

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: P640862

Luminaire Tested: ML5612LSFL4097FS1E - 694WB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P640862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSFL4097FS1E - 694WB - 600LM - 3000K
Description: ML56 RR, 40D TIR OPTIC, 6" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1006.8 lumens
Efficiency: N/A
Efficacy: 97.7 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

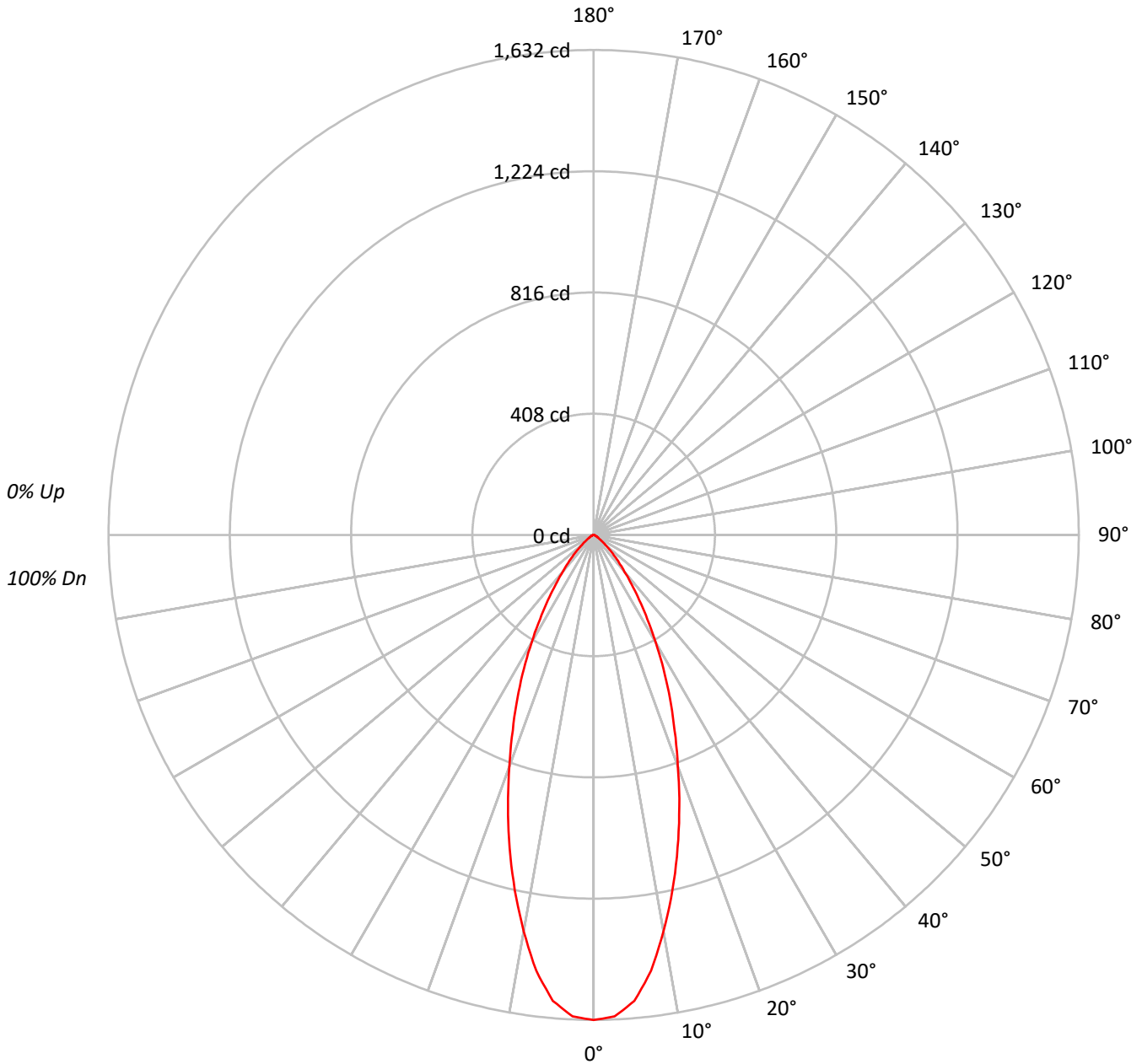
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P640862

CATALOG NUMBER: ML5612LSFL4097FS1E - 694WB - 600LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P640862

CATALOG NUMBER: ML5612LSFL4097FS1E - 694WB - 600LM - 3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	89494
5°	86611
10°	75388
15°	61919
20°	48333
25°	36673
30°	26358
35°	17915
40°	11522
45°	7458
50°	4324
55°	2428
60°	1634
65°	1129
70°	833
75°	741
80°	284
85°	0

MAXIMUM LUMINANCE 45°-90°:

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



TEST NUMBER: P640862

CATALOG NUMBER: ML5612LSFL4097FS1E - 694WB - 600LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.0	14.2
10°-20°	301.7	30.0
20°-30°	277.8	27.6
30°-40°	170.0	16.9
40°-50°	76.1	7.6
50°-60°	25.1	2.5
60°-70°	9.4	0.9
70°-80°	3.3	0.3
80°-90°	0.4	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°	722.5	71.8
0°-40°	892.5	88.7
0°-60°	993.7	98.7
0°-90°	1006.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1006.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1632	
5°	1574	143
15°	1091	302
25°	606	278
35°	268	170
45°	96	76
55°	25	25
65°	9	9
75°	4	3
85°	0	0
90°	0	



TEST NUMBER: P640862

CATALOG NUMBER: ML5612LSFL4097FS1E - 694WB - 600LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1632.5
2.5°	1622.0
5°	1573.9
7.5°	1479.4
10°	1354.3
12.5°	1224.8
15°	1091.0
17.5°	958.0
20°	828.5
22.5°	711.3
25°	606.3
27.5°	508.3
30°	416.4
32.5°	336.0
35°	267.7
37.5°	210.0
40°	161.0
42.5°	126.0
45°	96.2
47.5°	70.9
50°	50.7
52.5°	35.9
55°	25.4
57.5°	19.2
60°	14.9
62.5°	12.2
65°	8.7
67.5°	7.0
70°	5.2
72.5°	4.4
75°	3.5
77.5°	1.7
80°	0.9
82.5°	0.9
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)