

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: P641770

Luminaire Tested: ML5612LSVWFL97FS1E - 691WB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-105)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 691WB - 900LM - 5000K
Description: ML56 RR, MILKY OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

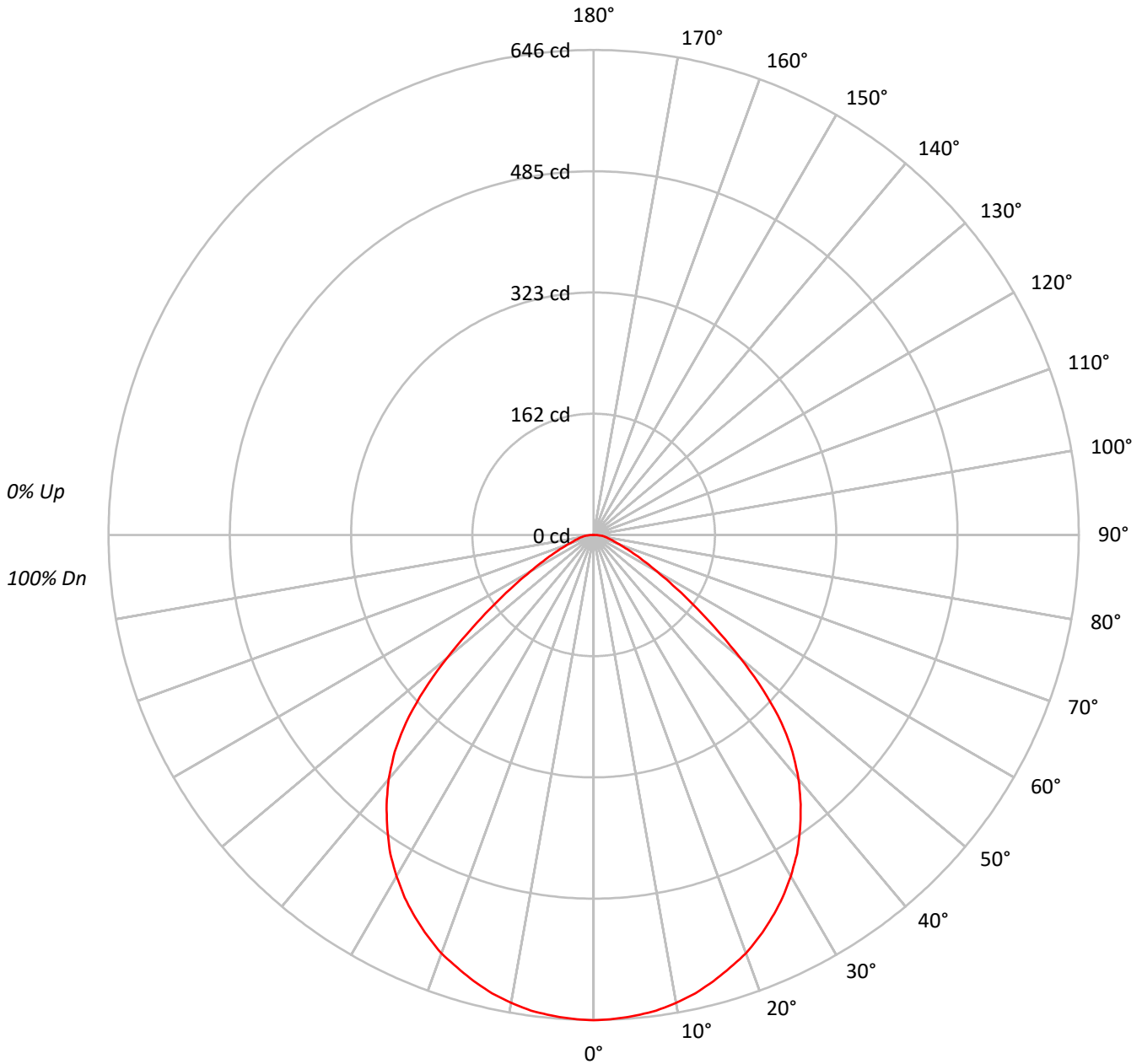
Lumens per Lamp: N/A
Luminaire Lumens: 1304.1 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P641770
CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P641770

CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 900LM - 5000K

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	96	91	86	101	94	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53			53
6	76	65	57	51	75	64	56	51	62	55	50	60	54	50	59	54	50	48			48
7	71	59	51	46	70	58	51	46	57	50	45	55	49	45	54	49	45	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			39
9	62	50	43	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35441
5°	35373
10°	35231
15°	34932
20°	34601
25°	34000
30°	33227
35°	32056
40°	30371
45°	27421
50°	21697
55°	15416
60°	10613
65°	7562
70°	5770
75°	4999
80°	5083
85°	5472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27421 cd/sqm



TEST NUMBER: P641770

CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	4.7
10°-20°	173.6	13.3
20°-30°	258.8	19.8
30°-40°	298.8	22.9
40°-50°	267.7	20.5
50°-60°	148.0	11.3
60°-70°	60.7	4.7
70°-80°	25.9	2.0
80°-90°	9.6	0.7
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°	493.5	37.8
0°-40°	792.2	60.8
0°-60°	1207.8	92.6
0°-90°	1304.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1304.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	646	
5°	643	61
15°	616	174
25°	562	259
35°	479	299
45°	354	268
55°	161	148
65°	58	61
75°	24	26
85°	9	10
90°	0	



TEST NUMBER: P641770

CATALOG NUMBER: ML5612LSVWFL97FS1E - 691WB - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	646.5
2.5°	645.3
5°	642.8
7.5°	639.1
10°	632.9
12.5°	625.4
15°	615.5
17.5°	604.3
20°	593.1
22.5°	578.3
25°	562.1
27.5°	544.8
30°	524.9
32.5°	503.8
35°	479.0
37.5°	452.9
40°	424.4
42.5°	392.1
45°	353.7
47.5°	306.5
50°	254.4
52.5°	203.5
55°	161.3
57.5°	125.3
60°	96.8
62.5°	75.7
65°	58.3
67.5°	45.9
70°	36.0
72.5°	28.5
75°	23.6
77.5°	19.9
80°	16.1
82.5°	13.6
85°	8.7
87.5°	5.0
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)