

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: P643405

Luminaire Tested: ML5615LSVWFL9FS1E - 591WB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-93)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 591WB - 900LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1161.1 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.23
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

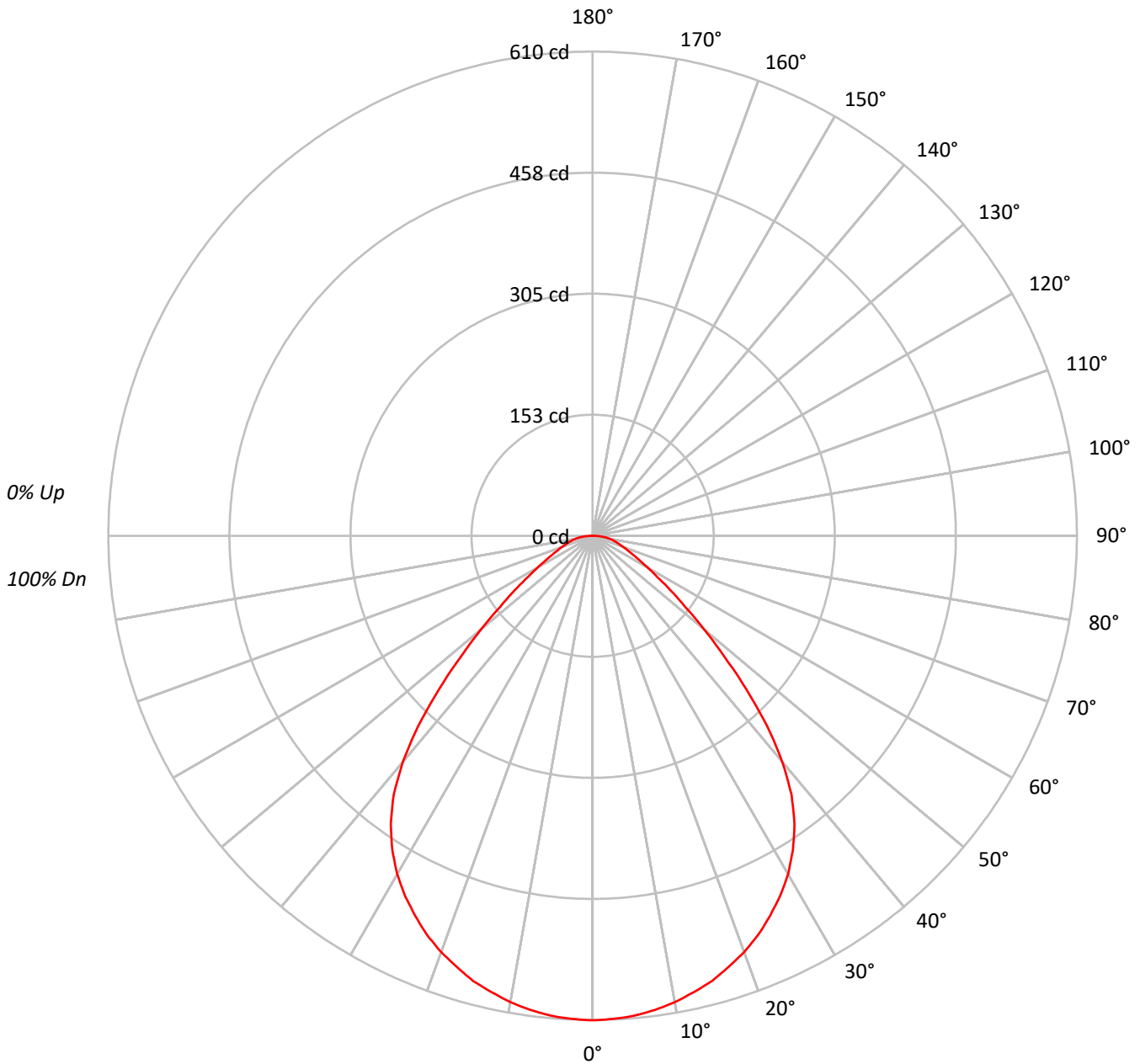
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643405

CATALOG NUMBER: ML5615LSVWFL9FS1E - 591WB - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643405

CATALOG NUMBER: ML5615LSVWFL9FS1E - 591WB - 900LM - 5000K

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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	91	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	81	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	46	44																			
8	67	55	47	42	66	54	47	42	53	47	42	52	46	42	51	46	41	40																			
9	63	51	44	39	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	48186
5°	48100
10°	47831
15°	47466
20°	46884
25°	46033
30°	44866
35°	42720
40°	38304
45°	30578
50°	22474
55°	16419
60°	12567
65°	10404
70°	9440
75°	9364
80°	9819
85°	10325

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30578 cd/sqm



TEST NUMBER: P643405

CATALOG NUMBER: ML5615LSVWFL9FS1E - 591WB - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	5.0
10°-20°	163.6	14.1
20°-30°	243.2	20.9
30°-40°	274.4	23.6
40°-50°	211.0	18.2
50°-60°	109.9	9.5
60°-70°	56.7	4.9
70°-80°	32.5	2.8
80°-90°	12.2	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°	464.4	40.0
0°-40°	738.8	63.6
0°-60°	1059.6	91.3
0°-90°	1161.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1161.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	610	
5°	607	58
15°	581	164
25°	528	243
35°	443	274
45°	274	211
55°	119	110
65°	56	57
75°	31	33
85°	11	12
90°	0	



TEST NUMBER: P643405

CATALOG NUMBER: ML5615LSVWFL9FS1E - 591WB - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	610.4
2.5°	609.2
5°	607.0
7.5°	602.4
10°	596.7
12.5°	588.8
15°	580.8
17.5°	569.5
20°	558.1
22.5°	544.5
25°	528.5
27.5°	511.5
30°	492.2
32.5°	469.4
35°	443.3
37.5°	411.5
40°	371.7
42.5°	325.1
45°	273.9
47.5°	223.9
50°	183.0
52.5°	146.6
55°	119.3
57.5°	96.6
60°	79.6
62.5°	65.9
65°	55.7
67.5°	47.7
70°	40.9
72.5°	35.2
75°	30.7
77.5°	26.1
80°	21.6
82.5°	17.0
85°	11.4
87.5°	5.7
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)