

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: P641784

Luminaire Tested: ML5612LSVWFL97FS1E - 692H - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641784
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 - 900LM - 4000K
Description: ML56 RR, MILKY OPTIC, 6" HAZE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

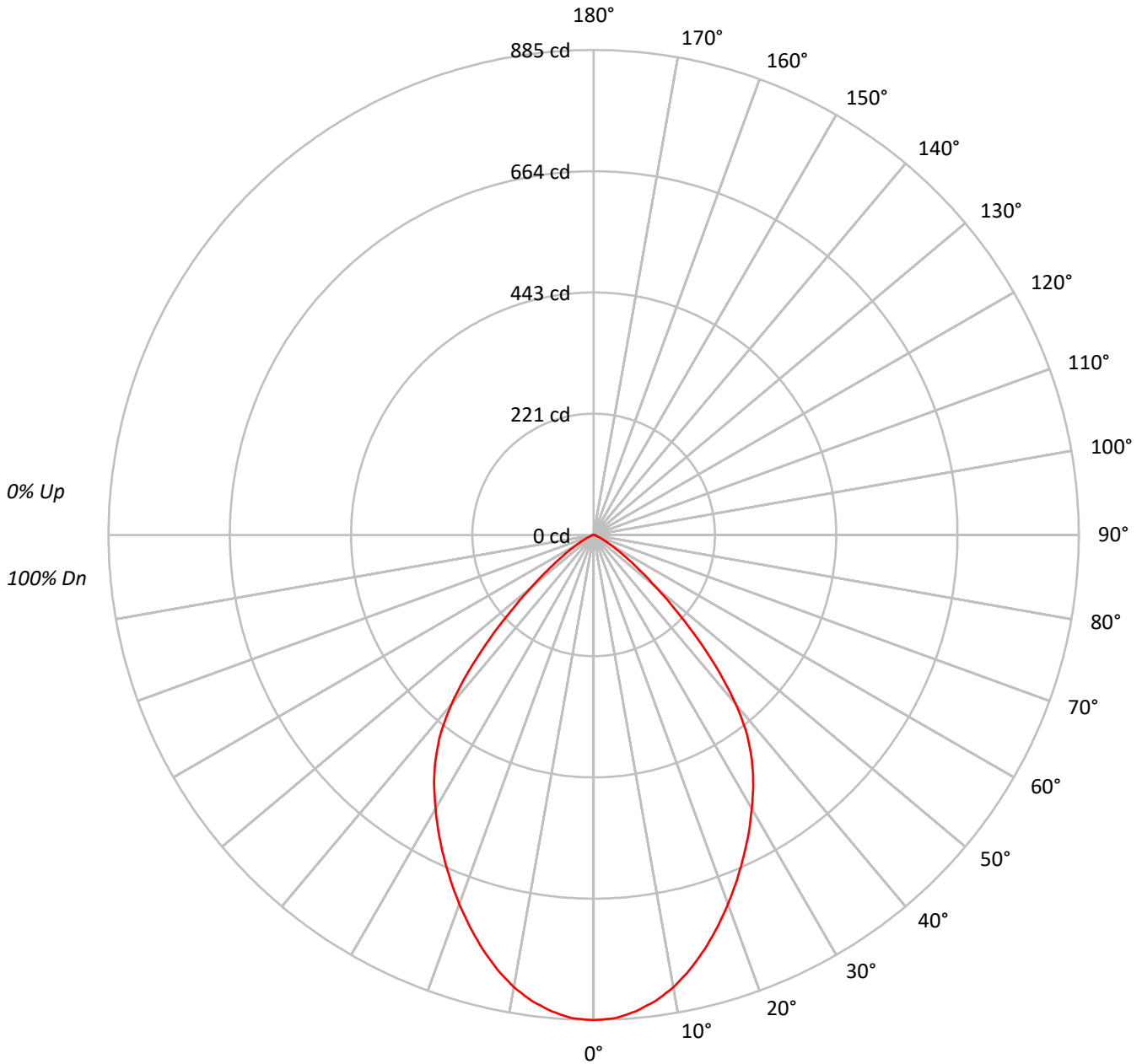
Lumens per Lamp: N/A
Luminaire Lumens: 1209.3 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.01 / 1.1
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
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: P641784
CATALOG NUMBER: ML5612LSVWFL97FS1E - 692H - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641784

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692H - 900LM - 4000K

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	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°	48538
5°	48041
10°	46665
15°	44410
20°	41817
25°	39153
30°	36506
35°	33696
40°	28933
45°	20770
50°	12588
55°	7111
60°	3805
65°	1764
70°	994
75°	784
80°	379
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20770 cd/sqm



TEST NUMBER: P641784

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692H - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.2	6.8
10°-20°	219.5	18.2
20°-30°	297.7	24.6
30°-40°	311.4	25.8
40°-50°	207.2	17.1
50°-60°	71.2	5.9
60°-70°	16.0	1.3
70°-80°	3.6	0.3
80°-90°	0.5	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°	599.4	49.6
0°-40°	910.8	75.3
0°-60°	1189.2	98.3
0°-90°	1209.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1209.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	885	
5°	873	82
15°	782	220
25°	647	298
35°	504	311
45°	268	207
55°	74	71
65°	14	16
75°	4	4
85°	0	0
90°	0	



TEST NUMBER: P641784

CATALOG NUMBER: ML5612LSVWFL97FS1E - 692H - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	885.4
2.5°	883.0
5°	873.0
7.5°	858.2
10°	838.3
12.5°	812.3
15°	782.5
17.5°	750.3
20°	716.8
22.5°	682.1
25°	647.3
27.5°	612.6
30°	576.7
32.5°	541.9
35°	503.5
37.5°	460.1
40°	404.3
42.5°	338.5
45°	267.9
47.5°	202.1
50°	147.6
52.5°	105.4
55°	74.4
57.5°	50.8
60°	34.7
62.5°	22.3
65°	13.6
67.5°	8.7
70°	6.2
72.5°	3.7
75°	3.7
77.5°	2.5
80°	1.2
82.5°	1.2
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)