

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: P643244

Luminaire Tested: ML5615LSVWFL759FS1E - 692H - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643244  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-84)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 692H - 1200LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1559.9 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.08  
Luminous Opening: Circular (Dia: 0.17' x H: 0')  
CIE Type: Direct

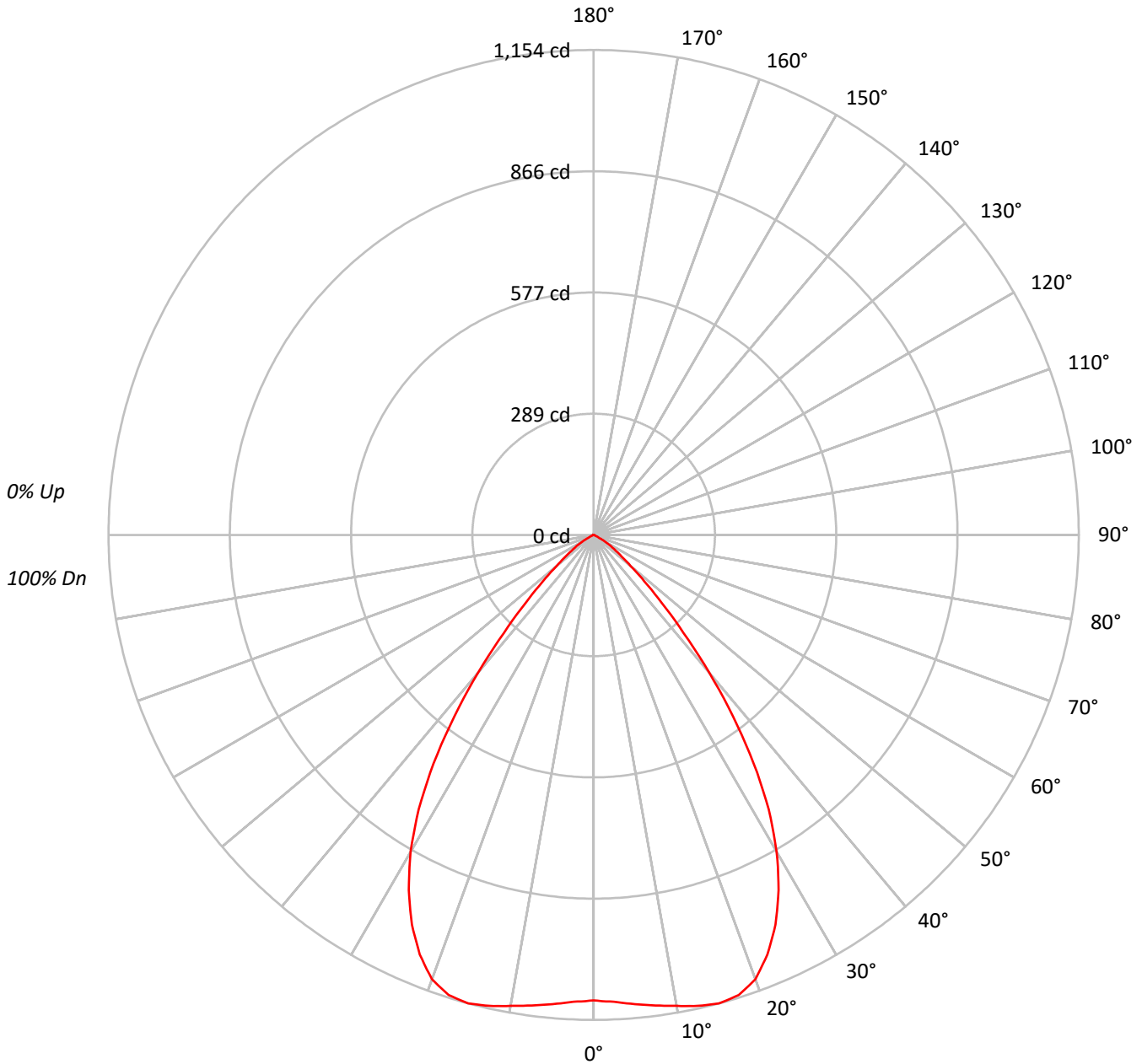
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P643244

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692H - 1200LM - 4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643244

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692H - 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	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92				92															
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84				84															
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77				77															
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70				70															
5	89	80	73	68	87	79	73	68	77	71	67	75	70	67	73	69	66	65				65															
6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	69	64	61	59				59															
7	79	69	62	57	77	68	62	57	67	61	57	65	60	56	64	60	56	55				55															
8	74	64	57	53	73	63	57	53	62	56	52	61	56	52	60	55	52	50				50															
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47				47															
10	67	56	50	45	66	55	49	45	55	49	45	54	49	45	53	48	45	43				43															

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

	0°
0°	546566
5°	555043
10°	570127
15°	589343
20°	590726
25°	556905
30°	496043
35°	399810
40°	274821
45°	159435
50°	88193
55°	53159
60°	28320
65°	8406
70°	2020
75°	2669
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 159435 cd/sqm



TEST NUMBER: P643244

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692H - 1200LM - 4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.5	6.9
10°-20°	324.6	20.8
20°-30°	465.7	29.9
30°-40°	407.8	26.1
40°-50°	186.3	11.9
50°-60°	57.9	3.7
60°-70°	9.3	0.6
70°-80°	0.9	0.1
80°-90°	0.0	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°	897.7	57.5
0°-40°	1305.5	83.7
0°-60°	1549.7	99.3
0°-90°	1559.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1559.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1108	
5°	1121	108
15°	1154	325
25°	1023	466
35°	664	408
45°	228	186
55°	62	58
65°	7	9
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P643244

CATALOG NUMBER: ML5615LSVWFL759FS1E - 692H - 1200LM - 4000K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1107.8
2.5°	1112.1
5°	1120.7
7.5°	1129.4
10°	1138.0
12.5°	1148.0
15°	1153.8
17.5°	1148.0
20°	1125.1
22.5°	1080.5
25°	1023.0
27.5°	952.6
30°	870.7
32.5°	774.5
35°	663.8
37.5°	544.6
40°	426.7
42.5°	316.1
45°	228.5
47.5°	163.8
50°	114.9
52.5°	83.3
55°	61.8
57.5°	44.5
60°	28.7
62.5°	12.9
65°	7.2
67.5°	2.9
70°	1.4
72.5°	1.4
75°	1.4
77.5°	0.0
80°	0.0
82.5°	0.0
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)