

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: P643449

Luminaire Tested: ML5615LSVWFL9FS1E - 592W - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-96)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 592W - 900LM - 4000K
Description: ML56 RR, MILKY OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1108.3 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

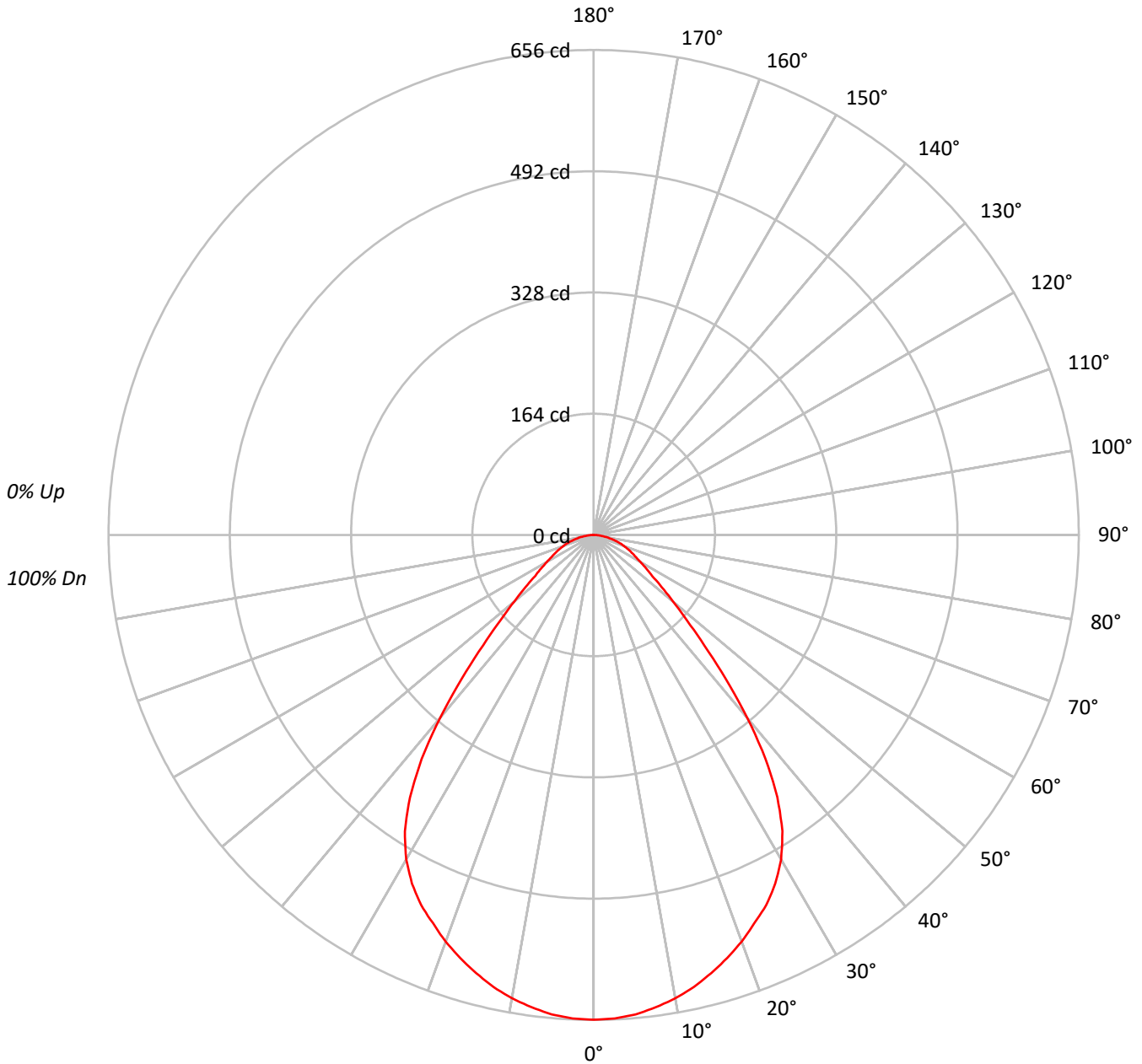
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643449

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592W - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P643449

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592W - 900LM - 4000K

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	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	52	48	46																			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42																			
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	35951
5°	35835
10°	35431
15°	34830
20°	34145
25°	33407
30°	32087
35°	28978
40°	23100
45°	16389
50°	11923
55°	9233
60°	7971
65°	7368
70°	6924
75°	6503
80°	5746
85°	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16389 cd/sqm



TEST NUMBER: P643449

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592W - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	5.6
10°-20°	172.9	15.6
20°-30°	253.4	22.9
30°-40°	265.5	24.0
40°-50°	167.8	15.1
50°-60°	89.8	8.1
60°-70°	56.5	5.1
70°-80°	32.4	2.9
80°-90°	8.3	0.8
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°	488.0	44.0
0°-40°	753.5	68.0
0°-60°	1011.1	91.2
0°-90°	1108.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	656	
5°	651	62
15°	614	173
25°	552	253
35°	433	265
45°	211	168
55°	97	90
65°	57	56
75°	31	32
85°	7	8
90°	0	



TEST NUMBER: P643449

CATALOG NUMBER: ML5615LSVWFL9FS1E - 592W - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	655.8
2.5°	654.6
5°	651.2
7.5°	644.4
10°	636.5
12.5°	626.2
15°	613.7
17.5°	600.1
20°	585.3
22.5°	568.3
25°	552.3
27.5°	531.9
30°	506.9
32.5°	475.1
35°	433.0
37.5°	381.9
40°	322.8
42.5°	263.7
45°	211.4
47.5°	170.5
50°	139.8
52.5°	115.9
55°	96.6
57.5°	84.1
60°	72.7
62.5°	63.6
65°	56.8
67.5°	50.0
70°	43.2
72.5°	37.5
75°	30.7
77.5°	23.9
80°	18.2
82.5°	12.5
85°	6.8
87.5°	2.3
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)