

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: P643912

Luminaire Tested: ML5615LSWFL559FS1E - 596WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643912  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 596WB - 900LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

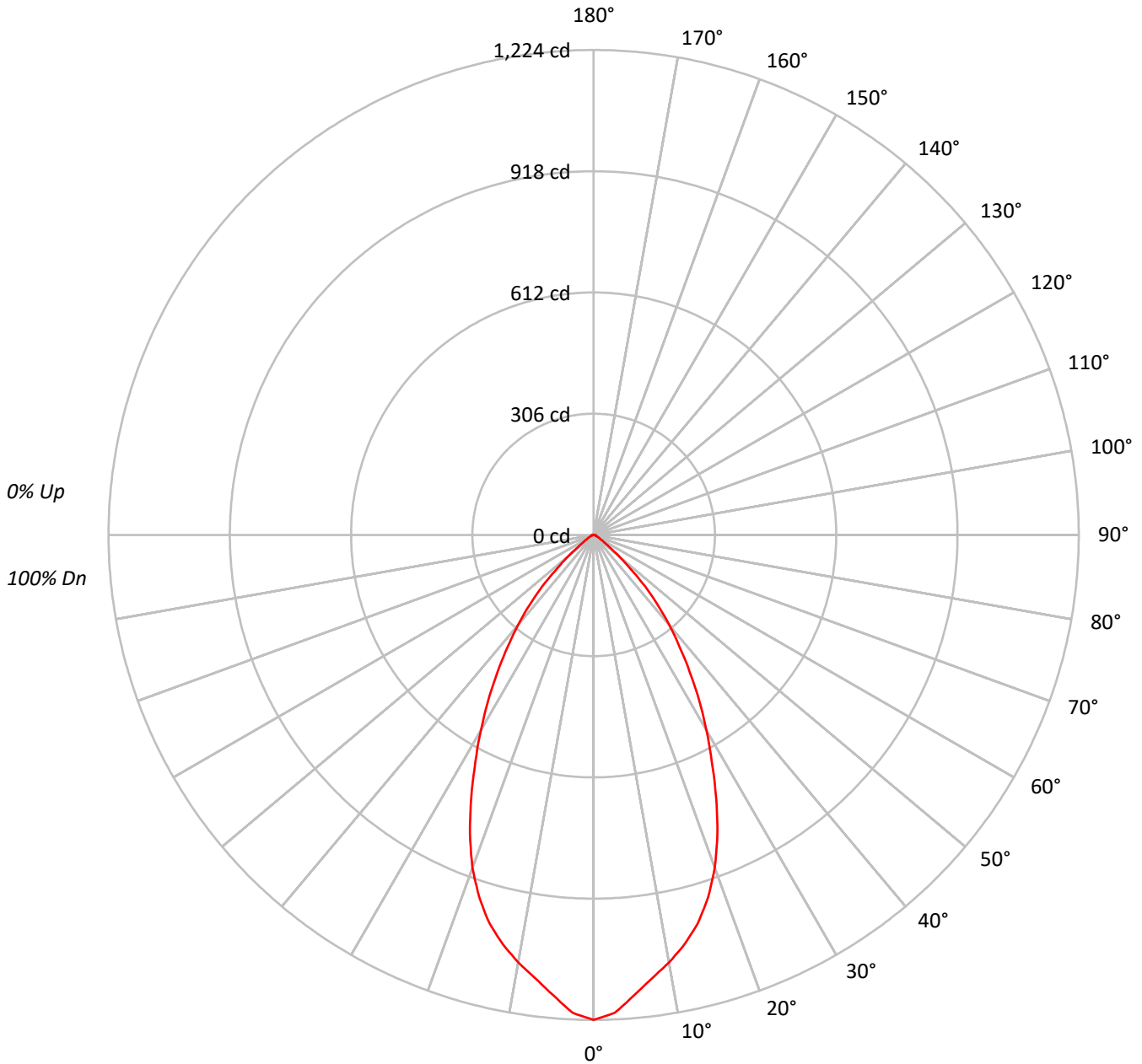
Lumens per Lamp: N/A  
Luminaire Lumens: 1182.8 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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

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

	0°
0°	96624
5°	92428
10°	87806
15°	82968
20°	75086
25°	63610
30°	51848
35°	40735
40°	30637
45°	20441
50°	9849
55°	4390
60°	2763
65°	1924
70°	1431
75°	946
80°	1864
85°	2808

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.2	9.2
10°-20°	282.6	23.9
20°-30°	333.8	28.2
30°-40°	264.8	22.4
40°-50°	139.5	11.8
50°-60°	34.0	2.9
60°-70°	10.8	0.9
70°-80°	4.9	0.4
80°-90°	3.4	0.3
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°	725.5	61.3
0°-40°	990.3	83.7
0°-60°	1163.8	98.4
0°-90°	1182.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1182.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1224	
5°	1166	109
15°	1015	283
25°	730	334
35°	423	265
45°	183	140
55°	32	34
65°	10	11
75°	3	5
85°	3	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1224.0
2.5°	1207.6
5°	1166.4
7.5°	1128.4
10°	1095.4
12.5°	1058.4
15°	1015.2
17.5°	959.7
20°	893.8
22.5°	815.7
25°	730.3
27.5°	645.9
30°	568.8
32.5°	494.7
35°	422.7
37.5°	356.9
40°	297.3
42.5°	238.6
45°	183.1
47.5°	122.4
50°	80.2
52.5°	50.4
55°	31.9
57.5°	22.6
60°	17.5
62.5°	13.4
65°	10.3
67.5°	8.2
70°	6.2
72.5°	5.1
75°	3.1
77.5°	5.1
80°	4.1
82.5°	4.1
85°	3.1
87.5°	3.1
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)