

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: P643812

Luminaire Tested: ML5615LSWFL559FS1E - 593SNB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-53)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSWFL559FS1E - 593SNB - 1200LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

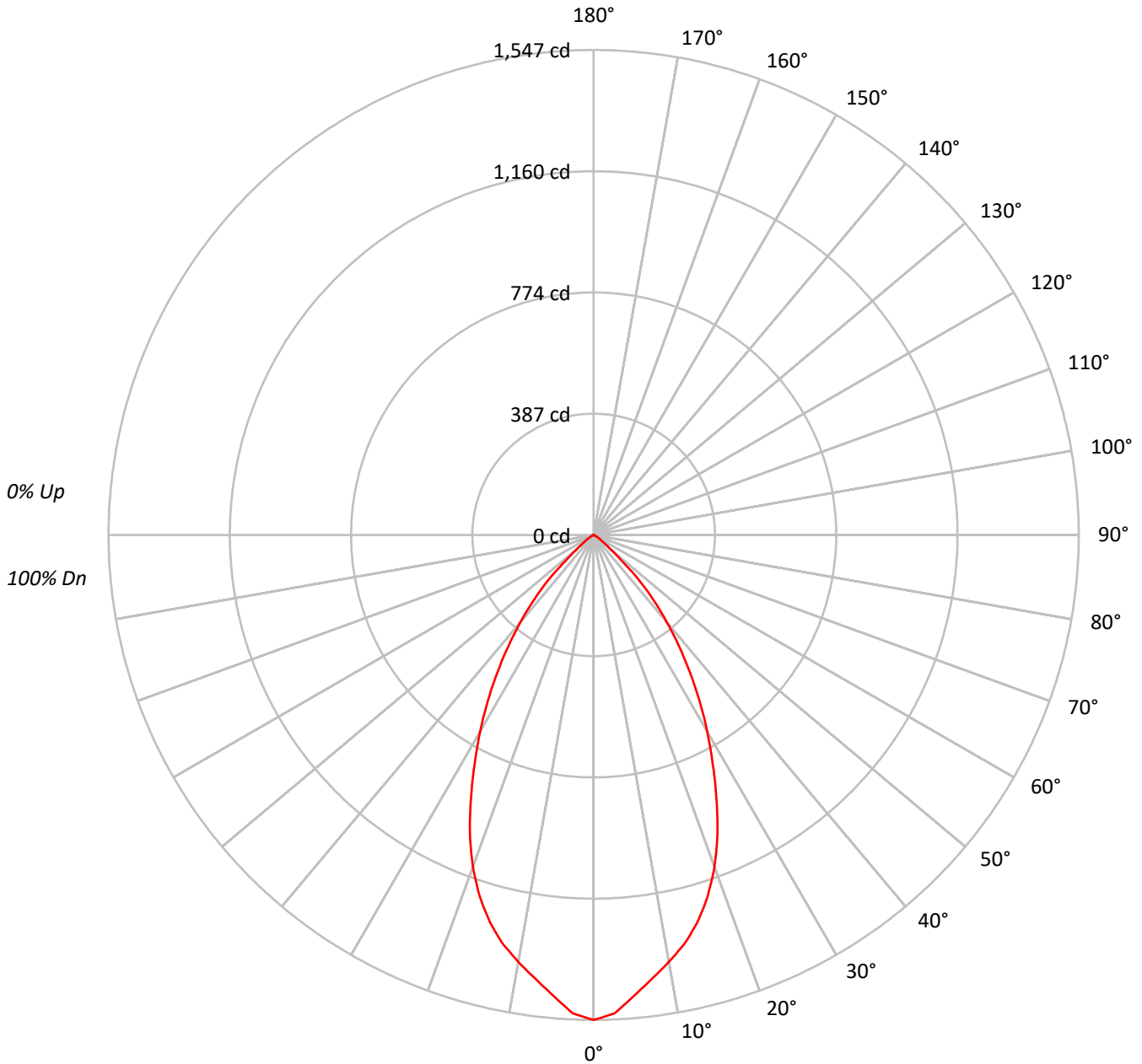
Lumens per Lamp: N/A  
Luminaire Lumens: 1438.8 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93				
2	107	102	98	94	105	101	97	93	97	94	91	94	92	89	91	89	88	86				
3	102	95	90	85	100	93	89	85	91	87	83	88	85	82	86	83	81	79				
4	96	88	82	78	94	87	82	77	85	80	76	83	79	76	81	77	75	73				
5	91	82	76	71	89	81	75	71	79	74	70	78	73	70	76	72	69	68				
6	86	77	70	66	84	76	70	66	74	69	65	73	68	65	71	67	64	63				
7	81	72	65	61	80	71	65	61	70	64	60	68	64	60	67	63	60	58				
8	77	67	61	57	76	67	61	56	65	60	56	64	60	56	63	59	56	54				
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51				
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48				

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

	0°
0°	122129
5°	116922
10°	110868
15°	104527
20°	94659
25°	80691
30°	65940
35°	51538
40°	37407
45°	23243
50°	7995
55°	3757
60°	1437
65°	486
70°	300
75°	397
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23243 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.0	9.6
10°-20°	356.2	24.8
20°-30°	423.1	29.4
30°-40°	333.7	23.2
40°-50°	156.3	10.9
50°-60°	27.1	1.9
60°-70°	3.5	0.2
70°-80°	0.9	0.1
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°	917.4	63.8
0°-40°	1251.0	87.0
0°-60°	1434.4	99.7
0°-90°	1438.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1438.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1547	
5°	1476	138
15°	1279	356
25°	926	423
35°	535	334
45°	208	156
55°	27	27
65°	3	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1547.1
2.5°	1527.5
5°	1475.5
7.5°	1427.4
10°	1383.1
12.5°	1336.3
15°	1279.0
17.5°	1208.8
20°	1126.8
22.5°	1031.8
25°	926.4
27.5°	821.0
30°	723.4
32.5°	628.5
35°	534.8
37.5°	446.3
40°	363.0
42.5°	285.0
45°	208.2
47.5°	117.1
50°	65.1
52.5°	41.6
55°	27.3
57.5°	16.9
60°	9.1
62.5°	5.2
65°	2.6
67.5°	1.3
70°	1.3
72.5°	1.3
75°	1.3
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)