

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: P643913

Luminaire Tested: ML5615LSWFL559FS1E - 596WB - 900LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643913
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 596WB - 900LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

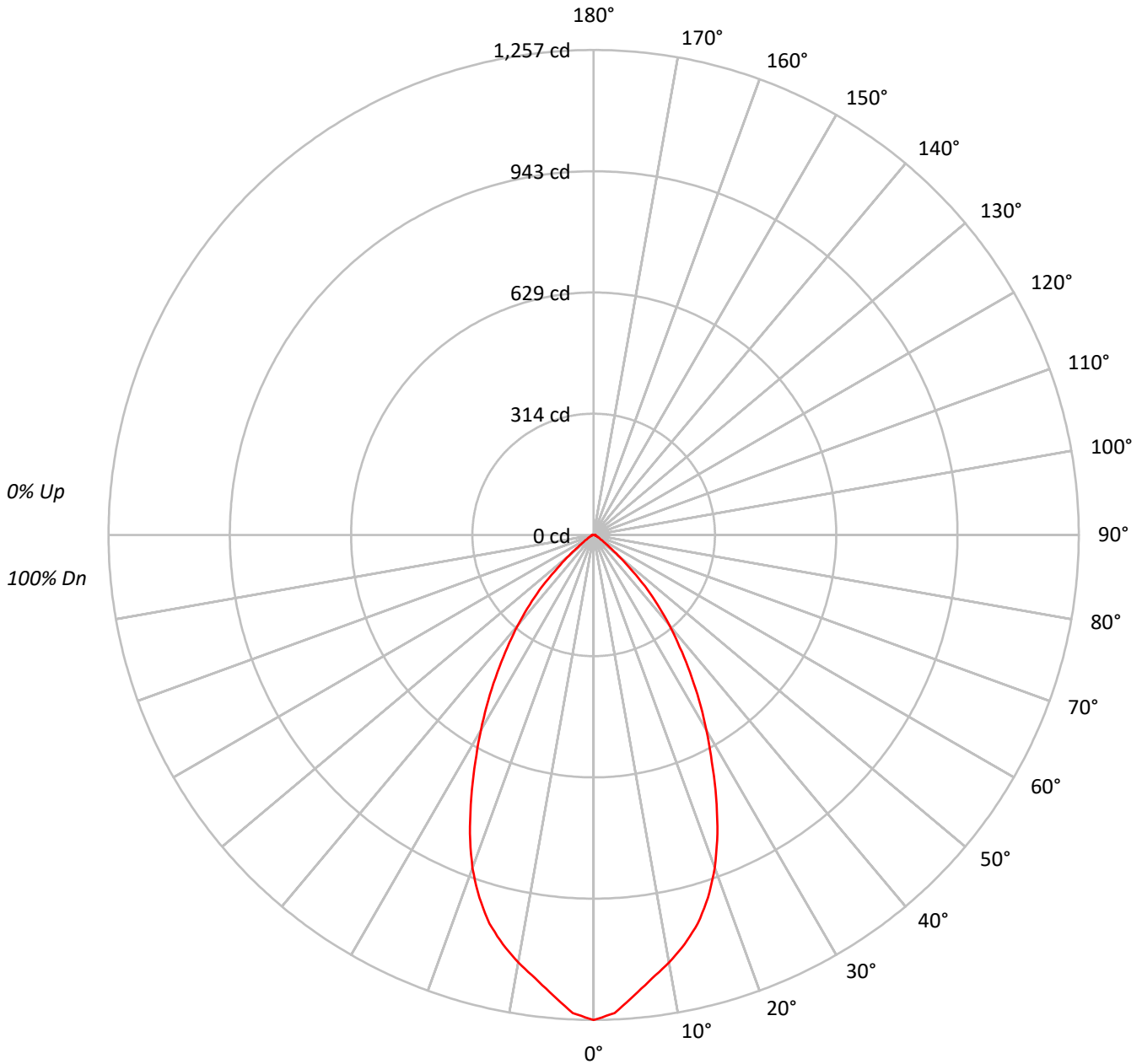
Lumens per Lamp: N/A
Luminaire Lumens: 1215.1 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

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: P643913
CATALOG NUMBER: ML5615LSWFL559FS1E - 596WB - 900LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643913

CATALOG NUMBER: ML5615LSWFL559FS1E - 596WB - 900LM - 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			100																
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92			92																
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85			85																
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72			72																
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66																
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61			61																
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57			57																
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53			53																
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49																
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46			46																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	99252
5°	94948
10°	90203
15°	85224
20°	77135
25°	65344
30°	53261
35°	41853
40°	31471
45°	20999
50°	10120
55°	4514
60°	2842
65°	1980
70°	1454
75°	976
80°	1909
85°	2898

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20999 cd/sqm



TEST NUMBER: P643913

CATALOG NUMBER: ML5615LSWFL559FS1E - 596WB - 900LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	9.2
10°-20°	290.3	23.9
20°-30°	342.9	28.2
30°-40°	272.0	22.4
40°-50°	143.3	11.8
50°-60°	34.9	2.9
60°-70°	11.1	0.9
70°-80°	5.0	0.4
80°-90°	3.5	0.3
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°	745.3	61.3
0°-40°	1017.3	83.7
0°-60°	1195.5	98.4
0°-90°	1215.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1215.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1257	
5°	1198	112
15°	1043	290
25°	750	343
35°	434	272
45°	188	143
55°	33	35
65°	11	11
75°	3	5
85°	3	3
90°	0	



TEST NUMBER: P643913

CATALOG NUMBER: ML5615LSWFL559FS1E - 596WB - 900LM - 3500K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1257.3
2.5°	1240.4
5°	1198.2
7.5°	1159.1
10°	1125.3
12.5°	1087.2
15°	1042.8
17.5°	985.8
20°	918.2
22.5°	837.9
25°	750.2
27.5°	663.5
30°	584.3
32.5°	508.2
35°	434.3
37.5°	366.6
40°	305.4
42.5°	245.1
45°	188.1
47.5°	125.7
50°	82.4
52.5°	51.8
55°	32.8
57.5°	23.2
60°	18.0
62.5°	13.7
65°	10.6
67.5°	8.5
70°	6.3
72.5°	5.3
75°	3.2
77.5°	5.3
80°	4.2
82.5°	4.2
85°	3.2
87.5°	3.2
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)