

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: P644042

Luminaire Tested: ML5615LSWFL559FS1E - 694TBZB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644042
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 - 3000K
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1820.1 lumens
Efficiency: N/A
Efficacy: 106.4 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

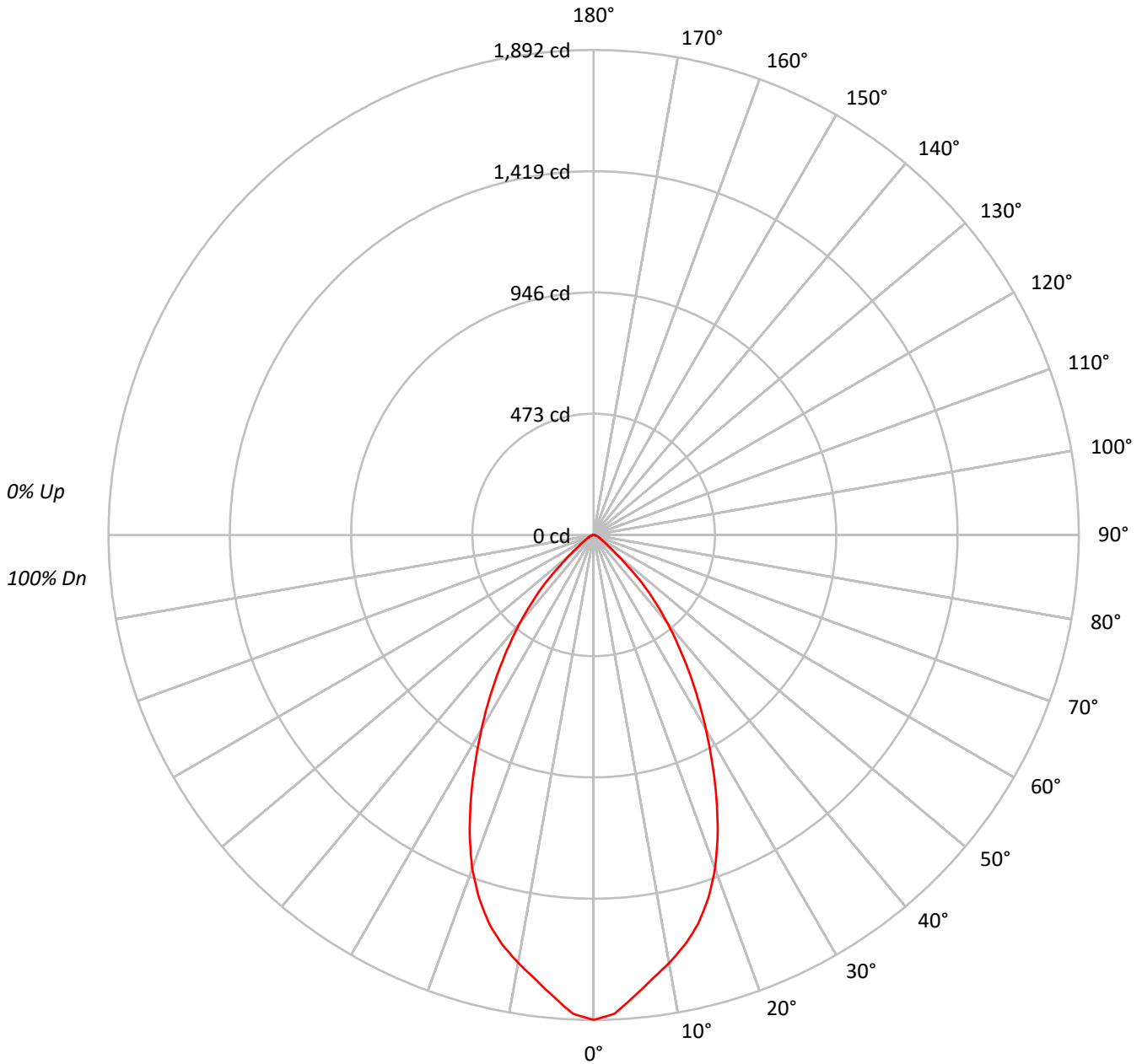
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	103709
5°	99438
10°	94359
15°	89217
20°	80793
25°	68484
30°	55369
35°	43025
40°	31817
45°	20956
50°	10089
55°	5352
60°	3508
65°	2906
70°	2308
75°	1694
80°	1010
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20956 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.0	9.3
10°-20°	437.5	24.0
20°-30°	516.6	28.4
30°-40°	402.7	22.1
40°-50°	206.1	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°	1123.1	61.7
0°-40°	1525.8	83.8
0°-60°	1787.9	98.2
0°-90°	1820.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1820.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1892	
5°	1807	169
15°	1572	438
25°	1132	517
35°	643	403
45°	270	206
55°	56	56
65°	22	23
75°	8	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1891.8
2.5°	1869.4
5°	1807.0
7.5°	1747.9
10°	1695.1
12.5°	1639.1
15°	1572.0
17.5°	1485.6
20°	1384.9
22.5°	1263.3
25°	1132.2
27.5°	999.5
30°	874.7
32.5°	756.4
35°	642.9
37.5°	538.9
40°	444.6
42.5°	353.4
45°	270.3
47.5°	177.5
50°	118.3
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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(END OF REPORT)