

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: P641780

Luminaire Tested: ML5612LSVWFL97FS1E - 692H - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-107)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 692H - 600LM - 5000K
Description: ML56 RR, MILKY OPTIC, 6" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

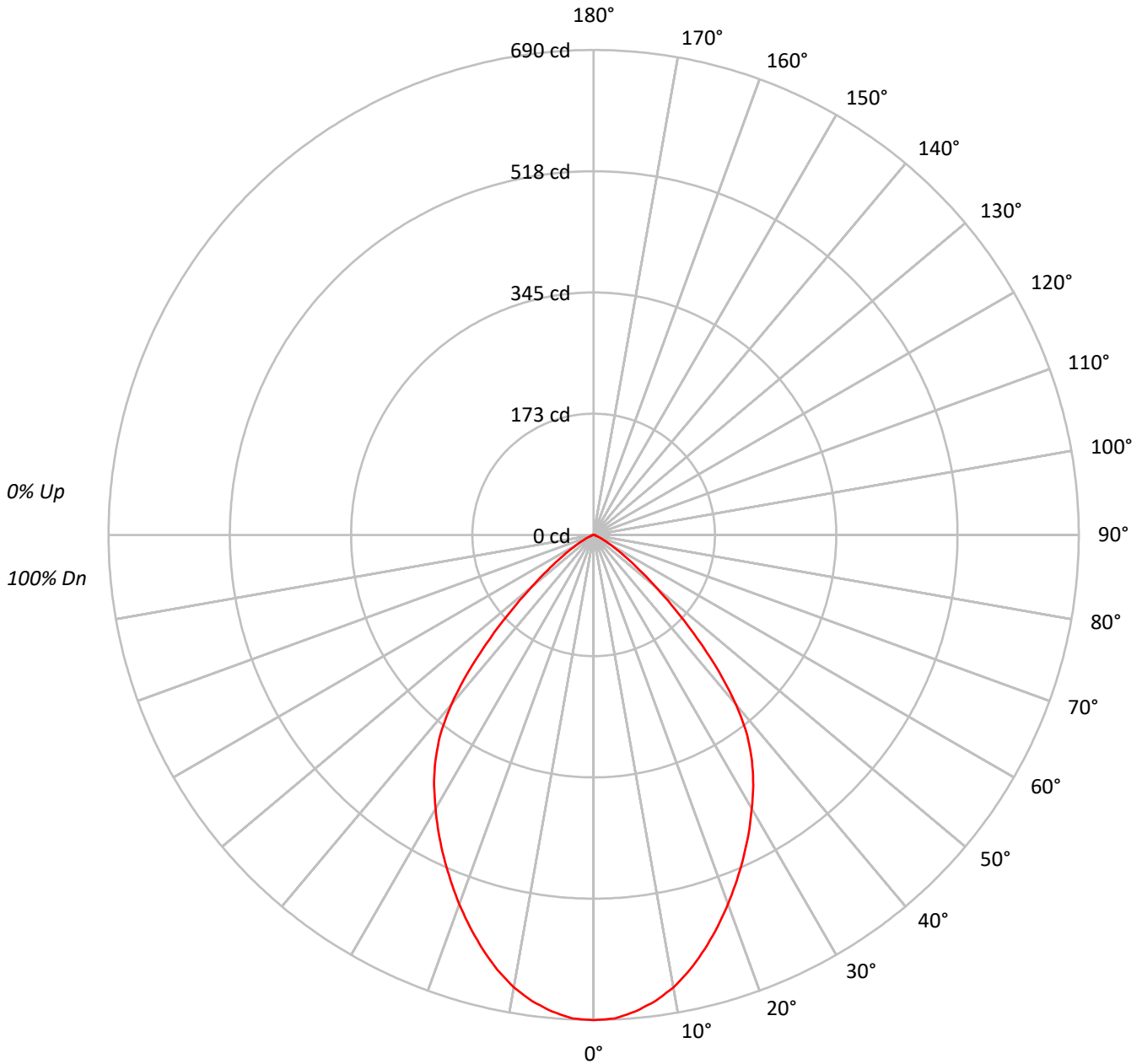
Lumens per Lamp: N/A
Luminaire Lumens: 942.9 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.1
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P641780
CATALOG NUMBER: ML5612LSVWFL97FS1E - 692H - 600LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P641780

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692H - 600LM - 5000K

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																			
1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83																			
3	99	91	86	81	97	90	85	80	87	83	79	85	81	78	82	79	76	75																			
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	72	69	67																			
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61																			
6	81	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	57	56																			
7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51																			
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47																			
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43																			
10	64	53	46	42	63	52	46	42	52	46	42	51	45	41	50	45	41	40																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37848
5°	37459
10°	36389
15°	34631
20°	32605
25°	30534
30°	28460
35°	26274
40°	22557
45°	16195
50°	9816
55°	5543
60°	2971
65°	1375
70°	769
75°	614
80°	316
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16195 cd/sqm



TEST NUMBER: P641780

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692H - 600LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	6.8
10°-20°	171.2	18.2
20°-30°	232.1	24.6
30°-40°	242.8	25.7
40°-50°	161.6	17.1
50°-60°	55.5	5.9
60°-70°	12.5	1.3
70°-80°	2.8	0.3
80°-90°	0.4	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°	467.4	49.6
0°-40°	710.2	75.3
0°-60°	927.3	98.3
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°	690	
5°	681	64
15°	610	171
25°	505	232
35°	393	243
45°	209	162
55°	58	56
65°	11	12
75°	3	3
85°	0	0
90°	0	



TEST NUMBER: P641780

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692H - 600LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	690.4
2.5°	688.5
5°	680.7
7.5°	669.1
10°	653.7
12.5°	633.4
15°	610.2
17.5°	585.0
20°	558.9
22.5°	531.8
25°	504.8
27.5°	477.7
30°	449.6
32.5°	422.6
35°	392.6
37.5°	358.7
40°	315.2
42.5°	264.0
45°	208.9
47.5°	157.6
50°	115.1
52.5°	82.2
55°	58.0
57.5°	39.6
60°	27.1
62.5°	17.4
65°	10.6
67.5°	6.8
70°	4.8
72.5°	2.9
75°	2.9
77.5°	1.9
80°	1.0
82.5°	1.0
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)