

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P643882

Luminaire Tested: ML5615LSWFL559FS1E - 594TBZB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643882  
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 - 900LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

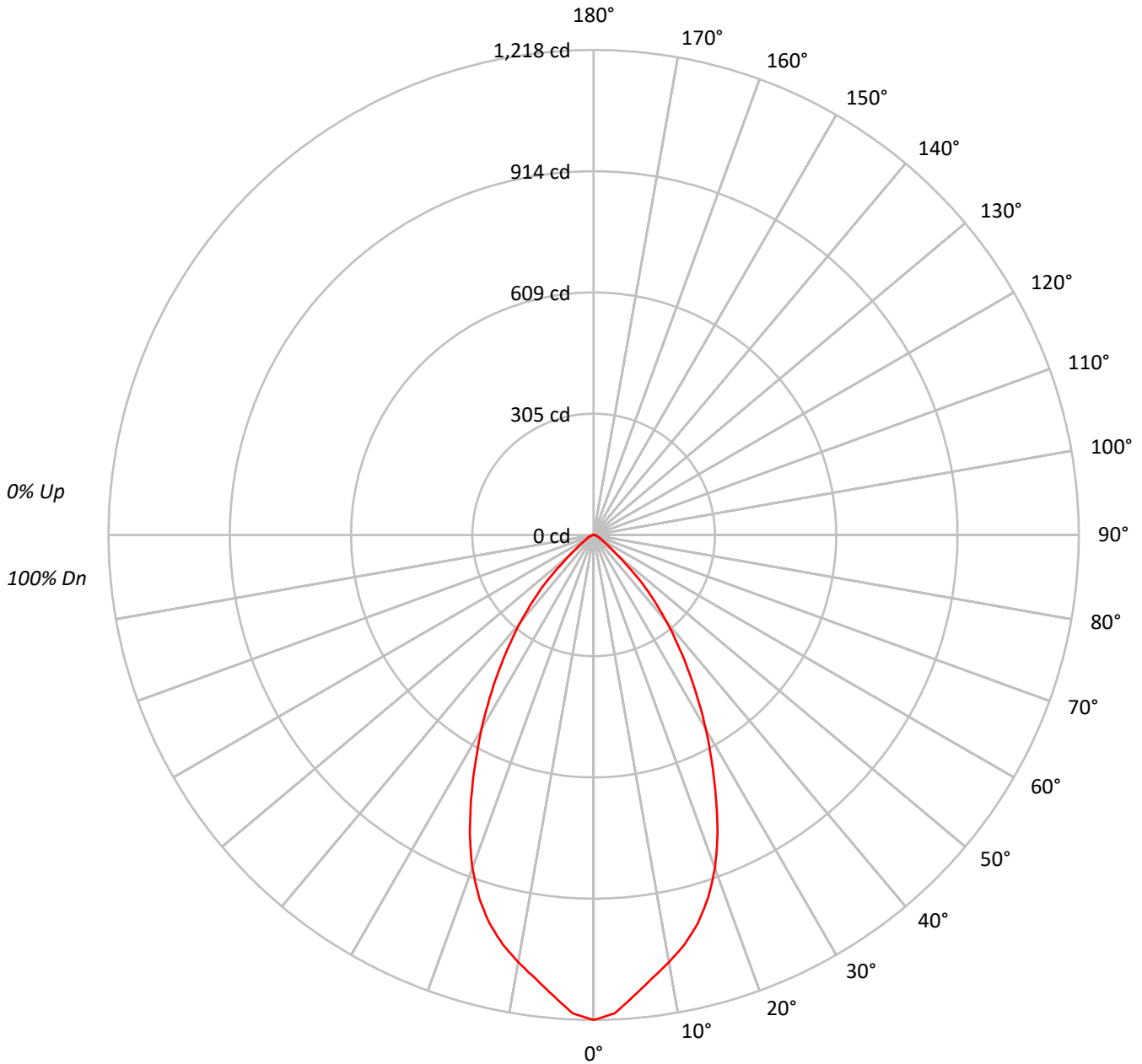
Lumens per Lamp: N/A  
Luminaire Lumens: 1169.5 lumens  
Efficiency: N/A  
Efficacy: 111.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
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									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	100	98	97	97	95	94	92	92	92	92																
	1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92	92	92	92	92	92	92	92																
	2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85	85	88	88	87	87	87	87	87	87	85																
	3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78	78	84	84	81	81	81	81	81	81	78																
	4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72	72	77	77	74	74	74	74	74	74	72																
	5	90	81	74	70	88	80	74	70	78	73	69	76	72	68	75	71	68	66	66	72	72	68	68	68	68	68	68	66																
	6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61	61	67	67	63	63	63	63	63	63	61																
	7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57	57	62	62	59	59	59	59	59	57	57																
	8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53	53	58	58	54	54	54	54	54	53	53																
	9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49	49	54	54	51	51	51	51	51	49	49																
	10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46	46	51	51	47	47	47	47	47	46	46																

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

	0°
0°	96158
5°	92040
10°	87333
15°	82567
20°	74758
25°	63262
30°	51292
35°	39858
40°	29369
45°	19291
50°	9346
55°	4955
60°	3252
65°	2690
70°	2147
75°	1556
80°	955
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19291 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.7	9.3
10°-20°	281.3	24.1
20°-30°	331.9	28.4
30°-40°	258.7	22.1
40°-50°	132.3	11.3
50°-60°	36.0	3.1
60°-70°	14.6	1.2
70°-80°	5.6	0.5
80°-90°	0.6	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°	721.8	61.7
0°-40°	980.5	83.8
0°-60°	1148.8	98.2
0°-90°	1169.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1169.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1218	
5°	1162	109
15°	1010	281
25°	726	332
35°	414	259
45°	173	132
55°	36	36
65°	14	15
75°	5	6
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1218.1
2.5°	1202.6
5°	1161.5
7.5°	1123.4
10°	1089.5
12.5°	1053.5
15°	1010.3
17.5°	955.7
20°	889.9
22.5°	812.7
25°	726.3
27.5°	642.0
30°	562.7
32.5°	485.6
35°	413.6
37.5°	345.7
40°	285.0
42.5°	227.4
45°	172.8
47.5°	114.2
50°	76.1
52.5°	51.4
55°	36.0
57.5°	26.7
60°	20.6
62.5°	17.5
65°	14.4
67.5°	12.3
70°	9.3
72.5°	7.2
75°	5.1
77.5°	3.1
80°	2.1
82.5°	1.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)