

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P641668

Luminaire Tested: ML5612LSVWFL97FS1E - 593TBZB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-100)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 593TBZB - 1200LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

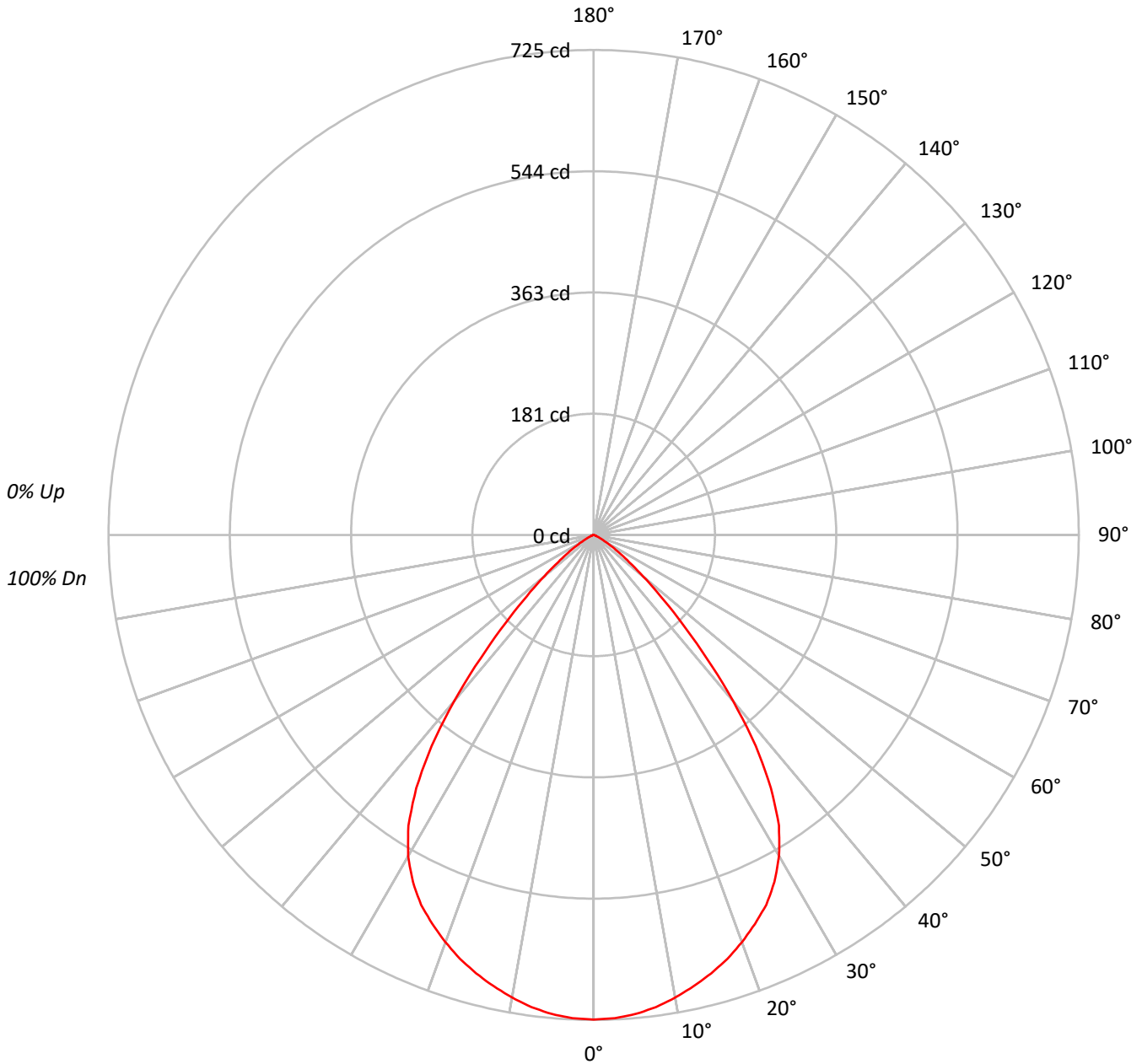
Lumens per Lamp: N/A
Luminaire Lumens: 1024.3 lumens
Efficiency: N/A
Efficacy: 62.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.12
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 16.5
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: P641668
CATALOG NUMBER: ML5612LSVWFL97FS1E - 593TBZB - 1200LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P641668

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593TBZB - 1200LM - 3500K

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	113	110	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92			92
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84			84
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69			69
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63			63
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	62	59	57			57
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			53
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48			48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45			45
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41			41

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	57201
5°	56975
10°	56287
15°	55451
20°	54420
25°	53141
30°	50517
35°	44532
40°	33378
45°	20731
50°	11827
55°	6345
60°	3079
65°	1308
70°	646
75°	427
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20731 cd/sqm



TEST NUMBER: P641668

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593TBZB - 1200LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	6.6
10°-20°	191.2	18.7
20°-30°	279.5	27.3
30°-40°	282.1	27.5
40°-50°	148.8	14.5
50°-60°	44.6	4.4
60°-70°	8.6	0.8
70°-80°	1.5	0.1
80°-90°	0.0	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°	538.8	52.6
0°-40°	820.8	80.1
0°-60°	1014.2	99.0
0°-90°	1024.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1024.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	725	
5°	719	68
15°	678	191
25°	610	279
35°	462	282
45°	186	149
55°	46	45
65°	7	9
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P641668

CATALOG NUMBER: ML5612LSVWFL97FS1E - 593TBZB - 1200LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	724.6
2.5°	723.2
5°	719.0
7.5°	712.0
10°	702.2
12.5°	691.1
15°	678.5
17.5°	664.5
20°	647.8
22.5°	629.6
25°	610.1
27.5°	585.0
30°	554.2
32.5°	515.1
35°	462.1
37.5°	397.9
40°	323.9
42.5°	249.9
45°	185.7
47.5°	135.4
50°	96.3
52.5°	67.0
55°	46.1
57.5°	30.7
60°	19.5
62.5°	12.6
65°	7.0
67.5°	4.2
70°	2.8
72.5°	1.4
75°	1.4
77.5°	1.4
80°	0.0
82.5°	0.0
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)