

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: P643967

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

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643967  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-62)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 692W - 1500LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

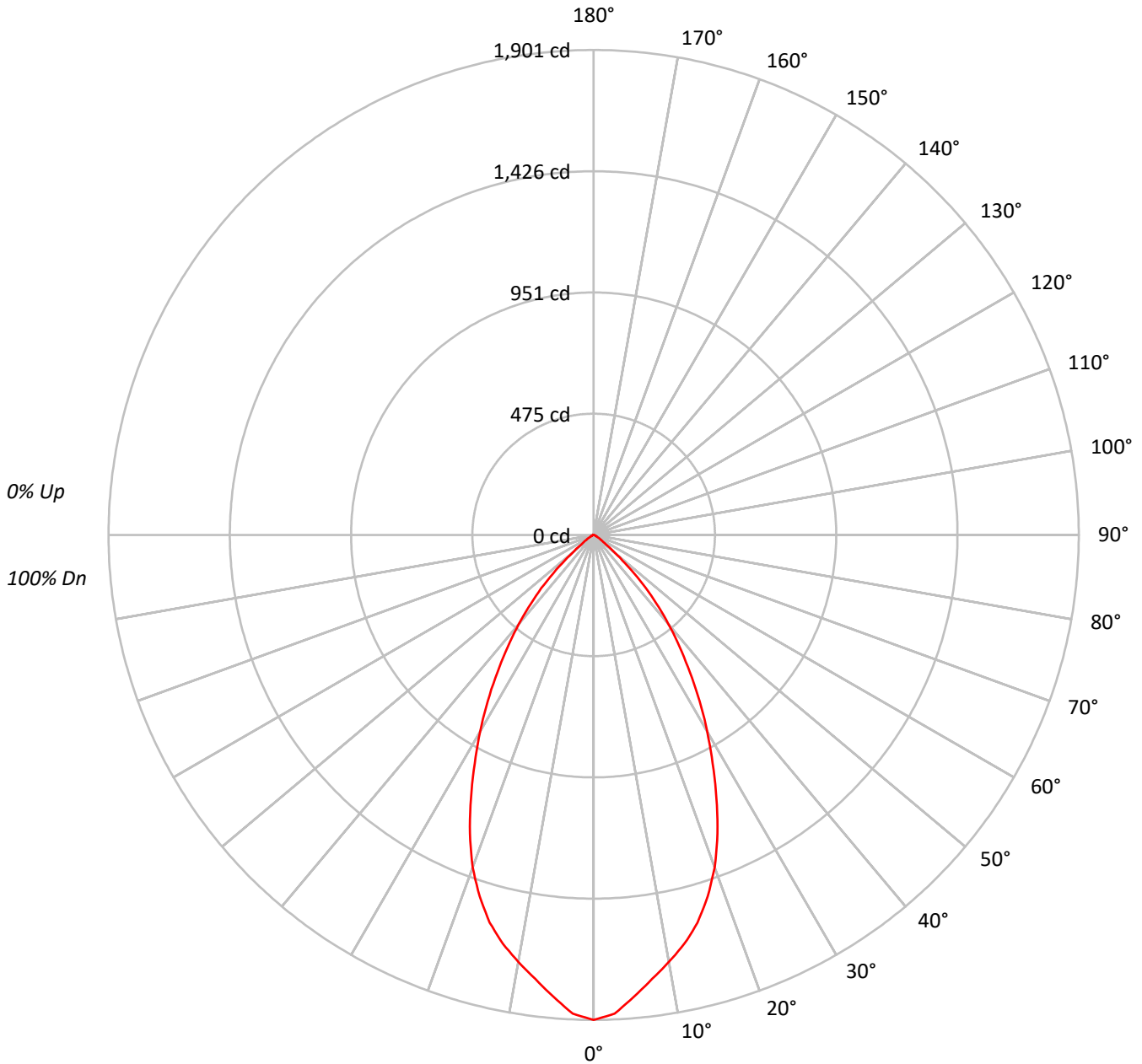
Lumens per Lamp: N/A  
Luminaire Lumens: 1807.3 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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



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### Luminous Intensity Polar Plot





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**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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93				93															
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85															
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	79				79															
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72				72															
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67				67															
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62				62															
7	81	71	65	60	79	70	64	60	69	63	60	68	63	59	67	62	59	57				57															
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53				53															
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50				50															
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47				47															

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

	0°
0°	104219
5°	99950
10°	94610
15°	89291
20°	80869
25°	68859
30°	56274
35°	43975
40°	32611
45°	21320
50°	9134
55°	3823
60°	2105
65°	1245
70°	1026
75°	1017
80°	1010
85°	1006

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21320 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.8	9.4
10°-20°	437.9	24.2
20°-30°	520.0	28.8
30°-40°	411.6	22.8
40°-50°	209.2	11.6
50°-60°	42.6	2.4
60°-70°	10.2	0.6
70°-80°	4.6	0.3
80°-90°	1.3	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°	1127.7	62.4
0°-40°	1539.3	85.2
0°-60°	1791.1	99.1
0°-90°	1807.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1807.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1901	
5°	1816	170
15°	1573	438
25°	1138	520
35°	657	412
45°	275	209
55°	40	43
65°	10	10
75°	5	5
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1901.1
2.5°	1878.7
5°	1816.3
7.5°	1755.6
10°	1699.6
12.5°	1642.0
15°	1573.3
17.5°	1485.3
20°	1386.2
22.5°	1267.9
25°	1138.4
27.5°	1008.9
30°	889.0
32.5°	772.3
35°	657.1
37.5°	553.2
40°	455.7
42.5°	362.9
45°	275.0
47.5°	180.7
50°	107.1
52.5°	60.8
55°	40.0
57.5°	28.8
60°	19.2
62.5°	12.8
65°	9.6
67.5°	6.4
70°	6.4
72.5°	4.8
75°	4.8
77.5°	3.2
80°	3.2
82.5°	1.6
85°	1.6
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

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— 0°-180°

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Scaled Data Report



(END OF REPORT)