

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: P642838

Luminaire Tested: ML5615LSNFL259FS1E - 594TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642838
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 - 1200LM - 3500K
Description: ML56 RR, 25D 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: 1461.9 lumens
Efficiency: N/A
Efficacy: 109.1 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

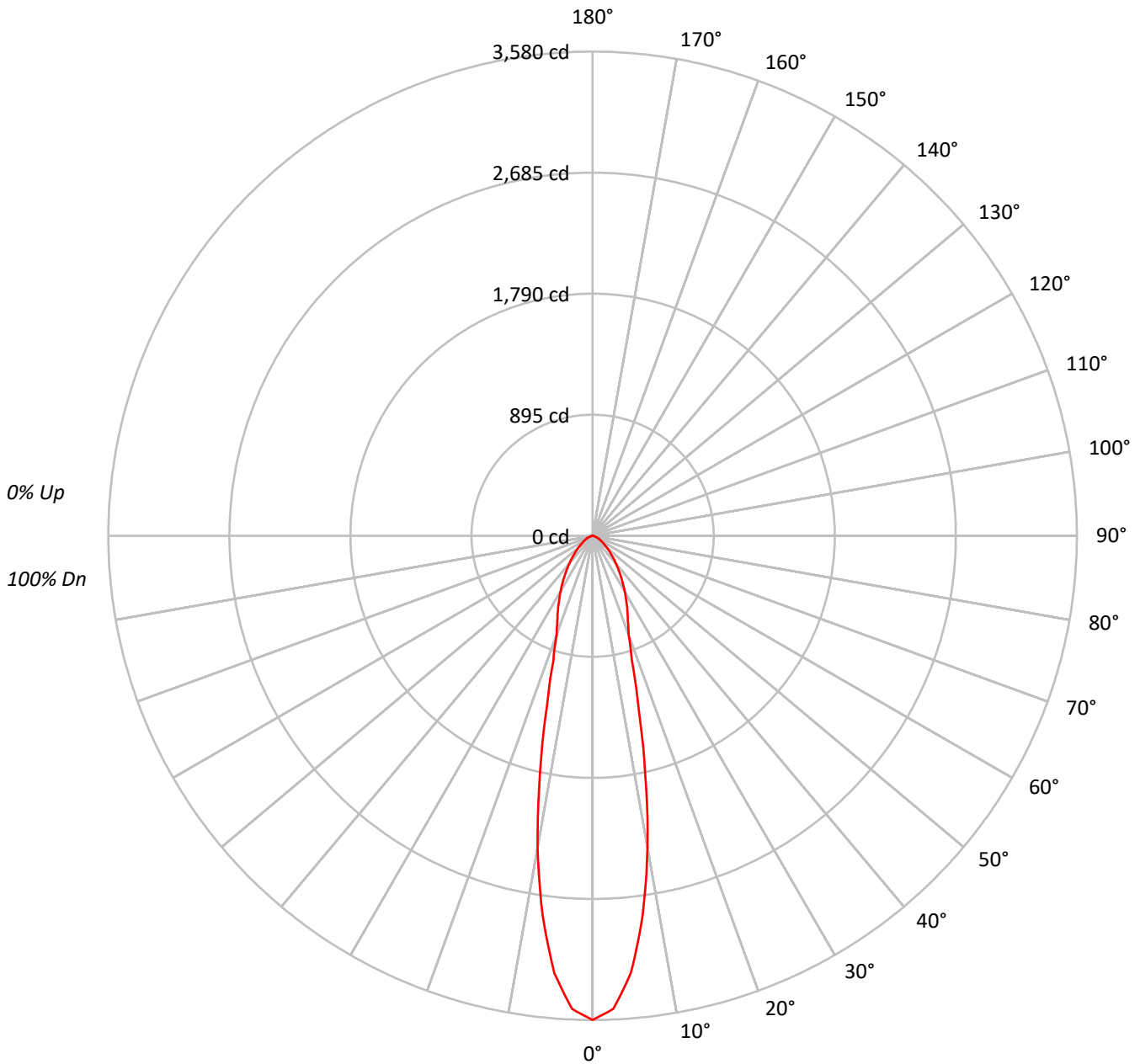
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									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	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	111	108	105	103	104	102	100	100	99	97	97	95	94	92																											
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																											
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78																											
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	81	77	74	73																											
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68																											
6	86	77	71	67	85	76	71	66	75	70	66	73	69	65	72	68	65	64																											
7	82	73	67	62	81	72	66	62	71	66	62	70	65	62	69	64	61	60																											
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																											
9	75	66	60	56	74	65	59	56	64	59	55	63	59	55	62	58	55	54																											
10	72	62	57	53	71	62	57	53	61	56	53	60	56	52	60	55	52	51																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	282624
5°	257134
10°	187611
15°	106448
20°	65425
25°	52827
30°	43106
35°	34760
40°	27535
45°	21625
50°	16899
55°	13240
60°	10547
65°	8742
70°	6163
75°	3264
80°	2409
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21625 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	19.2
10°-20°	375.3	25.7
20°-30°	279.7	19.1
30°-40°	226.4	15.5
40°-50°	151.4	10.4
50°-60°	87.7	6.0
60°-70°	46.2	3.2
70°-80°	13.4	0.9
80°-90°	1.8	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°	935.2	64.0
0°-40°	1161.6	79.5
0°-60°	1400.6	95.8
0°-90°	1461.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1461.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3580	
5°	3245	280
15°	1302	375
25°	606	280
35°	361	226
45°	194	151
55°	96	88
65°	47	46
75°	11	13
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3580.2
2.5°	3501.4
5°	3244.9
7.5°	2832.1
10°	2340.5
12.5°	1794.1
15°	1302.5
17.5°	965.9
20°	778.8
22.5°	681.3
25°	606.5
27.5°	538.4
30°	472.9
32.5°	415.5
35°	360.7
37.5°	311.3
40°	267.2
42.5°	228.4
45°	193.7
47.5°	164.3
50°	137.6
52.5°	114.9
55°	96.2
57.5°	80.2
60°	66.8
62.5°	56.1
65°	46.8
67.5°	37.4
70°	26.7
72.5°	17.4
75°	10.7
77.5°	6.7
80°	5.3
82.5°	2.7
85°	1.3
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)