

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: P643204

Luminaire Tested: ML5615LSVWFL759FS1E - 594WB - 1500LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643204  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-78)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 594WB - 1500LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1944.5 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

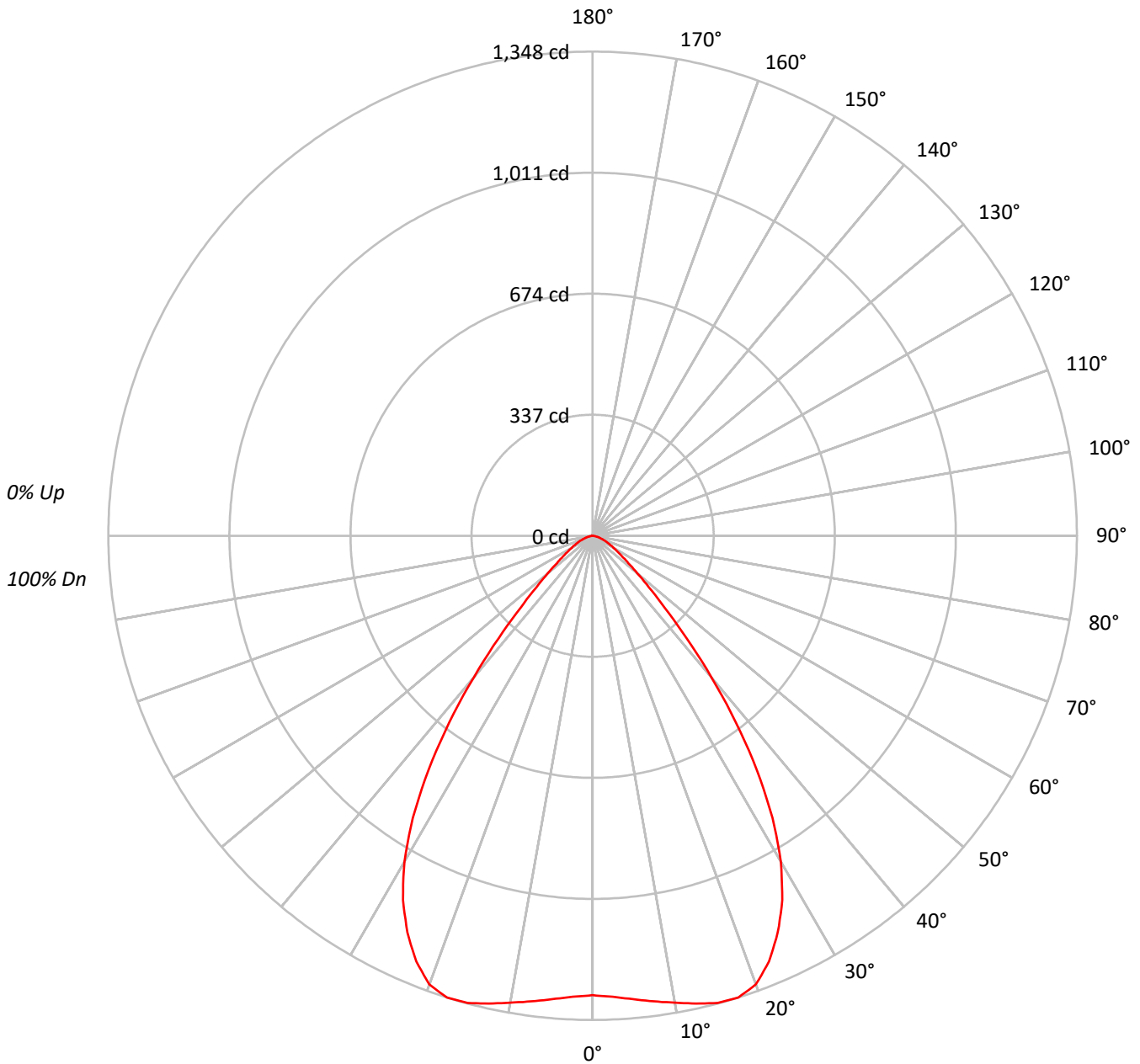
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P643204

CATALOG NUMBER: ML5615LSVWFL759FS1E - 594WB - 1500LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643204

CATALOG NUMBER: ML5615LSVWFL759FS1E - 594WB - 1500LM - 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			100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83			83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75			75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68			68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57			57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			52
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48			48
9	69	58	51	47	68	57	51	46	56	50	46	55	50	46	54	50	46	44			44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	100981
5°	102627
10°	105801
15°	110035
20°	111620
25°	106194
30°	95510
35°	76797
40°	52988
45°	31560
50°	19969
55°	13859
60°	10594
65°	8574
70°	6924
75°	5399
80°	3228
85°	1630

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31560 cd/sqm



TEST NUMBER: P643204

CATALOG NUMBER: ML5615LSVWFL759FS1E - 594WB - 1500LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.4	6.4
10°-20°	379.6	19.5
20°-30°	555.5	28.6
30°-40°	490.4	25.2
40°-50°	232.5	12.0
50°-60°	93.9	4.8
60°-70°	46.9	2.4
70°-80°	18.9	1.0
80°-90°	2.4	0.1
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°	1059.5	54.5
0°-40°	1549.9	79.7
0°-60°	1876.3	96.5
0°-90°	1944.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1944.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1279	
5°	1295	124
15°	1346	380
25°	1219	556
35°	797	490
45°	283	233
55°	101	94
65°	46	47
75°	18	19
85°	2	2
90°	0	



TEST NUMBER: P643204

CATALOG NUMBER: ML5615LSVWFL759FS1E - 594WB - 1500LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1279.2
2.5°	1284.5
5°	1295.1
7.5°	1307.5
10°	1319.9
12.5°	1334.0
15°	1346.4
17.5°	1348.2
20°	1328.7
22.5°	1282.8
25°	1219.2
27.5°	1143.2
30°	1047.8
32.5°	931.2
35°	796.9
37.5°	655.5
40°	514.2
42.5°	387.0
45°	282.7
47.5°	212.0
50°	162.6
52.5°	125.5
55°	100.7
57.5°	81.3
60°	67.1
62.5°	56.5
65°	45.9
67.5°	38.9
70°	30.0
72.5°	23.0
75°	17.7
77.5°	12.4
80°	7.1
82.5°	3.5
85°	1.8
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)