

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: P644044

Luminaire Tested: ML5615LSWFL559FS1E - 694TBZB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644044
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 - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2011.6 lumens
Efficiency: N/A
Efficacy: 117.6 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

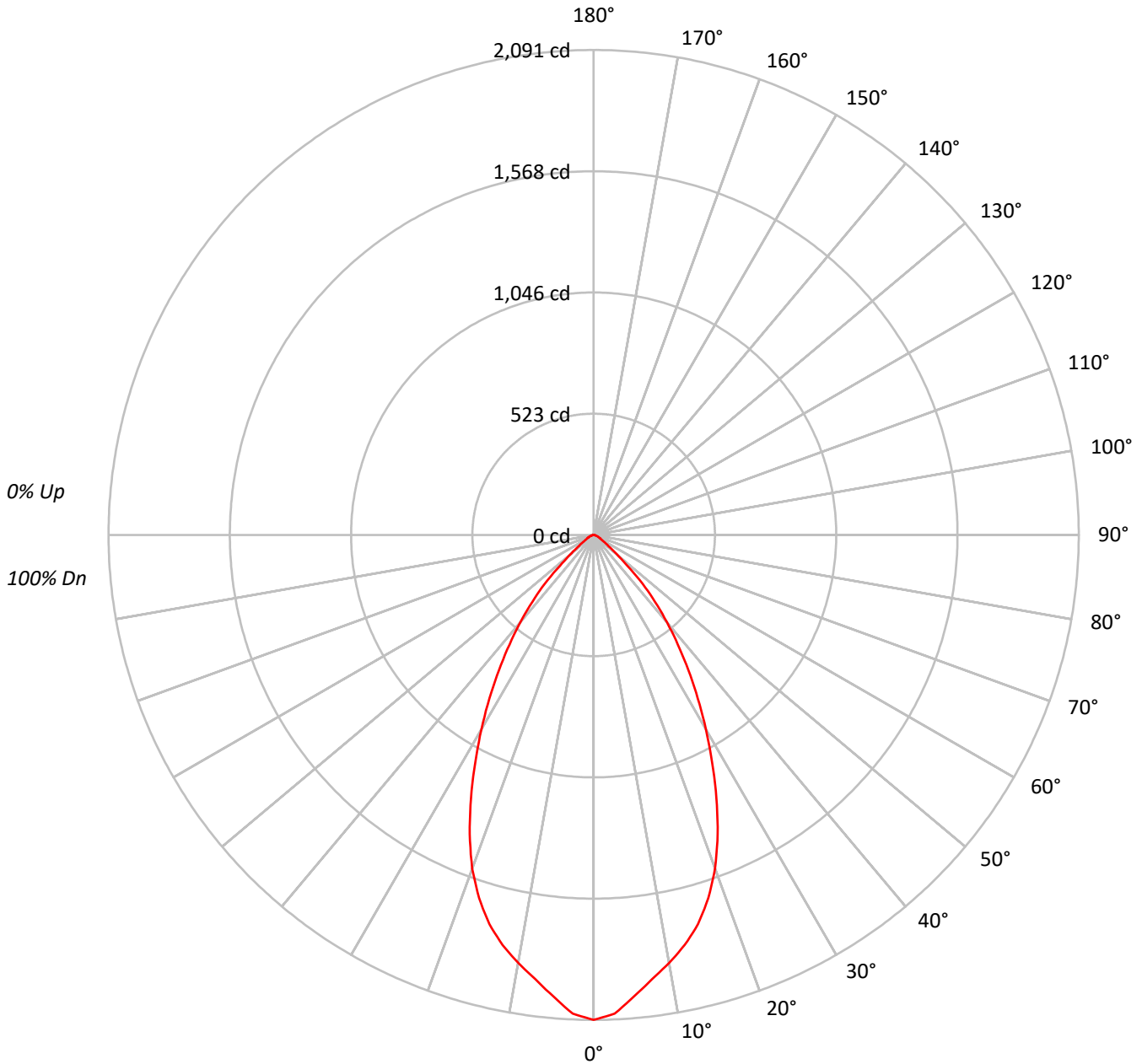
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85	85	85	85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78	78	78	78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72	72	72	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61	61	61	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57	57	57	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53	53	53	53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49	49	49	49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46	46	46	46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114623
5°	109905
10°	104290
15°	98604
20°	89293
25°	75694
30°	61199
35°	47549
40°	35166
45°	23157
50°	11155
55°	5916
60°	3870
65°	3204
70°	2549
75°	1864
80°	1105
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23157 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.8	9.3
10°-20°	483.6	24.0
20°-30°	571.0	28.4
30°-40°	445.1	22.1
40°-50°	227.7	11.3
50°-60°	61.9	3.1
60°-70°	25.1	1.2
70°-80°	9.5	0.5
80°-90°	1.0	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°	1241.4	61.7
0°-40°	1686.4	83.8
0°-60°	1976.0	98.2
0°-90°	2011.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2011.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2091	
5°	1997	187
15°	1737	484
25°	1251	571
35°	710	445
45°	299	228
55°	62	62
65°	25	25
75°	9	10
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2090.9
2.5°	2066.2
5°	1997.2
7.5°	1931.8
10°	1873.5
12.5°	1811.6
15°	1737.4
17.5°	1642.0
20°	1530.6
22.5°	1396.3
25°	1251.4
27.5°	1104.7
30°	966.8
32.5°	836.0
35°	710.5
37.5°	595.6
40°	491.4
42.5°	390.6
45°	298.7
47.5°	196.2
50°	130.8
52.5°	88.4
55°	61.9
57.5°	46.0
60°	35.3
62.5°	30.0
65°	24.7
67.5°	21.2
70°	15.9
72.5°	12.4
75°	8.8
77.5°	5.3
80°	3.5
82.5°	1.8
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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