

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: P643548

Luminaire Tested: ML5615LSVWFL9FS1E - 594WB - 1500LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643548
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-101)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 594WB - 1500LM - 3500K
Description: ML56 RR, MILKY OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1802.2 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

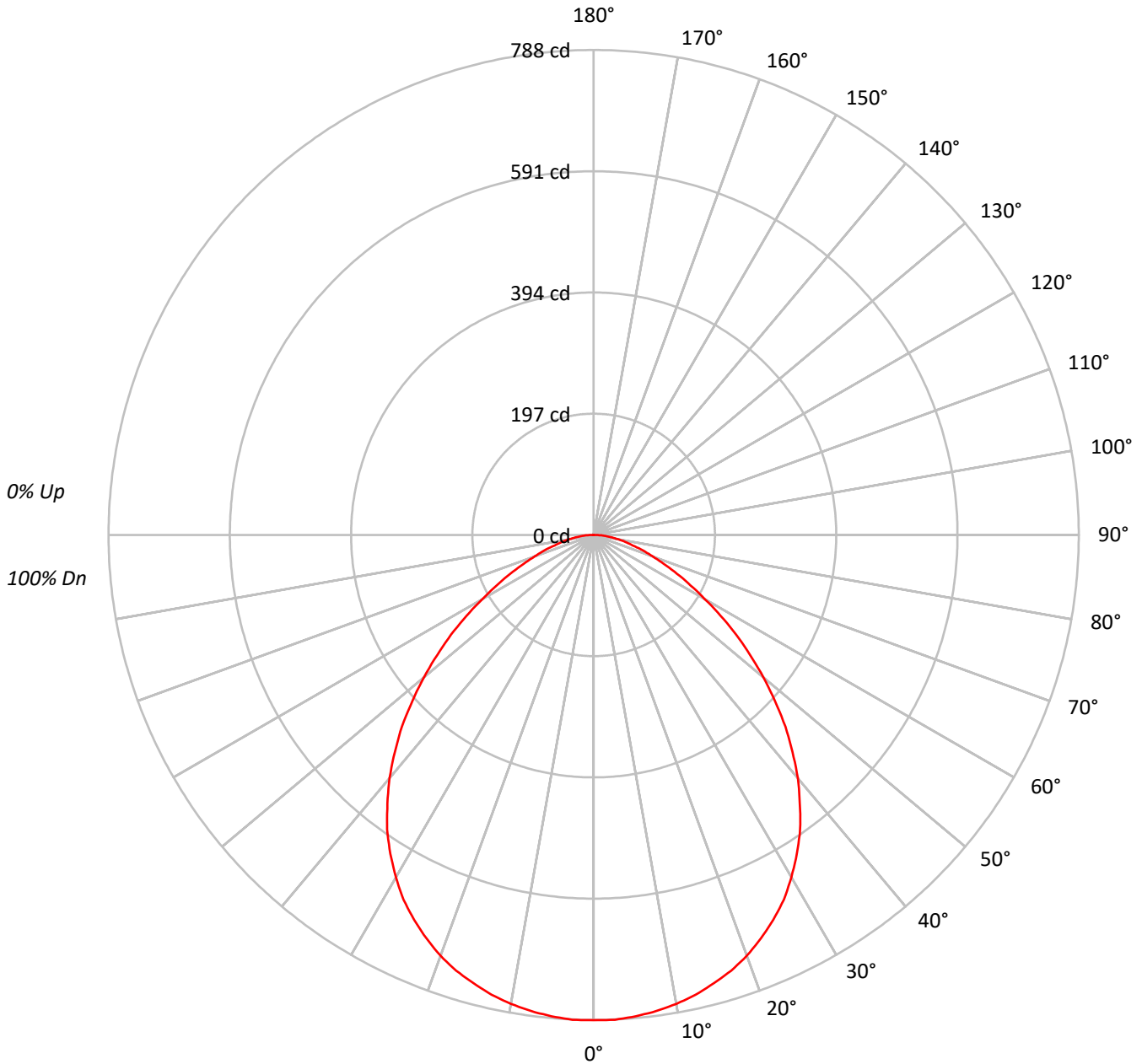
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643548

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594WB - 1500LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643548

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594WB - 1500LM - 3500K

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	99	97	94	96	93	91	92	90	88	86																			
2	101	94	88	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74																			
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64																			
4	86	75	67	60	84	73	66	60	71	64	59	69	63	58	67	62	58	56																			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	60	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	43																			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35																			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	37	33	31																			
10	56	43	36	31	55	43	36	31	42	35	31	41	35	31	40	34	30	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	62245
5°	62221
10°	62019
15°	61621
20°	61132
25°	60100
30°	58548
35°	56357
40°	53153
45°	49155
50°	44187
55°	38894
60°	32934
65°	27925
70°	23519
75°	20039
80°	17911
85°	16394

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 49155 cd/sqm



TEST NUMBER: P643548

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594WB - 1500LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.6	4.1
10°-20°	212.8	11.8
20°-30°	317.5	17.6
30°-40°	364.1	20.2
40°-50°	338.2	18.8
50°-60°	252.6	14.0
60°-70°	149.5	8.3
70°-80°	71.9	4.0
80°-90°	21.0	1.2
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°	604.9	33.6
0°-40°	969.0	53.8
0°-60°	1559.8	86.5
0°-90°	1802.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1802.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	788	
5°	785	75
15°	754	213
25°	690	317
35°	585	364
45°	440	338
55°	283	253
65°	150	150
75°	66	72
85°	18	21
90°	0	



TEST NUMBER: P643548

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594WB - 1500LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	788.5
2.5°	788.5
5°	785.2
7.5°	780.3
10°	773.7
12.5°	765.5
15°	754.0
17.5°	742.5
20°	727.7
22.5°	709.7
25°	690.0
27.5°	668.6
30°	642.3
32.5°	614.4
35°	584.8
37.5°	550.3
40°	515.8
42.5°	478.0
45°	440.3
47.5°	399.2
50°	359.8
52.5°	320.3
55°	282.6
57.5°	244.8
60°	208.6
62.5°	177.4
65°	149.5
67.5°	123.2
70°	101.9
72.5°	83.8
75°	65.7
77.5°	52.6
80°	39.4
82.5°	27.9
85°	18.1
87.5°	11.5
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)