

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: P641704

Luminaire Tested: ML5612LSVWFL97FS1E - 594SNB - 600LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641704
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-102)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 594SNB - 600LM - 4000K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

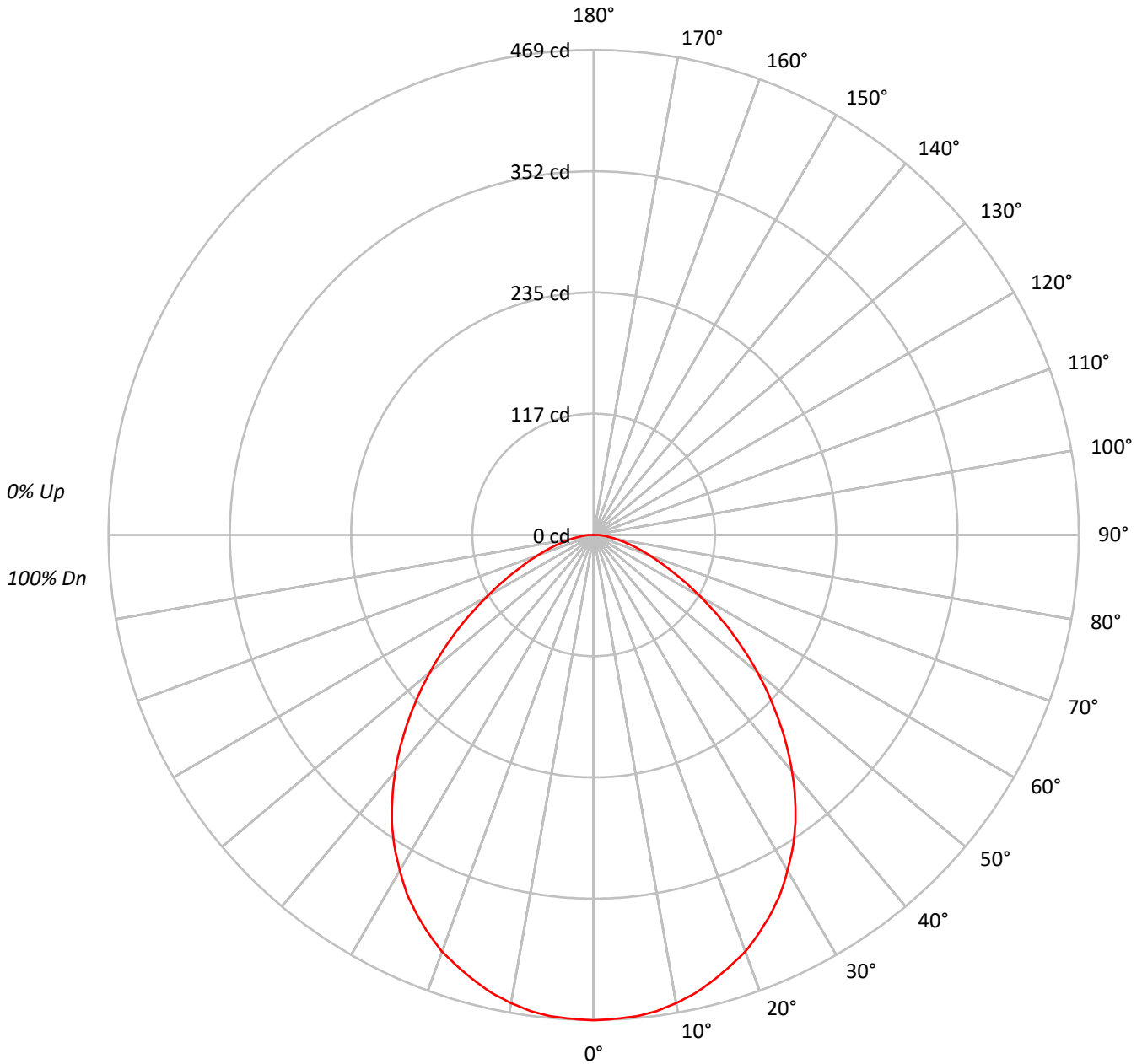
Lumens per Lamp: N/A
Luminaire Lumens: 1043.1 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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: P641704
CATALOG NUMBER: ML5612LSVWFL97FS1E - 594SNB - 600LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P641704

CATALOG NUMBER: ML5612LSVWFL97FS1E - 594SNB - 600LM - 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	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	83	79	76	74	74	74	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64	64	64	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56	56	56	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49	49	49	49
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44	44	44	44
7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39	39	39	39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35	35	35	35
9	60	47	39	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32	32	32	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29	29	29	29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37055
5°	37038
10°	36849
15°	36466
20°	36022
25°	35250
30°	34155
35°	32765
40°	30750
45°	28245
50°	25385
55°	22200
60°	18756
65°	15690
70°	13156
75°	11194
80°	9638
85°	9601

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28245 cd/sqm



TEST NUMBER: P641704

CATALOG NUMBER: ML5612LSVWFL97FS1E - 594SNB - 600LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.4	4.3
10°-20°	125.8	12.1
20°-30°	186.1	17.8
30°-40°	211.8	20.3
40°-50°	194.9	18.7
50°-60°	144.3	13.8
60°-70°	84.4	8.1
70°-80°	39.6	3.8
80°-90°	11.8	1.1
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°	356.3	34.2
0°-40°	568.1	54.5
0°-60°	907.3	87.0
0°-90°	1043.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1043.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	469	
5°	467	44
15°	446	126
25°	405	186
35°	340	212
45°	253	195
55°	161	144
65°	84	84
75°	37	40
85°	11	12
90°	0	



TEST NUMBER: P641704

CATALOG NUMBER: ML5612LSVWFL97FS1E - 594SNB - 600LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	469.4
2.5°	468.4
5°	467.4
7.5°	464.5
10°	459.7
12.5°	453.9
15°	446.2
17.5°	437.5
20°	428.8
22.5°	417.2
25°	404.7
27.5°	391.1
30°	374.7
32.5°	358.3
35°	340.0
37.5°	319.7
40°	298.4
42.5°	276.2
45°	253.0
47.5°	229.9
50°	206.7
52.5°	183.5
55°	161.3
57.5°	139.1
60°	118.8
62.5°	100.4
65°	84.0
67.5°	69.5
70°	57.0
72.5°	46.4
75°	36.7
77.5°	28.0
80°	21.2
82.5°	15.5
85°	10.6
87.5°	6.8
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)