

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: P641882

Luminaire Tested: ML5612LSVWFL97FS1E - 694TBZB - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641882
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 - 600LM - 3000K
Description: ML56 RR, MILKY OPTIC, 6" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

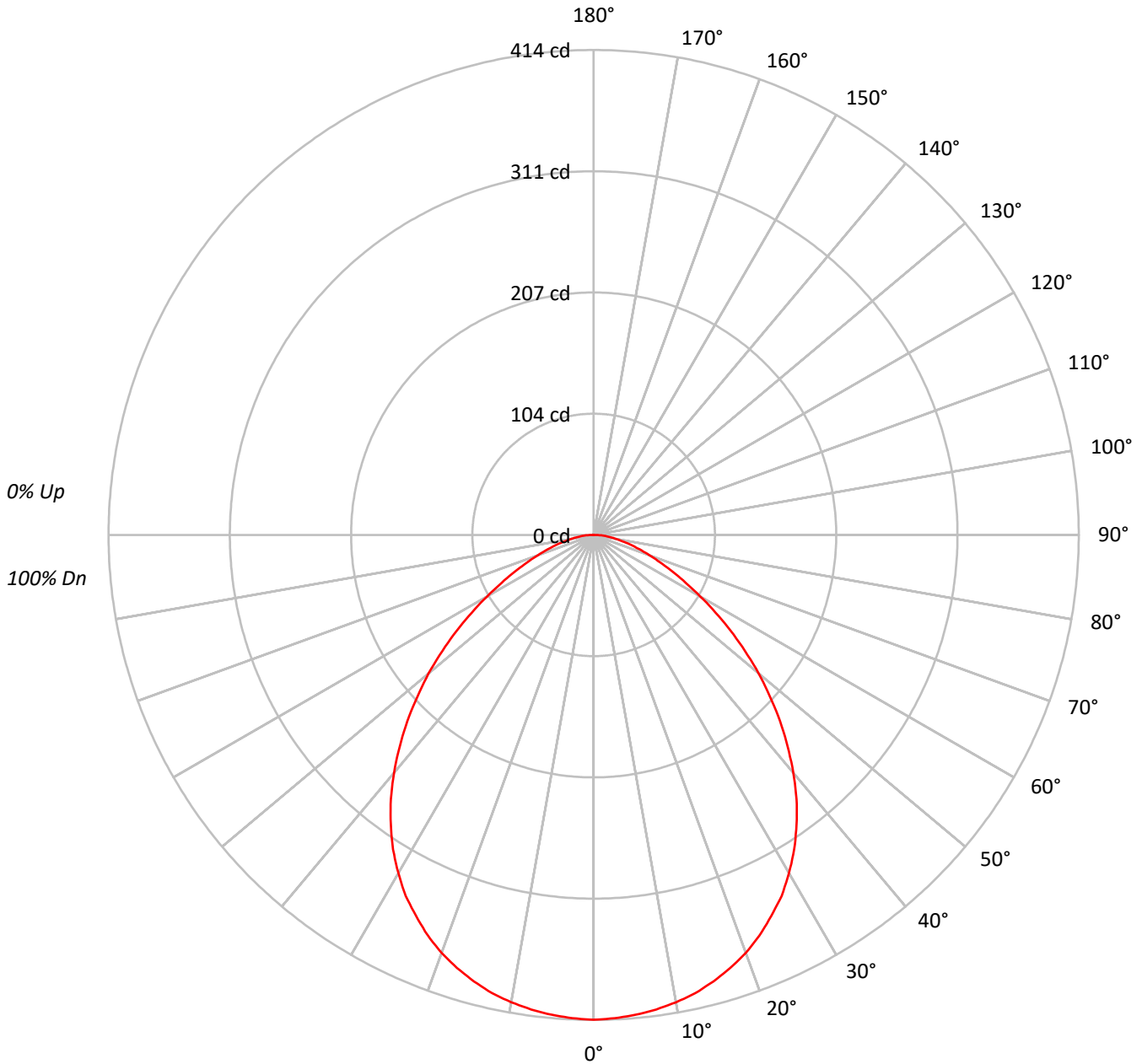
Lumens per Lamp: N/A
Luminaire Lumens: 925.4 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P641882
CATALOG NUMBER: ML5612LSVWFL97FS1E - 694TBZB - 600LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641882

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694TBZB - 600LM - 3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	22690
5°	22628
10°	22550
15°	22395
20°	22151
25°	21697
30°	21105
35°	20204
40°	18971
45°	17436
50°	15667
55°	13629
60°	11512
65°	9651
70°	8126
75°	7032
80°	6061
85°	6038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17436 cd/sqm



TEST NUMBER: P641882

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694TBZB - 600LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	4.2
10°-20°	111.3	12.0
20°-30°	165.2	17.8
30°-40°	188.3	20.3
40°-50°	173.0	18.7
50°-60°	127.9	13.8
60°-70°	74.6	8.1
70°-80°	35.5	3.8
80°-90°	10.7	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°	315.5	34.1
0°-40°	503.8	54.4
0°-60°	804.7	87.0
0°-90°	925.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	414	
5°	411	39
15°	395	111
25°	359	165
35°	302	188
45°	225	173
55°	143	128
65°	74	75
75°	33	35
85°	10	11
90°	0	



TEST NUMBER: P641882

CATALOG NUMBER: ML5612LSVWFL97FS1E - 694TBZB - 600LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	413.9
2.5°	413.0
5°	411.2
7.5°	408.6
10°	405.1
12.5°	400.7
15°	394.6
17.5°	387.6
20°	379.7
22.5°	370.1
25°	358.7
27.5°	347.4
30°	333.4
32.5°	318.5
35°	301.9
37.5°	284.4
40°	265.1
42.5°	245.0
45°	224.9
47.5°	203.9
50°	183.7
52.5°	162.7
55°	142.6
57.5°	123.4
60°	105.0
62.5°	88.4
65°	74.4
67.5°	61.2
70°	50.7
72.5°	41.1
75°	33.2
77.5°	25.4
80°	19.2
82.5°	14.0
85°	9.6
87.5°	6.1
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)