

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: P641461

Luminaire Tested: ML5612LSVWFL7597FS1E - 692W - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 692W - 600LM - 2700K
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 930.4 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

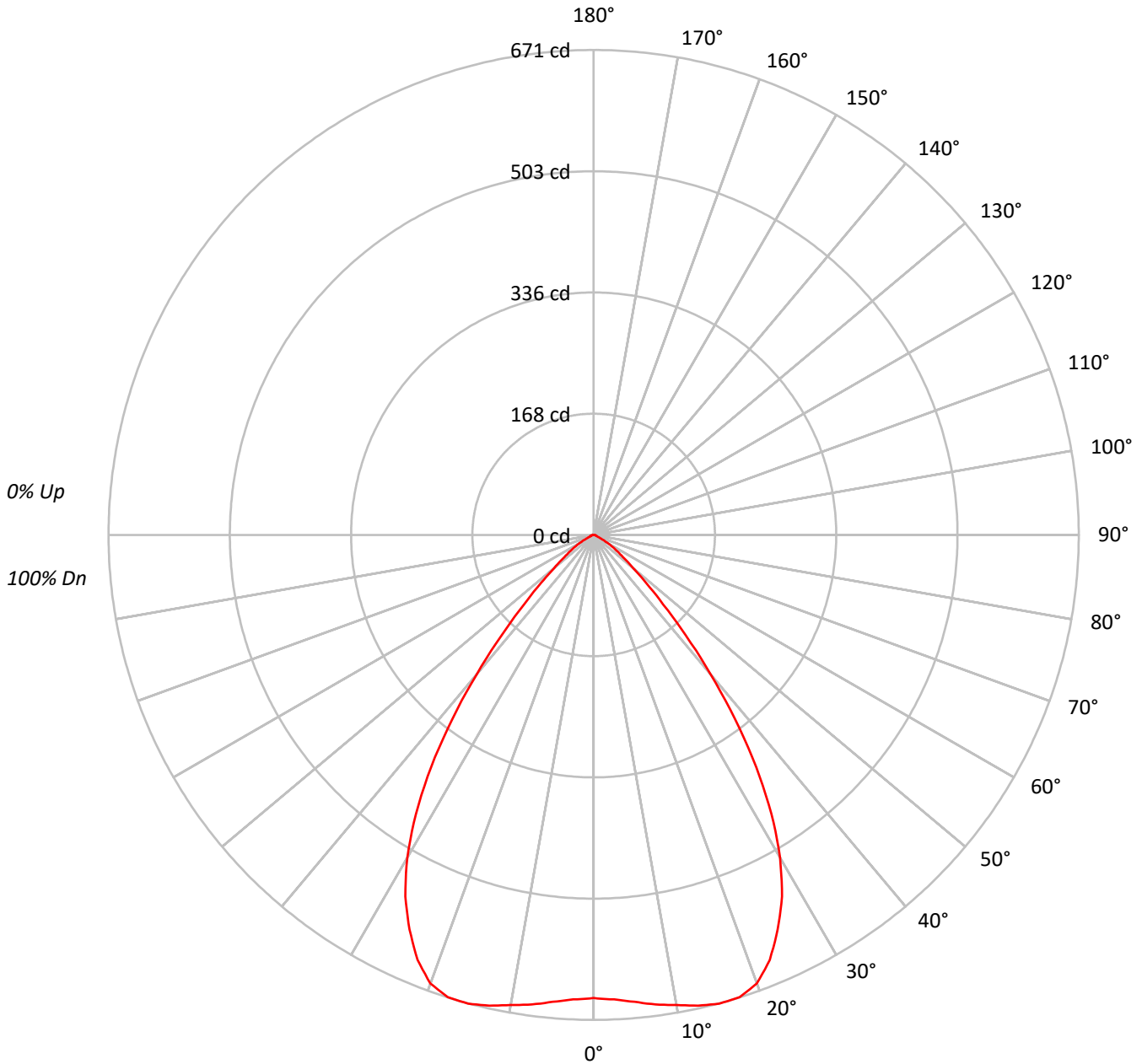
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641461

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692W - 600LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641461

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692W - 600LM - 2700K

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			100
1	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84			84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76			76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70			70
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64			64
6	83	73	66	62	82	72	66	61	71	65	61	69	64	60	68	64	60	58			58
7	78	68	61	56	77	67	61	56	66	60	56	65	60	56	63	59	55	54			54
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50			50
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46			46
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43			43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35129
5°	35687
10°	36762
15°	38105
20°	38527
25°	36444
30°	32644
35°	26254
40°	18027
45°	10559
50°	6098
55°	3900
60°	2335
65°	1103
70°	689
75°	720
80°	537
85°	566

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10559 cd/sqm



TEST NUMBER: P641461

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692W - 600LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.3	6.7
10°-20°	189.2	20.3
20°-30°	274.7	29.5
30°-40°	240.9	25.9
40°-50°	111.3	12.0
50°-60°	37.9	4.1
60°-70°	9.6	1.0
70°-80°	3.5	0.4
80°-90°	0.9	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°	526.3	56.6
0°-40°	767.2	82.5
0°-60°	916.3	98.5
0°-90°	930.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	930.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	641	
5°	648	62
15°	671	189
25°	602	275
35°	392	241
45°	136	111
55°	41	38
65°	8	10
75°	3	4
85°	1	1
90°	0	



TEST NUMBER: P641461

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692W - 600LM - 2700K

CANDELA DISTRIBUTION (FULL):

0°	
0°	640.8
2.5°	643.3
5°	648.5
7.5°	655.3
10°	660.4
12.5°	667.2
15°	671.4
17.5°	670.6
20°	660.4
22.5°	636.5
25°	602.5
27.5°	564.2
30°	515.7
32.5°	457.8
35°	392.3
37.5°	320.8
40°	251.9
42.5°	188.1
45°	136.2
47.5°	98.7
50°	71.5
52.5°	52.8
55°	40.8
57.5°	30.6
60°	21.3
62.5°	12.8
65°	8.5
67.5°	5.1
70°	4.3
72.5°	4.3
75°	3.4
77.5°	2.6
80°	1.7
82.5°	1.7
85°	0.9
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)