

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: P641720

Luminaire Tested: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-103)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1031.0 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.27
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

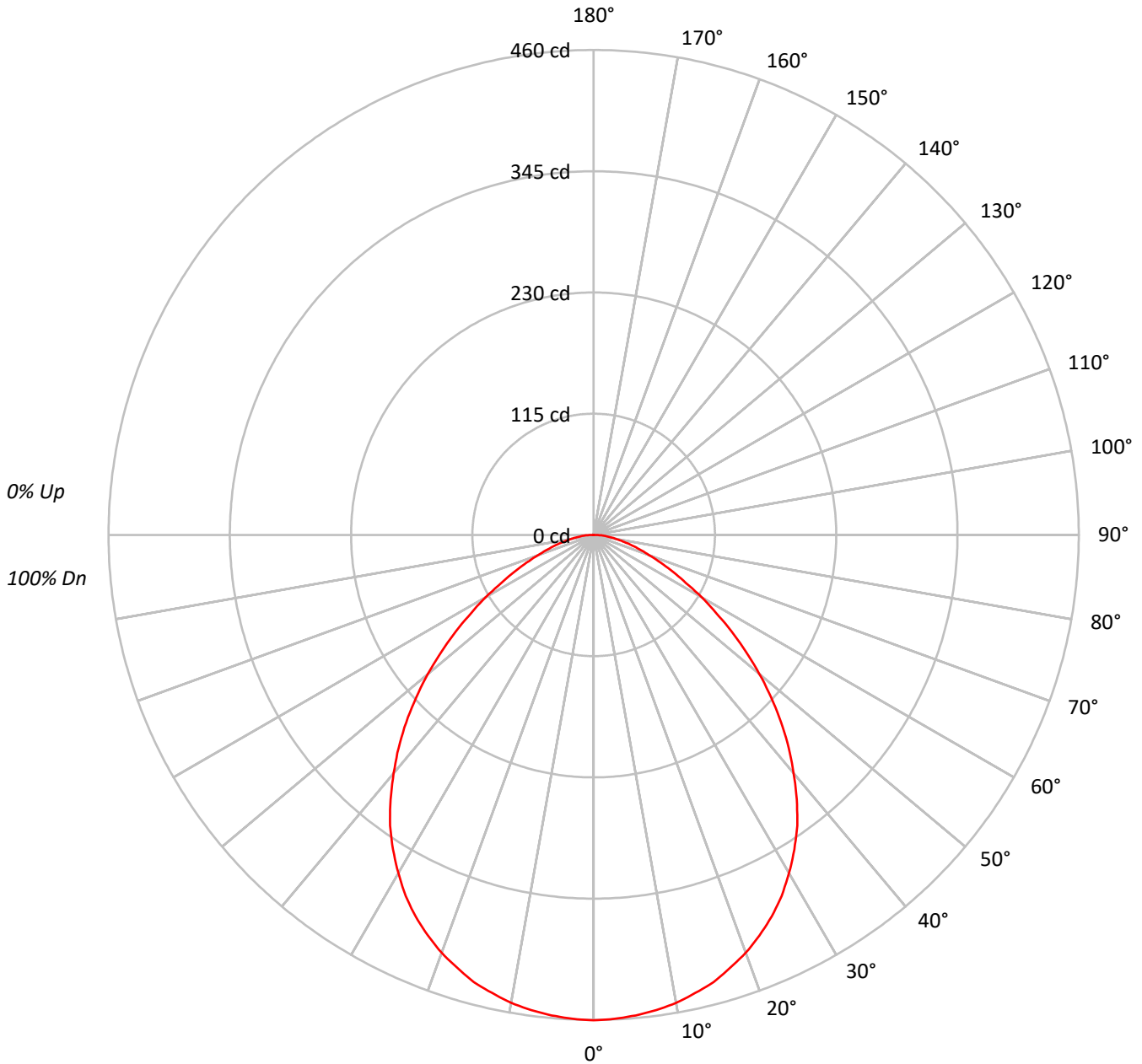
Input Watts (W): 10.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P641720

CATALOG NUMBER: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P641720

CATALOG NUMBER: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87			87
2	101	94	88	83	99	92	87	82	89	84	80	85	82	78	82	79	76	74			74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64			64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56			56
5	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49			49
6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44			44
7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39			39
8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35			35
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32			32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29			29

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36344
5°	36253
10°	36136
15°	35894
20°	35434
25°	34797
30°	33772
35°	32438
40°	30400
45°	28077
50°	25188
55°	21966
60°	18630
65°	15541
70°	12948
75°	11224
80°	9683
85°	9601

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28077 cd/sqm



TEST NUMBER: P641720

CATALOG NUMBER: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	4.2
10°-20°	123.7	12.0
20°-30°	183.6	17.8
30°-40°	209.5	20.3
40°-50°	193.4	18.8
50°-60°	142.9	13.9
60°-70°	83.4	8.1
70°-80°	39.3	3.8
80°-90°	11.9	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°	350.7	34.0
0°-40°	560.2	54.3
0°-60°	896.5	86.9
0°-90°	1031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1031.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	460	
5°	458	43
15°	439	124
25°	400	184
35°	337	209
45°	252	193
55°	160	143
65°	83	83
75°	37	39
85°	11	12
90°	0	



TEST NUMBER: P641720

CATALOG NUMBER: ML5612LSVWFL97FS1E - 594TBZB - 600LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	460.4
2.5°	459.5
5°	457.5
7.5°	454.6
10°	450.8
12.5°	445.0
15°	439.2
17.5°	430.5
20°	421.8
22.5°	411.1
25°	399.5
27.5°	386.0
30°	370.5
32.5°	354.0
35°	336.6
37.5°	316.3
40°	295.0
42.5°	273.8
45°	251.5
47.5°	228.3
50°	205.1
52.5°	181.9
55°	159.6
57.5°	137.4
60°	118.0
62.5°	98.7
65°	83.2
67.5°	68.7
70°	56.1
72.5°	45.5
75°	36.8
77.5°	28.1
80°	21.3
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)