

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: P641448

Luminaire Tested: ML5612LSVWFL7597FS1E - 692SC - 600LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-83)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 692SC - 600LM - 3500K
Description: ML56 RR, 75D TIR OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 983.0 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.02 / 1.02 / 1.01
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

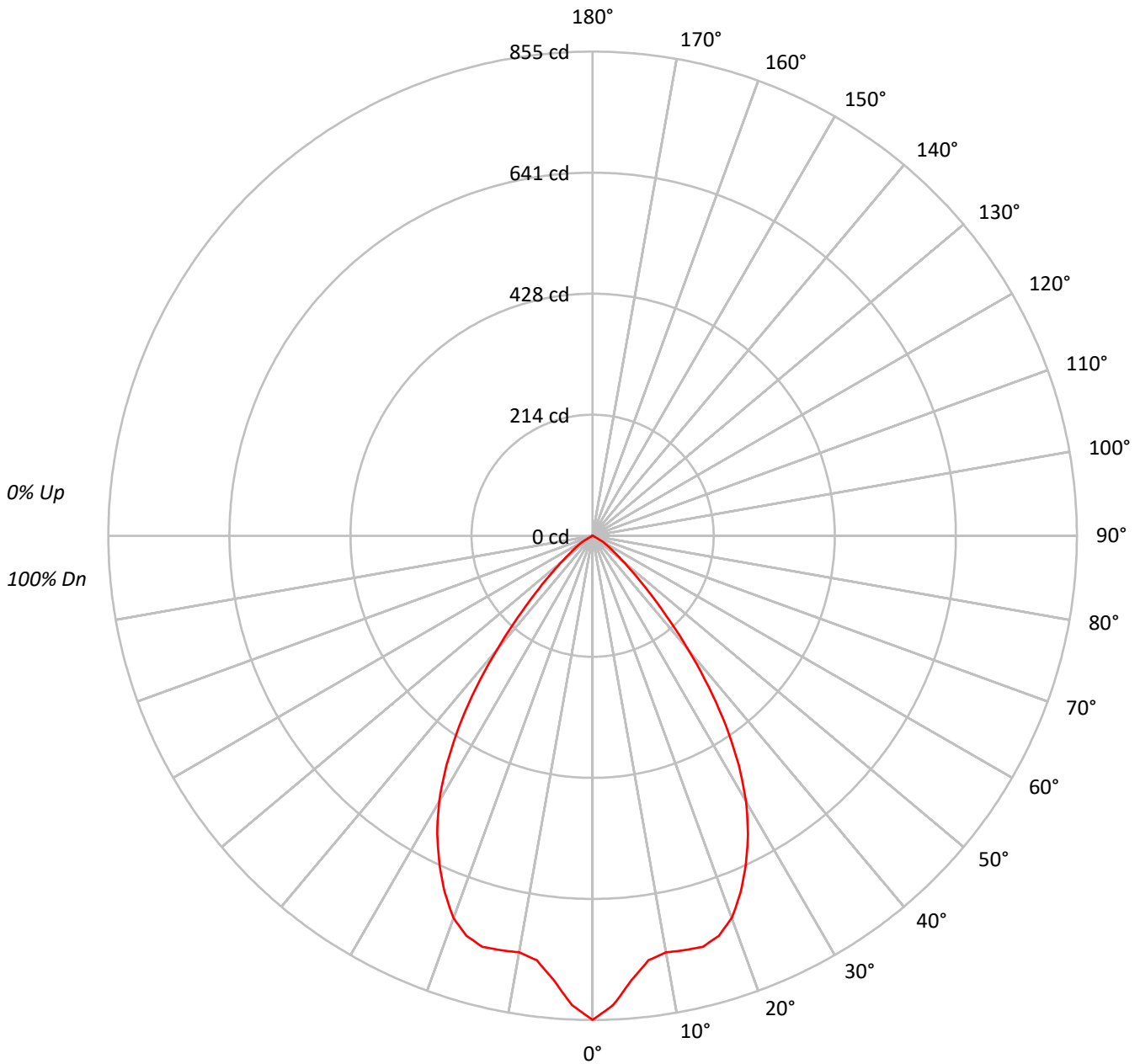
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641448

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692SC - 600LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641448

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692SC - 600LM - 3500K

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	105	111	108	105	103	104	102	100	100	99	97	97	95	94	92				
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85				
3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78				
4	95	86	80	76	93	85	80	75	83	78	74	81	77	73	79	76	73	71				
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65				
6	84	74	68	63	83	74	67	63	72	66	62	70	66	62	69	65	61	60				
7	79	69	63	58	78	68	62	58	67	62	57	66	61	57	65	60	57	55				
8	75	65	58	53	74	64	58	53	63	57	53	62	57	53	61	56	53	51				
9	71	60	54	50	70	60	54	49	59	53	49	58	53	49	57	52	49	47				
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	54	49	46	44				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	46860
5°	43325
10°	41577
15°	42645
20°	41893
25°	38706
30°	34309
35°	27485
40°	18842
45°	10869
50°	5902
55°	3527
60°	1875
65°	467
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10869 cd/sqm



TEST NUMBER: P641448

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692SC - 600LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	7.5
10°-20°	210.4	21.4
20°-30°	292.3	29.7
30°-40°	252.6	25.7
40°-50°	114.2	11.6
50°-60°	34.5	3.5
60°-70°	5.1	0.5
70°-80°	0.0	0.0
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°	576.6	58.7
0°-40°	829.2	84.4
0°-60°	977.8	99.5
0°-90°	983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	983.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	855	
5°	787	74
15°	751	210
25°	640	292
35°	411	253
45°	140	114
55°	37	34
65°	4	5
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P641448

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 692SC - 600LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	854.8
2.5°	829.6
5°	787.3
7.5°	755.9
10°	746.9
12.5°	749.6
15°	751.4
17.5°	740.6
20°	718.1
22.5°	682.2
25°	639.9
27.5°	594.1
30°	542.0
32.5°	480.0
35°	410.7
37.5°	337.0
40°	263.3
42.5°	195.0
45°	140.2
47.5°	98.9
50°	69.2
52.5°	49.4
55°	36.9
57.5°	26.1
60°	17.1
62.5°	8.1
65°	3.6
67.5°	0.9
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
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)