

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: P643937

Luminaire Tested: ML5615LSWFL559FS1E - 692H - 1500LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-61)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 692H - 1500LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 6" HAZE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

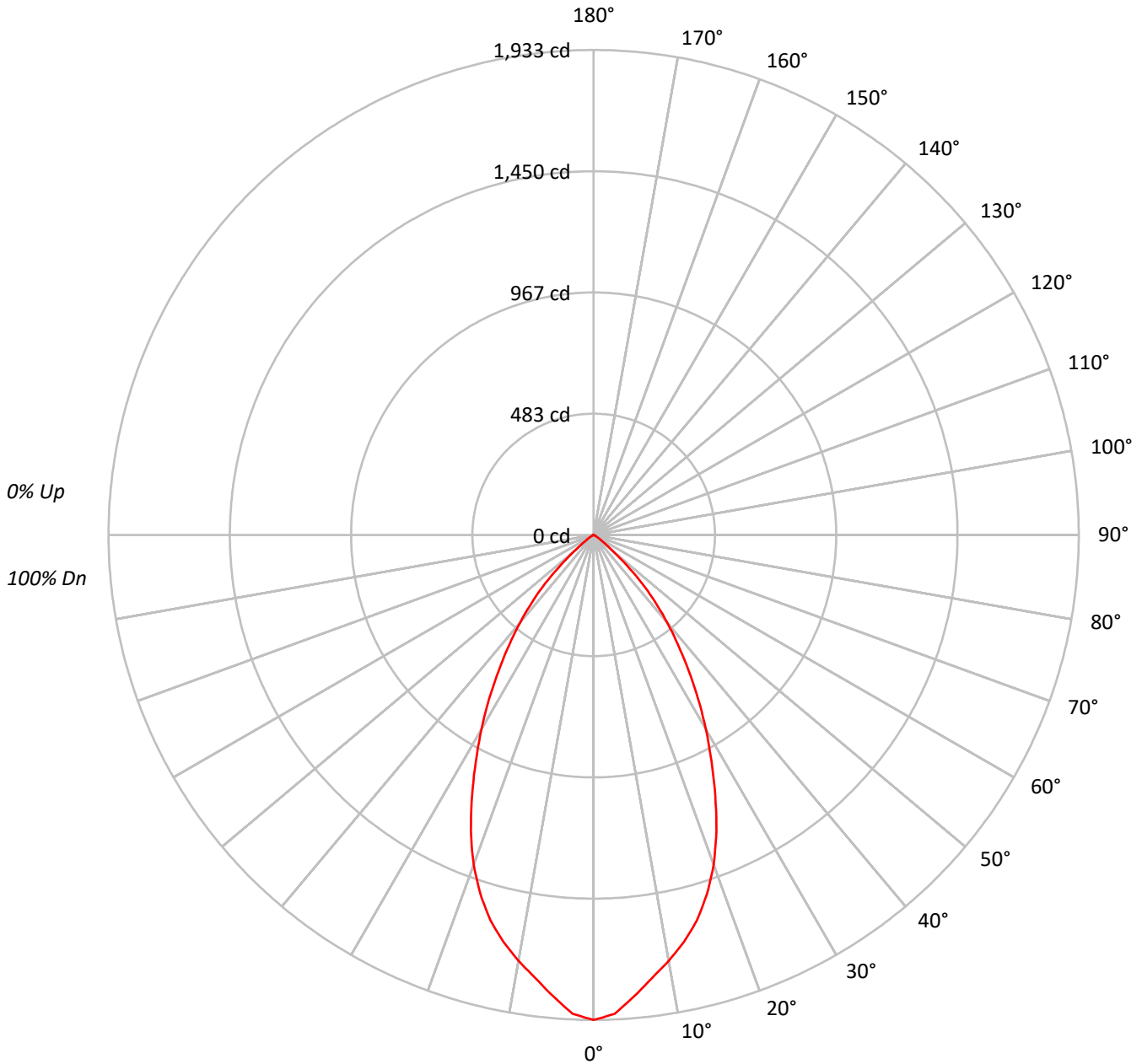
Lumens per Lamp: N/A  
Luminaire Lumens: 1802.4 lumens  
Efficiency: N/A  
Efficacy: 105.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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: P643937  
CATALOG NUMBER: ML5615LSWFL559FS1E - 692H - 1500LM - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P643937

CATALOG NUMBER: ML5615LSWFL559FS1E - 692H - 1500LM - 3000K

**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	100	100
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93	93	93	93
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86	86	86	86
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79	79	79	79
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73	73	73	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67	67	67	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62	62	62	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58	58	58	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54	54	54	54
9	73	63	57	52	72	62	56	52	61	56	52	60	56	52	60	55	52	50	50	50	50
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47	47	47	47

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

	0°
0°	105967
5°	101618
10°	95929
15°	90267
20°	81586
25°	69300
30°	56521
35°	44122
40°	32633
45°	21212
50°	8733
55°	3364
60°	1579
65°	415
70°	256
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21212 cd/sqm



TEST NUMBER: P643937

CATALOG NUMBER: ML5615LSWFL559FS1E - 692H - 1500LM - 3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	172.4	9.6
10°-20°	442.7	24.6
20°-30°	523.7	29.1
30°-40°	412.4	22.9
40°-50°	207.6	11.5
50°-60°	38.3	2.1
60°-70°	4.7	0.3
70°-80°	0.6	0.0
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°	1138.8	63.2
0°-40°	1551.2	86.1
0°-60°	1797.1	99.7
0°-90°	1802.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1802.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1933	
5°	1847	172
15°	1590	443
25°	1146	524
35°	659	412
45°	274	208
55°	35	38
65°	3	5
75°	0	1
85°	0	0
90°	0	



TEST NUMBER: P643937

CATALOG NUMBER: ML5615LSWFL559FS1E - 692H - 1500LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1933.0
2.5°	1910.6
5°	1846.6
7.5°	1780.9
10°	1723.3
12.5°	1660.9
15°	1590.5
17.5°	1500.9
20°	1398.5
22.5°	1278.5
25°	1145.7
27.5°	1016.1
30°	892.9
32.5°	774.5
35°	659.3
37.5°	552.0
40°	456.0
42.5°	361.6
45°	273.6
47.5°	177.6
50°	102.4
52.5°	56.0
55°	35.2
57.5°	24.0
60°	14.4
62.5°	6.4
65°	3.2
67.5°	1.6
70°	1.6
72.5°	1.6
75°	0.0
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)