

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: P641354

Luminaire Tested: ML5612LSVWFL7597FS1E - 594SNB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-79)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 594SNB - 1200LM - 4000K
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1647.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

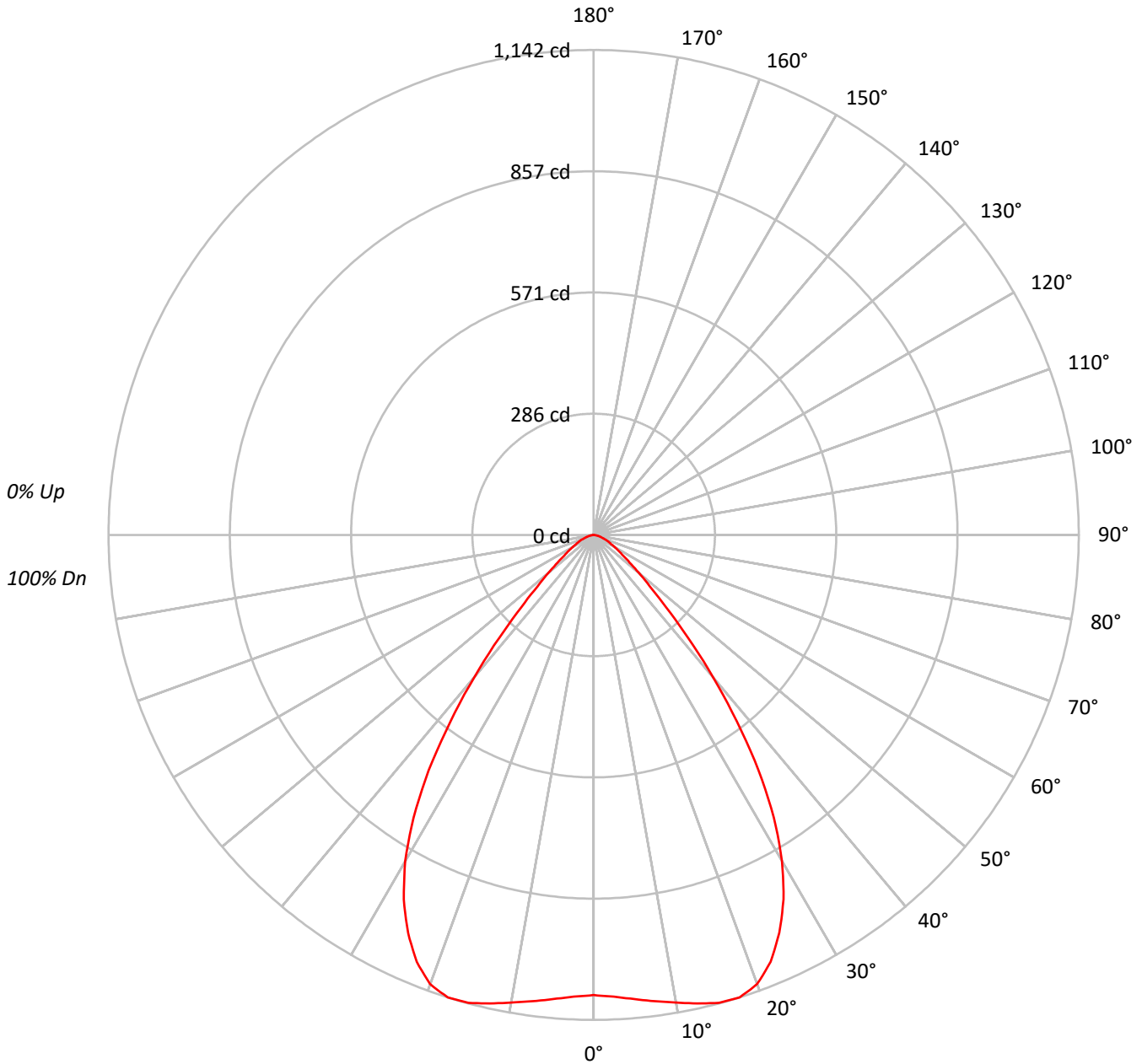
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641354

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 1200LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641354

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 1200LM - 4000K

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	84	83																			
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75																			
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68																			
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62																			
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57																			
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52																			
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48																			
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44																			
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	85540
5°	86937
10°	89625
15°	93216
20°	94558
25°	90072
30°	80853
35°	65232
40°	45002
45°	26805
50°	16960
55°	11561
60°	8999
65°	7285
70°	5886
75°	4575
80°	2728
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26805 cd/sqm



TEST NUMBER: P641354

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 1200LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	6.4
10°-20°	321.6	19.5
20°-30°	470.8	28.6
30°-40°	415.6	25.2
40°-50°	197.2	12.0
50°-60°	79.4	4.8
60°-70°	39.5	2.4
70°-80°	16.0	1.0
80°-90°	1.6	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°	897.7	54.5
0°-40°	1313.3	79.7
0°-60°	1589.9	96.5
0°-90°	1647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1647.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1084	
5°	1097	105
15°	1141	322
25°	1034	471
35°	677	416
45°	240	197
55°	84	79
65°	39	39
75°	15	16
85°	0	2
90°	0	



TEST NUMBER: P641354

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 1200LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1083.6
2.5°	1088.1
5°	1097.1
7.5°	1107.6
10°	1118.1
12.5°	1130.1
15°	1140.6
17.5°	1142.1
20°	1125.6
22.5°	1088.1
25°	1034.1
27.5°	968.0
30°	887.0
32.5°	789.4
35°	676.9
37.5°	553.8
40°	436.7
42.5°	328.7
45°	240.1
47.5°	178.6
50°	138.1
52.5°	106.6
55°	84.0
57.5°	69.0
60°	57.0
62.5°	46.5
65°	39.0
67.5°	33.0
70°	25.5
72.5°	19.5
75°	15.0
77.5°	10.5
80°	6.0
82.5°	3.0
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)