

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: P641272

Luminaire Tested: ML5612LSVWFL7597FS1E - 592SC - 900LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641272
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-71)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL7597FS1E - 592SC - 900LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" SPECULAR CLEAR TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

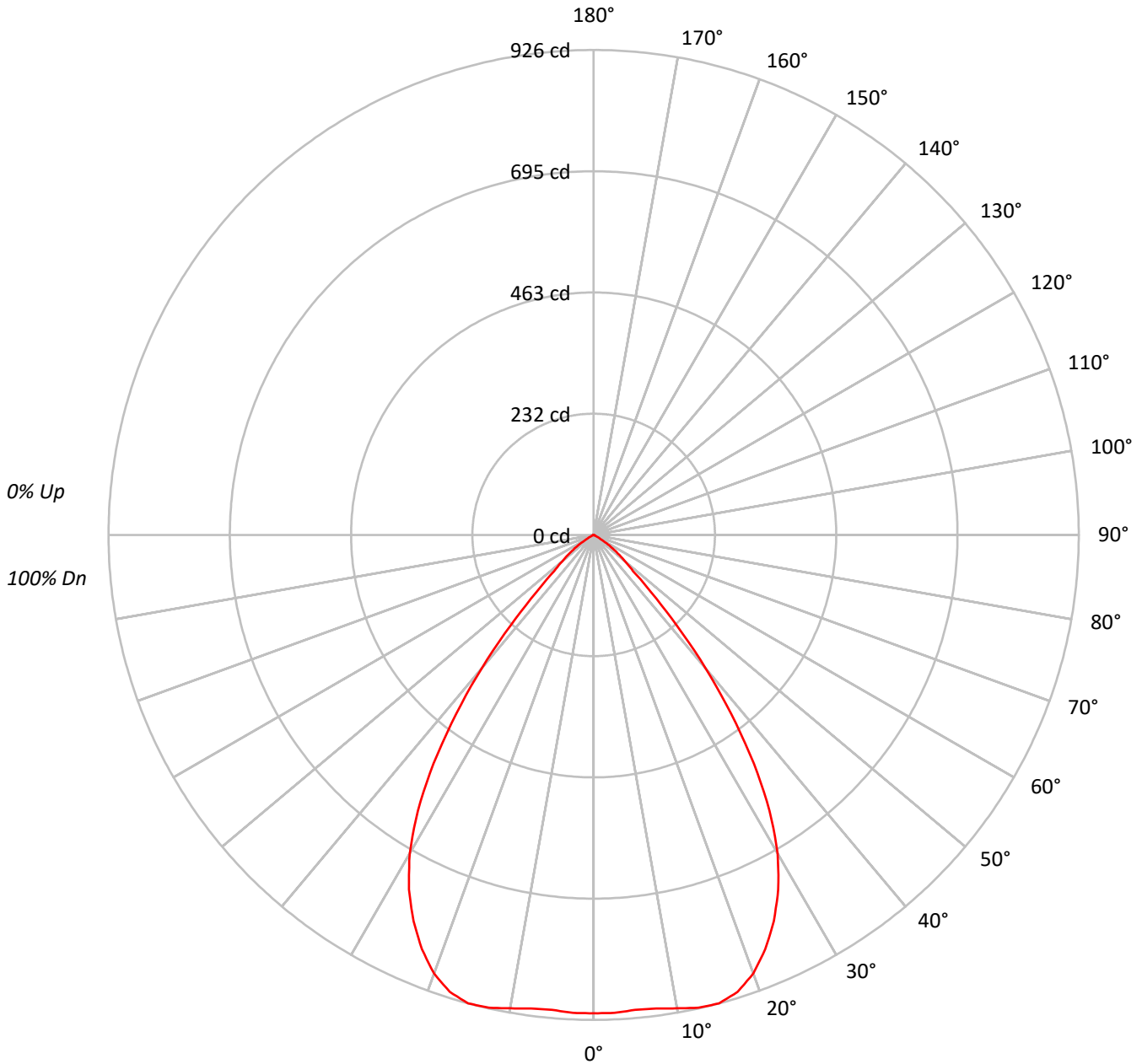
Lumens per Lamp: N/A
Luminaire Lumens: 1218.7 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.07
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P641272
CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592SC - 900LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P641272

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592SC - 900LM - 3000K

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	93	105	100	96	92	96	93	90	93	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	85	80	75	83	78	75	81	77	74	79	76	73	71			71																
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65			65																
6	84	75	68	63	83	74	68	63	72	67	63	71	66	62	69	65	62	60			60																
7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55			55																
8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51			51																
9	71	60	54	50	70	60	54	50	59	53	49	58	53	49	57	52	49	48			48																
10	67	57	50	46	66	56	50	46	55	50	46	55	49	46	54	49	46	44			44																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	72105
5°	72119
10°	73578
15°	75662
20°	74850
25°	70866
30°	64035
35°	51365
40°	34233
45°	17293
50°	9653
55°	5712
60°	2131
65°	411
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17293 cd/sqm



TEST NUMBER: P641272

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592SC - 900LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	7.2
10°-20°	259.7	21.3
20°-30°	371.2	30.5
30°-40°	326.2	26.8
40°-50°	132.2	10.8
50°-60°	38.2	3.1
60°-70°	4.1	0.3
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°	718.1	58.9
0°-40°	1044.2	85.7
0°-60°	1214.6	99.7
0°-90°	1218.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1218.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	913	
5°	910	87
15°	926	260
25°	814	371
35°	533	326
45°	155	132
55°	42	38
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P641272

CATALOG NUMBER: ML5612LSVWFL7597FS1E - 592SC - 900LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	913.4
2.5°	913.4
5°	910.1
7.5°	912.3
10°	917.9
12.5°	924.7
15°	925.8
17.5°	914.6
20°	891.0
22.5°	856.2
25°	813.6
27.5°	763.1
30°	702.5
32.5°	625.0
35°	533.0
37.5°	430.9
40°	332.2
42.5°	234.5
45°	154.9
47.5°	102.1
50°	78.6
52.5°	58.4
55°	41.5
57.5°	26.9
60°	13.5
62.5°	6.7
65°	2.2
67.5°	1.1
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)