

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: P640676

Luminaire Tested: ML5612LSFL4097FS1E - 594TBZB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640676  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-34)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSFL4097FS1E - 594TBZB - 1200LM - 2700K  
Description: ML56 RR, 40D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1510.9 lumens  
Efficiency: N/A  
Efficacy: 91.6 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

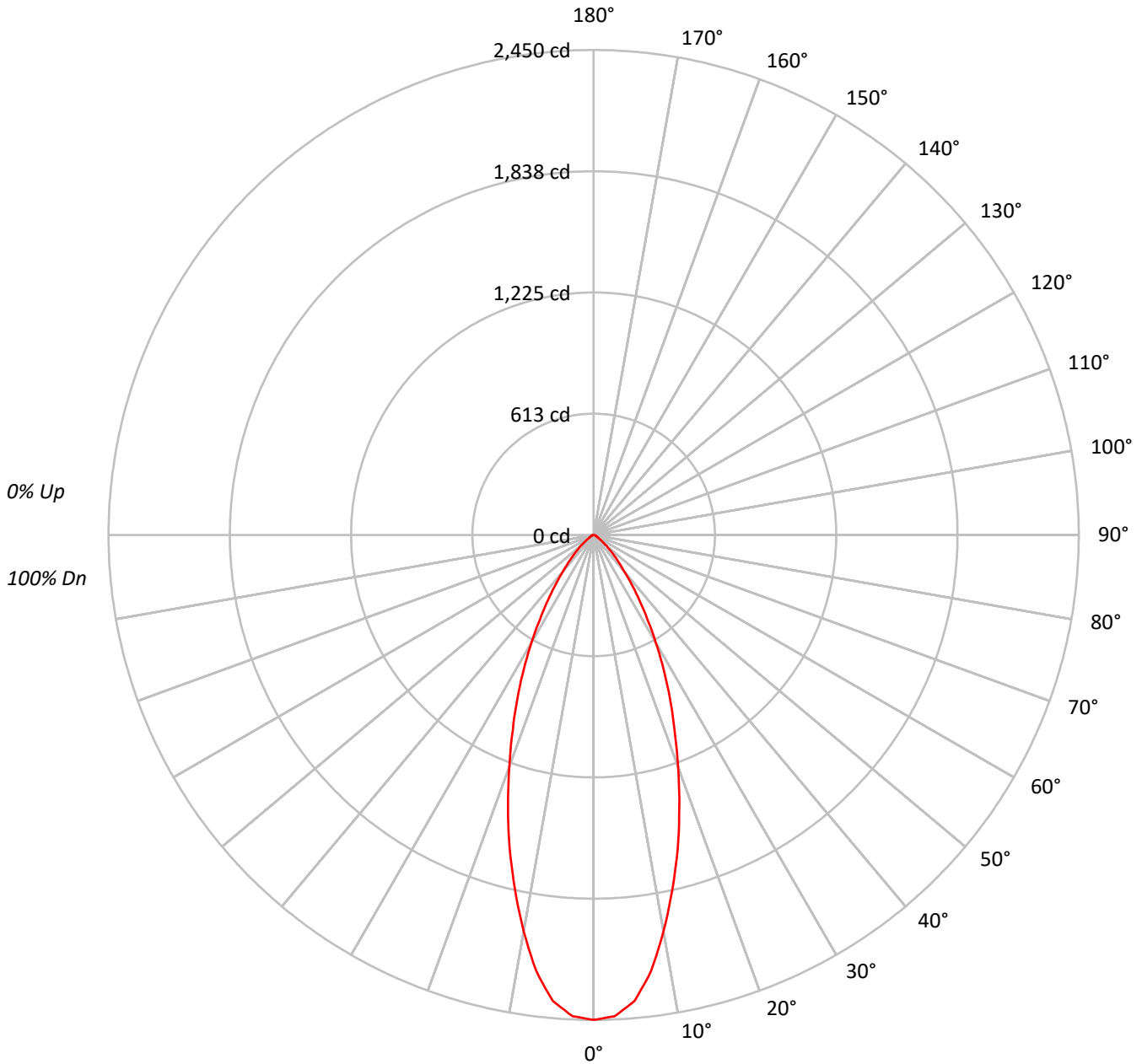
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P640676

CATALOG NUMBER: ML5612LSFL4097FS1E - 594TBZB - 1200LM - 2700K

### Luminous Intensity Polar Plot







TEST NUMBER: P640676

CATALOG NUMBER: ML5612LSFL4097FS1E - 594TBZB - 1200LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.8	14.2
10°-20°	452.8	30.0
20°-30°	417.0	27.6
30°-40°	255.0	16.9
40°-50°	114.0	7.5
50°-60°	37.6	2.5
60°-70°	14.2	0.9
70°-80°	5.0	0.3
80°-90°	0.5	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°	1084.7	71.8
0°-40°	1339.6	88.7
0°-60°	1491.2	98.7
0°-90°	1510.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1510.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2450	
5°	2364	215
15°	1639	453
25°	911	417
35°	400	255
45°	144	114
55°	38	38
65°	13	14
75°	5	5
85°	0	1
90°	0	



TEST NUMBER: P640676

CATALOG NUMBER: ML5612LSFL4097FS1E - 594TBZB - 1200LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	2449.7
2.5°	2433.8
5°	2363.8
7.5°	2222.5
10°	2033.7
12.5°	1835.6
15°	1638.8
17.5°	1438.1
20°	1244.0
22.5°	1067.0
25°	911.2
27.5°	762.0
30°	627.3
32.5°	504.5
35°	400.1
37.5°	314.3
40°	241.7
42.5°	187.5
45°	143.9
47.5°	107.0
50°	76.6
52.5°	54.1
55°	38.3
57.5°	27.7
60°	22.4
62.5°	18.5
65°	13.2
67.5°	10.6
70°	7.9
72.5°	6.6
75°	5.3
77.5°	2.6
80°	1.3
82.5°	1.3
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

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

Scaled Data Report





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

Scaled Data Report



— 0°-180°

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)