

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: P643229

Luminaire Tested: ML5615LSVWFL759FS1E - 691WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643229  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-82)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 691WB - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1571.5 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

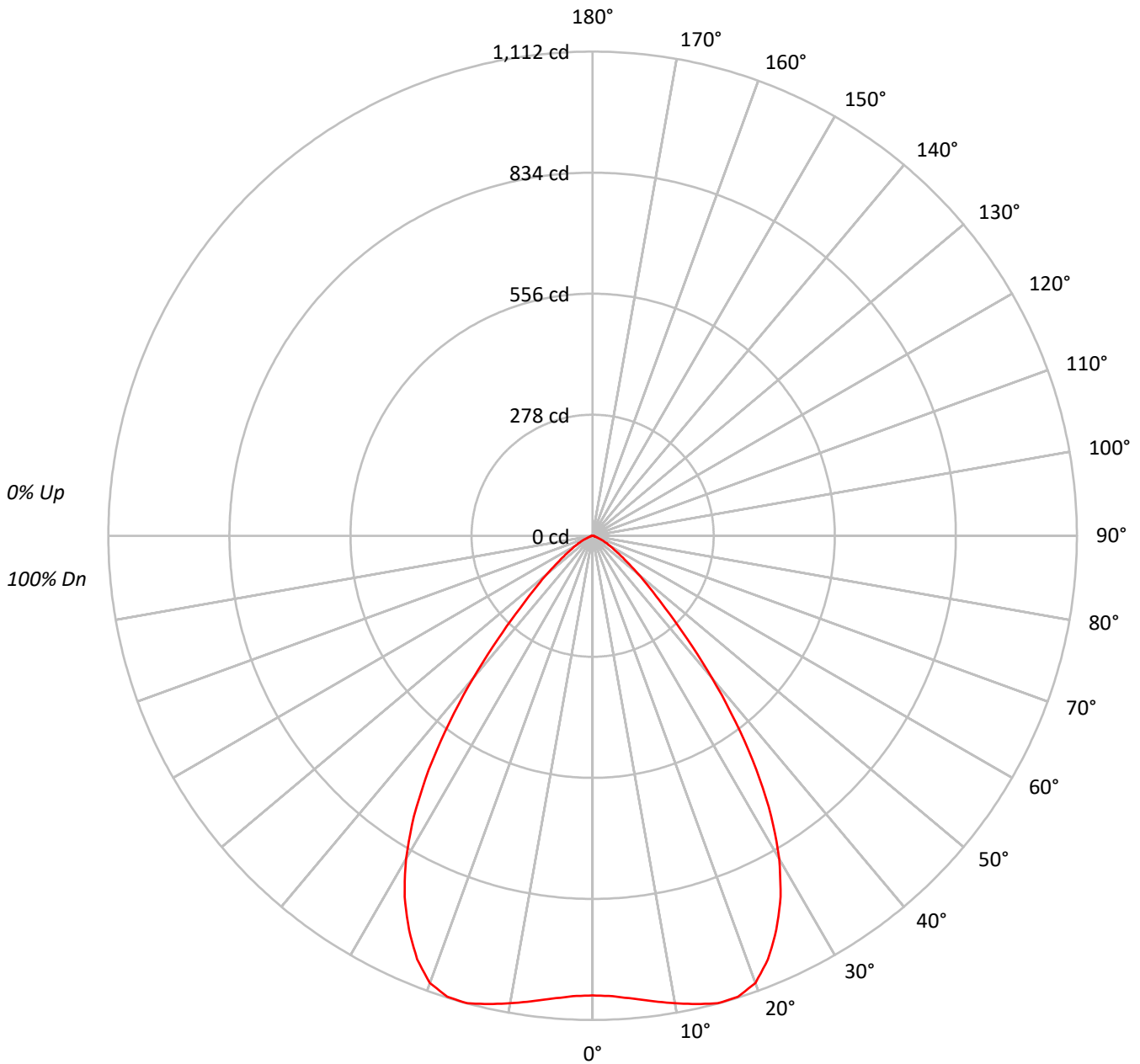
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P643229

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 1200LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643229

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 1200LM - 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																			
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																			
2	106	100	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	85	79	74	92	84	78	73	82	76	72	79	75	72	78	74	71	69																			
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58																			
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53																			
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49																			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																			

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

	0°
0°	57863
5°	58717
10°	60676
15°	63082
20°	63752
25°	60360
30°	54249
35°	43881
40°	30457
45°	18281
50°	11650
55°	7283
60°	4890
65°	3165
70°	1619
75°	911
80°	916
85°	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18281 cd/sqm



TEST NUMBER: P643229

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 1200LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.6	6.5
10°-20°	313.0	19.9
20°-30°	455.1	29.0
30°-40°	402.9	25.6
40°-50°	193.6	12.3
50°-60°	72.1	4.6
60°-70°	24.7	1.6
70°-80°	5.5	0.4
80°-90°	1.9	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°	870.6	55.4
0°-40°	1273.5	81.0
0°-60°	1539.3	98.0
0°-90°	1571.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1571.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1056	
5°	1067	103
15°	1112	313
25°	998	455
35°	656	403
45°	236	194
55°	76	72
65°	24	25
75°	4	6
85°	1	2
90°	0	



TEST NUMBER: P643229

CATALOG NUMBER: ML5615LSVWFL759FS1E - 691WB - 1200LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1055.5
2.5°	1058.3
5°	1067.0
7.5°	1078.5
10°	1090.0
12.5°	1101.5
15°	1111.5
17.5°	1110.1
20°	1092.8
22.5°	1052.6
25°	997.9
27.5°	934.7
30°	857.0
32.5°	763.5
35°	655.7
37.5°	539.2
40°	425.6
42.5°	320.7
45°	235.8
47.5°	178.3
50°	136.6
52.5°	100.7
55°	76.2
57.5°	57.5
60°	44.6
62.5°	34.5
65°	24.4
67.5°	14.4
70°	10.1
72.5°	5.8
75°	4.3
77.5°	4.3
80°	2.9
82.5°	2.9
85°	1.4
87.5°	1.4
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)