

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: P643532

Luminaire Tested: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643532
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: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 3000K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1705.0 lumens
Efficiency: N/A
Efficacy: 99.7 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

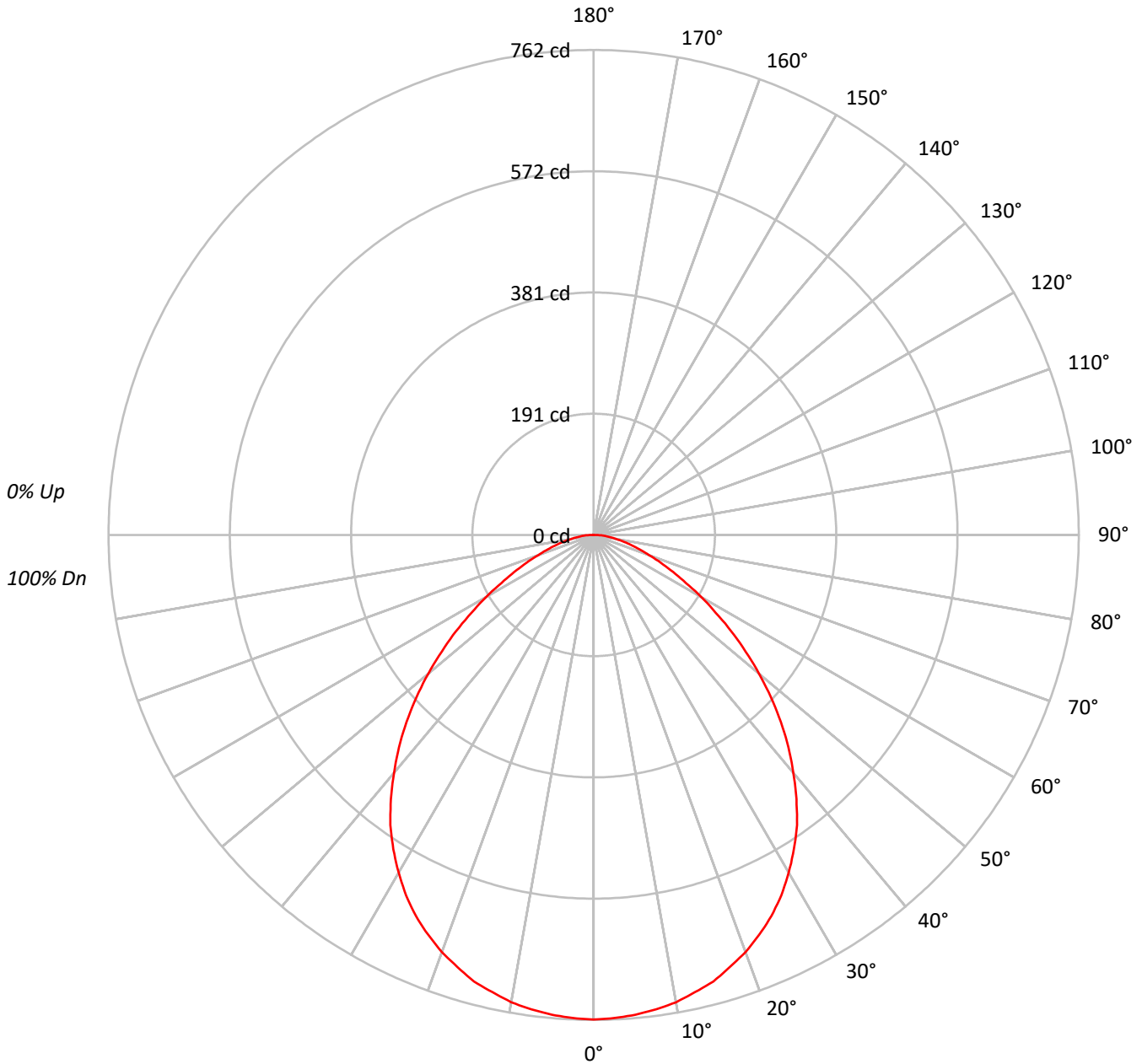
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643532

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P643532

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	60114
5°	59963
10°	59758
15°	59357
20°	58595
25°	57548
30°	55850
35°	53649
40°	50278
45°	46431
50°	41645
55°	36320
60°	30819
65°	25702
70°	21419
75°	18544
80°	16002
85°	15941

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 46431 cd/sqm



TEST NUMBER: P643532

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.9	4.2
10°-20°	204.5	12.0
20°-30°	303.7	17.8
30°-40°	346.4	20.3
40°-50°	319.7	18.8
50°-60°	236.3	13.9
60°-70°	137.9	8.1
70°-80°	64.9	3.8
80°-90°	19.6	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°	580.0	34.0
0°-40°	926.5	54.3
0°-60°	1482.5	87.0
0°-90°	1705.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	762	
5°	757	72
15°	726	205
25°	661	304
35°	557	346
45°	416	320
55°	264	236
65°	138	138
75°	61	65
85°	18	20
90°	0	



TEST NUMBER: P643532

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 3000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	761.5
2.5°	759.9
5°	756.7
7.5°	751.9
10°	745.5
12.5°	735.9
15°	726.3
17.5°	711.9
20°	697.5
22.5°	679.9
25°	660.7
27.5°	638.3
30°	612.7
32.5°	585.5
35°	556.7
37.5°	523.1
40°	487.9
42.5°	452.7
45°	415.9
47.5°	377.5
50°	339.1
52.5°	300.7
55°	263.9
57.5°	227.2
60°	195.2
62.5°	163.2
65°	137.6
67.5°	113.6
70°	92.8
72.5°	75.2
75°	60.8
77.5°	46.4
80°	35.2
82.5°	25.6
85°	17.6
87.5°	11.2
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)