

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P644041

Luminaire Tested: ML5615LSWFL559FS1E - 694TBZB - 1500LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644041  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-68)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 694TBZB - 1500LM - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1769.5 lumens  
Efficiency: N/A  
Efficacy: 103.5 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

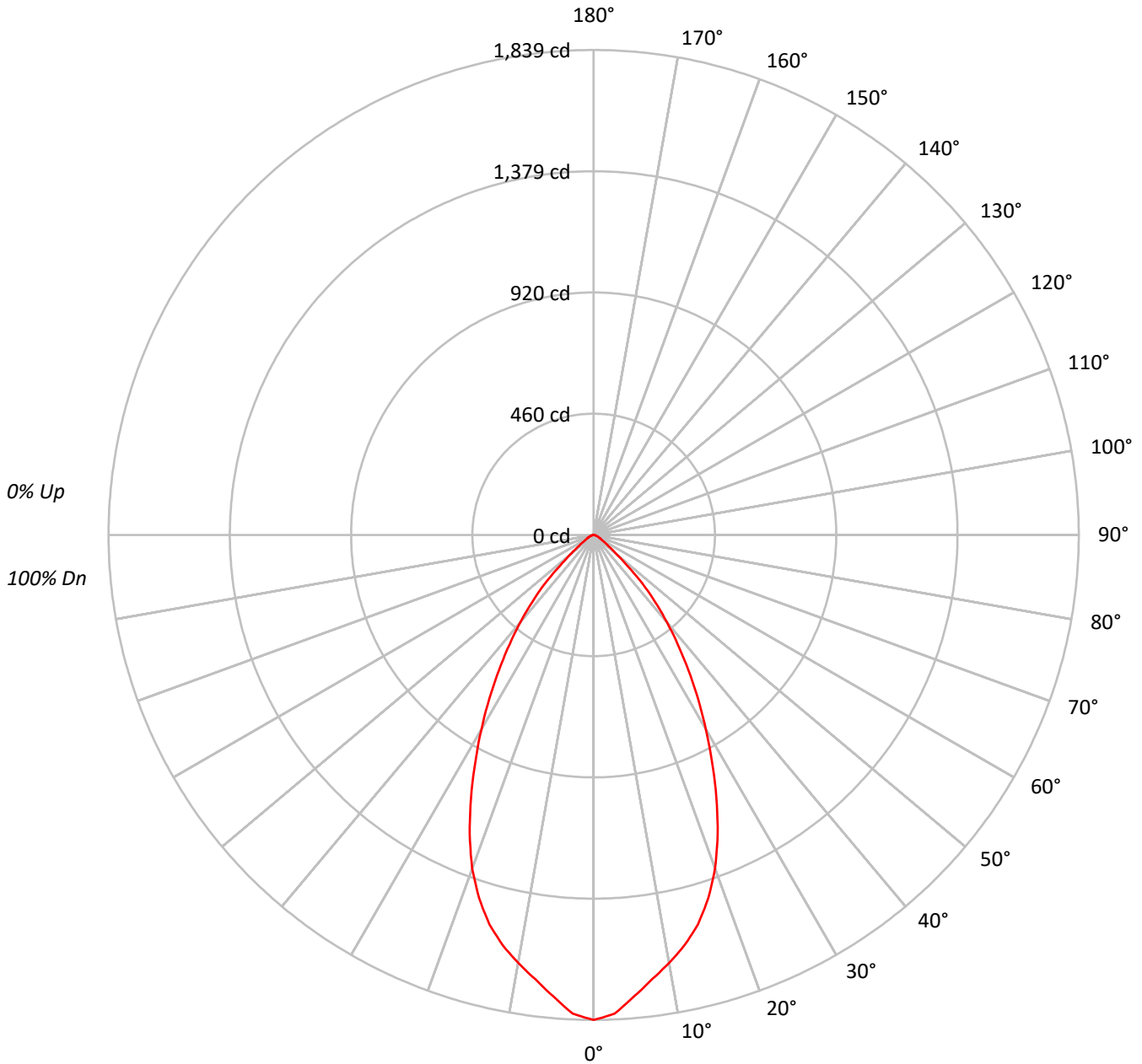
Input Watts (W): 17.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	100825
5°	96676
10°	91737
15°	86737
20°	78547
25°	66578
30°	53831
35°	41827
40°	30929
45°	20366
50°	9808
55°	5199
60°	3410
65°	2828
70°	2244
75°	1652
80°	979
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20366 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.3	9.3
10°-20°	425.4	24.0
20°-30°	502.2	28.4
30°-40°	391.5	22.1
40°-50°	200.3	11.3
50°-60°	54.4	3.1
60°-70°	22.1	1.2
70°-80°	8.4	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°	1091.9	61.7
0°-40°	1483.4	83.8
0°-60°	1738.1	98.2
0°-90°	1769.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1769.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1839	
5°	1757	164
15°	1528	425
25°	1101	502
35°	625	392
45°	263	200
55°	54	54
65°	22	22
75°	8	8
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1839.2
2.5°	1817.5
5°	1756.8
7.5°	1699.3
10°	1648.0
12.5°	1593.6
15°	1528.3
17.5°	1444.3
20°	1346.4
22.5°	1228.2
25°	1100.7
27.5°	971.7
30°	850.4
32.5°	735.4
35°	625.0
37.5°	523.9
40°	432.2
42.5°	343.6
45°	262.7
47.5°	172.6
50°	115.0
52.5°	77.7
55°	54.4
57.5°	40.4
60°	31.1
62.5°	26.4
65°	21.8
67.5°	18.7
70°	14.0
72.5°	10.9
75°	7.8
77.5°	4.7
80°	3.1
82.5°	1.6
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)