

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: P641364

Luminaire Tested: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641364
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 - 900LM - 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

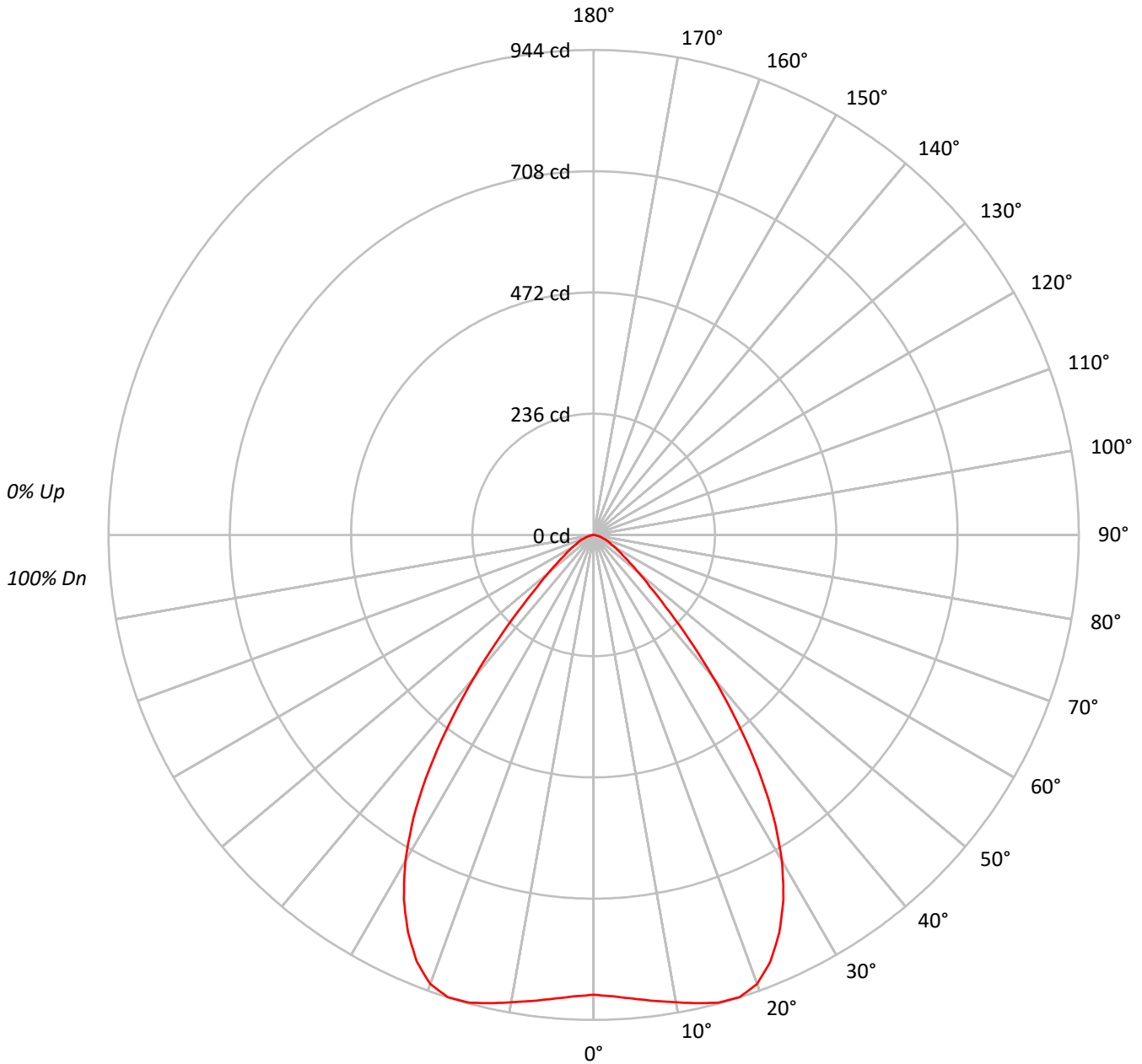
Lumens per Lamp: N/A
Luminaire Lumens: 1360.6 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P641364
CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641364

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 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	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°	70660
5°	71817
10°	74043
15°	77010
20°	78118
25°	74402
30°	66788
35°	53890
40°	37180
45°	22149
50°	14013
55°	9551
60°	7436
65°	6015
70°	4870
75°	3782
80°	2273
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22149 cd/sqm



TEST NUMBER: P641364

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	6.4
10°-20°	265.6	19.5
20°-30°	388.9	28.6
30°-40°	343.3	25.2
40°-50°	162.9	12.0
50°-60°	65.6	4.8
60°-70°	32.6	2.4
70°-80°	13.2	1.0
80°-90°	1.4	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°	741.6	54.5
0°-40°	1085.0	79.7
0°-60°	1313.4	96.5
0°-90°	1360.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1360.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	895	
5°	906	87
15°	942	266
25°	854	389
35°	559	343
45°	198	163
55°	69	66
65°	32	33
75°	12	13
85°	0	1
90°	0	



TEST NUMBER: P641364

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	895.1
2.5°	898.9
5°	906.3
7.5°	915.0
10°	923.7
12.5°	933.6
15°	942.3
17.5°	943.5
20°	929.9
22.5°	898.9
25°	854.2
27.5°	799.7
30°	732.7
32.5°	652.1
35°	559.2
37.5°	457.5
40°	360.8
42.5°	271.5
45°	198.4
47.5°	147.5
50°	114.1
52.5°	88.0
55°	69.4
57.5°	57.0
60°	47.1
62.5°	38.4
65°	32.2
67.5°	27.3
70°	21.1
72.5°	16.1
75°	12.4
77.5°	8.7
80°	5.0
82.5°	2.5
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)