

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: P641541

Luminaire Tested: ML5612LSVWFL7597FS1E - 694TBZB - 900LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641541
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 - 900LM - 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

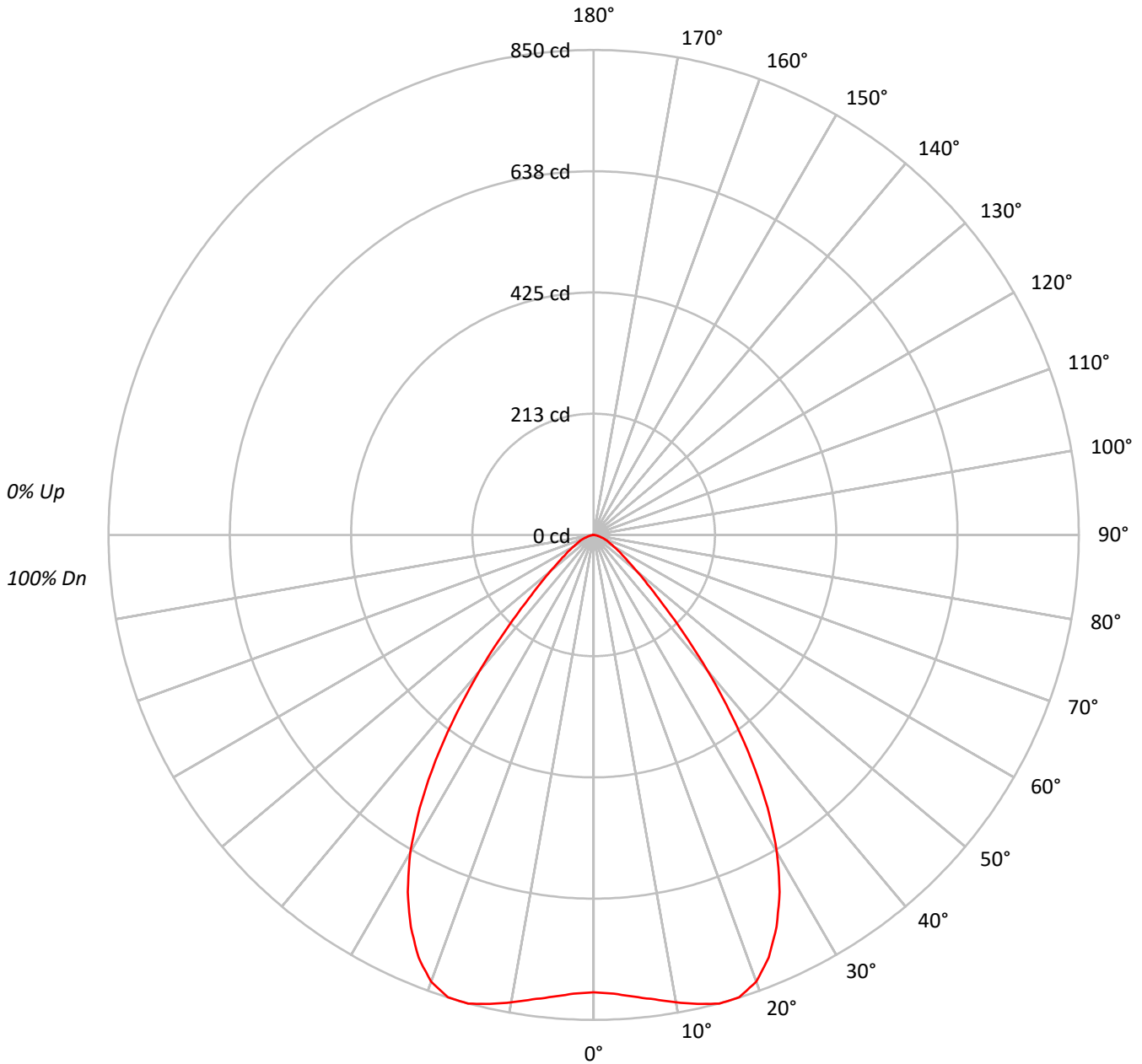
Lumens per Lamp: N/A
Luminaire Lumens: 1198.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): 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: P641541
CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694TBZB - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641541

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694TBZB - 900LM - 2700K

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	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°	43938
5°	44706
10°	46314
15°	48269
20°	48602
25°	45837
30°	40658
35°	32331
40°	22163
45°	13102
50°	8366
55°	5840
60°	4419
65°	3684
70°	2965
75°	2309
80°	1389
85°	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13102 cd/sqm



TEST NUMBER: P641541

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694TBZB - 900LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	6.5
10°-20°	239.2	20.0
20°-30°	344.8	28.8
30°-40°	297.5	24.8
40°-50°	139.4	11.6
50°-60°	57.1	4.8
60°-70°	28.6	2.4
70°-80°	11.6	1.0
80°-90°	1.5	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°	662.2	55.3
0°-40°	959.7	80.1
0°-60°	1156.3	96.5
0°-90°	1198.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1198.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	802	
5°	812	78
15°	850	239
25°	758	345
35°	483	298
45°	169	139
55°	61	57
65°	28	29
75°	11	12
85°	1	1
90°	0	



TEST NUMBER: P641541

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 694TBZB - 900LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	801.5
2.5°	804.7
5°	812.4
7.5°	821.1
10°	832.0
12.5°	841.8
15°	850.5
17.5°	849.4
20°	833.1
22.5°	801.5
25°	757.8
27.5°	705.5
30°	642.3
32.5°	567.0
35°	483.1
37.5°	394.7
40°	309.7
42.5°	231.2
45°	169.0
47.5°	127.6
50°	98.1
52.5°	76.3
55°	61.1
57.5°	50.2
60°	40.3
62.5°	33.8
65°	28.4
67.5°	24.0
70°	18.5
72.5°	14.2
75°	10.9
77.5°	7.6
80°	4.4
82.5°	2.2
85°	1.1
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)