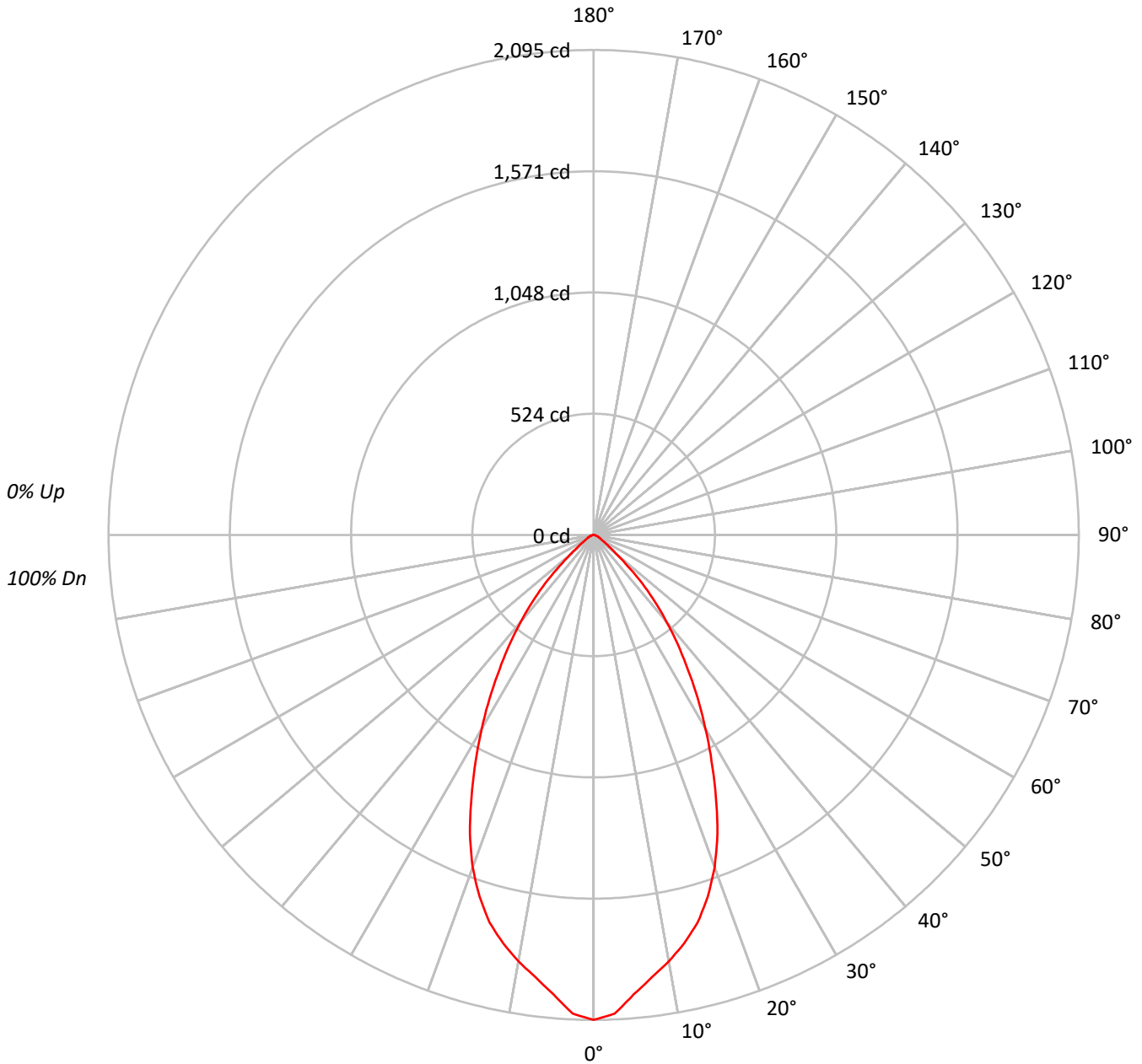
Lumens per Lamp: N/A
Luminaire Lumens: 2009.9 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P644059
CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 1500LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P644059

CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 1500LM - 4000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92																
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61			61																
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57			57																
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53			53																
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49																
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114837
5°	109630
10°	104112
15°	98417
20°	89100
25°	75488
30°	61098
35°	47442
40°	35044
45°	23026
50°	11155
55°	5916
60°	4068
65°	3204
70°	2837
75°	1864
80°	1105
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23026 cd/sqm



TEST NUMBER: P644059

CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 1500LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.5	9.3
10°-20°	482.5	24.0
20°-30°	570.1	28.4
30°-40°	444.6	22.1
40°-50°	227.3	11.3
50°-60°	62.1	3.1
60°-70°	25.5	1.3
70°-80°	10.2	0.5
80°-90°	1.0	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°	1239.2	61.7
0°-40°	1683.8	83.8
0°-60°	1973.1	98.2
0°-90°	2009.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2009.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2095	
5°	1992	187
15°	1734	483
25°	1248	570
35°	709	445
45°	297	227
55°	62	62
65°	25	26
75°	9	10
85°	0	1
90°	0	



TEST NUMBER: P644059

CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 1500LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	2094.8
2.5°	2070.0
5°	1992.2
7.5°	1926.8
10°	1870.3
12.5°	1806.6
15°	1734.1
17.5°	1638.7
20°	1527.3
22.5°	1396.5
25°	1248.0
27.5°	1103.1
30°	965.2
32.5°	836.1
35°	708.9
37.5°	595.7
40°	489.7
42.5°	390.7
45°	297.0
47.5°	196.2
50°	130.8
52.5°	88.4
55°	61.9
57.5°	46.0
60°	37.1
62.5°	30.1
65°	24.7
67.5°	21.2
70°	17.7
72.5°	12.4
75°	8.8
77.5°	7.1
80°	3.5
82.5°	1.8
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)