

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: P642844

Luminaire Tested: ML5615LSNFL259FS1E - 594TBZB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSNFL259FS1E - 594TBZB - 1500LM - 4000K
Description: ML56 RR, 25D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1933.8 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.43
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

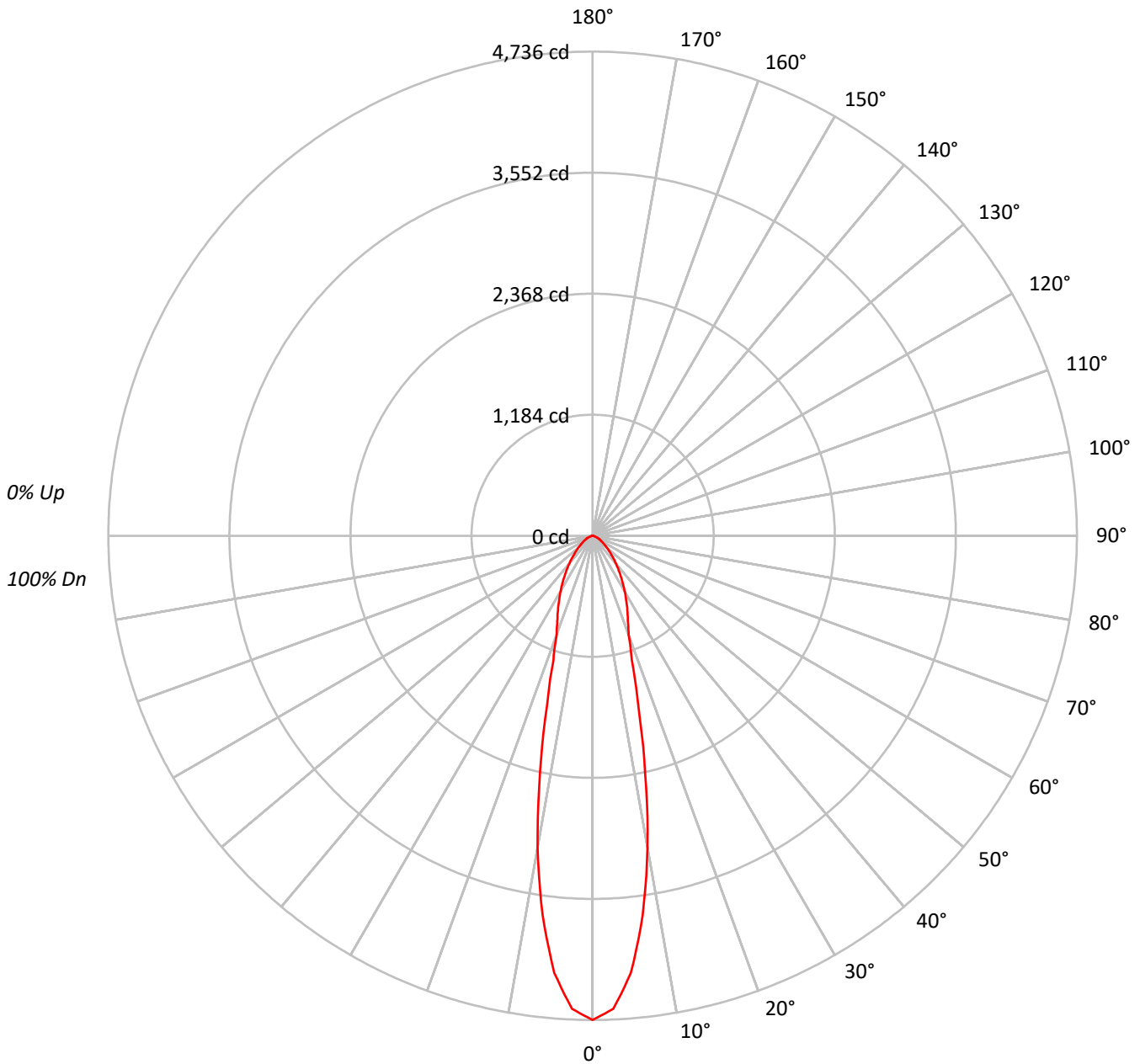
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	105	103	104	102	100	100	99	97	97	95	94	92				92															
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	81	85	83	80	78				78															
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	81	77	74	73				73															
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68				68															
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	64				64															
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60				60															
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57				57															
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54				54															
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51				51															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	373864
5°	340140
10°	248179
15°	140813
20°	86553
25°	69882
30°	57025
35°	45978
40°	36418
45°	28602
50°	22351
55°	17506
60°	13957
65°	11562
70°	8148
75°	4301
80°	3228
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28602 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.6	19.2
10°-20°	496.5	25.7
20°-30°	370.0	19.1
30°-40°	299.4	15.5
40°-50°	200.2	10.4
50°-60°	115.9	6.0
60°-70°	61.1	3.2
70°-80°	17.6	0.9
80°-90°	2.4	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°	1237.1	64.0
0°-40°	1536.6	79.5
0°-60°	1852.7	95.8
0°-90°	1933.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1933.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4736	
5°	4292	371
15°	1723	496
25°	802	370
35°	477	299
45°	256	200
55°	127	116
65°	62	61
75°	14	18
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4736.0
2.5°	4631.7
5°	4292.4
7.5°	3746.4
10°	3096.1
12.5°	2373.3
15°	1723.0
17.5°	1277.7
20°	1030.3
22.5°	901.3
25°	802.3
27.5°	712.2
30°	625.6
32.5°	549.6
35°	477.1
37.5°	411.7
40°	353.4
42.5°	302.2
45°	256.2
47.5°	217.4
50°	182.0
52.5°	152.0
55°	127.2
57.5°	106.0
60°	88.4
62.5°	74.2
65°	61.9
67.5°	49.5
70°	35.3
72.5°	23.0
75°	14.1
77.5°	8.8
80°	7.1
82.5°	3.5
85°	1.8
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)