

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: P643770

Luminaire Tested: ML5615LSWFL559FS1E - 592SC - 1200LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 592SC - 1200LM - 5000K  
Description: ML56 RR, 55D TIR OPTIC, 5" SPECULAR CLEAR TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

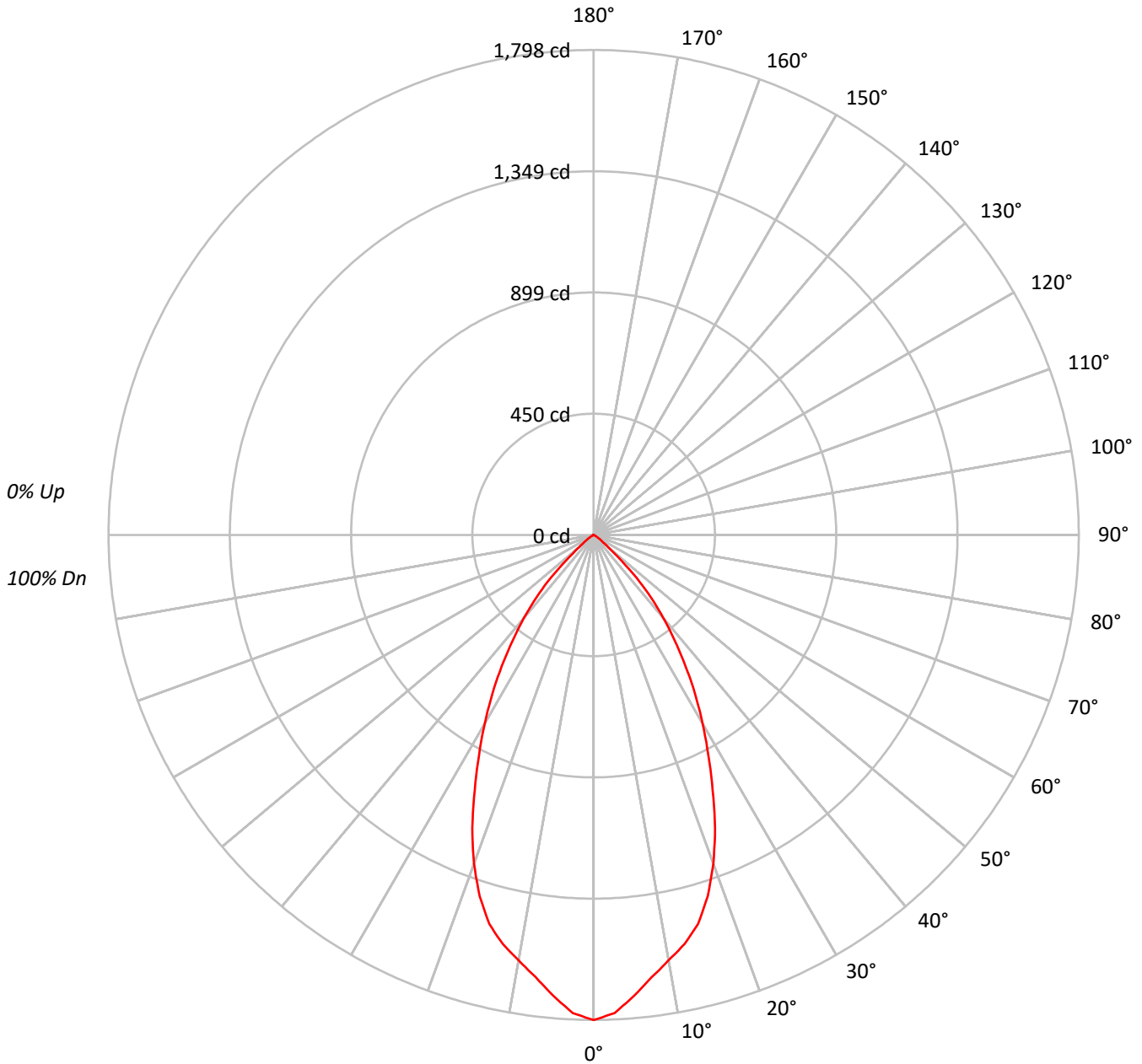
Lumens per Lamp: N/A  
Luminaire Lumens: 1621.0 lumens  
Efficiency: N/A  
Efficacy: 121.0 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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				20				
RC	80				70				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	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			
3	102	95	90	86	100	94	89	85	91	87	84	89	85	82	86	84	81	80			
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74			
5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68			
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63			
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59			
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55			
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51			
10	70	60	54	50	69	60	54	50	59	54	50	58	53	50	57	53	50	48			

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

	0°
0°	141975
5°	135909
10°	128366
15°	122057
20°	108907
25°	90864
30°	73579
35°	57128
40°	41364
45°	25063
50°	8302
55°	3757
60°	1137
65°	262
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25063 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	160.1	9.9
10°-20°	413.8	25.5
20°-30°	478.1	29.5
30°-40°	370.1	22.8
40°-50°	170.1	10.5
50°-60°	26.9	1.7
60°-70°	1.9	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	1052.0	64.9
0°-40°	1422.1	87.7
0°-60°	1619.1	99.9
0°-90°	1621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1621.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1798	
5°	1715	160
15°	1494	414
25°	1043	478
35°	593	370
45°	224	170
55°	27	27
65°	1	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1798.5
2.5°	1774.1
5°	1715.1
7.5°	1653.2
10°	1601.4
12.5°	1553.9
15°	1493.5
17.5°	1404.3
20°	1296.4
22.5°	1175.5
25°	1043.2
27.5°	919.4
30°	807.2
32.5°	699.3
35°	592.8
37.5°	492.1
40°	401.4
42.5°	315.1
45°	224.5
47.5°	123.7
50°	67.6
52.5°	41.7
55°	27.3
57.5°	15.8
60°	7.2
62.5°	2.9
65°	1.4
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
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)