

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: P641393

Luminaire Tested: ML5612LSVWFL7597FS1E - 594WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641393
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-78)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 594WB - 900LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1268.1 lumens
Efficiency: N/A
Efficacy: 95.3 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

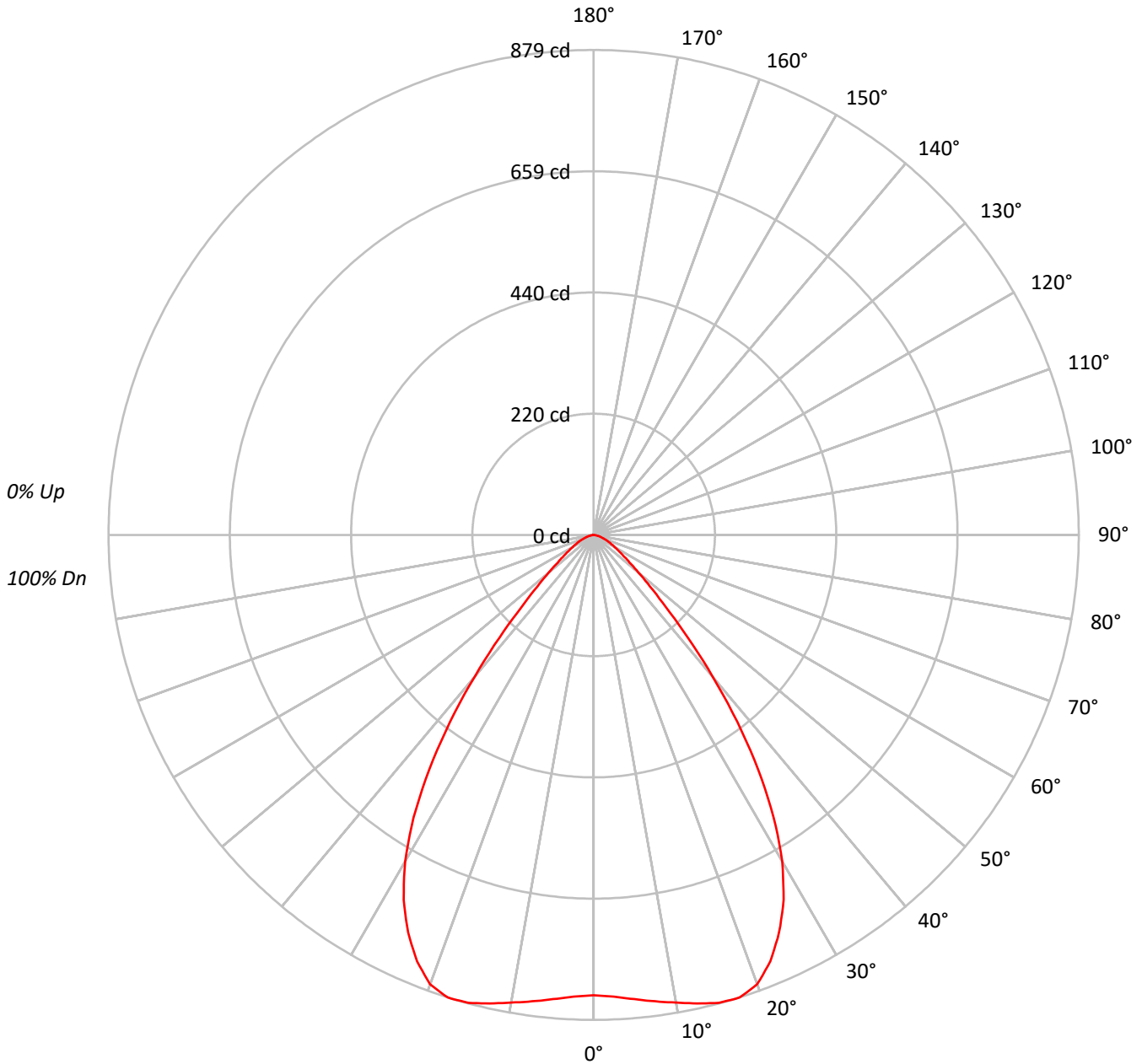
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641393

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594WB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641393

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594WB - 900LM - 3500K

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	71	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	46	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°	65853
5°	66928
10°	68993
15°	71755
20°	72792
25°	69255
30°	62285
35°	50083
40°	34553
45°	20586
50°	13018
55°	9042
60°	6915
65°	5604
70°	4524
75°	3508
80°	2091
85°	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20586 cd/sqm



TEST NUMBER: P641393

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594WB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	6.4
10°-20°	247.5	19.5
20°-30°	362.3	28.6
30°-40°	319.8	25.2
40°-50°	151.6	12.0
50°-60°	61.3	4.8
60°-70°	30.6	2.4
70°-80°	12.3	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°	690.9	54.5
0°-40°	1010.7	79.7
0°-60°	1223.6	96.5
0°-90°	1268.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1268.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	834	
5°	845	81
15°	878	248
25°	795	362
35°	520	320
45°	184	152
55°	66	61
65°	30	31
75°	12	12
85°	1	2
90°	0	



TEST NUMBER: P641393

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 594WB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	834.2
2.5°	837.7
5°	844.6
7.5°	852.7
10°	860.7
12.5°	869.9
15°	878.0
17.5°	879.2
20°	866.5
22.5°	836.5
25°	795.1
27.5°	745.5
30°	683.3
32.5°	607.2
35°	519.7
37.5°	427.5
40°	335.3
42.5°	252.3
45°	184.4
47.5°	138.3
50°	106.0
52.5°	81.8
55°	65.7
57.5°	53.0
60°	43.8
62.5°	36.9
65°	30.0
67.5°	25.3
70°	19.6
72.5°	15.0
75°	11.5
77.5°	8.1
80°	4.6
82.5°	2.3
85°	1.2
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)