

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: P643894

Luminaire Tested: ML5615LSWFL559FS1E - 594WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-55)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 594WB - 1500LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

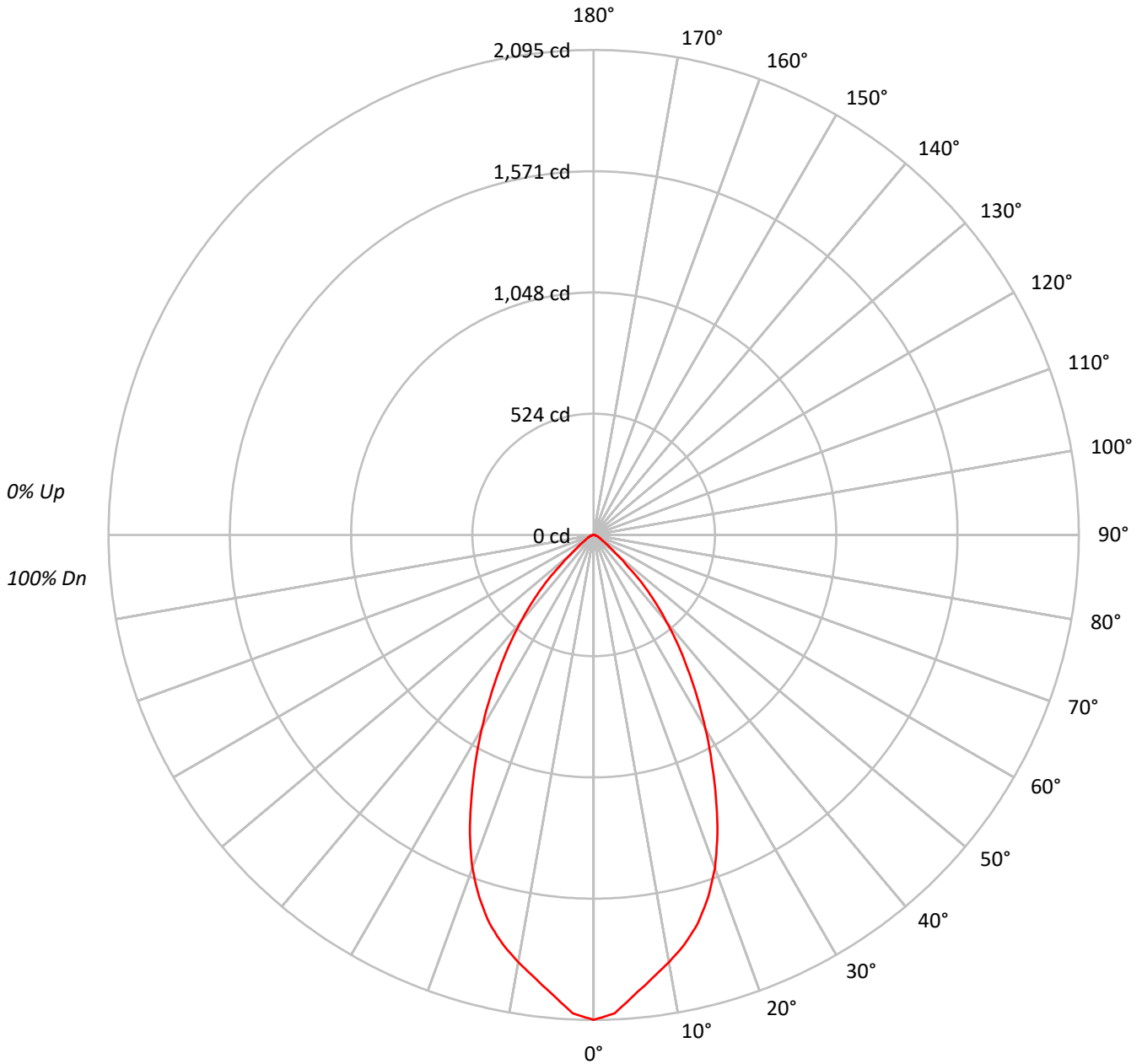
Lumens per Lamp: N/A
Luminaire Lumens: 2009.9 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 17.1
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: P643894
CATALOG NUMBER: ML5615LSWFL559FS1E - 594WB - 1500LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P643894

CATALOG NUMBER: ML5615LSWFL559FS1E - 594WB - 1500LM - 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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92																			
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78																			
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72																			
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																			
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																			
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																			
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	165373
5°	158160
10°	150209
15°	142023
20°	128607
25°	108712
30°	87981
35°	68316
40°	50464
45°	33157
50°	15855
55°	8519
60°	5857
65°	4614
70°	4085
75°	2684
80°	1591
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 33157 cd/sqm



TEST NUMBER: P643894

CATALOG NUMBER: ML5615LSWFL559FS1E - 594WB - 1500LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.9	9.3
10°-20°	483.7	24.1
20°-30°	570.3	28.4
30°-40°	444.1	22.1
40°-50°	226.8	11.3
50°-60°	61.9	3.1
60°-70°	25.5	1.3
70°-80°	9.8	0.5
80°-90°	1.0	0.0
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°	1240.8	61.7
0°-40°	1684.9	83.8
0°-60°	1973.6	98.2
0°-90°	2009.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2009.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2095	
5°	1996	187
15°	1738	484
25°	1248	570
35°	709	444
45°	297	227
55°	62	62
65°	25	26
75°	9	10
85°	0	1
90°	0	



TEST NUMBER: P643894

CATALOG NUMBER: ML5615LSWFL559FS1E - 594WB - 1500LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	2094.9
2.5°	2068.4
5°	1995.9
7.5°	1932.2
10°	1873.9
12.5°	1812.0
15°	1737.8
17.5°	1642.3
20°	1530.9
22.5°	1396.6
25°	1248.1
27.5°	1103.1
30°	965.2
32.5°	832.6
35°	708.9
37.5°	595.8
40°	489.7
42.5°	390.7
45°	297.0
47.5°	194.5
50°	129.1
52.5°	88.4
55°	61.9
57.5°	46.0
60°	37.1
62.5°	30.1
65°	24.7
67.5°	21.2
70°	17.7
72.5°	12.4
75°	8.8
77.5°	5.3
80°	3.5
82.5°	1.8
85°	0.0
87.5°	0.0
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)