

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: P643918

Luminaire Tested: ML5615LSWFL559FS1E - 691WB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643918  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-59)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 691WB - 1200LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

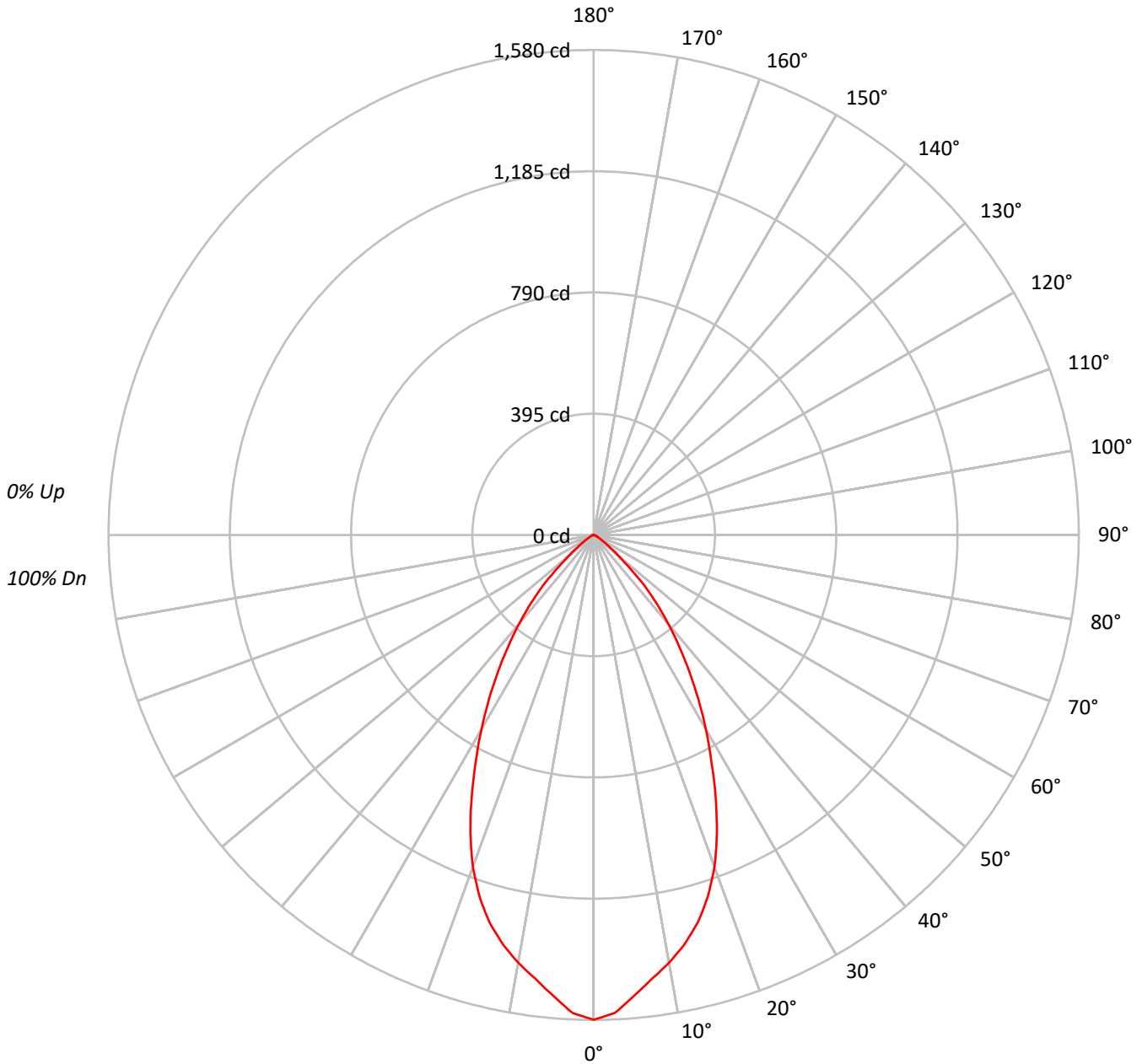
Lumens per Lamp: N/A  
Luminaire Lumens: 1511.3 lumens  
Efficiency: N/A  
Efficacy: 112.8 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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																	
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																											
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																											
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																											
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78																											
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72																											
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66																											
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61																											
7	81	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57																											
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	54	53																											
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49																											
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46																											

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

	0°
0°	86594
5°	82952
10°	78778
15°	74251
20°	67124
25°	56828
30°	46273
35°	36219
40°	26972
45°	18134
50°	8776
55°	4339
60°	2193
65°	1388
70°	641
75°	572
80°	410
85°	818

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18134 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.0	9.3
10°-20°	364.2	24.1
20°-30°	429.2	28.4
30°-40°	338.7	22.4
40°-50°	177.8	11.8
50°-60°	45.4	3.0
60°-70°	10.8	0.7
70°-80°	2.8	0.2
80°-90°	1.2	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°	934.5	61.8
0°-40°	1273.2	84.2
0°-60°	1496.4	99.0
0°-90°	1511.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1511.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1580	
5°	1507	141
15°	1308	364
25°	940	429
35°	541	339
45°	234	178
55°	45	45
65°	11	11
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1579.6
2.5°	1559.6
5°	1507.4
7.5°	1458.0
10°	1415.2
12.5°	1365.8
15°	1308.3
17.5°	1236.2
20°	1150.6
22.5°	1049.1
25°	939.5
27.5°	829.9
30°	731.0
32.5°	633.4
35°	541.2
37.5°	455.7
40°	376.9
42.5°	303.4
45°	233.9
47.5°	156.4
50°	102.9
52.5°	69.5
55°	45.4
57.5°	29.4
60°	20.0
62.5°	14.7
65°	10.7
67.5°	6.7
70°	4.0
72.5°	2.7
75°	2.7
77.5°	2.7
80°	1.3
82.5°	1.3
85°	1.3
87.5°	1.3
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)