

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: P643212

Luminaire Tested: ML5615LSVWFL759FS1E - 596WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-81)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSVWFL759FS1E - 596WB - 1200LM - 3000K
Description: ML56 RR, 75D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1424.4 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.1
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

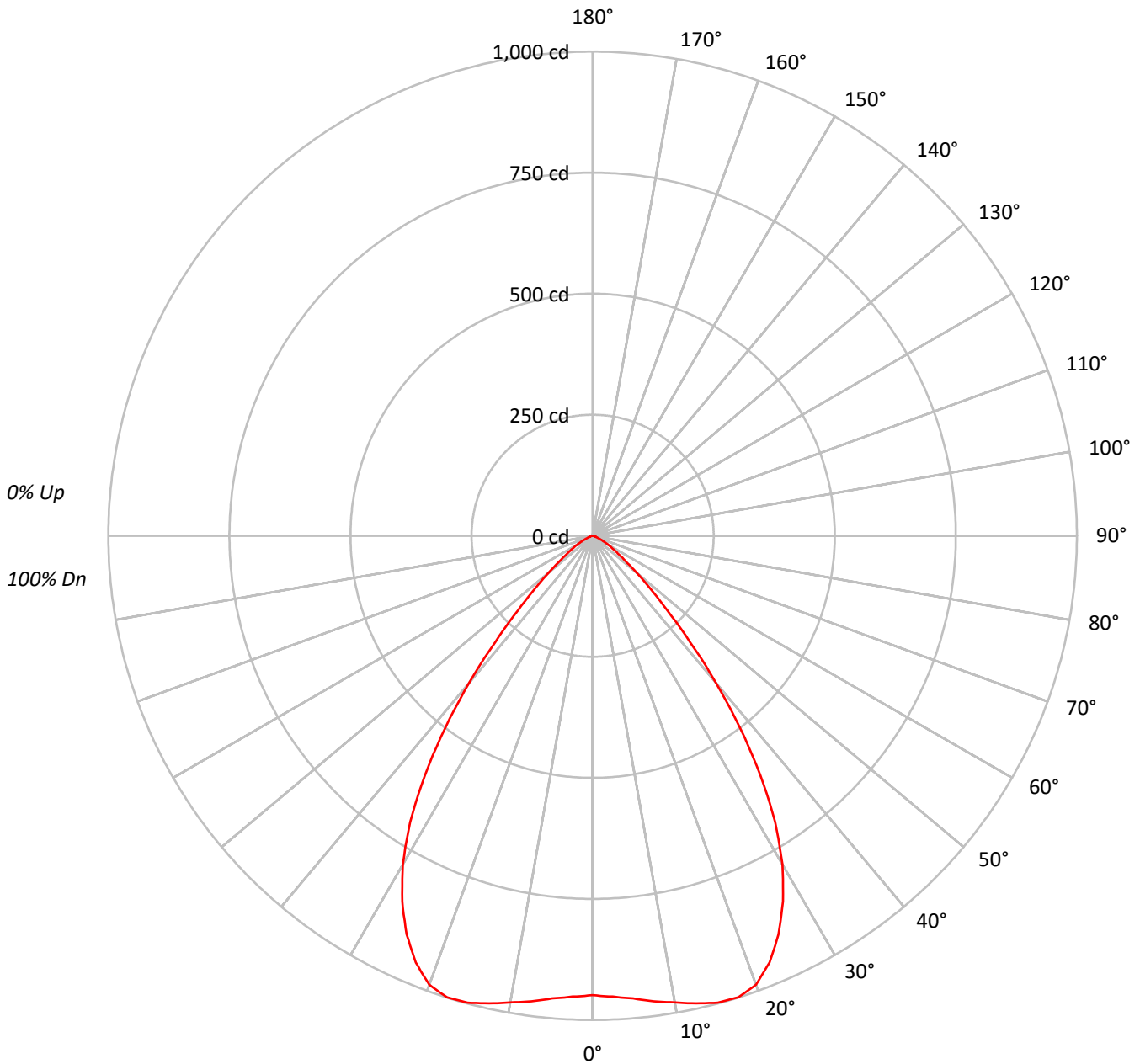
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643212

CATALOG NUMBER: ML5615LSVWFL759FS1E - 596WB - 1200LM - 3000K

Luminous Intensity Polar Plot





TEST NUMBER: P643212

CATALOG NUMBER: ML5615LSVWFL759FS1E - 596WB - 1200LM - 3000K

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			100																
1	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92			92																
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83			83																
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76																
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69			69																
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63			63																
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	59	58			58																
7	78	67	61	56	76	67	60	56	65	60	55	64	59	55	63	58	55	53			53																
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49			49																
9	69	59	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45			45																
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42			42																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	74899
5°	76009
10°	78451
15°	81579
20°	82873
25°	79123
30°	71418
35°	58197
40°	40767
45°	24259
50°	14381
55°	8781
60°	5952
65°	3400
70°	1800
75°	1586
80°	1773
85°	1177

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24259 cd/sqm



TEST NUMBER: P643212

CATALOG NUMBER: ML5615LSVWFL759FS1E - 596WB - 1200LM - 3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	6.5
10°-20°	281.5	19.8
20°-30°	413.7	29.0
30°-40°	371.3	26.1
40°-50°	177.5	12.5
50°-60°	61.1	4.3
60°-70°	19.6	1.4
70°-80°	5.7	0.4
80°-90°	1.9	0.1
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°	787.4	55.3
0°-40°	1158.6	81.3
0°-60°	1397.2	98.1
0°-90°	1424.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1424.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	949	
5°	959	92
15°	998	281
25°	908	414
35°	604	371
45°	217	177
55°	64	61
65°	18	20
75°	5	6
85°	1	2
90°	0	



TEST NUMBER: P643212

CATALOG NUMBER: ML5615LSVWFL759FS1E - 596WB - 1200LM - 3000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	948.8
2.5°	952.7
5°	959.2
7.5°	969.6
10°	978.7
12.5°	989.1
15°	998.2
17.5°	999.5
20°	986.5
22.5°	954.0
25°	908.4
27.5°	851.2
30°	783.5
32.5°	701.5
35°	603.9
37.5°	499.8
40°	395.6
42.5°	298.0
45°	217.3
47.5°	160.1
50°	117.1
52.5°	84.6
55°	63.8
57.5°	49.5
60°	37.7
62.5°	27.3
65°	18.2
67.5°	11.7
70°	7.8
72.5°	6.5
75°	5.2
77.5°	3.9
80°	3.9
82.5°	2.6
85°	1.3
87.5°	1.3
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)