

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: P643190

Luminaire Tested: ML5615LSVWFL759FS1E - 594TBZB - 1500LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-80)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL759FS1E - 594TBZB - 1500LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

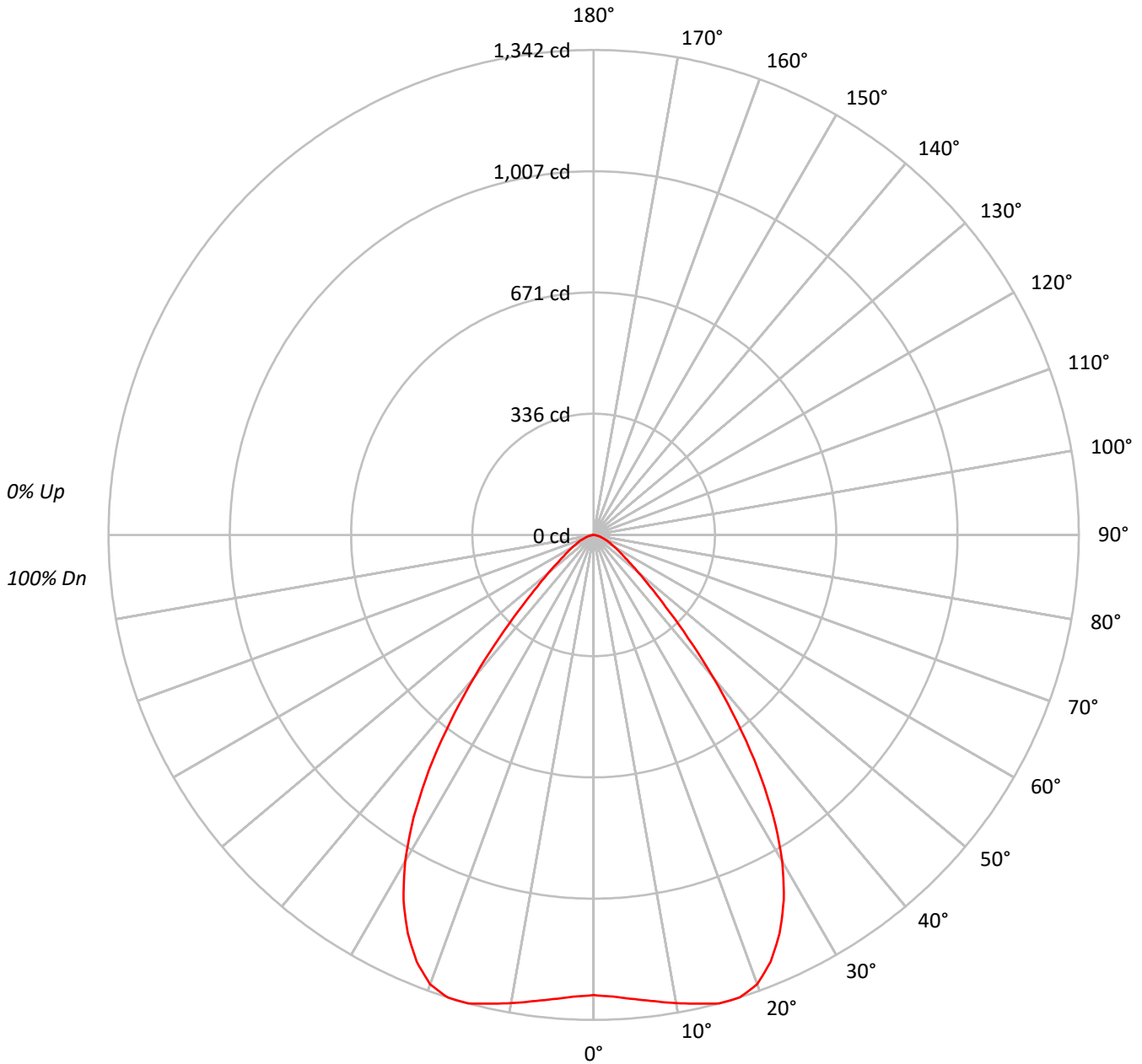
Lumens per Lamp: N/A  
Luminaire Lumens: 1936.3 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 17.1  
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				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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83			83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75			75
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68			68
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62			62
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57			57
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52			52
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48			48
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44			44
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	100531
5°	102175
10°	105481
15°	109709
20°	111141
25°	105994
30°	95118
35°	76527
40°	52854
45°	31594
50°	19981
55°	13625
60°	10610
65°	8592
70°	6947
75°	5399
80°	3228
85°	1630

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31594 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.9	6.4
10°-20°	378.1	19.5
20°-30°	553.7	28.6
30°-40°	488.1	25.2
40°-50°	231.9	12.0
50°-60°	93.2	4.8
60°-70°	46.1	2.4
70°-80°	18.9	1.0
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°	1055.8	54.5
0°-40°	1543.9	79.7
0°-60°	1869.0	96.5
0°-90°	1936.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1274	
5°	1289	124
15°	1342	378
25°	1217	554
35°	794	488
45°	283	232
55°	99	93
65°	46	46
75°	18	19
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1273.5
2.5°	1278.8
5°	1289.4
7.5°	1301.8
10°	1315.9
12.5°	1328.3
15°	1342.4
17.5°	1342.4
20°	1323.0
22.5°	1278.8
25°	1216.9
27.5°	1139.0
30°	1043.5
32.5°	926.8
35°	794.1
37.5°	650.9
40°	512.9
42.5°	385.6
45°	283.0
47.5°	210.5
50°	162.7
52.5°	123.8
55°	99.0
57.5°	81.4
60°	67.2
62.5°	54.8
65°	46.0
67.5°	37.1
70°	30.1
72.5°	23.0
75°	17.7
77.5°	12.4
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)