

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: P643907

Luminaire Tested: ML5615LSWFL559FS1E - 596WB - 1500LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643907  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 596WB - 1500LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

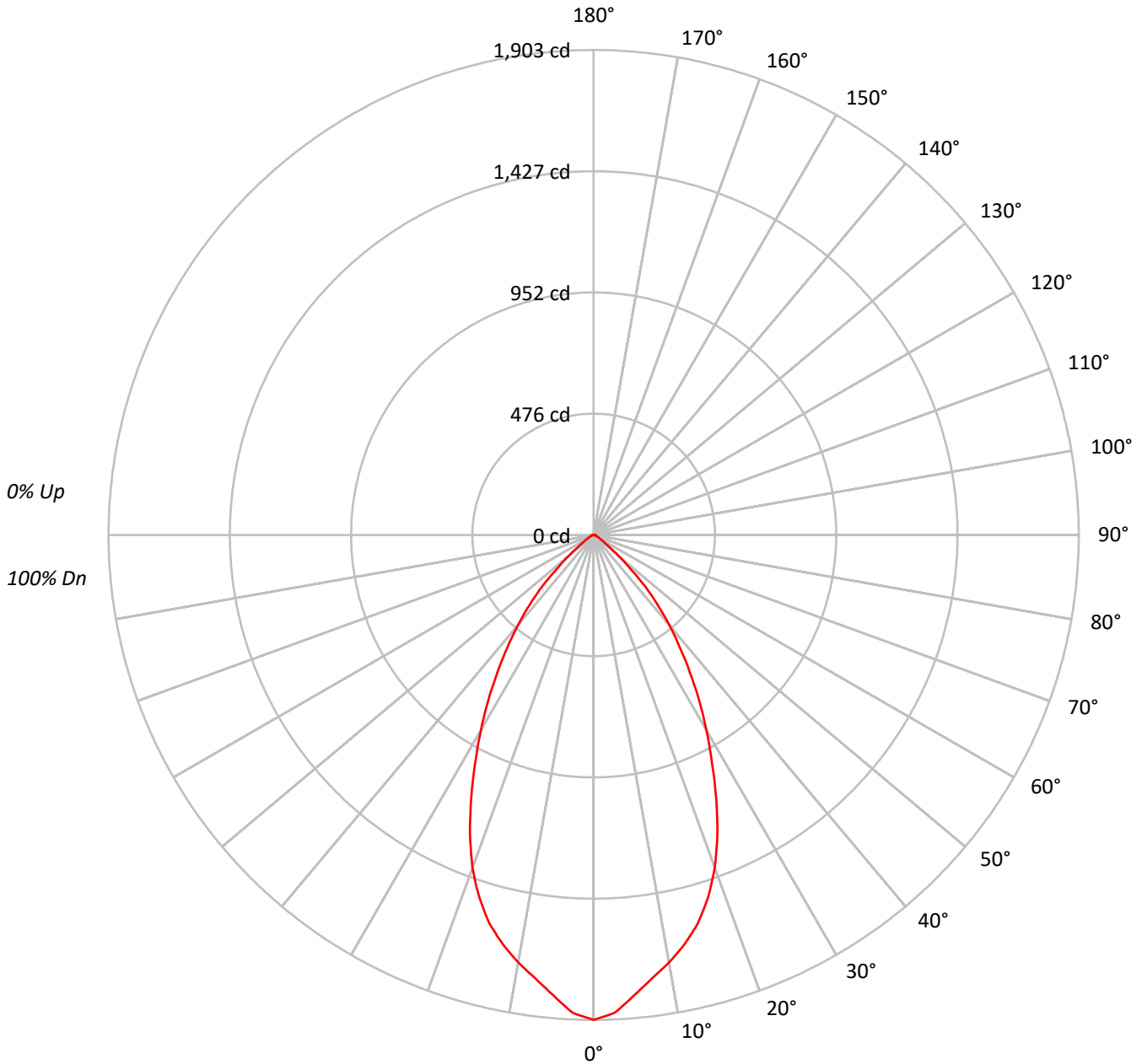
Lumens per Lamp: N/A  
Luminaire Lumens: 1839.3 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (Ain): 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	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	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92																											
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																											
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																											
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72																											
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																											
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61																											
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57																											
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																											
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																											
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46																											

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

	0°
0°	150240
5°	143722
10°	136534
15°	129012
20°	116753
25°	98904
30°	80616
35°	63343
40°	47630
45°	31784
50°	15327
55°	6826
60°	4294
65°	2989
70°	2216
75°	1464
80°	2909
85°	4348

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31784 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.7	9.2
10°-20°	439.4	23.9
20°-30°	519.0	28.2
30°-40°	411.7	22.4
40°-50°	217.0	11.8
50°-60°	52.8	2.9
60°-70°	16.8	0.9
70°-80°	7.6	0.4
80°-90°	5.2	0.3
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°	1128.1	61.3
0°-40°	1539.8	83.7
0°-60°	1809.7	98.4
0°-90°	1839.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1839.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1903	
5°	1814	170
15°	1579	439
25°	1136	519
35°	657	412
45°	285	217
55°	50	53
65°	16	17
75°	5	8
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1903.2
2.5°	1877.6
5°	1813.7
7.5°	1754.5
10°	1703.3
12.5°	1645.7
15°	1578.6
17.5°	1492.2
20°	1389.8
22.5°	1268.3
25°	1135.5
27.5°	1004.4
30°	884.4
32.5°	769.3
35°	657.3
37.5°	555.0
40°	462.2
42.5°	371.1
45°	284.7
47.5°	190.3
50°	124.8
52.5°	78.4
55°	49.6
57.5°	35.2
60°	27.2
62.5°	20.8
65°	16.0
67.5°	12.8
70°	9.6
72.5°	8.0
75°	4.8
77.5°	8.0
80°	6.4
82.5°	6.4
85°	4.8
87.5°	4.8
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)