

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: P643873

Luminaire Tested: ML5615LSWFL559FS1E - 594TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 594TBZB - 1200LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

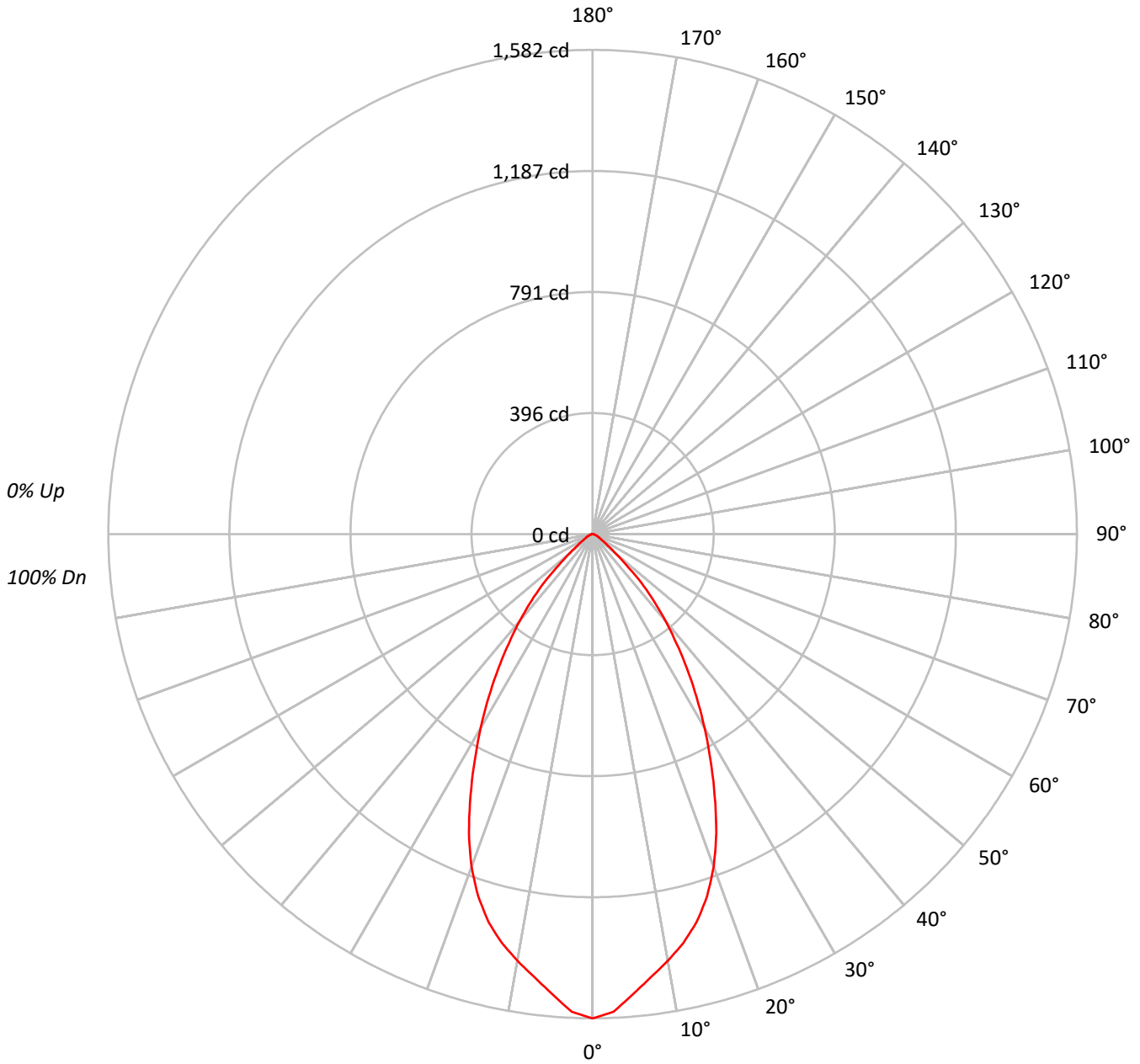
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1519.4 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88  
Luminous Opening: Circular (Dia: 0.42' 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				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	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85			85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72
5	90	81	74	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53			53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46			46

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

	0°
0°	124924
5°	119577
10°	113457
15°	107265
20°	97121
25°	82189
30°	66642
35°	51779
40°	38149
45°	25063
50°	12146
55°	6441
60°	4215
65°	3493
70°	2770
75°	2044
80°	1227
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25063 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.2	9.3
10°-20°	365.4	24.0
20°-30°	431.2	28.4
30°-40°	336.0	22.1
40°-50°	171.8	11.3
50°-60°	46.8	3.1
60°-70°	19.0	1.2
70°-80°	7.2	0.5
80°-90°	0.7	0.0
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°	937.8	61.7
0°-40°	1273.8	83.8
0°-60°	1492.5	98.2
0°-90°	1519.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1519.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1582	
5°	1509	141
15°	1312	365
25°	944	431
35°	537	336
45°	224	172
55°	47	47
65°	19	19
75°	7	7
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1582.5
2.5°	1562.5
5°	1509.0
7.5°	1459.5
10°	1415.4
12.5°	1368.6
15°	1312.5
17.5°	1241.7
20°	1156.1
22.5°	1055.9
25°	943.6
27.5°	834.0
30°	731.1
32.5°	630.9
35°	537.3
37.5°	449.1
40°	370.2
42.5°	295.4
45°	224.5
47.5°	148.4
50°	98.9
52.5°	66.8
55°	46.8
57.5°	34.8
60°	26.7
62.5°	22.7
65°	18.7
67.5°	16.0
70°	12.0
72.5°	9.4
75°	6.7
77.5°	4.0
80°	2.7
82.5°	1.3
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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(END OF REPORT)