

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: P642840

Luminaire Tested: ML5615LSNFL259FS1E - 594TBZB - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642840
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 - 5000K
Description: ML56 RR, 25D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1573.6 lumens
Efficiency: N/A
Efficacy: 117.4 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

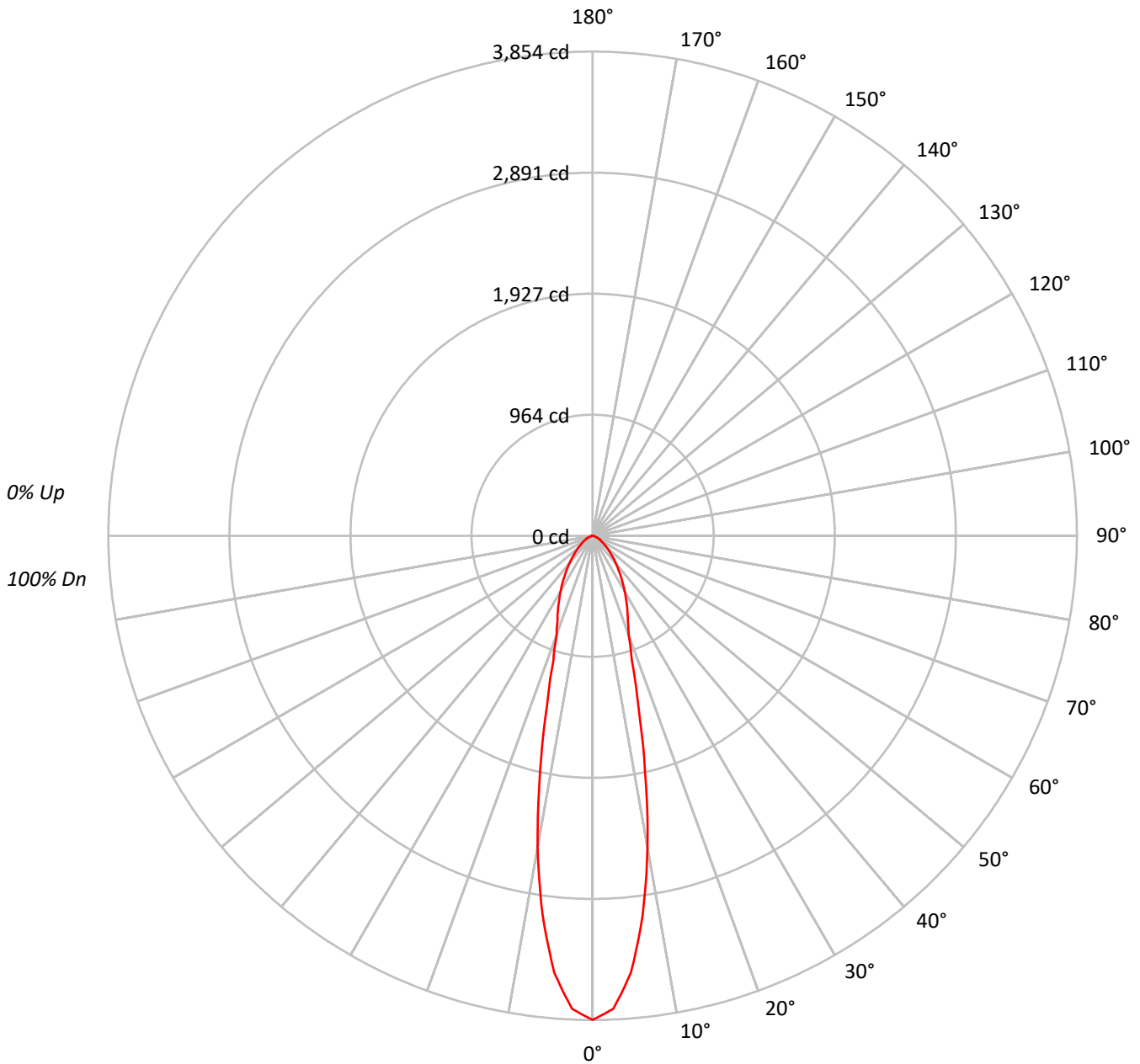
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				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	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°	304215
5°	276770
10°	201944
15°	114579
20°	70423
25°	56860
30°	46397
35°	37410
40°	29637
45°	23277
50°	18188
55°	14245
60°	11352
65°	9396
70°	6647
75°	3508
80°	2637
85°	1268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23277 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	19.2
10°-20°	404.0	25.7
20°-30°	301.1	19.1
30°-40°	243.6	15.5
40°-50°	162.9	10.4
50°-60°	94.3	6.0
60°-70°	49.7	3.2
70°-80°	14.4	0.9
80°-90°	2.0	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°	1006.6	64.0
0°-40°	1250.3	79.5
0°-60°	1507.5	95.8
0°-90°	1573.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1573.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3854	
5°	3493	302
15°	1402	404
25°	653	301
35°	388	244
45°	208	163
55°	104	94
65°	50	50
75°	12	14
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3853.7
2.5°	3768.8
5°	3492.7
7.5°	3048.4
10°	2519.3
12.5°	1931.1
15°	1402.0
17.5°	1039.6
20°	838.3
22.5°	733.3
25°	652.8
27.5°	579.5
30°	509.0
32.5°	447.2
35°	388.2
37.5°	335.0
40°	287.6
42.5°	245.9
45°	208.5
47.5°	176.9
50°	148.1
52.5°	123.7
55°	103.5
57.5°	86.3
60°	71.9
62.5°	60.4
65°	50.3
67.5°	40.3
70°	28.8
72.5°	18.7
75°	11.5
77.5°	7.2
80°	5.8
82.5°	2.9
85°	1.4
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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