

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: P644080

Luminaire Tested: ML5615LSWFL559FS1E - 696WB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644080  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-69)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 696WB - 900LM - 5000K  
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

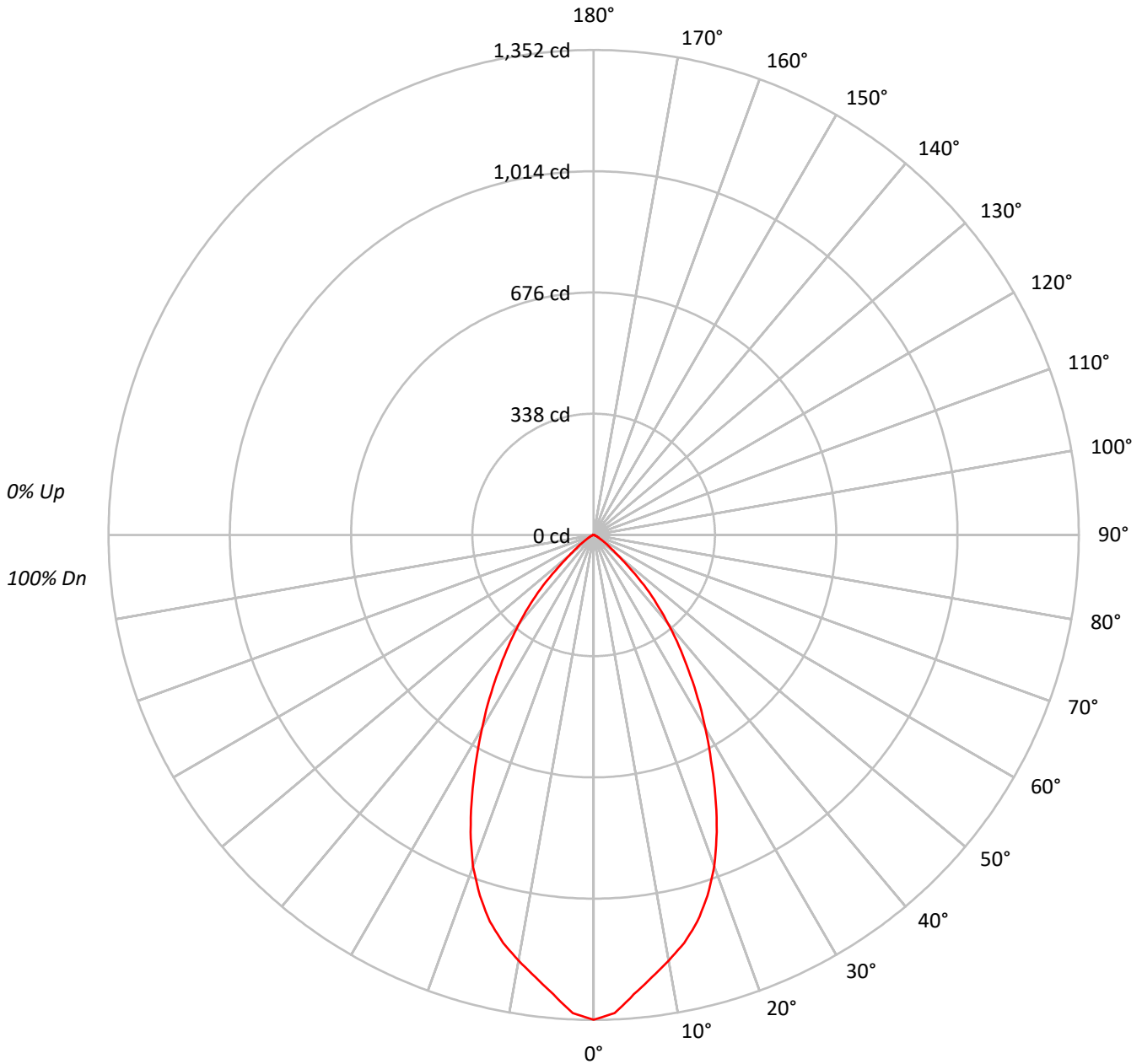
Lumens per Lamp: N/A  
Luminaire Lumens: 1290.8 lumens  
Efficiency: N/A  
Efficacy: 122.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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	111	108	106	103	104	102	100	100	99	97	97	96	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	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78				78															
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72				72															
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66				66															
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61				61															
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57				57															
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53				53															
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49				49															
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46				46															

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

	0°
0°	74095
5°	70746
10°	67066
15°	63343
20°	57341
25°	48517
30°	39392
35°	30838
40°	23122
45°	15436
50°	7471
55°	3919
60°	1995
65°	1323
70°	545
75°	487
80°	347
85°	692

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15436 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.3	9.3
10°-20°	310.7	24.1
20°-30°	366.5	28.4
30°-40°	289.1	22.4
40°-50°	151.5	11.7
50°-60°	39.6	3.1
60°-70°	9.9	0.8
70°-80°	2.4	0.2
80°-90°	0.7	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°	797.5	61.8
0°-40°	1086.6	84.2
0°-60°	1277.7	99.0
0°-90°	1290.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1352	
5°	1286	120
15°	1116	311
25°	802	366
35°	461	289
45°	199	152
55°	41	40
65°	10	10
75°	2	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1351.6
2.5°	1334.5
5°	1285.6
7.5°	1243.5
10°	1204.8
12.5°	1165.0
15°	1116.1
17.5°	1054.6
20°	982.9
22.5°	896.5
25°	802.1
27.5°	708.8
30°	622.3
32.5°	540.4
35°	460.8
37.5°	390.2
40°	323.1
42.5°	259.4
45°	199.1
47.5°	132.0
50°	87.6
52.5°	59.2
55°	41.0
57.5°	26.2
60°	18.2
62.5°	13.7
65°	10.2
67.5°	5.7
70°	3.4
72.5°	2.3
75°	2.3
77.5°	2.3
80°	1.1
82.5°	1.1
85°	1.1
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)