

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: P643005

Luminaire Tested: ML5615LSNFL259FS1E - 694TBZB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643005
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 694TBZB - 1200LM - 5000K
Description: ML56 RR, 25D 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: 1572.1 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.43
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

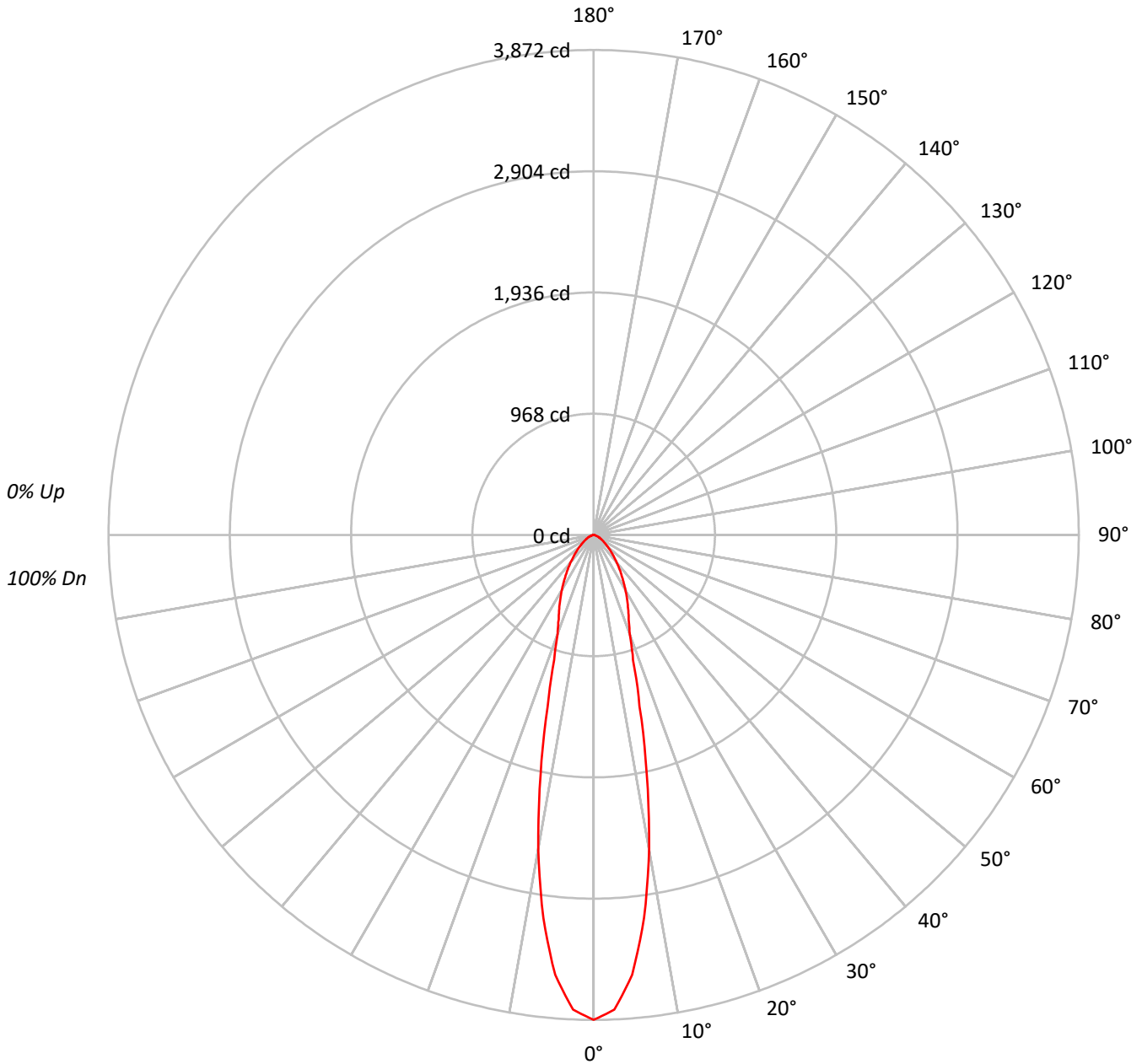
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	108	106	103	104	102	100	100	99	97	97	95	94	93				93															
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85															
3	101	94	89	85	99	93	88	84	90	86	83	88	84	82	86	83	80	79				79															
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	75	73				73															
5	91	82	76	72	89	81	76	71	80	75	71	78	74	70	76	73	70	68				68															
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64				64															
7	83	73	67	63	81	72	67	63	71	66	62	70	65	62	69	65	61	60				60															
8	79	69	63	59	78	69	63	59	68	62	59	67	62	58	66	61	58	57				57															
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54				54															
10	72	63	57	53	71	62	57	53	62	56	53	61	56	53	60	56	53	51				51															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	212242
5°	193968
10°	141675
15°	80347
20°	49016
25°	39335
30°	32056
35°	25705
40°	20388
45°	15947
50°	12392
55°	9758
60°	7730
65°	6343
70°	4616
75°	2732
80°	1357
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15947 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.5	19.4
10°-20°	407.8	25.9
20°-30°	300.1	19.1
30°-40°	241.5	15.4
40°-50°	160.5	10.2
50°-60°	92.9	5.9
60°-70°	48.8	3.1
70°-80°	14.5	0.9
80°-90°	1.4	0.1
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°	1012.4	64.4
0°-40°	1253.9	79.8
0°-60°	1507.3	95.9
0°-90°	1572.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1572.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3872	
5°	3525	304
15°	1416	408
25°	650	300
35°	384	242
45°	206	161
55°	102	93
65°	49	49
75°	13	15
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	3871.6
2.5°	3793.9
5°	3524.8
7.5°	3083.1
10°	2545.1
12.5°	1956.6
15°	1415.7
17.5°	1045.9
20°	840.2
22.5°	730.9
25°	650.3
27.5°	576.9
30°	506.4
32.5°	443.1
35°	384.1
37.5°	332.3
40°	284.9
42.5°	241.7
45°	205.7
47.5°	174.1
50°	145.3
52.5°	122.3
55°	102.1
57.5°	84.9
60°	70.5
62.5°	59.0
65°	48.9
67.5°	40.3
70°	28.8
72.5°	18.7
75°	12.9
77.5°	7.2
80°	4.3
82.5°	2.9
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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