

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: P644076

Luminaire Tested: ML5615LSWFL559FS1E - 696WB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P644076  
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 - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1135.0 lumens  
Efficiency: N/A  
Efficacy: 108.1 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

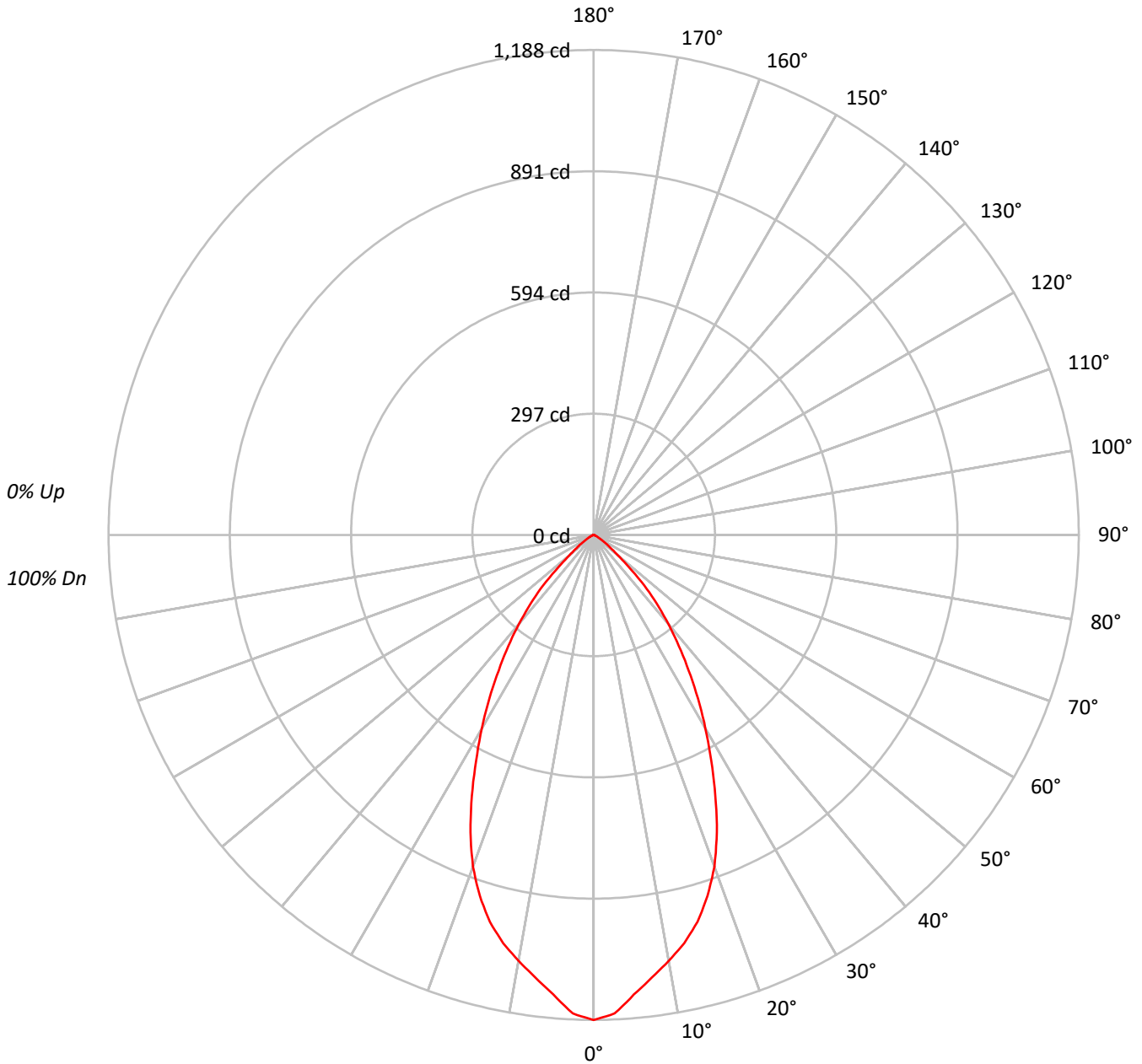
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	65148
5°	62205
10°	58972
15°	55698
20°	50422
25°	42662
30°	34638
35°	27111
40°	20331
45°	13575
50°	6567
55°	3441
60°	1754
65°	1167
70°	481
75°	424
80°	316
85°	629

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13575 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.8	9.3
10°-20°	273.2	24.1
20°-30°	322.2	28.4
30°-40°	254.2	22.4
40°-50°	133.2	11.7
50°-60°	34.8	3.1
60°-70°	8.7	0.8
70°-80°	2.1	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°	701.2	61.8
0°-40°	955.4	84.2
0°-60°	1123.5	99.0
0°-90°	1135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1135.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1188	
5°	1130	106
15°	981	273
25°	705	322
35°	405	254
45°	175	133
55°	36	35
65°	9	9
75°	2	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1188.4
2.5°	1173.4
5°	1130.4
7.5°	1093.4
10°	1059.4
12.5°	1024.4
15°	981.4
17.5°	927.3
20°	864.3
22.5°	788.3
25°	705.3
27.5°	623.2
30°	547.2
32.5°	475.2
35°	405.1
37.5°	343.1
40°	284.1
42.5°	228.1
45°	175.1
47.5°	116.0
50°	77.0
52.5°	52.0
55°	36.0
57.5°	23.0
60°	16.0
62.5°	12.0
65°	9.0
67.5°	5.0
70°	3.0
72.5°	2.0
75°	2.0
77.5°	2.0
80°	1.0
82.5°	1.0
85°	1.0
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)