

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: P641611

Luminaire Tested: ML5612LSVWFL97FS1E - 592SC - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-94)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 592SC - 600LM - 2700K
Description: ML56 RR, MILKY OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 859.8 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.95
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

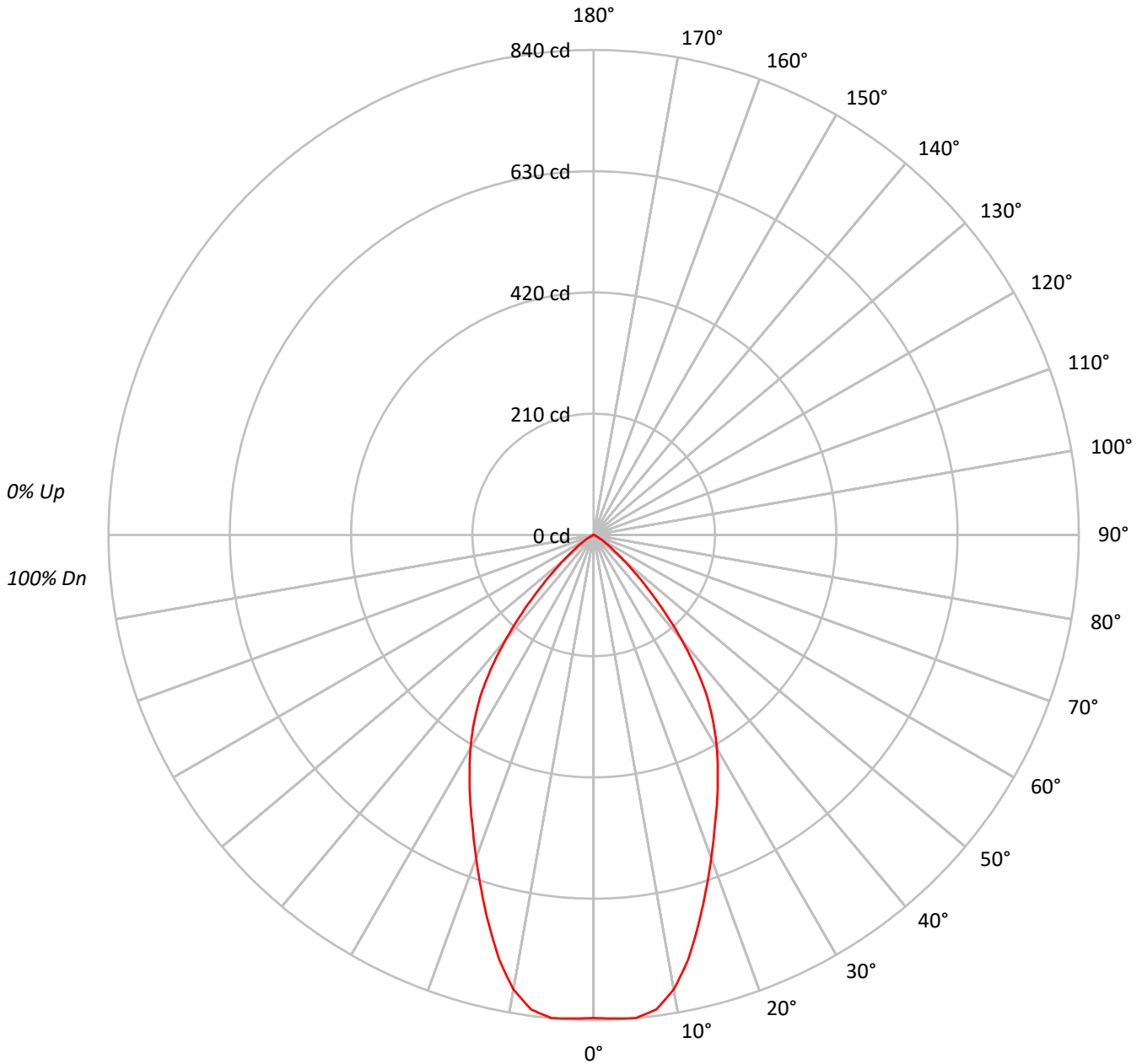
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641611

CATALOG NUMBER: ML5612LSVWFL97FS1E - 592SC - 600LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641611

CATALOG NUMBER: ML5612LSVWFL97FS1E - 592SC - 600LM - 2700K

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			100																
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93																
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71			71																
5	90	81	74	69	88	80	74	69	78	73	69	76	71	68	74	70	67	66			66																
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	65	62	61			61																
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56			56																
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52			52																
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48			48																
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	66050
5°	66572
10°	64071
15°	57192
20°	50001
25°	44065
30°	38913
35°	33026
40°	24361
45°	15094
50°	8142
55°	4101
60°	1879
65°	803
70°	392
75°	275
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15094 cd/sqm



TEST NUMBER: P641611

CATALOG NUMBER: ML5612LSVWFL97FS1E - 592SC - 600LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	9.2
10°-20°	195.2	22.7
20°-30°	232.6	27.1
30°-40°	210.0	24.4
40°-50°	108.0	12.6
50°-60°	29.3	3.4
60°-70°	4.8	0.6
70°-80°	0.9	0.1
80°-90°	0.0	0.0
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°	506.8	58.9
0°-40°	716.8	83.4
0°-60°	854.1	99.3
0°-90°	859.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	859.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	837	
5°	840	79
15°	700	195
25°	506	233
35°	343	210
45°	135	108
55°	30	29
65°	4	5
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P641611

CATALOG NUMBER: ML5612LSVWFL97FS1E - 592SC - 600LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	836.7
2.5°	838.4
5°	840.1
7.5°	829.1
10°	799.3
12.5°	754.2
15°	699.8
17.5°	646.2
20°	595.2
22.5°	547.6
25°	505.9
27.5°	465.1
30°	426.9
32.5°	386.0
35°	342.7
37.5°	291.7
40°	236.4
42.5°	183.7
45°	135.2
47.5°	96.9
50°	66.3
52.5°	44.2
55°	29.8
57.5°	19.6
60°	11.9
62.5°	6.8
65°	4.3
67.5°	1.7
70°	1.7
72.5°	0.9
75°	0.9
77.5°	0.9
80°	0.0
82.5°	0.0
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)