

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: P643531

Luminaire Tested: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643531
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 - 2700K
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1657.5 lumens
Efficiency: N/A
Efficacy: 96.9 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

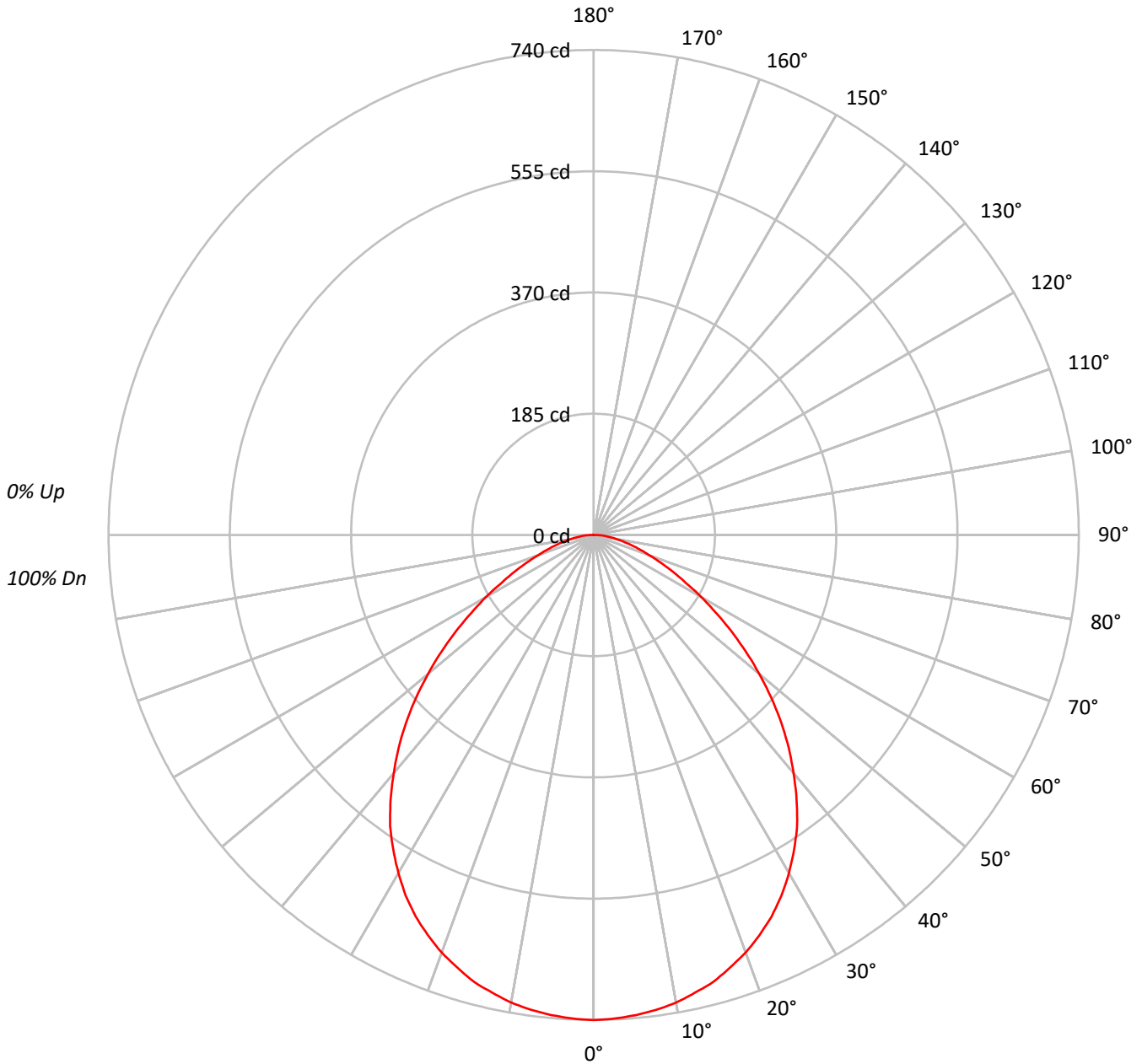
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643531

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P643531

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 2700K

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°	58440
5°	58291
10°	58091
15°	57706
20°	56965
25°	55945
30°	54300
35°	52155
40°	48887
45°	45147
50°	40491
55°	35316
60°	29950
65°	24993
70°	20819
75°	18026
80°	15547
85°	15488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 45147 cd/sqm



TEST NUMBER: P643531

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	4.2
10°-20°	198.8	12.0
20°-30°	295.2	17.8
30°-40°	336.8	20.3
40°-50°	310.9	18.8
50°-60°	229.7	13.9
60°-70°	134.1	8.1
70°-80°	63.1	3.8
80°-90°	19.1	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°	563.9	34.0
0°-40°	900.7	54.3
0°-60°	1441.3	87.0
0°-90°	1657.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1657.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	740	
5°	736	70
15°	706	199
25°	642	295
35°	541	337
45°	404	311
55°	257	230
65°	134	134
75°	59	63
85°	17	19
90°	0	



TEST NUMBER: P643531

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594TBZB - 1500LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	740.3
2.5°	738.7
5°	735.6
7.5°	731.0
10°	724.7
12.5°	715.4
15°	706.1
17.5°	692.1
20°	678.1
22.5°	661.0
25°	642.3
27.5°	620.5
30°	595.7
32.5°	569.2
35°	541.2
37.5°	508.6
40°	474.4
42.5°	440.1
45°	404.4
47.5°	367.0
50°	329.7
52.5°	292.4
55°	256.6
57.5°	220.8
60°	189.7
62.5°	158.6
65°	133.8
67.5°	110.4
70°	90.2
72.5°	73.1
75°	59.1
77.5°	45.1
80°	34.2
82.5°	24.9
85°	17.1
87.5°	10.9
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)