

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: P643968

Luminaire Tested: ML5615LSWFL559FS1E - 692W - 1500LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643968  
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 - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

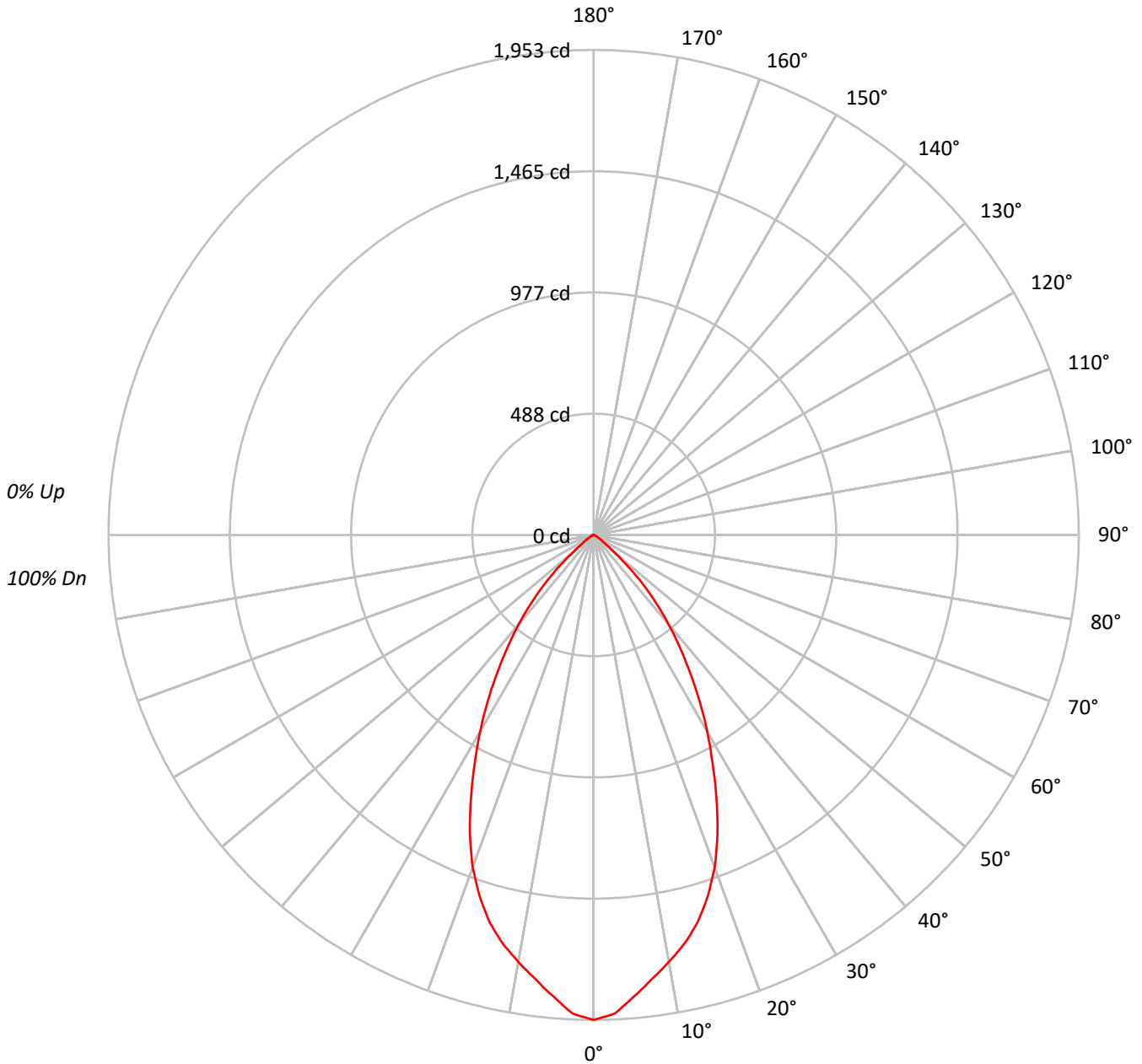
Lumens per Lamp: N/A  
Luminaire Lumens: 1856.5 lumens  
Efficiency: N/A  
Efficacy: 108.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	79																			
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72																			
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67																			
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62																			
7	81	71	65	60	79	70	64	60	69	63	60	68	63	59	67	62	59	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50																			
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47																			

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

	0°
0°	107053
5°	102674
10°	97187
15°	91720
20°	83074
25°	70734
30°	57806
35°	45173
40°	33498
45°	21901
50°	9381
55°	3928
60°	2160
65°	1284
70°	1058
75°	1038
80°	1042
85°	1006

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21901 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.4	9.4
10°-20°	449.9	24.2
20°-30°	534.1	28.8
30°-40°	422.8	22.8
40°-50°	214.9	11.6
50°-60°	43.7	2.4
60°-70°	10.5	0.6
70°-80°	4.8	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°	1158.4	62.4
0°-40°	1581.2	85.2
0°-60°	1839.9	99.1
0°-90°	1856.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1953	
5°	1866	174
15°	1616	450
25°	1169	534
35°	675	423
45°	282	215
55°	41	44
65°	10	11
75°	5	5
85°	2	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1952.8
2.5°	1929.8
5°	1865.8
7.5°	1803.3
10°	1745.9
12.5°	1686.7
15°	1616.1
17.5°	1525.8
20°	1424.0
22.5°	1302.4
25°	1169.4
27.5°	1036.3
30°	913.2
32.5°	793.3
35°	675.0
37.5°	568.3
40°	468.1
42.5°	372.8
45°	282.5
47.5°	185.6
50°	110.0
52.5°	62.4
55°	41.1
57.5°	29.6
60°	19.7
62.5°	13.1
65°	9.9
67.5°	6.6
70°	6.6
72.5°	4.9
75°	4.9
77.5°	3.3
80°	3.3
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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(END OF REPORT)