

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: P643002

Luminaire Tested: ML5615LSNFL259FS1E - 694TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643002  
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 - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1421.8 lumens  
Efficiency: N/A  
Efficacy: 106.1 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

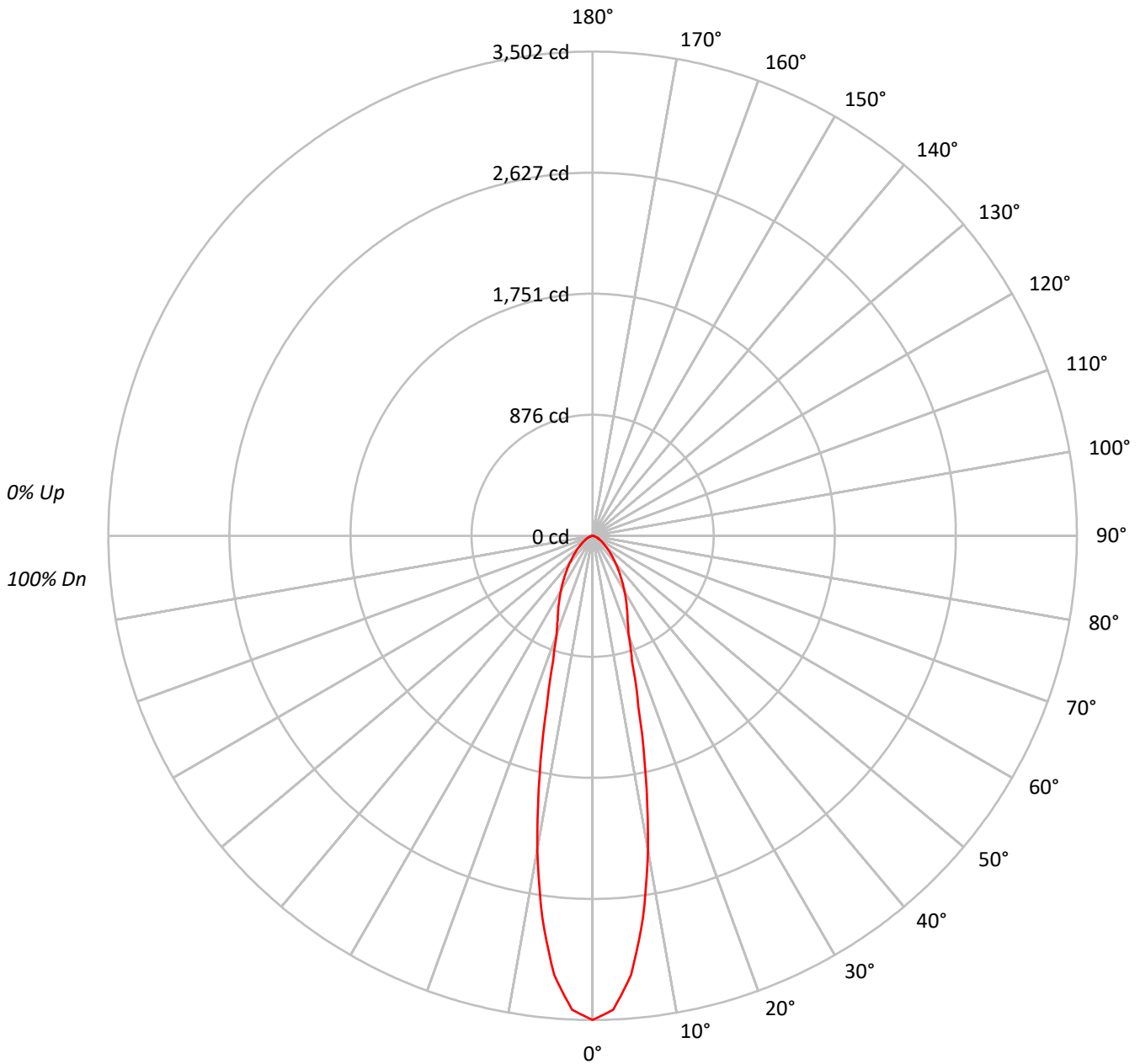
Input Watts (W): 13.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	191958
5°	175434
10°	128132
15°	72668
20°	44331
25°	35573
30°	28992
35°	23249
40°	18435
45°	14428
50°	11206
55°	8831
60°	6995
65°	5733
70°	4167
75°	2478
80°	1231
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14428 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.4	19.4
10°-20°	368.8	25.9
20°-30°	271.4	19.1
30°-40°	218.5	15.4
40°-50°	145.2	10.2
50°-60°	84.1	5.9
60°-70°	44.1	3.1
70°-80°	13.2	0.9
80°-90°	1.2	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°	915.6	64.4
0°-40°	1134.1	79.8
0°-60°	1363.3	95.9
0°-90°	1421.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1421.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3502	
5°	3188	275
15°	1280	369
25°	588	271
35°	347	218
45°	186	145
55°	92	84
65°	44	44
75°	12	13
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3501.6
2.5°	3431.3
5°	3188.0
7.5°	2788.5
10°	2301.8
12.5°	1769.6
15°	1280.4
17.5°	946.0
20°	759.9
22.5°	661.0
25°	588.1
27.5°	521.8
30°	458.0
32.5°	400.8
35°	347.4
37.5°	300.6
40°	257.6
42.5°	218.6
45°	186.1
47.5°	157.4
50°	131.4
52.5°	110.6
55°	92.4
57.5°	76.8
60°	63.8
62.5°	53.3
65°	44.2
67.5°	36.4
70°	26.0
72.5°	16.9
75°	11.7
77.5°	6.5
80°	3.9
82.5°	2.6
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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Scaled Data Report



(END OF REPORT)