

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: P643811

Luminaire Tested: ML5615LSWFL559FS1E - 593SNB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643811  
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 - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

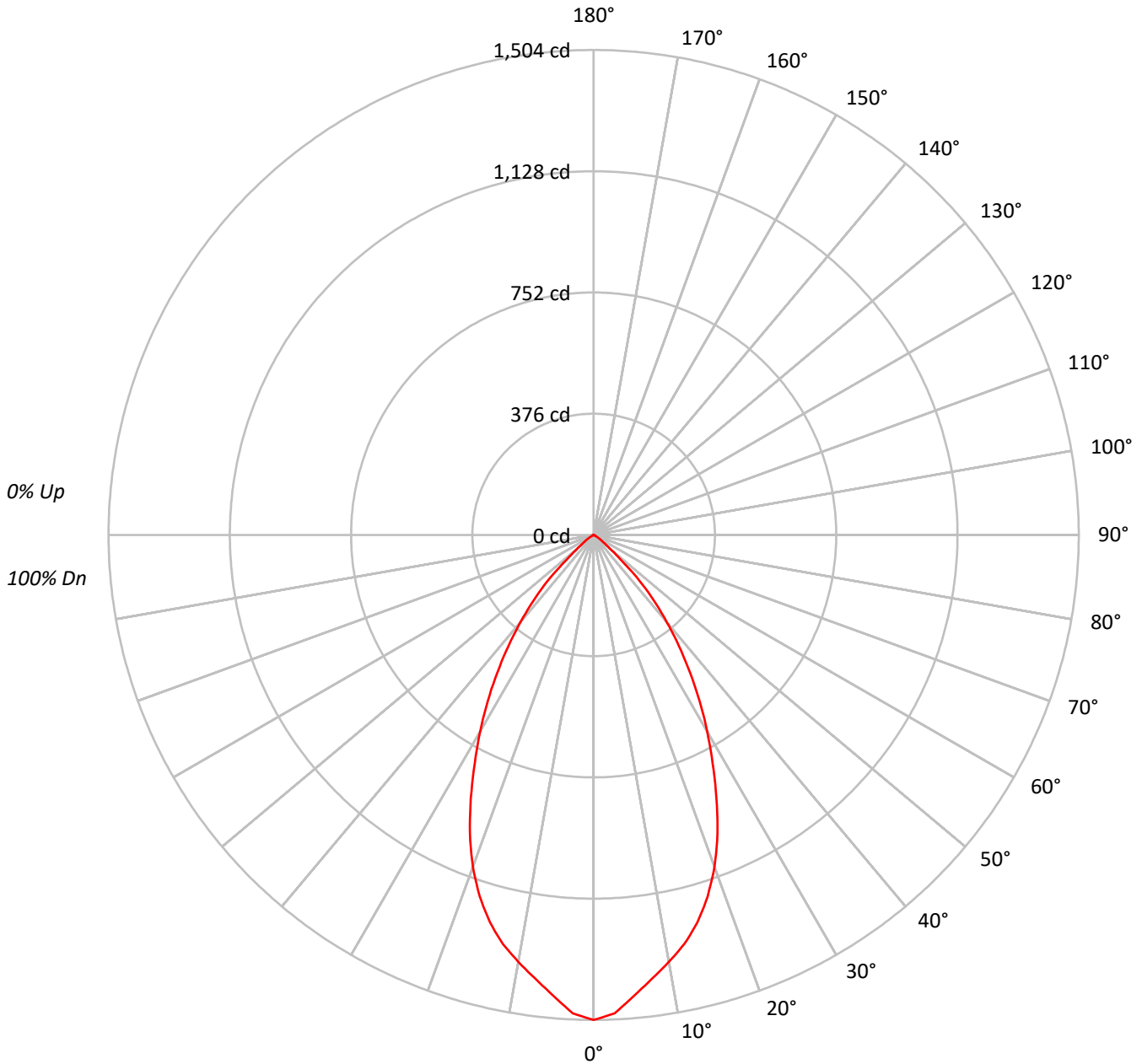
Lumens per Lamp: N/A  
Luminaire Lumens: 1398.9 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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									
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	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°	118735
5°	113673
10°	107789
15°	101626
20°	92030
25°	78452
30°	64108
35°	50102
40°	36366
45°	22596
50°	7774
55°	3661
60°	1405
65°	467
70°	300
75°	397
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22596 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.2	9.6
10°-20°	346.4	24.8
20°-30°	411.3	29.4
30°-40°	324.4	23.2
40°-50°	151.9	10.9
50°-60°	26.4	1.9
60°-70°	3.4	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°	891.9	63.8
0°-40°	1216.3	86.9
0°-60°	1394.6	99.7
0°-90°	1398.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1398.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1504	
5°	1434	134
15°	1244	346
25°	901	411
35°	520	324
45°	202	152
55°	27	26
65°	2	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1504.1
2.5°	1485.1
5°	1434.5
7.5°	1387.7
10°	1344.7
12.5°	1299.2
15°	1243.5
17.5°	1175.2
20°	1095.5
22.5°	1003.1
25°	900.7
27.5°	798.2
30°	703.3
32.5°	611.0
35°	519.9
37.5°	433.9
40°	352.9
42.5°	277.0
45°	202.4
47.5°	113.9
50°	63.3
52.5°	40.5
55°	26.6
57.5°	16.4
60°	8.9
62.5°	5.1
65°	2.5
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

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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)