

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: P643334

Luminaire Tested: ML5615LSVWFL759FS1E - 693WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643334  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-86)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 693WB - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1562.9 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

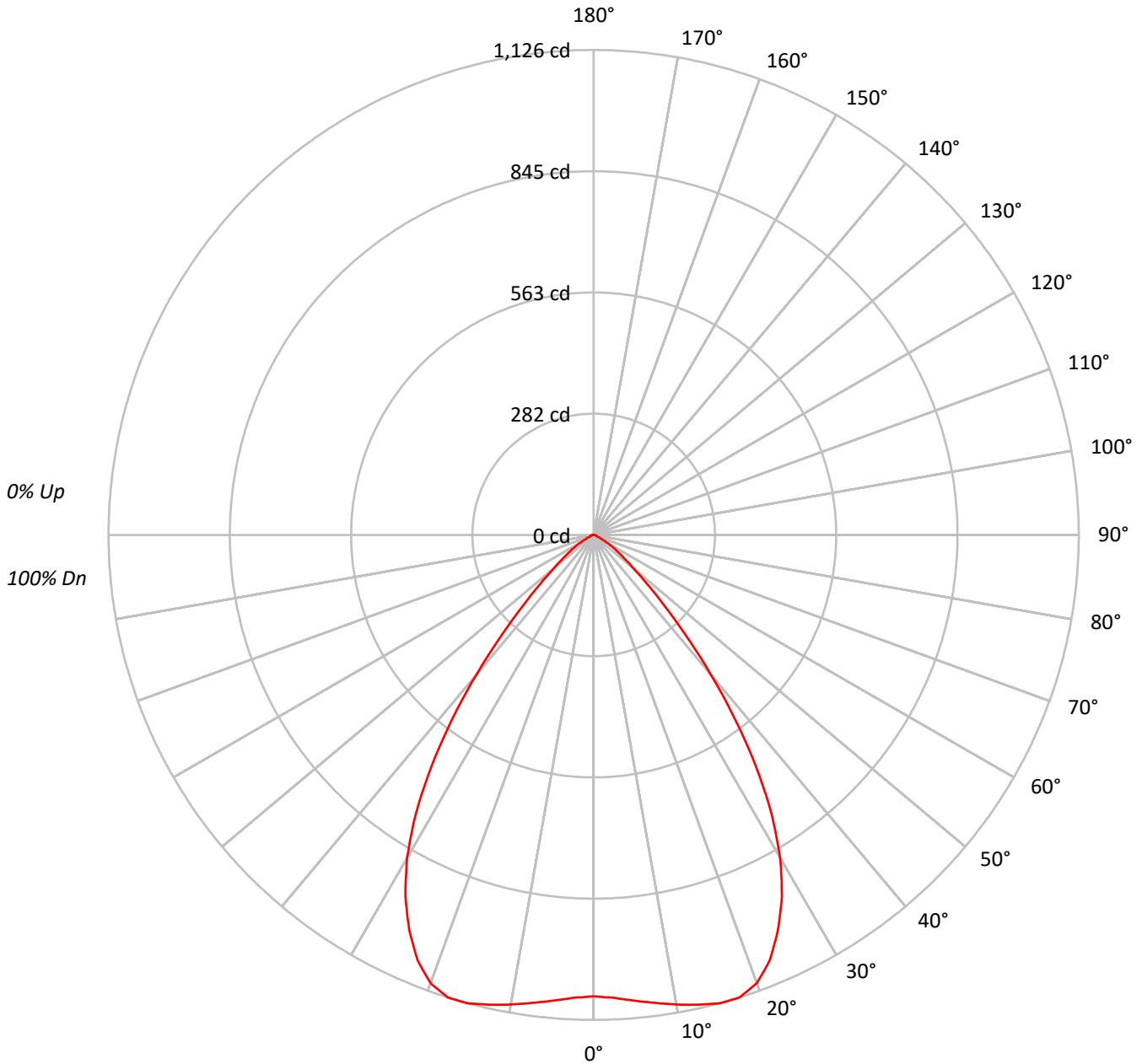
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P643334

CATALOG NUMBER: ML5615LSVWFL759FS1E - 693WB - 1200LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643334

CATALOG NUMBER: ML5615LSVWFL759FS1E - 693WB - 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			100																
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84																
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76																
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70																
5	88	79	72	67	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64																
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	63	60	58			58																
7	78	68	61	56	77	67	61	56	66	60	56	65	59	56	63	59	55	54			54																
8	74	63	57	52	73	63	56	52	61	56	52	60	55	51	59	55	51	50			50																
9	70	59	52	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			46																
10	66	55	49	45	65	55	49	44	54	48	44	53	48	44	52	48	44	43			43																

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

	0°
0°	58734
5°	59746
10°	61639
15°	63905
20°	64598
25°	61237
30°	54800
35°	43982
40°	30257
45°	17839
50°	10302
55°	6461
60°	3947
65°	1868
70°	1154
75°	1228
80°	1357
85°	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17839 cd/sqm



TEST NUMBER: P643334

CATALOG NUMBER: ML5615LSVWFL759FS1E - 693WB - 1200LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	6.7
10°-20°	317.3	20.3
20°-30°	461.2	29.5
30°-40°	404.4	25.9
40°-50°	187.5	12.0
50°-60°	63.7	4.1
60°-70°	15.9	1.0
70°-80°	6.5	0.4
80°-90°	2.1	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°	882.8	56.5
0°-40°	1287.2	82.4
0°-60°	1538.4	98.4
0°-90°	1562.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1562.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1071	
5°	1086	104
15°	1126	317
25°	1012	461
35°	657	404
45°	230	188
55°	68	64
65°	14	16
75°	6	6
85°	1	2
90°	0	



TEST NUMBER: P643334

CATALOG NUMBER: ML5615LSVWFL759FS1E - 693WB - 1200LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1071.4
2.5°	1075.7
5°	1085.7
7.5°	1095.8
10°	1107.3
12.5°	1117.4
15°	1126.0
17.5°	1126.0
20°	1107.3
22.5°	1068.5
25°	1012.4
27.5°	946.2
30°	865.7
32.5°	769.4
35°	657.2
37.5°	539.3
40°	422.8
42.5°	316.4
45°	230.1
47.5°	166.8
50°	120.8
52.5°	89.2
55°	67.6
57.5°	51.8
60°	36.0
62.5°	20.1
65°	14.4
67.5°	8.6
70°	7.2
72.5°	7.2
75°	5.8
77.5°	5.8
80°	4.3
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)