

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: P642005

Luminaire Tested: ML5612LSWFL5597FS1E - 593SNB - 600LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642005  
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: ML5612LSWFL5597FS1E - 593SNB - 600LM - 5000K  
Description: ML56 RR, 55D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

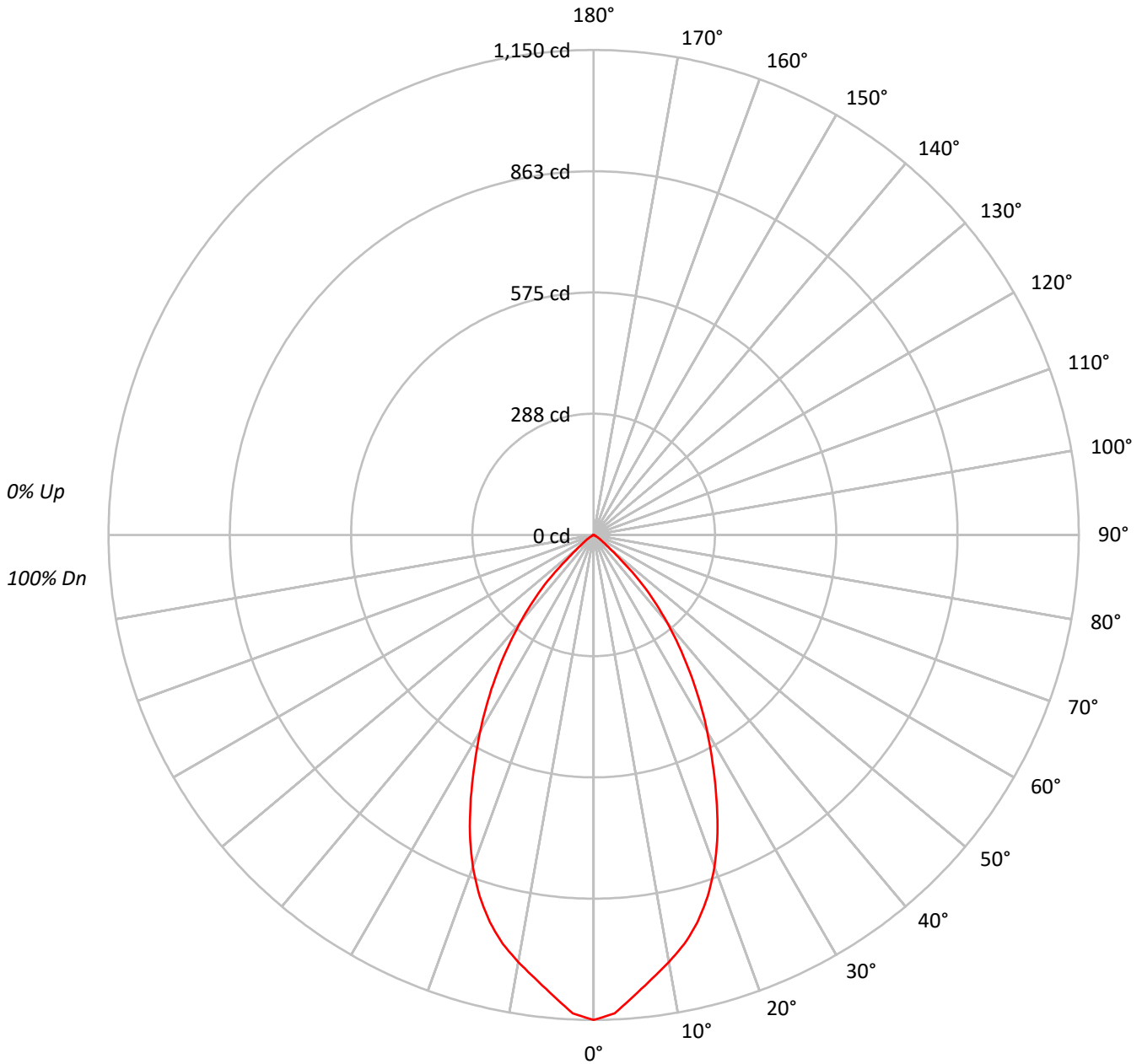
Lumens per Lamp: N/A  
Luminaire Lumens: 1069.7 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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	52	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°	90790
5°	86921
10°	82427
15°	77713
20°	70373
25°	59987
30°	49022
35°	38316
40°	27813
45°	17282
50°	5944
55°	2794
60°	1074
65°	355
70°	231
75°	305
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17282 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.6	9.6
10°-20°	264.8	24.8
20°-30°	314.5	29.4
30°-40°	248.1	23.2
40°-50°	116.2	10.9
50°-60°	20.2	1.9
60°-70°	2.6	0.2
70°-80°	0.7	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°	682.0	63.8
0°-40°	930.1	86.9
0°-60°	1066.4	99.7
0°-90°	1069.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1069.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1150	
5°	1097	103
15°	951	265
25°	689	315
35°	398	248
45°	155	116
55°	20	20
65°	2	3
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1150.1
2.5°	1135.6
5°	1096.9
7.5°	1061.1
10°	1028.3
12.5°	993.4
15°	950.9
17.5°	898.6
20°	837.7
22.5°	767.1
25°	688.7
27.5°	610.4
30°	537.8
32.5°	467.2
35°	397.6
37.5°	331.8
40°	269.9
42.5°	211.8
45°	154.8
47.5°	87.1
50°	48.4
52.5°	31.0
55°	20.3
57.5°	12.6
60°	6.8
62.5°	3.9
65°	1.9
67.5°	1.0
70°	1.0
72.5°	1.0
75°	1.0
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)