

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: P641693

Luminaire Tested: ML5612LSVWFL97FS1E - 593WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641693
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-97)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 593WB - 900LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

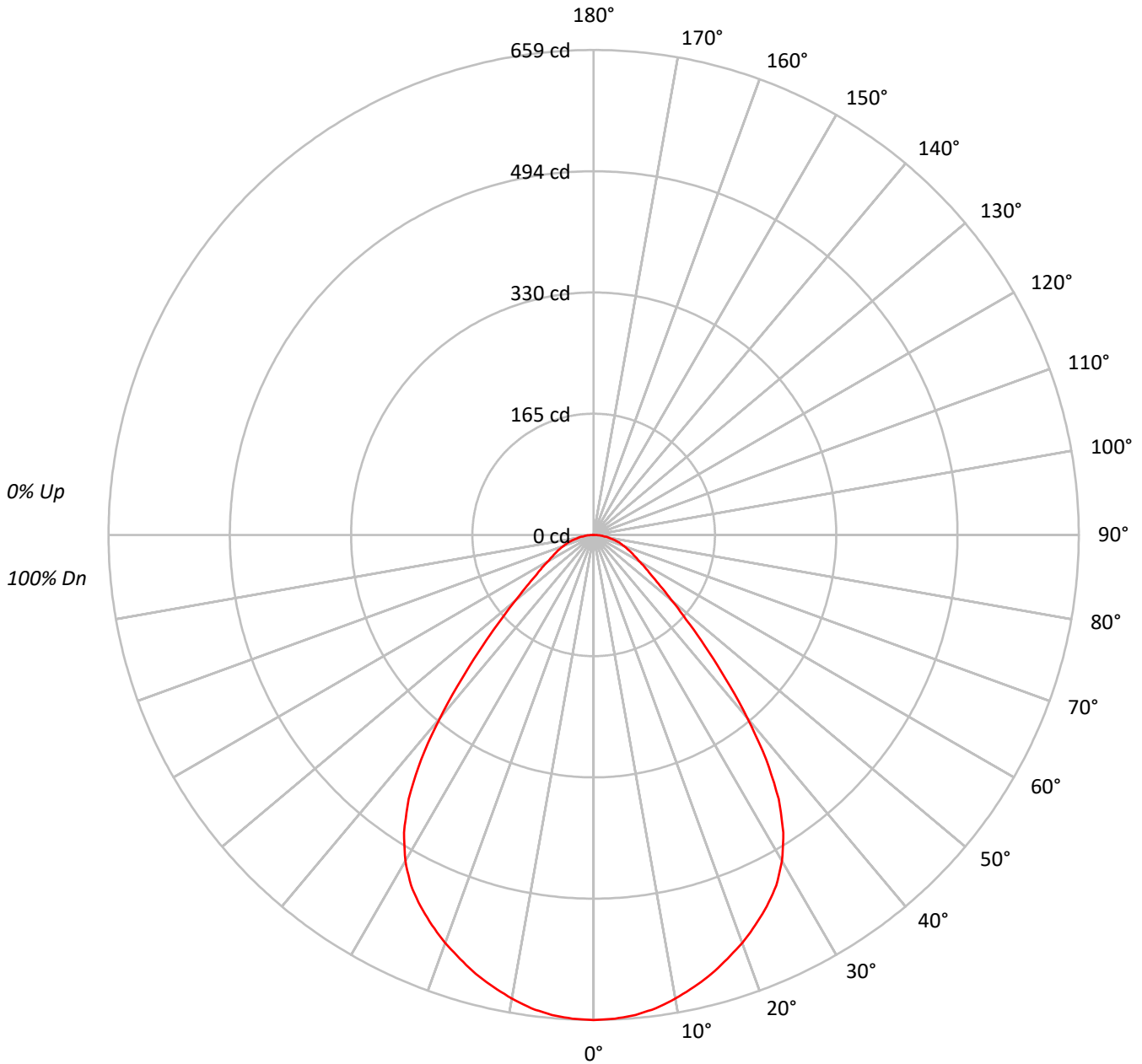
Lumens per Lamp: N/A
Luminaire Lumens: 1116.8 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P641693
CATALOG NUMBER: ML5612LSVWFL97FS1E - 593WB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641693

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593WB - 900LM - 3500K

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42																			
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	52046
5°	51880
10°	51278
15°	50490
20°	49573
25°	48489
30°	46643
35°	42210
40°	33491
45°	23802
50°	16985
55°	13171
60°	11289
65°	10554
70°	10109
75°	9852
80°	9410
85°	8333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23802 cd/sqm



TEST NUMBER: P641693

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593WB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	5.6
10°-20°	174.0	15.6
20°-30°	255.7	22.9
30°-40°	268.0	24.0
40°-50°	168.5	15.1
50°-60°	88.6	7.9
60°-70°	56.2	5.0
70°-80°	33.7	3.0
80°-90°	10.0	0.9
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°	491.8	44.0
0°-40°	759.7	68.0
0°-60°	1016.9	91.0
0°-90°	1116.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1116.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	659	
5°	655	62
15°	618	174
25°	557	256
35°	438	268
45°	213	168
55°	96	89
65°	56	56
75°	32	34
85°	9	10
90°	0	



TEST NUMBER: P641693

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593WB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	659.3
2.5°	658.1
5°	654.7
7.5°	648.9
10°	639.7
12.5°	629.3
15°	617.8
17.5°	603.9
20°	590.1
22.5°	574.0
25°	556.7
27.5°	537.1
30°	511.7
32.5°	479.5
35°	438.0
37.5°	385.0
40°	325.0
42.5°	265.1
45°	213.2
47.5°	170.6
50°	138.3
52.5°	114.1
55°	95.7
57.5°	83.0
60°	71.5
62.5°	63.4
65°	56.5
67.5°	49.6
70°	43.8
72.5°	38.0
75°	32.3
77.5°	25.4
80°	20.7
82.5°	13.8
85°	9.2
87.5°	3.5
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)