

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: P641877

Luminaire Tested: ML5612LSVWFL97FS1E - 694TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641877  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-114)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 694TBZB - 1200LM - 3000K  
Description: ML56 RR, MILKY 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: 1437.2 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

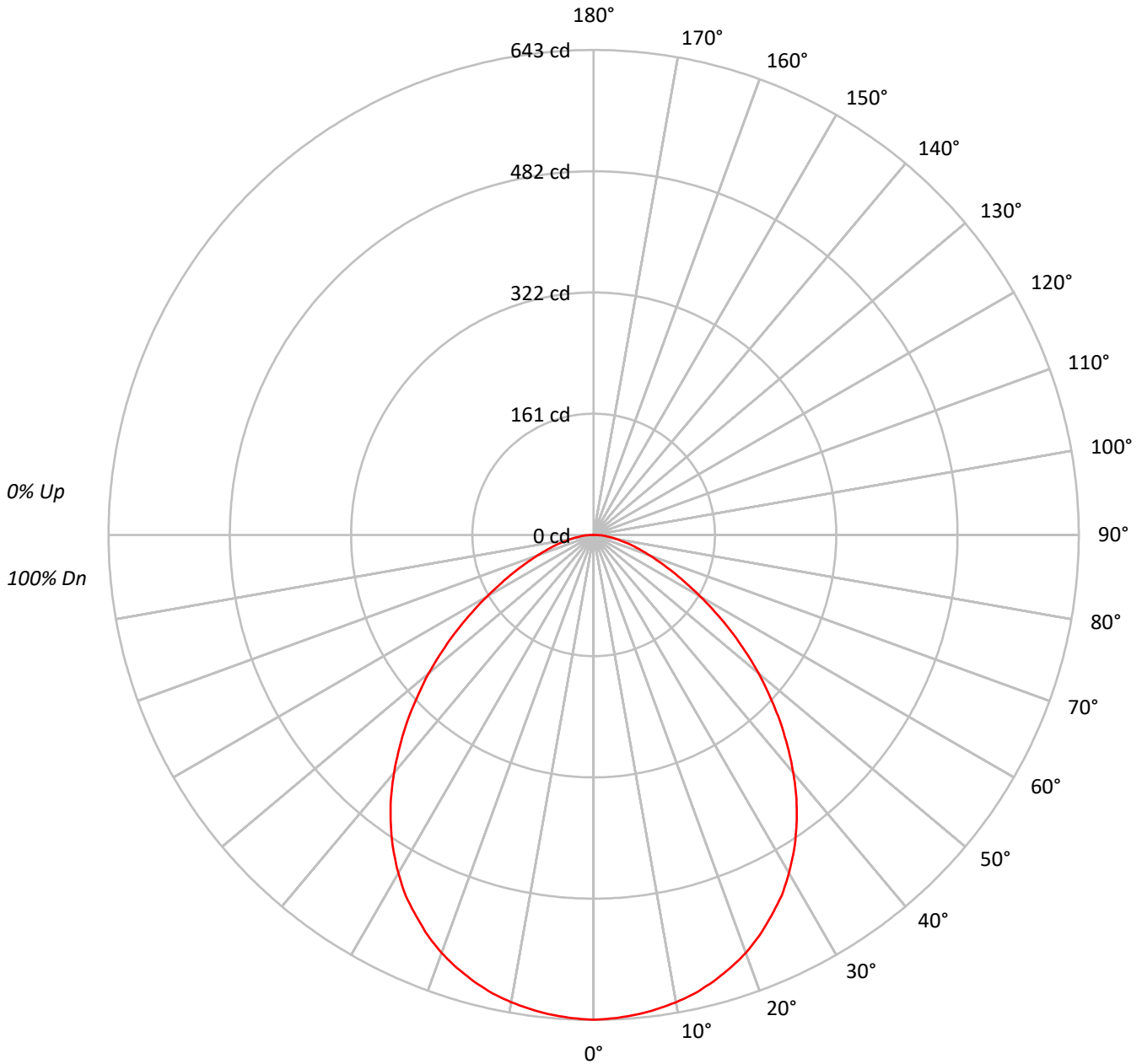
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641877

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694TBZB - 1200LM - 3000K

### Luminous Intensity Polar Plot





TEST NUMBER: P641877

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694TBZB - 1200LM - 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	100	100	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74	74	74	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56	56	56	56
5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49	49	49	49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44	44	44	44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39	39	39	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32	32	32	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29	29	29	29

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

	0°
0°	35238
5°	35147
10°	35025
15°	34785
20°	34408
25°	33698
30°	32771
35°	31374
40°	29462
45°	27073
50°	24340
55°	21170
60°	17882
65°	14982
70°	12630
75°	10929
80°	9439
85°	9372

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 27073 cd/sqm



TEST NUMBER: P641877

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694TBZB - 1200LM - 3000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	4.2
10°-20°	172.8	12.0
20°-30°	256.5	17.8
30°-40°	292.3	20.3
40°-50°	268.7	18.7
50°-60°	198.6	13.8
60°-70°	115.8	8.1
70°-80°	55.2	3.8
80°-90°	16.6	1.2
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°	490.0	34.1
0°-40°	782.3	54.4
0°-60°	1249.7	87.0
0°-90°	1437.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1437.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	643	
5°	639	61
15°	613	173
25°	557	257
35°	469	292
45°	349	269
55°	222	199
65°	116	116
75°	52	55
85°	15	17
90°	0	



TEST NUMBER: P641877

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694TBZB - 1200LM - 3000K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	642.8
2.5°	641.4
5°	638.7
7.5°	634.6
10°	629.2
12.5°	622.4
15°	612.9
17.5°	602.0
20°	589.8
22.5°	574.8
25°	557.1
27.5°	539.5
30°	517.7
32.5°	494.6
35°	468.8
37.5°	441.6
40°	411.7
42.5°	380.5
45°	349.2
47.5°	316.6
50°	285.4
52.5°	252.8
55°	221.5
57.5°	191.6
60°	163.1
62.5°	137.2
65°	115.5
67.5°	95.1
70°	78.8
72.5°	63.9
75°	51.6
77.5°	39.4
80°	29.9
82.5°	21.7
85°	14.9
87.5°	9.5
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)