

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: P640625

Luminaire Tested: ML5612LSFL4097FS1E - 593SNB - 600LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640625  
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 - 5000K  
Description: ML56 RR, 40D 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: 1087.1 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

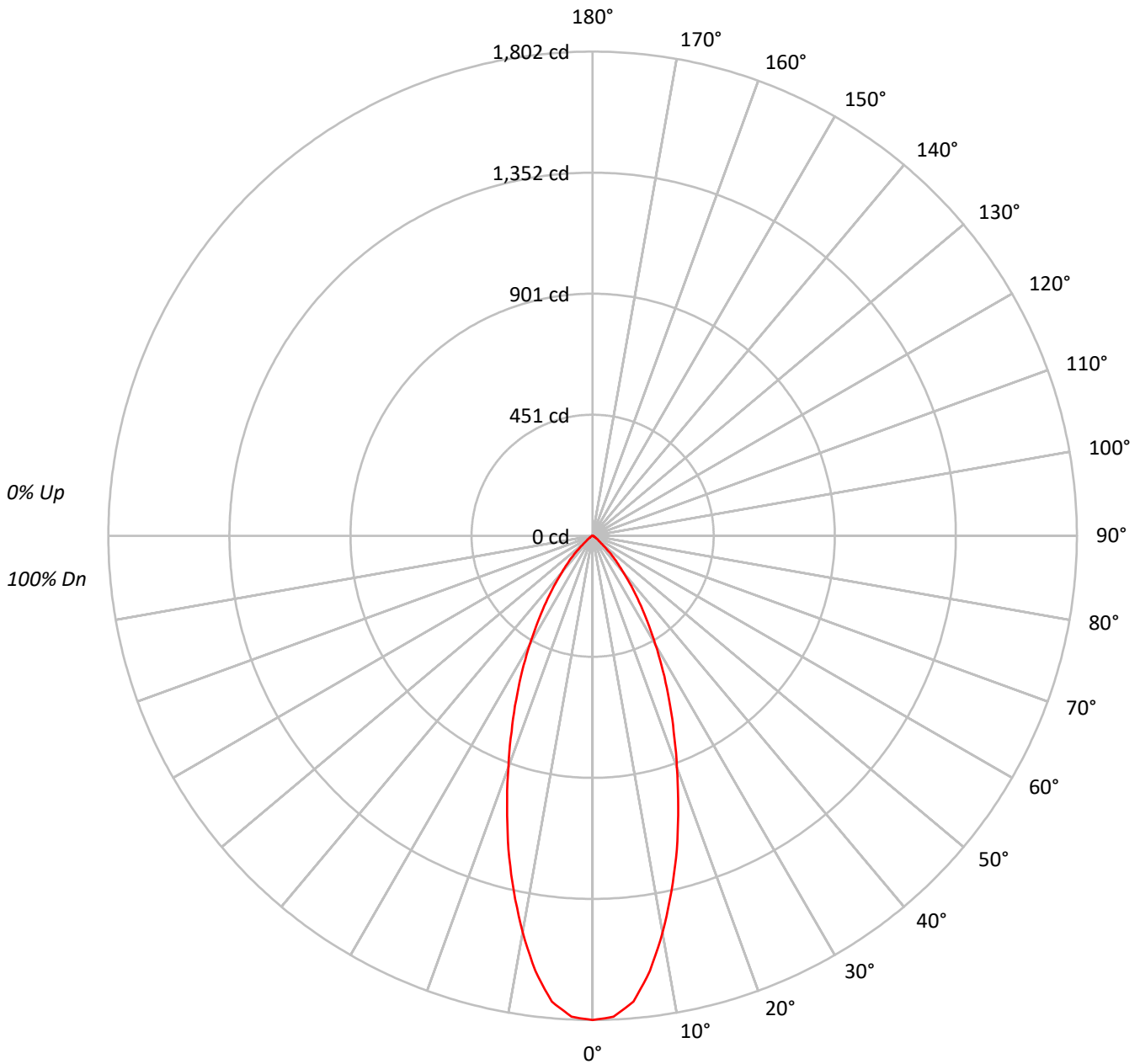
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	142283
5°	137921
10°	120134
15°	98855
20°	77009
25°	58619
30°	42569
35°	29075
40°	18230
45°	10796
50°	4040
55°	2395
60°	1374
65°	542
70°	231
75°	305
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10796 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.1	14.5
10°-20°	333.8	30.7
20°-30°	308.6	28.4
30°-40°	191.0	17.6
40°-50°	74.5	6.9
50°-60°	16.6	1.5
60°-70°	3.8	0.3
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°	800.5	73.6
0°-40°	991.5	91.2
0°-60°	1082.6	99.6
0°-90°	1087.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1087.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1802	
5°	1740	158
15°	1210	334
25°	673	309
35°	302	191
45°	97	75
55°	17	17
65°	3	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1802.4
2.5°	1791.7
5°	1740.5
7.5°	1633.1
10°	1498.7
12.5°	1354.7
15°	1209.6
17.5°	1057.8
20°	916.7
22.5°	788.1
25°	673.0
27.5°	566.6
30°	467.0
32.5°	379.0
35°	301.7
37.5°	235.9
40°	176.9
42.5°	134.4
45°	96.7
47.5°	57.0
50°	32.9
52.5°	24.2
55°	17.4
57.5°	12.6
60°	8.7
62.5°	6.8
65°	2.9
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)