

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: P643200

Luminaire Tested: ML5615LSVWFL759FS1E - 594WB - 1200LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643200  
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 - 1200LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

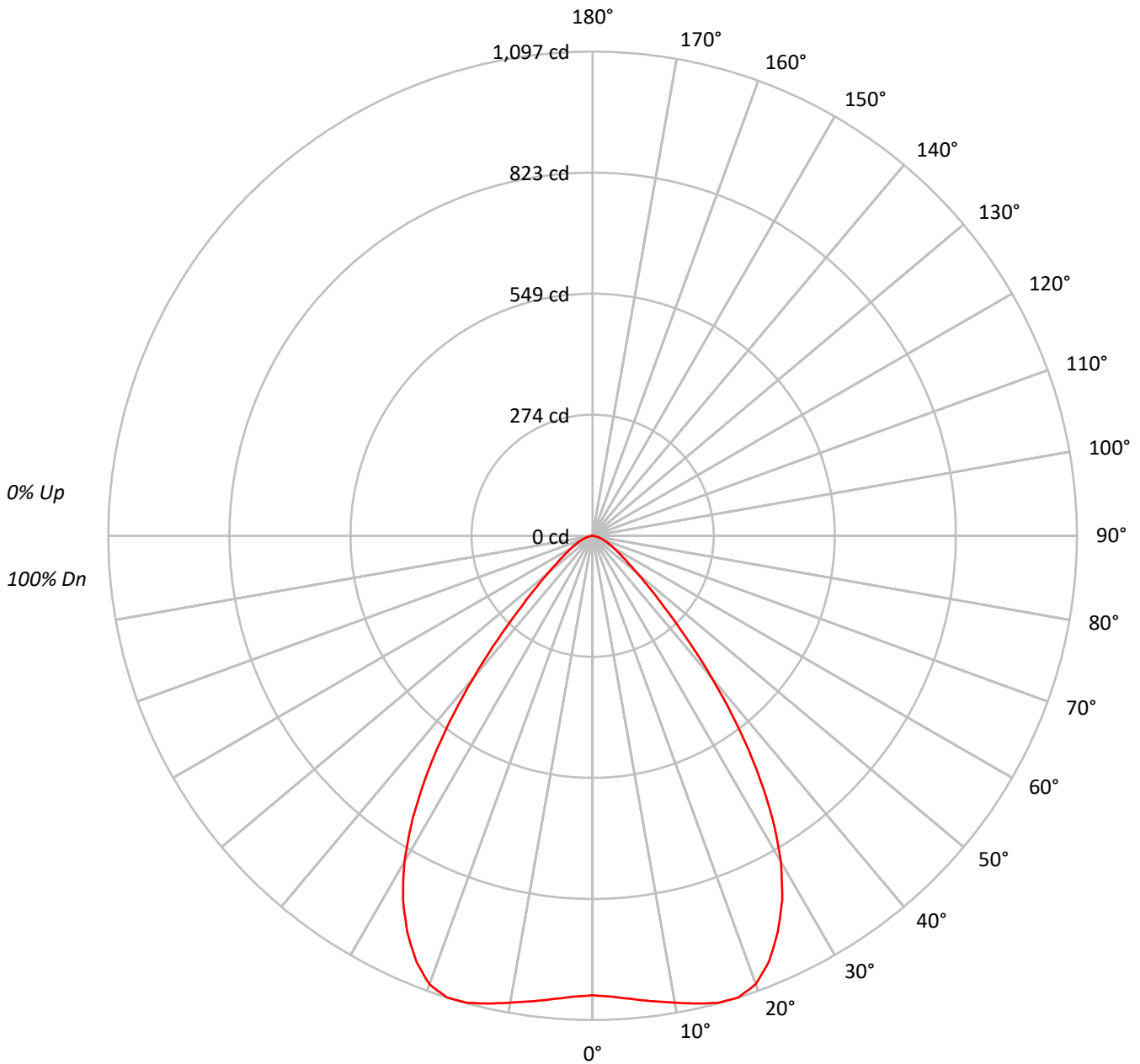
Lumens per Lamp: N/A  
Luminaire Lumens: 1582.2 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P643200

CATALOG NUMBER: ML5615LSVWFL759FS1E - 594WB - 1200LM - 5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643200

CATALOG NUMBER: ML5615LSVWFL759FS1E - 594WB - 1200LM - 5000K

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

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

	0°
0°	82170
5°	83514
10°	86090
15°	89539
20°	90829
25°	86405
30°	77717
35°	62486
40°	43116
45°	25677
50°	16248
55°	11286
60°	8620
65°	6986
70°	5632
75°	4392
80°	2637
85°	1268

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25677 cd/sqm



TEST NUMBER: P643200

CATALOG NUMBER: ML5615LSVWFL759FS1E - 594WB - 1200LM - 5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.2	6.4
10°-20°	308.9	19.5
20°-30°	452.0	28.6
30°-40°	399.0	25.2
40°-50°	189.2	12.0
50°-60°	76.4	4.8
60°-70°	38.2	2.4
70°-80°	15.3	1.0
80°-90°	2.0	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°	862.1	54.5
0°-40°	1261.1	79.7
0°-60°	1526.8	96.5
0°-90°	1582.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1582.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1041	
5°	1054	101
15°	1096	309
25°	992	452
35°	648	399
45°	230	189
55°	82	76
65°	37	38
75°	14	15
85°	1	2
90°	0	



TEST NUMBER: P643200

CATALOG NUMBER: ML5615LSVWFL759FS1E - 594WB - 1200LM - 5000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1040.9
2.5°	1045.2
5°	1053.9
7.5°	1063.9
10°	1074.0
12.5°	1085.5
15°	1095.6
17.5°	1097.0
20°	1081.2
22.5°	1043.8
25°	992.0
27.5°	930.2
30°	852.6
32.5°	757.7
35°	648.4
37.5°	533.4
40°	418.4
42.5°	314.9
45°	230.0
47.5°	172.5
50°	132.3
52.5°	102.1
55°	82.0
57.5°	66.1
60°	54.6
62.5°	46.0
65°	37.4
67.5°	31.6
70°	24.4
72.5°	18.7
75°	14.4
77.5°	10.1
80°	5.8
82.5°	2.9
85°	1.4
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)