

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: P643525

Luminaire Tested: ML5615LSVWFL9FS1E - 594SNB - 900LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-102)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL9FS1E - 594SNB - 900LM - 5000K
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1227.1 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.26
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

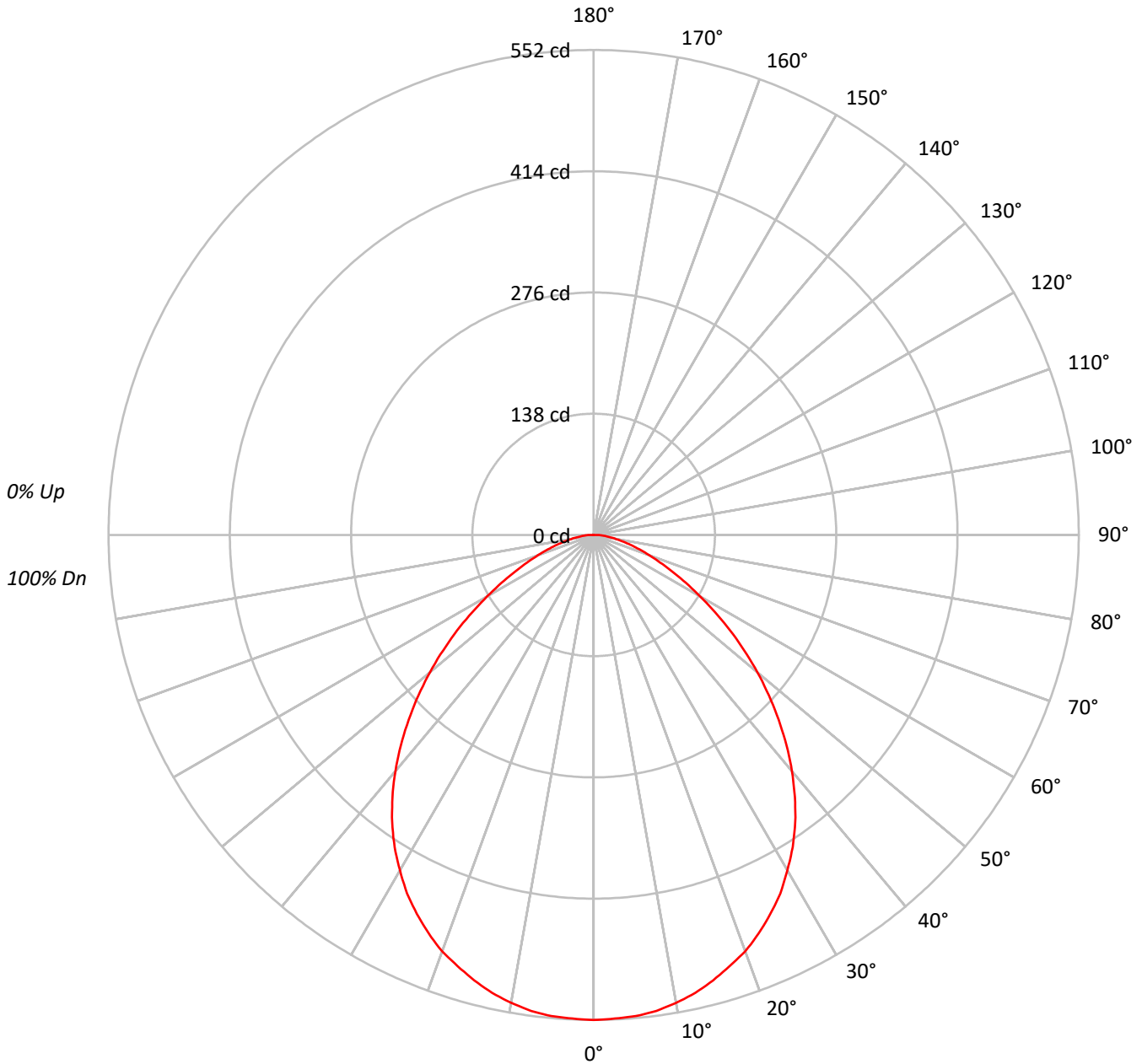
Input Watts (W): 10.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643525

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594SNB - 900LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643525

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594SNB - 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	110	106	102	99	108	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	83	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	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49																			
6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44																			
7	69	56	48	42	67	55	47	42	54	47	42	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	45	38	34	44	38	34	32																			
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	43583
5°	43575
10°	43350
15°	42898
20°	42373
25°	41460
30°	40180
35°	38538
40°	36181
45°	33235
50°	29855
55°	26108
60°	22056
65°	18455
70°	15464
75°	13176
80°	11365
85°	11322

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33235 cd/sqm



TEST NUMBER: P643525

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594SNB - 900LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	4.3
10°-20°	148.0	12.1
20°-30°	219.0	17.8
30°-40°	249.1	20.3
40°-50°	229.3	18.7
50°-60°	169.7	13.8
60°-70°	99.3	8.1
70°-80°	46.5	3.8
80°-90°	13.9	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°	419.2	34.2
0°-40°	668.3	54.5
0°-60°	1067.3	87.0
0°-90°	1227.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1227.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	552	
5°	550	52
15°	525	148
25°	476	219
35°	400	249
45°	298	229
55°	190	170
65°	99	99
75°	43	47
85°	12	14
90°	0	



TEST NUMBER: P643525

CATALOG NUMBER: ML5615LSVWFL9FS1E - 594SNB - 900LM - 5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	552.1
2.5°	551.0
5°	549.9
7.5°	546.5
10°	540.8
12.5°	534.0
15°	524.9
17.5°	514.7
20°	504.4
22.5°	490.8
25°	476.0
27.5°	460.1
30°	440.8
32.5°	421.5
35°	399.9
37.5°	376.1
40°	351.1
42.5°	324.9
45°	297.7
47.5°	270.4
50°	243.1
52.5°	215.9
55°	189.7
57.5°	163.6
60°	139.7
62.5°	118.2
65°	98.8
67.5°	81.8
70°	67.0
72.5°	54.5
75°	43.2
77.5°	32.9
80°	25.0
82.5°	18.2
85°	12.5
87.5°	8.0
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)