

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: P643783

Luminaire Tested: ML5615LSWFL559FS1E - 592W - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643783  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 592W - 1200LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

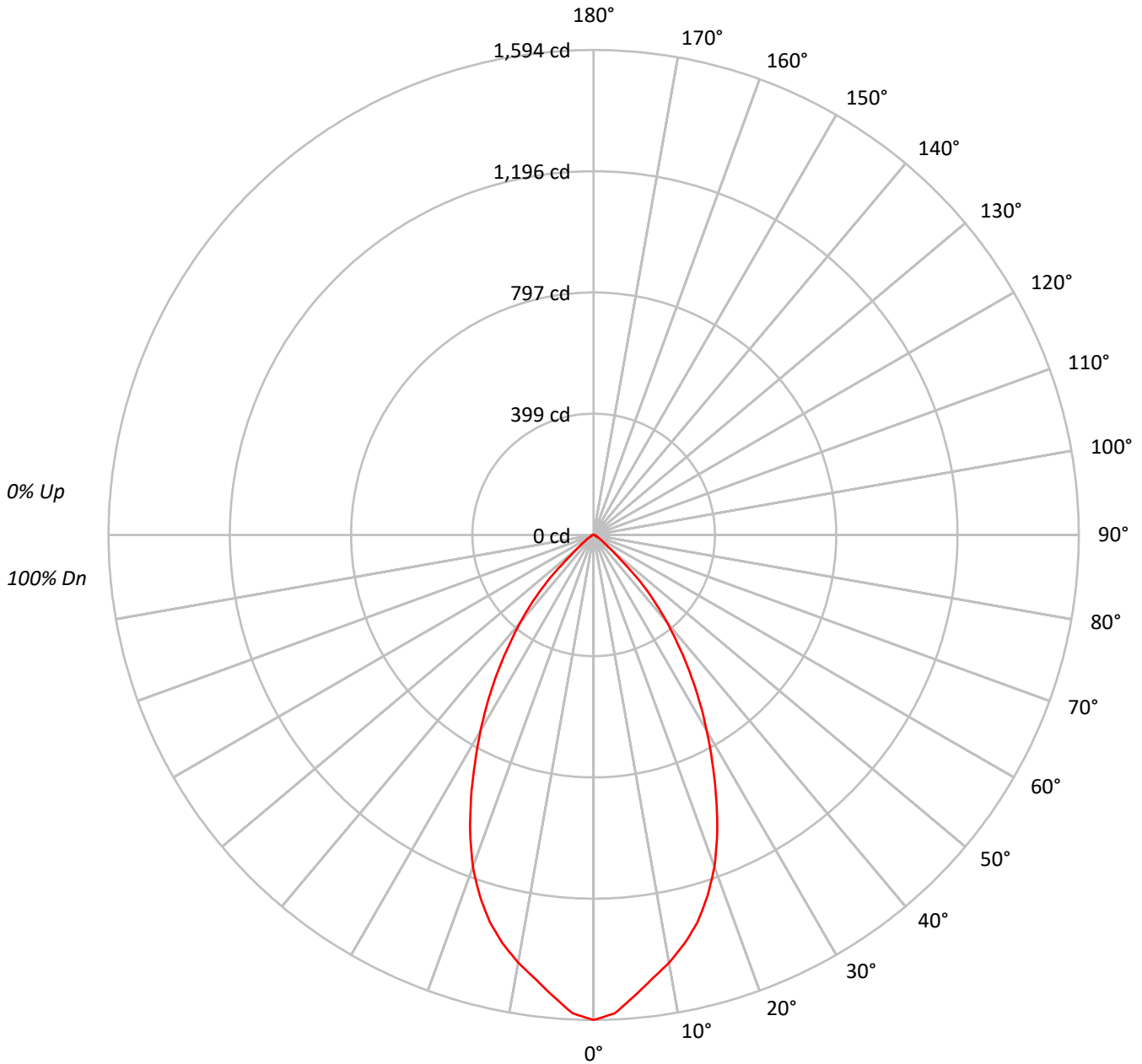
Lumens per Lamp: N/A  
Luminaire Lumens: 1499.3 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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



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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	103	104	102	100	100	99	97	97	96	94	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	86	83	80	79			79																
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72																
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67			67																
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62																
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58																
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54																
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50																
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47																

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

	0°
0°	125856
5°	120615
10°	114403
15°	107682
20°	97448
25°	82990
30°	67727
35°	52926
40°	38561
45°	23868
50°	8695
55°	4597
60°	2321
65°	1756
70°	1846
75°	1617
80°	1818
85°	1177

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23868 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.3	9.5
10°-20°	366.9	24.5
20°-30°	435.1	29.0
30°-40°	342.6	22.8
40°-50°	161.3	10.8
50°-60°	32.8	2.2
60°-70°	10.1	0.7
70°-80°	6.1	0.4
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°	944.4	63.0
0°-40°	1287.0	85.8
0°-60°	1481.1	98.8
0°-90°	1499.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1499.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1594	
5°	1522	142
15°	1318	367
25°	953	435
35°	549	343
45°	214	161
55°	33	33
65°	9	10
75°	5	6
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1594.3
2.5°	1574.2
5°	1522.1
7.5°	1471.3
10°	1427.2
12.5°	1376.4
15°	1317.6
17.5°	1244.1
20°	1160.0
22.5°	1061.1
25°	952.8
27.5°	844.6
30°	743.0
32.5°	645.5
35°	549.2
37.5°	457.0
40°	374.2
42.5°	294.0
45°	213.8
47.5°	120.3
50°	70.8
52.5°	48.1
55°	33.4
57.5°	24.1
60°	14.7
62.5°	12.0
65°	9.4
67.5°	8.0
70°	8.0
72.5°	6.7
75°	5.3
77.5°	5.3
80°	4.0
82.5°	2.7
85°	1.3
87.5°	1.3
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)