

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: P641282

Luminaire Tested: ML5612LSVWFL7597FS1E - 592W - 600LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 592W - 600LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 942.9 lumens
Efficiency: N/A
Efficacy: 91.5 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

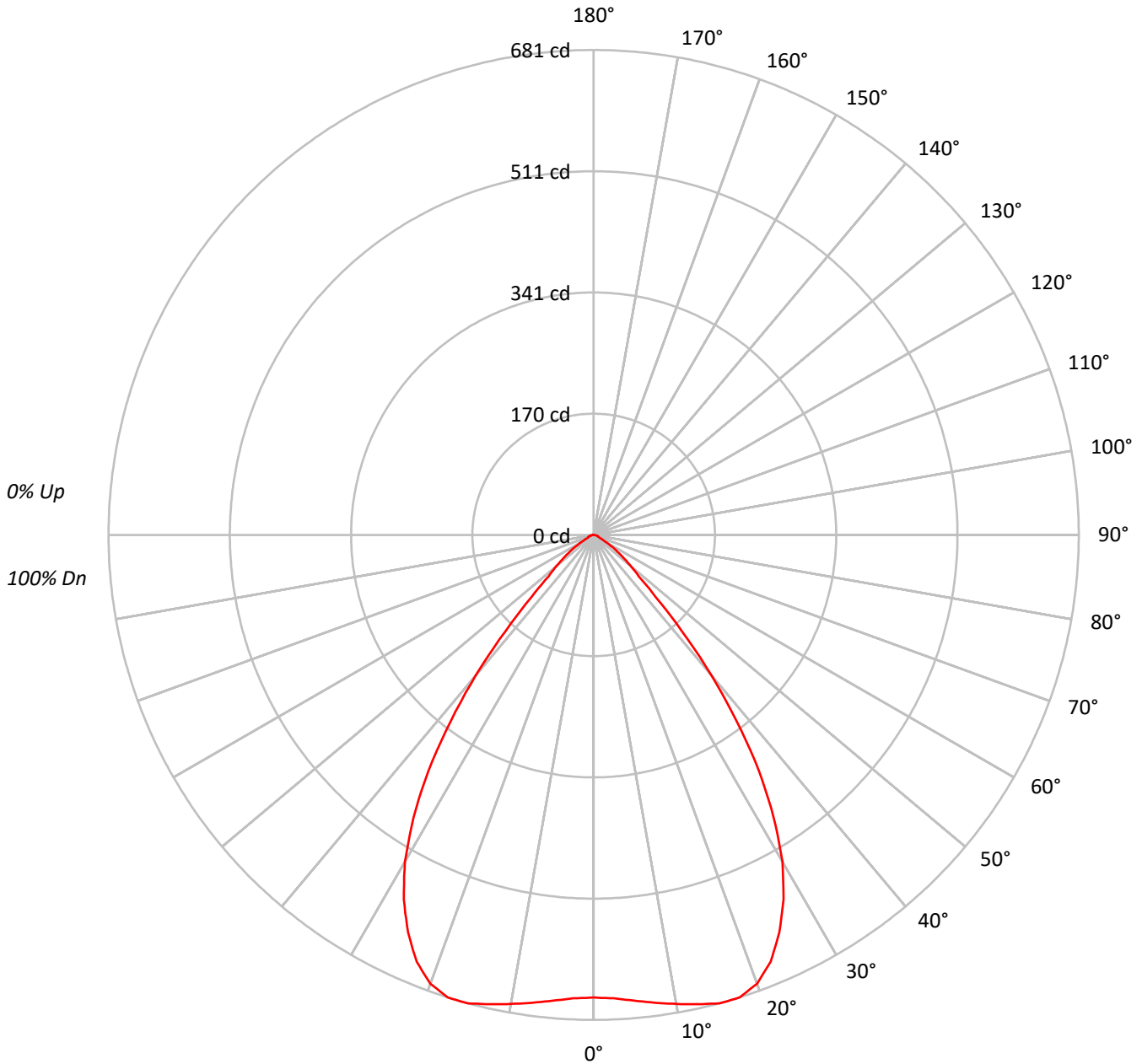
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641282

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592W - 600LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641282
 CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592W - 600LM - 3000K

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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92				
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	87	85	84				
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76				
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70				
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64				
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	58				
7	78	68	61	57	77	67	61	56	66	60	56	65	60	56	64	59	55	54				
8	74	63	57	52	73	63	56	52	62	56	52	61	55	51	59	55	51	50				
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	48	46				
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	51272
5°	52023
10°	53610
15°	55655
20°	56327
25°	53681
30°	48293
35°	39010
40°	26484
45°	13765
50°	8376
55°	5533
60°	2905
65°	1625
70°	1616
75°	1586
80°	1591
85°	1540

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13765 cd/sqm



TEST NUMBER: P641282

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592W - 600LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.1	6.7
10°-20°	191.9	20.4
20°-30°	280.7	29.8
30°-40°	247.6	26.3
40°-50°	105.3	11.2
50°-60°	36.5	3.9
60°-70°	10.5	1.1
70°-80°	5.5	0.6
80°-90°	1.9	0.2
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°	535.6	56.8
0°-40°	783.2	83.1
0°-60°	925.1	98.1
0°-90°	942.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	942.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	650	
5°	656	63
15°	681	192
25°	616	281
35°	405	248
45°	123	105
55°	40	37
65°	9	10
75°	5	6
85°	2	2
90°	0	



TEST NUMBER: P641282

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592W - 600LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	649.5
2.5°	651.3
5°	656.5
7.5°	662.6
10°	668.8
12.5°	674.9
15°	681.0
17.5°	681.0
20°	670.5
22.5°	648.7
25°	616.3
27.5°	577.0
30°	529.8
32.5°	470.3
35°	404.8
37.5°	329.6
40°	257.0
42.5°	182.7
45°	123.3
47.5°	85.7
50°	68.2
52.5°	52.5
55°	40.2
57.5°	28.8
60°	18.4
62.5°	13.1
65°	8.7
67.5°	7.9
70°	7.0
72.5°	6.1
75°	5.2
77.5°	4.4
80°	3.5
82.5°	2.6
85°	1.7
87.5°	0.9
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)