

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: P640726

Luminaire Tested: ML5612LSFL4097FS1E - 691WB - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640726  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-36)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSFL4097FS1E - 691WB - 600LM - 2700K  
Description: ML56 RR, 40D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 973.6 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

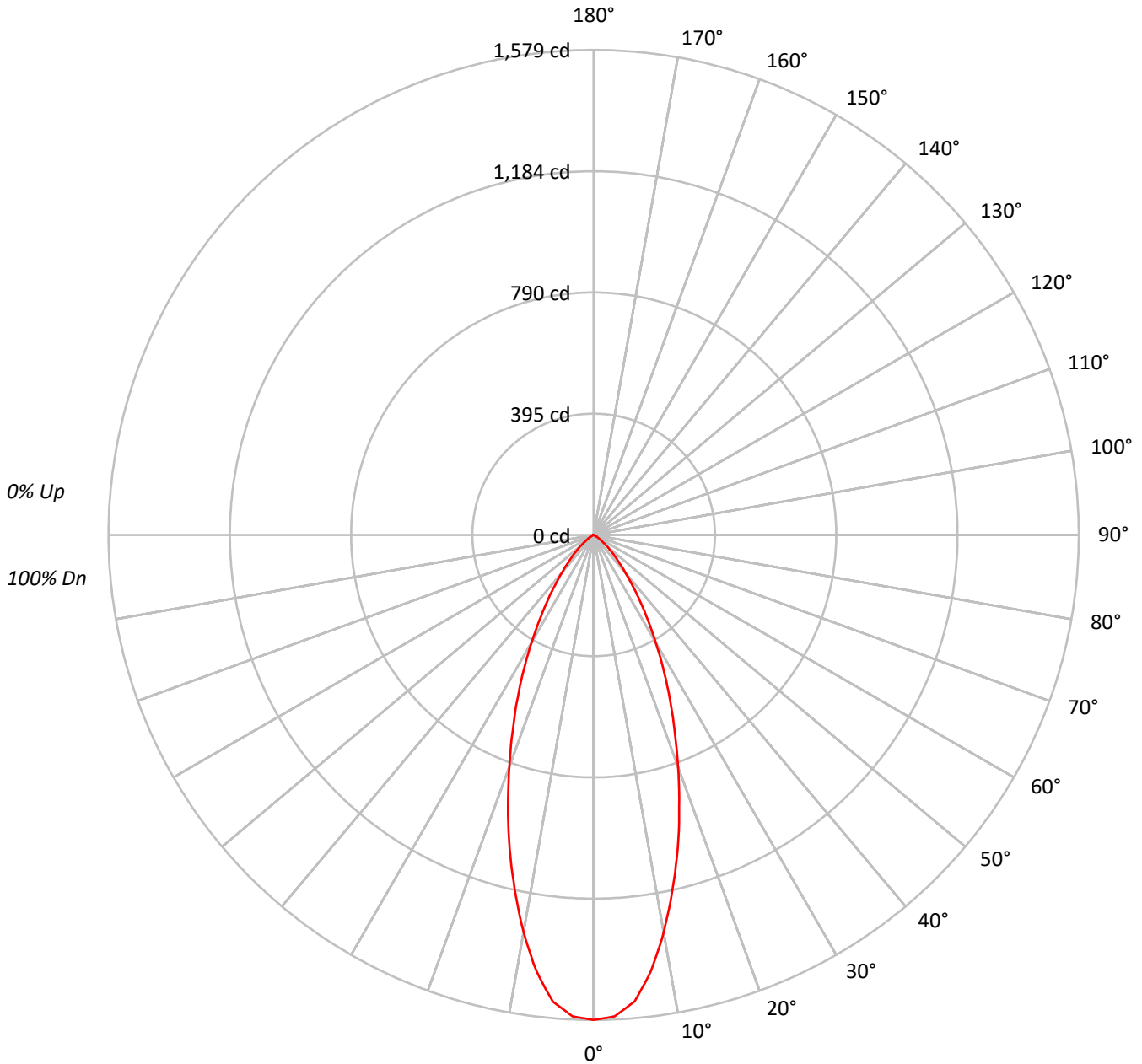
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94					94			
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	96	91	87	101	95	90	87	92	89	85	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	67					67			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	63					63			
8	80	71	65	61	79	70	65	61	69	64	61	68	64	61	67	63	60	59					59			
9	77	67	62	58	76	67	61	58	66	61	57	65	61	57	64	60	57	56					56			
10	73	64	58	55	72	64	58	55	63	58	54	62	57	54	61	57	54	53					53			

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

	0°
0°	86572
5°	83909
10°	73100
15°	59961
20°	46805
25°	35421
30°	25555
35°	17574
40°	11493
45°	7512
50°	4418
55°	2351
60°	1305
65°	765
70°	401
75°	169
80°	253
85°	503

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7512 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.5	14.2
10°-20°	292.0	30.0
20°-30°	268.4	27.6
30°-40°	166.6	17.1
40°-50°	76.2	7.8
50°-60°	23.9	2.5
60°-70°	6.1	0.6
70°-80°	1.3	0.1
80°-90°	0.5	0.1
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°	698.9	71.8
0°-40°	865.4	88.9
0°-60°	965.6	99.2
0°-90°	973.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	973.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1579	
5°	1525	138
15°	1056	292
25°	586	268
35°	263	167
45°	97	76
55°	25	24
65°	6	6
75°	1	1
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1579.2
2.5°	1569.0
5°	1524.8
7.5°	1431.3
10°	1313.2
12.5°	1184.8
15°	1056.5
17.5°	926.4
20°	802.3
22.5°	687.6
25°	585.6
27.5°	489.6
30°	403.7
32.5°	327.2
35°	262.6
37.5°	207.4
40°	160.6
42.5°	124.9
45°	96.9
47.5°	71.4
50°	51.8
52.5°	35.7
55°	24.6
57.5°	16.1
60°	11.9
62.5°	8.5
65°	5.9
67.5°	3.4
70°	2.5
72.5°	1.7
75°	0.8
77.5°	0.8
80°	0.8
82.5°	0.8
85°	0.8
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)