

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: P643878

Luminaire Tested: ML5615LSWFL559FS1E - 594TBZB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643878
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 - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1867.9 lumens
Efficiency: N/A
Efficacy: 109.2 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

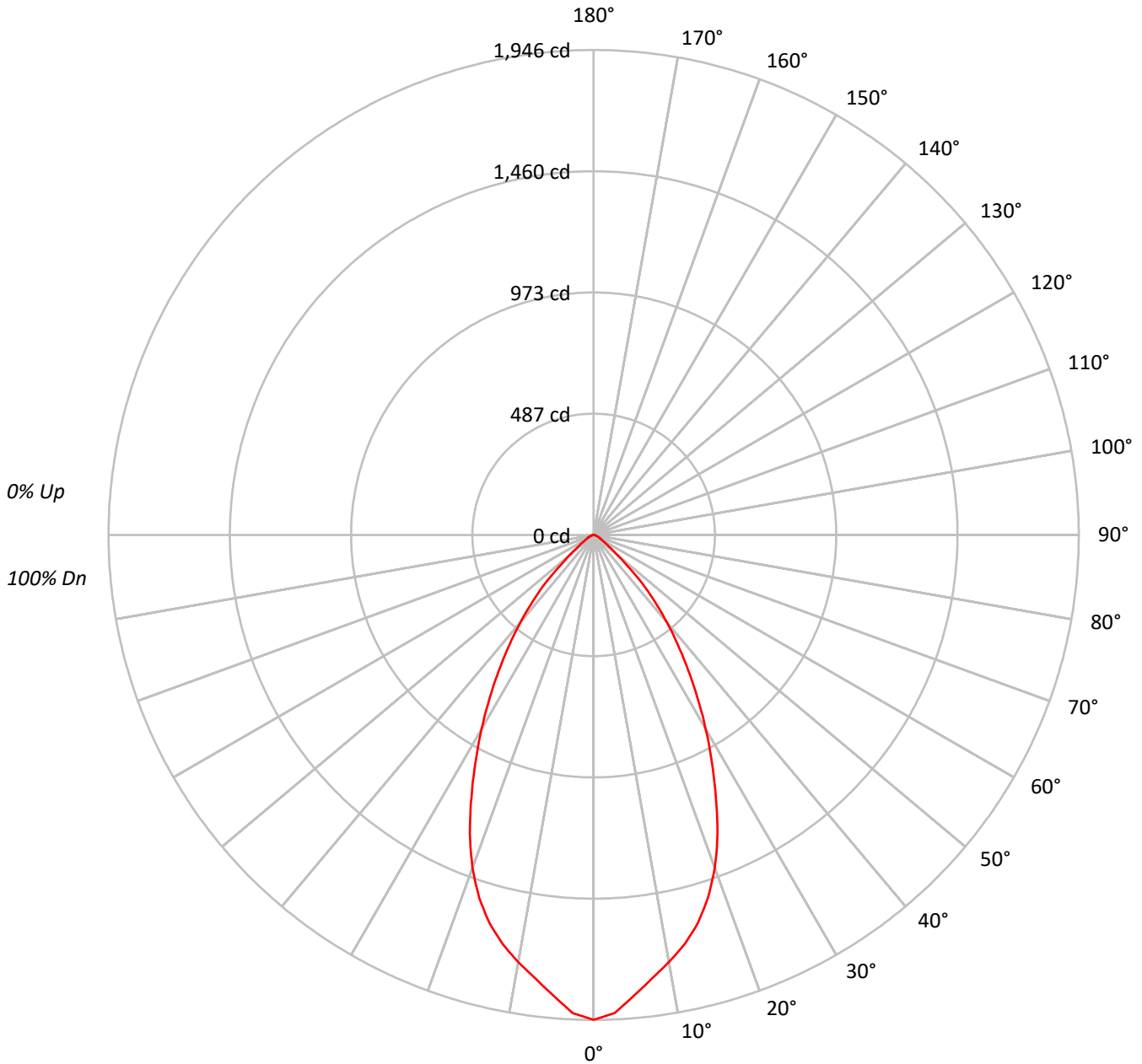
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									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																												
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	70	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°	153587
5°	147011
10°	139492
15°	131873
20°	119408
25°	101047
30°	81928
35°	63661
40°	46908
45°	30824
50°	14934
55°	7914
60°	5194
65°	4296
70°	3416
75°	2501
80°	1500
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30824 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	9.3
10°-20°	449.2	24.0
20°-30°	530.2	28.4
30°-40°	413.1	22.1
40°-50°	211.3	11.3
50°-60°	57.5	3.1
60°-70°	23.3	1.2
70°-80°	8.9	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°	1153.0	61.7
0°-40°	1566.1	83.8
0°-60°	1834.9	98.2
0°-90°	1867.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1867.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1946	
5°	1855	174
15°	1614	449
25°	1160	530
35°	661	413
45°	276	211
55°	58	58
65°	23	23
75°	8	9
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1945.6
2.5°	1920.9
5°	1855.2
7.5°	1794.4
10°	1740.2
12.5°	1682.6
15°	1613.6
17.5°	1526.5
20°	1421.4
22.5°	1298.1
25°	1160.1
27.5°	1025.4
30°	898.8
32.5°	775.6
35°	660.6
37.5°	552.1
40°	455.2
42.5°	363.1
45°	276.1
47.5°	182.4
50°	121.6
52.5°	82.2
55°	57.5
57.5°	42.7
60°	32.9
62.5°	27.9
65°	23.0
67.5°	19.7
70°	14.8
72.5°	11.5
75°	8.2
77.5°	4.9
80°	3.3
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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