

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: P644056

Luminaire Tested: ML5615LSWFL559FS1E - 694WB - 1500LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644056  
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 - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

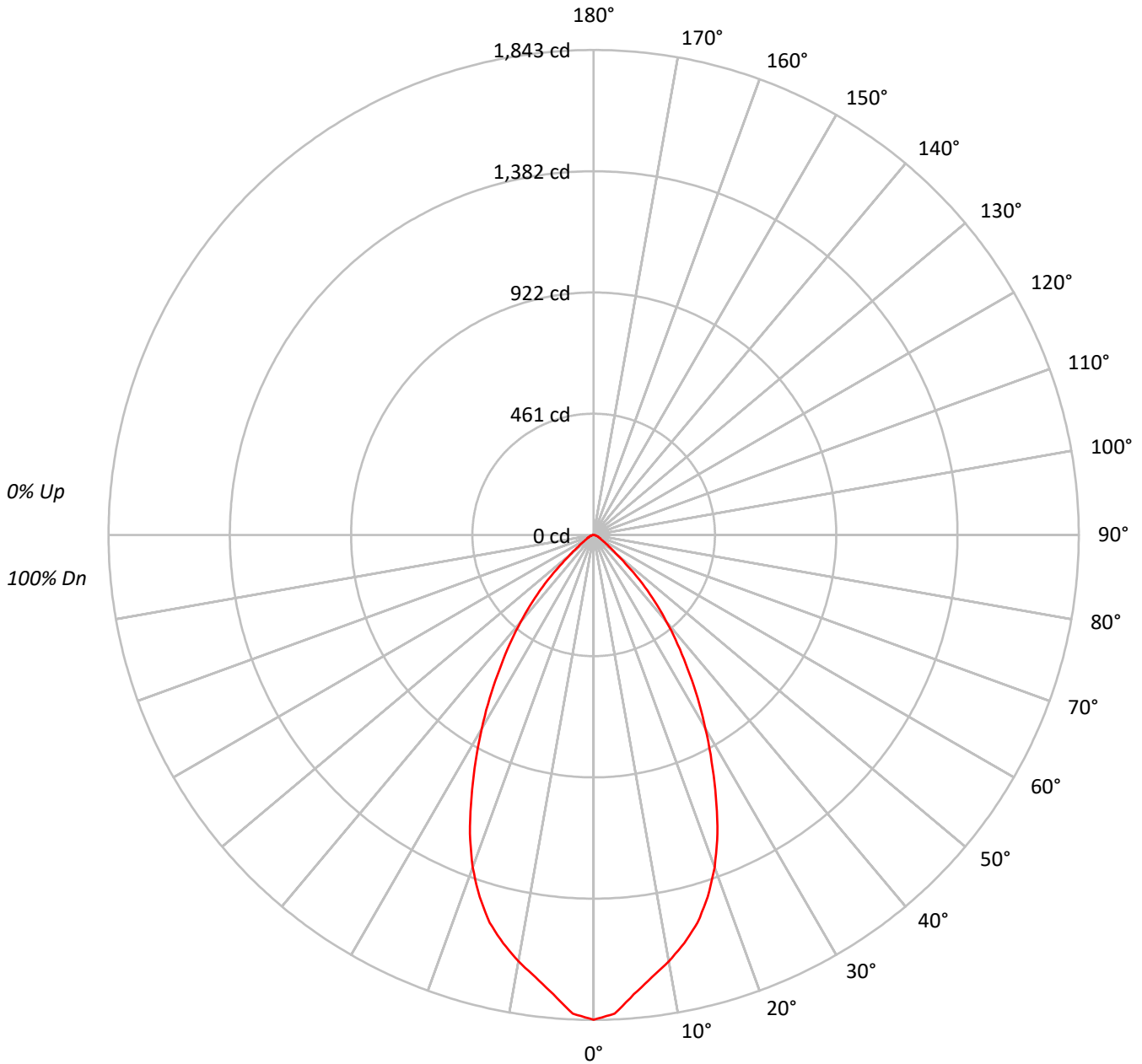
Lumens per Lamp: N/A  
Luminaire Lumens: 1767.9 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (Ain): 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: P644056  
CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 1500LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P644056

CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 1500LM - 2700K

**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°	101012
5°	96434
10°	91581
15°	86573
20°	78378
25°	66403
30°	53742
35°	41727
40°	30822
45°	20250
50°	9816
55°	5199
60°	3585
65°	2828
70°	2484
75°	1652
80°	979
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20250 cd/sqm



TEST NUMBER: P644056

CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 1500LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.1	9.3
10°-20°	424.5	24.0
20°-30°	501.5	28.4
30°-40°	391.1	22.1
40°-50°	199.9	11.3
50°-60°	54.6	3.1
60°-70°	22.5	1.3
70°-80°	9.0	0.5
80°-90°	0.9	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°	1090.0	61.7
0°-40°	1481.1	83.8
0°-60°	1735.6	98.2
0°-90°	1767.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1843	
5°	1752	164
15°	1525	424
25°	1098	501
35°	624	391
45°	261	200
55°	54	55
65°	22	22
75°	8	9
85°	0	1
90°	0	



TEST NUMBER: P644056

CATALOG NUMBER: ML5615LSWFL559FS1E - 694WB - 1500LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1842.6
2.5°	1820.9
5°	1752.4
7.5°	1694.9
10°	1645.2
12.5°	1589.2
15°	1525.4
17.5°	1441.5
20°	1343.5
22.5°	1228.4
25°	1097.8
27.5°	970.3
30°	849.0
32.5°	735.5
35°	623.5
37.5°	524.0
40°	430.7
42.5°	343.6
45°	261.2
47.5°	172.6
50°	115.1
52.5°	77.7
55°	54.4
57.5°	40.4
60°	32.7
62.5°	26.4
65°	21.8
67.5°	18.7
70°	15.5
72.5°	10.9
75°	7.8
77.5°	6.2
80°	3.1
82.5°	1.6
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)