

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: P641531

Luminaire Tested: ML5612LSVWFL7597FS1E - 694TBZB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-91)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 694TBZB - 1200LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1450.1 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

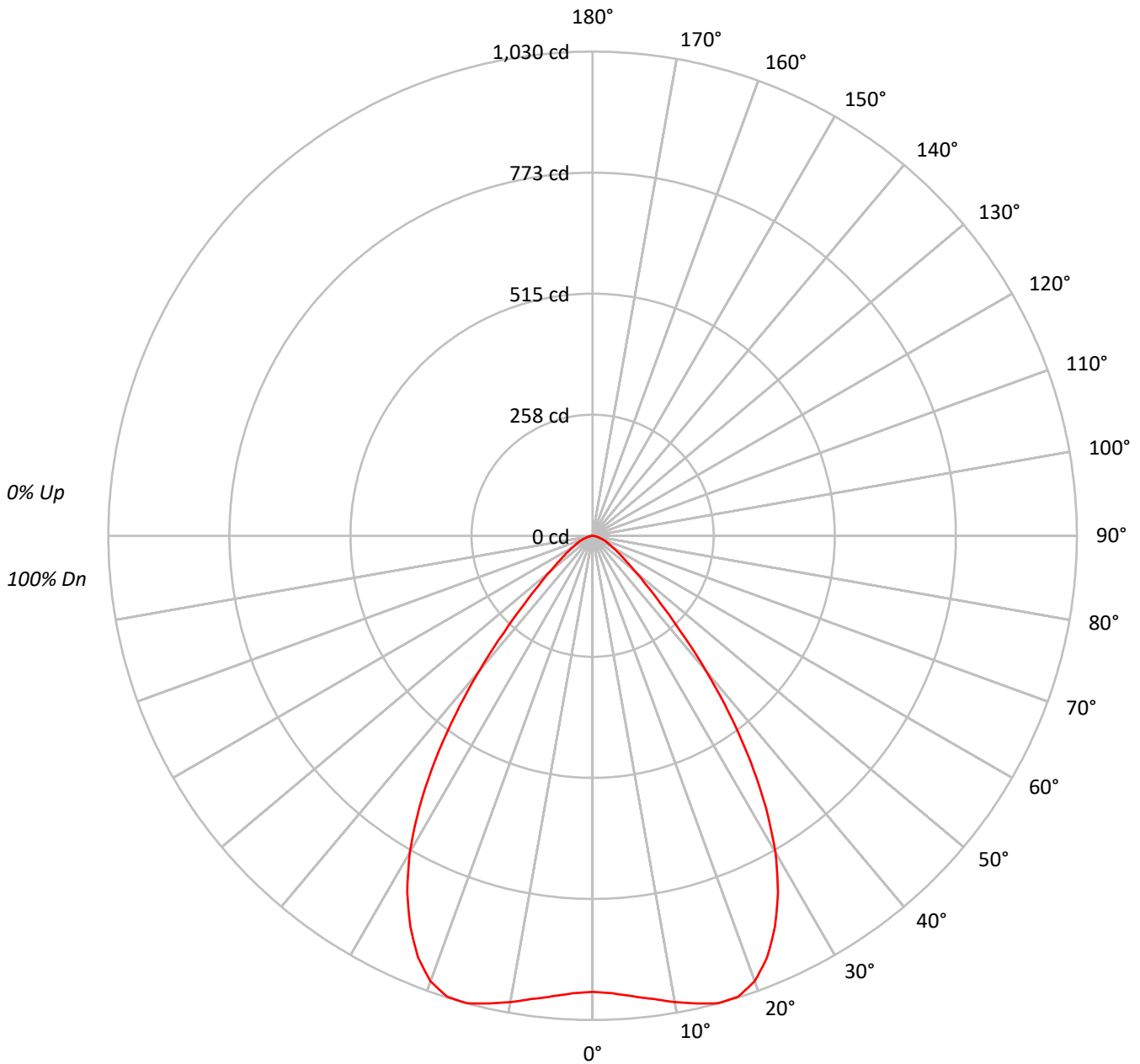
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641531

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694TBZB - 1200LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641531

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694TBZB - 1200LM - 2700K

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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75																			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68																			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62																			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57																			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	52																			
8	73	62	55	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48																			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	46	55	50	46	45																			
10	65	54	48	44	64	54	48	43	53	47	43	52	47	43	51	47	43	42																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	53187
5°	54116
10°	56067
15°	58434
20°	58834
25°	55491
30°	49216
35°	39137
40°	26829
45°	15862
50°	10132
55°	7063
60°	5350
65°	4449
70°	3590
75°	2796
80°	1673
85°	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15862 cd/sqm



TEST NUMBER: P641531

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694TBZB - 1200LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.6	6.5
10°-20°	289.6	20.0
20°-30°	417.4	28.8
30°-40°	360.2	24.8
40°-50°	168.8	11.6
50°-60°	69.1	4.8
60°-70°	34.5	2.4
70°-80°	14.1	1.0
80°-90°	1.8	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°	801.6	55.3
0°-40°	1161.8	80.1
0°-60°	1399.7	96.5
0°-90°	1450.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1450.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	970	
5°	983	95
15°	1030	290
25°	917	417
35°	585	360
45°	205	169
55°	74	69
65°	34	35
75°	13	14
85°	1	2
90°	0	



TEST NUMBER: P641531

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694TBZB - 1200LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	970.2
2.5°	974.2
5°	983.4
7.5°	994.0
10°	1007.2
12.5°	1019.0
15°	1029.6
17.5°	1028.3
20°	1008.5
22.5°	970.2
25°	917.4
27.5°	854.0
30°	777.5
32.5°	686.4
35°	584.8
37.5°	477.8
40°	374.9
42.5°	279.8
45°	204.6
47.5°	154.4
50°	118.8
52.5°	92.4
55°	73.9
57.5°	60.7
60°	48.8
62.5°	40.9
65°	34.3
67.5°	29.0
70°	22.4
72.5°	17.2
75°	13.2
77.5°	9.2
80°	5.3
82.5°	2.6
85°	1.3
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)