

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: P643877

Luminaire Tested: ML5615LSWFL559FS1E - 594TBZB - 1500LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 594TBZB - 1500LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1818.5 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

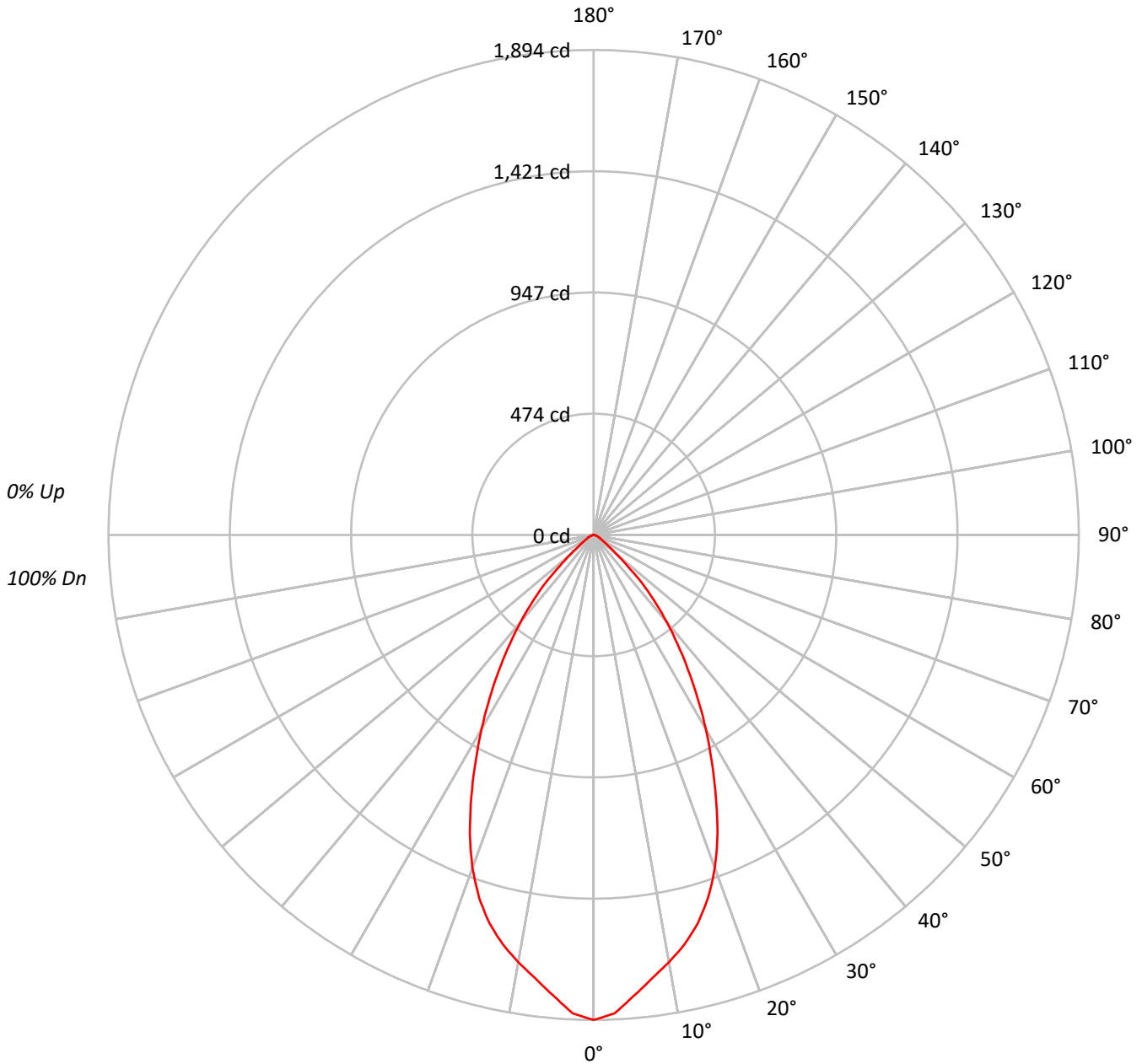
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									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	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	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92											92																	
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85											85																	
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78											78																	
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72											72																	
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66											66																	
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61											61																	
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57											57																	
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53											53																	
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49											49																	
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46											46																	

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

	0°
0°	149514
5°	143112
10°	135797
15°	128383
20°	116241
25°	98373
30°	79759
35°	61975
40°	45661
45°	29997
50°	14541
55°	7707
60°	5052
65°	4184
70°	3324
75°	2440
80°	1455
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29997 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.0	9.3
10°-20°	437.3	24.1
20°-30°	516.1	28.4
30°-40°	402.2	22.1
40°-50°	205.7	11.3
50°-60°	56.0	3.1
60°-70°	22.7	1.2
70°-80°	8.6	0.5
80°-90°	0.9	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°	1122.4	61.7
0°-40°	1524.6	83.8
0°-60°	1786.2	98.2
0°-90°	1818.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1818.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1894	
5°	1806	169
15°	1571	437
25°	1129	516
35°	643	402
45°	269	206
55°	56	56
65°	22	23
75°	8	9
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1894.0
2.5°	1870.0
5°	1806.0
7.5°	1746.8
10°	1694.1
12.5°	1638.1
15°	1570.9
17.5°	1486.1
20°	1383.7
22.5°	1263.7
25°	1129.4
27.5°	998.2
30°	875.0
32.5°	755.0
35°	643.1
37.5°	537.5
40°	443.1
42.5°	353.5
45°	268.7
47.5°	177.6
50°	118.4
52.5°	80.0
55°	56.0
57.5°	41.6
60°	32.0
62.5°	27.2
65°	22.4
67.5°	19.2
70°	14.4
72.5°	11.2
75°	8.0
77.5°	4.8
80°	3.2
82.5°	1.6
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

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— 0°-180°

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Scaled Data Report



(END OF REPORT)