

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: P640743

Luminaire Tested: ML5612LSFL4097FS1E - 692H - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-38)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSFL4097FS1E - 692H - 600LM - 3500K  
Description: ML56 RR, 40D TIR OPTIC, 6" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

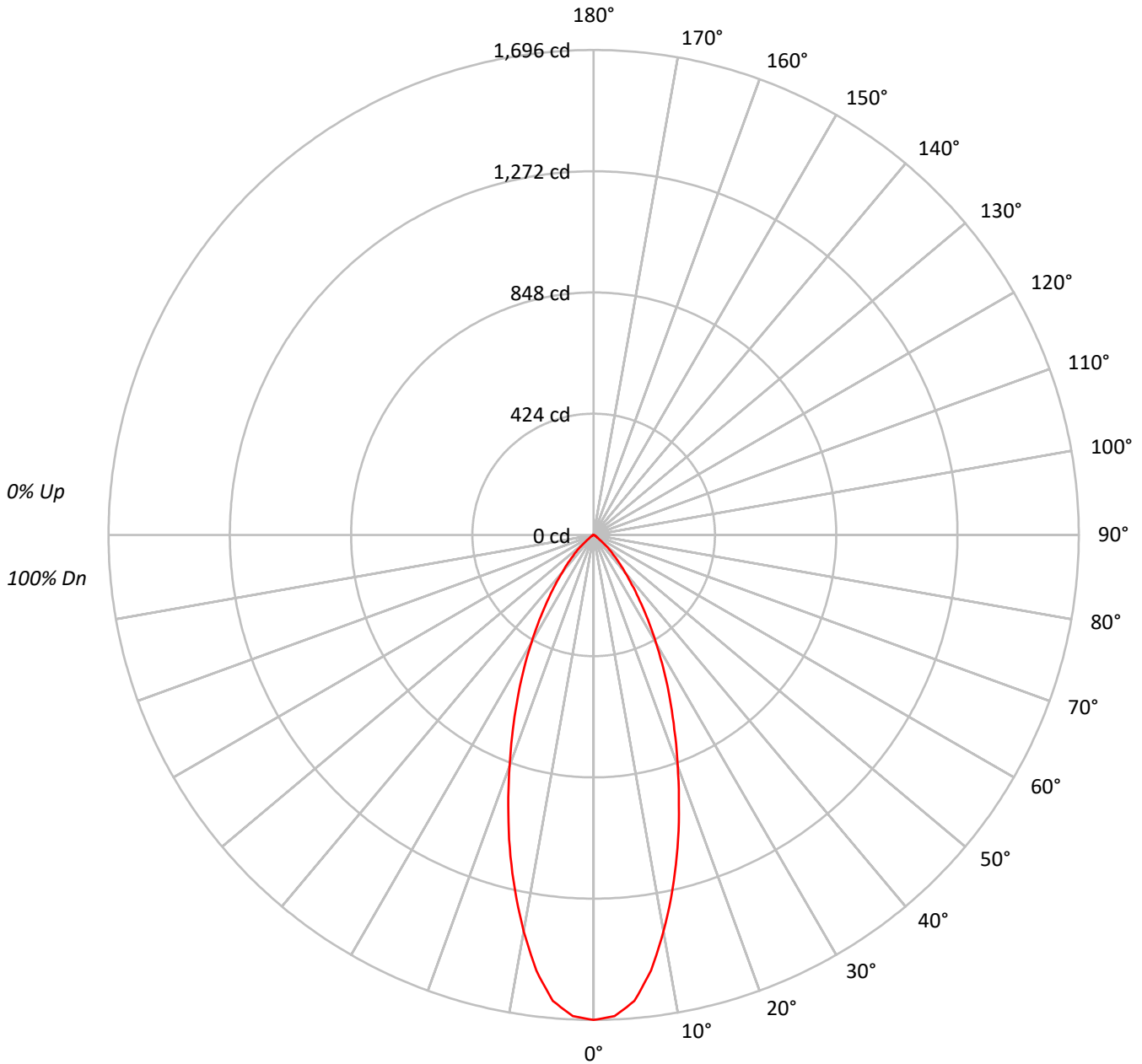
Lumens per Lamp: N/A  
Luminaire Lumens: 1026.1 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 0.64 / 0.64 / 0.69  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (Ain): 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	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	109	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94						94													
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88						88													
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82						82													
4	98	91	85	81	96	90	85	81	87	83	80	86	82	79	84	81	78	77						77													
5	93	85	80	75	92	84	79	75	83	78	74	81	77	74	79	76	73	72						72													
6	89	80	75	70	87	80	74	70	78	73	70	77	72	69	75	72	69	67						67													
7	85	76	70	66	83	75	70	66	74	69	65	73	68	65	72	68	65	63						63													
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60						60													
9	77	68	62	59	76	68	62	58	67	62	58	66	61	58	65	61	58	57						57													
10	74	65	59	55	73	64	59	55	64	59	55	63	58	55	62	58	55	54						54													

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

	0°
0°	92980
5°	90023
10°	78355
15°	64325
20°	50078
25°	38004
30°	27536
35°	18825
40°	12158
45°	7458
50°	3753
55°	1548
60°	987
65°	350
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7458 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.6	14.5
10°-20°	313.0	30.5
20°-30°	288.2	28.1
30°-40°	178.5	17.4
40°-50°	77.2	7.5
50°-60°	17.4	1.7
60°-70°	3.3	0.3
70°-80°	0.0	0.0
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°	749.8	73.1
0°-40°	928.2	90.5
0°-60°	1022.8	99.7
0°-90°	1026.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1026.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1696	
5°	1636	149
15°	1133	313
25°	628	288
35°	281	178
45°	96	77
55°	16	17
65°	3	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1696.1
2.5°	1684.4
5°	1635.9
7.5°	1536.1
10°	1407.6
12.5°	1271.8
15°	1133.4
17.5°	991.4
20°	858.4
22.5°	737.0
25°	628.3
27.5°	527.6
30°	435.0
32.5°	353.2
35°	281.3
37.5°	220.2
40°	169.9
42.5°	131.2
45°	96.2
47.5°	71.0
50°	44.0
52.5°	23.4
55°	16.2
57.5°	12.6
60°	9.0
62.5°	5.4
65°	2.7
67.5°	0.9
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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Scaled Data Report



(END OF REPORT)