

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: P640623

Luminaire Tested: ML5612LSFL4097FS1E - 593SNB - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640623  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSFL4097FS1E - 593SNB - 600LM - 3500K  
Description: ML56 RR, 40D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1009.9 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

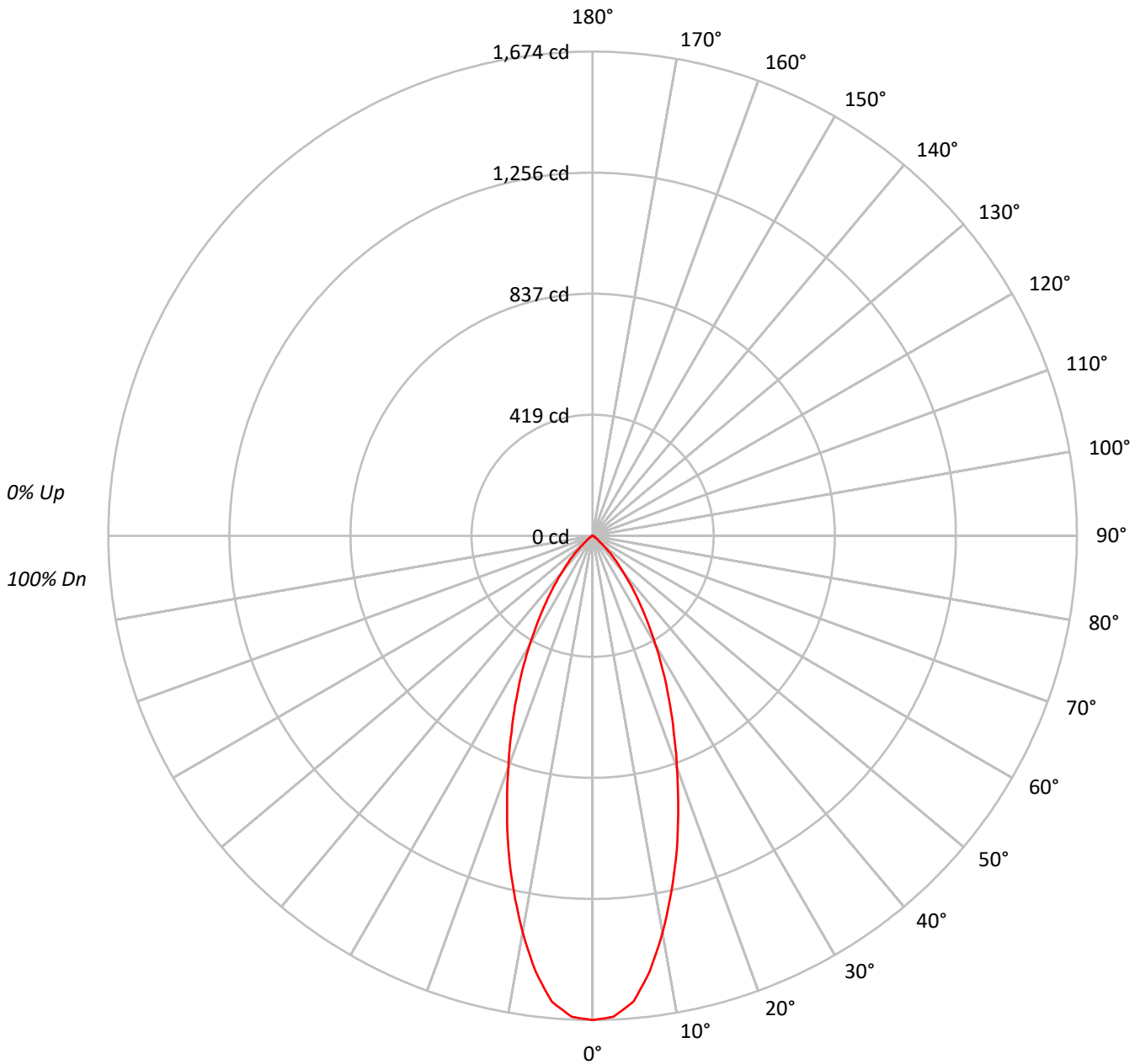
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94				
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88				
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82				
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77				
5	93	85	80	76	92	85	79	75	83	78	75	81	77	74	80	76	73	72				
6	89	81	75	71	88	80	74	70	78	74	70	77	73	69	76	72	69	68				
7	85	76	70	66	84	75	70	66	74	69	66	73	69	65	72	68	65	64				
8	81	72	66	62	80	71	66	62	70	65	62	69	65	62	68	64	61	60				
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57				
10	74	65	59	56	73	65	59	56	64	59	55	63	59	55	62	58	55	54				

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

	0°
0°	132187
5°	128135
10°	111613
15°	91843
20°	71541
25°	54456
30°	39551
35°	27012
40°	16941
45°	10025
50°	3746
55°	2230
60°	1279
65°	504
70°	208
75°	275
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10025 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.8	14.5
10°-20°	310.1	30.7
20°-30°	286.7	28.4
30°-40°	177.4	17.6
40°-50°	69.2	6.9
50°-60°	15.4	1.5
60°-70°	3.5	0.3
70°-80°	0.6	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°	743.7	73.6
0°-40°	921.1	91.2
0°-60°	1005.8	99.6
0°-90°	1009.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1009.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1674	
5°	1617	147
15°	1124	310
25°	625	287
35°	280	177
45°	90	69
55°	16	15
65°	3	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1674.5
2.5°	1664.6
5°	1617.0
7.5°	1517.3
10°	1392.4
12.5°	1258.6
15°	1123.8
17.5°	982.8
20°	851.6
22.5°	732.1
25°	625.2
27.5°	526.4
30°	433.9
32.5°	352.1
35°	280.3
37.5°	219.2
40°	164.4
42.5°	124.9
45°	89.8
47.5°	53.0
50°	30.5
52.5°	22.5
55°	16.2
57.5°	11.7
60°	8.1
62.5°	6.3
65°	2.7
67.5°	0.9
70°	0.9
72.5°	0.9
75°	0.9
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)