

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: P642227

Luminaire Tested: ML5612LSWFL5597FS1E - 694TBZB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-68)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 694TBZB - 600LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 995.4 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

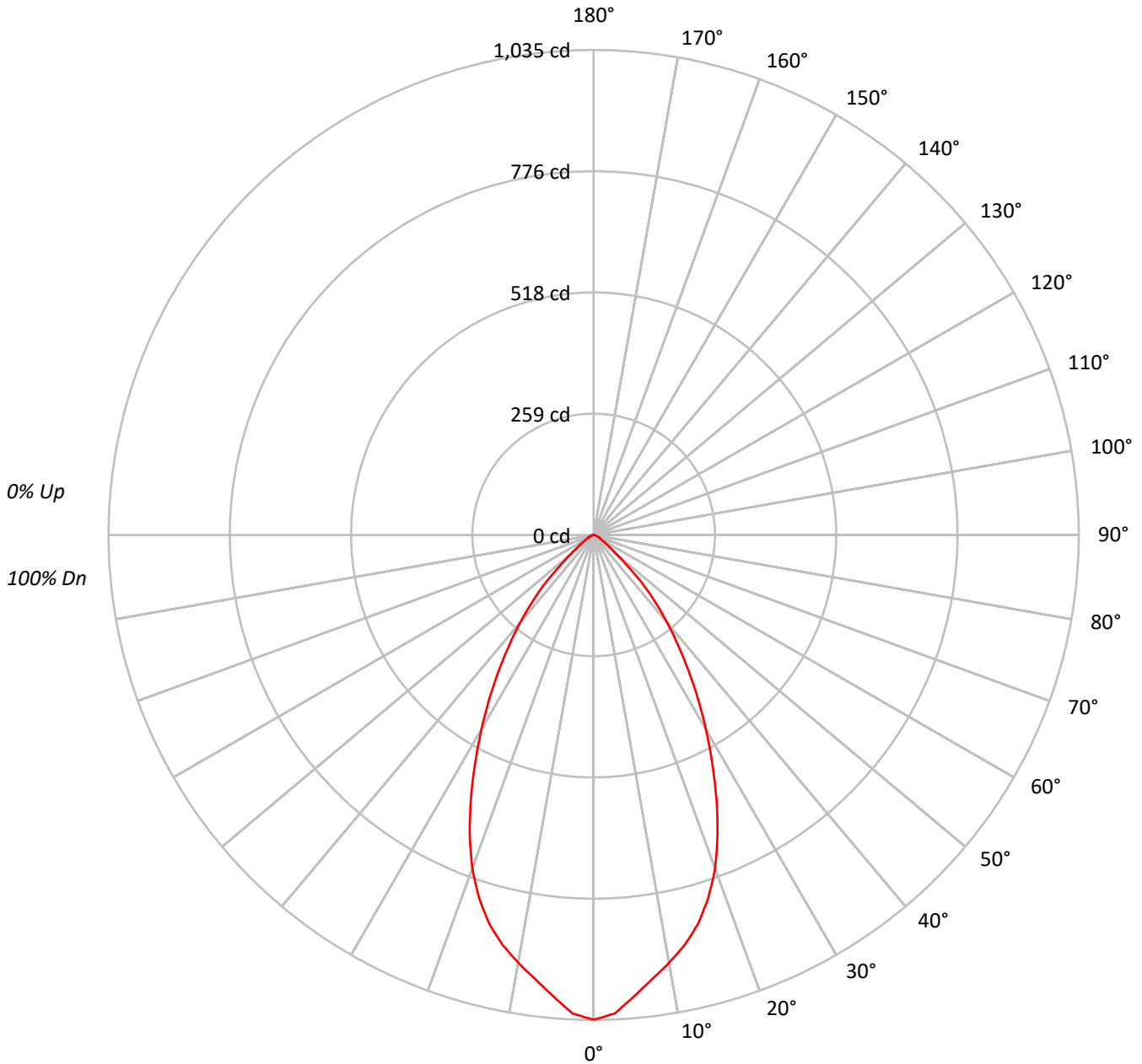
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P642227

CATALOG NUMBER: ML5612LSWFL5597FS1E - 694TBZB - 600LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P642227

CATALOG NUMBER: ML5612LSWFL5597FS1E - 694TBZB - 600LM - 3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									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	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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																											
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85																											
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																											
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																											
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																											
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61																											
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																											
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																											
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																											
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	56717
5°	54386
10°	51608
15°	48791
20°	44186
25°	37454
30°	30283
35°	23530
40°	17397
45°	11459
50°	5518
55°	2925
60°	1919
65°	1583
70°	1266
75°	932
80°	537
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11459 cd/sqm



TEST NUMBER: P642227

CATALOG NUMBER: ML5612LSWFL5597FS1E - 694TBZB - 600LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.4	9.3
10°-20°	239.3	24.0
20°-30°	282.5	28.4
30°-40°	220.2	22.1
40°-50°	112.7	11.3
50°-60°	30.6	3.1
60°-70°	12.4	1.2
70°-80°	4.7	0.5
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°	614.2	61.7
0°-40°	834.5	83.8
0°-60°	977.8	98.2
0°-90°	995.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	995.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1035	
5°	988	92
15°	860	239
25°	619	283
35°	352	220
45°	148	113
55°	31	31
65°	12	12
75°	4	5
85°	0	0
90°	0	



TEST NUMBER: P642227

CATALOG NUMBER: ML5612LSWFL5597FS1E - 694TBZB - 600LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1034.6
2.5°	1022.4
5°	988.3
7.5°	955.9
10°	927.1
12.5°	896.4
15°	859.7
17.5°	812.5
20°	757.4
22.5°	690.9
25°	619.2
27.5°	546.6
30°	478.4
32.5°	413.7
35°	351.6
37.5°	294.7
40°	243.1
42.5°	193.3
45°	147.8
47.5°	97.1
50°	64.7
52.5°	43.7
55°	30.6
57.5°	22.7
60°	17.5
62.5°	14.9
65°	12.2
67.5°	10.5
70°	7.9
72.5°	6.1
75°	4.4
77.5°	2.6
80°	1.7
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)