

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: P644040

Luminaire Tested: ML5615LSWFL559FS1E - 694TBZB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P644040
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 - 1200LM - 5000K
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1636.8 lumens
Efficiency: N/A
Efficacy: 122.2 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

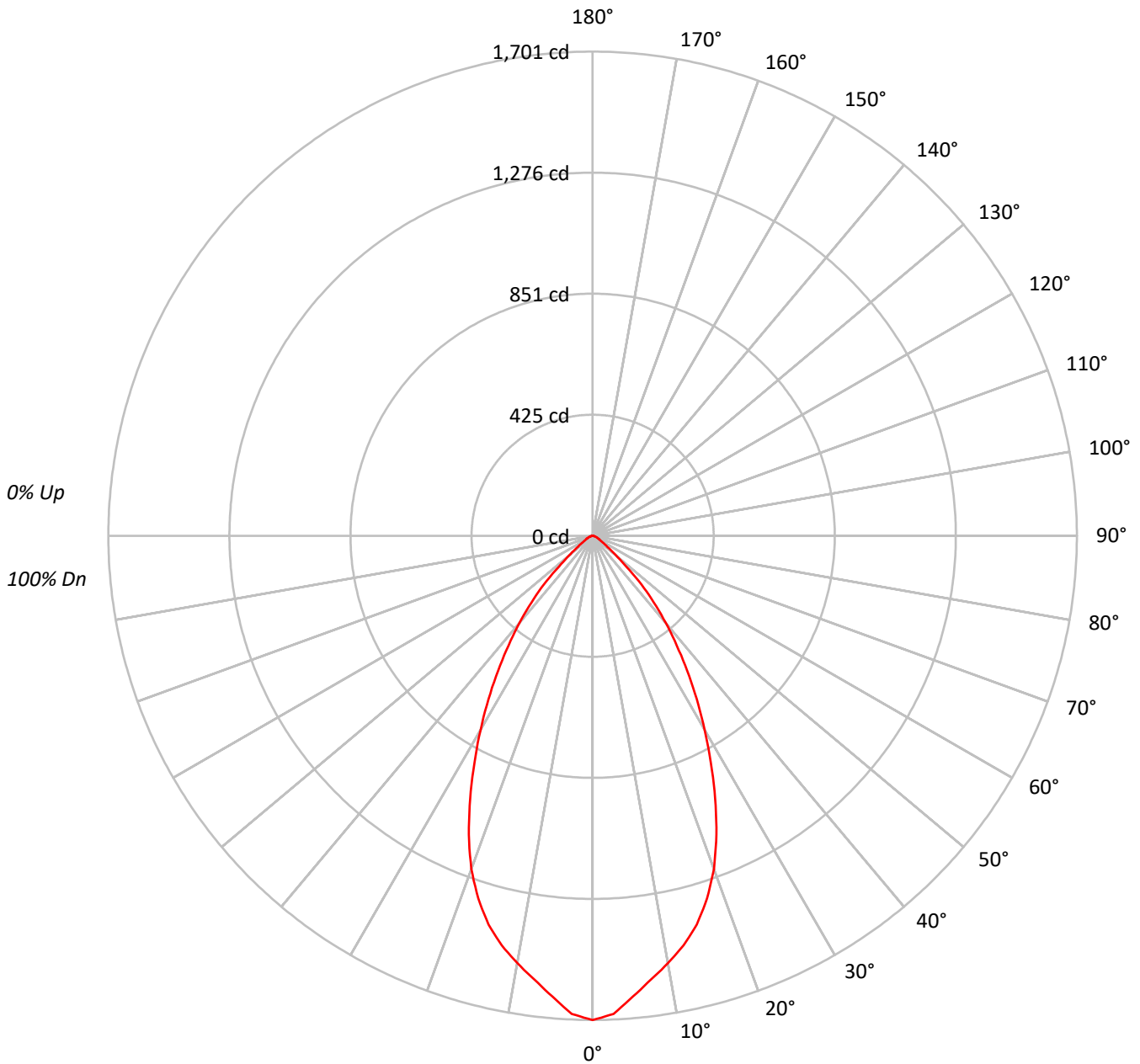
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	93271
5°	89429
10°	84863
15°	80233
20°	72660
25°	61588
30°	49799
35°	38688
40°	28611
45°	18847
50°	9074
55°	4807
60°	3158
65°	2607
70°	2068
75°	1525
80°	916
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18847 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.0	9.3
10°-20°	393.5	24.0
20°-30°	464.6	28.4
30°-40°	362.2	22.1
40°-50°	185.3	11.3
50°-60°	50.3	3.1
60°-70°	20.4	1.2
70°-80°	7.8	0.5
80°-90°	0.8	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°	1010.1	61.7
0°-40°	1372.3	83.8
0°-60°	1607.9	98.2
0°-90°	1636.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1636.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1701	
5°	1625	152
15°	1414	393
25°	1018	465
35°	578	362
45°	243	185
55°	50	50
65°	20	20
75°	7	8
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1701.4
2.5°	1681.2
5°	1625.1
7.5°	1571.9
10°	1524.5
12.5°	1474.1
15°	1413.7
17.5°	1336.1
20°	1245.5
22.5°	1136.2
25°	1018.2
27.5°	898.9
30°	786.7
32.5°	680.3
35°	578.1
37.5°	484.7
40°	399.8
42.5°	317.8
45°	243.1
47.5°	159.6
50°	106.4
52.5°	71.9
55°	50.3
57.5°	37.4
60°	28.8
62.5°	24.4
65°	20.1
67.5°	17.3
70°	12.9
72.5°	10.1
75°	7.2
77.5°	4.3
80°	2.9
82.5°	1.4
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)