

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: P643789

Luminaire Tested: ML5615LSWFL559FS1E - 592W - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-50)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 592W - 1500LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1983.3 lumens
Efficiency: N/A
Efficacy: 116.0 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

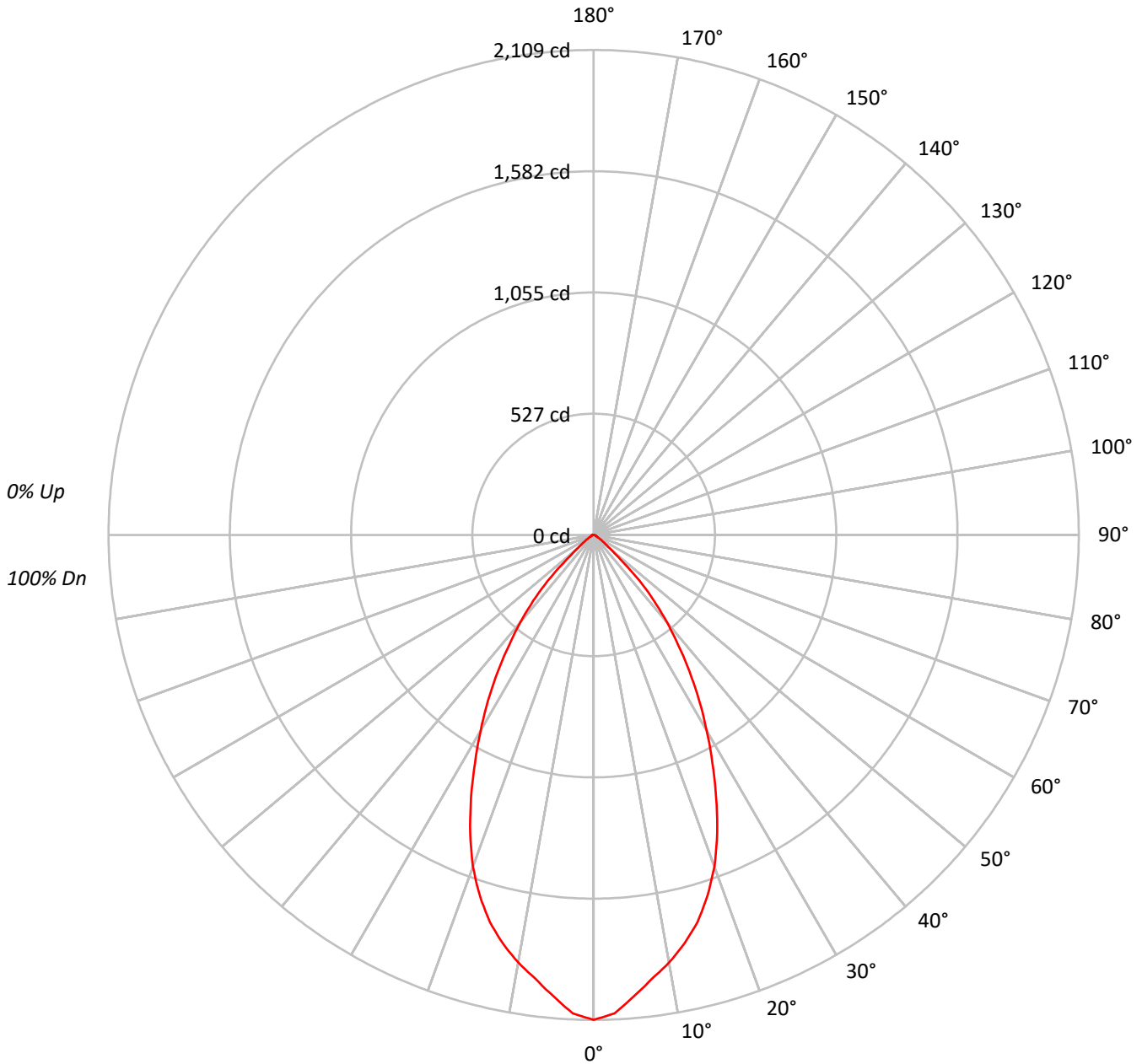
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P643789

CATALOG NUMBER: ML5615LSWFL559FS1E - 592W - 1500LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P643789
 CATALOG NUMBER: ML5615LSWFL559FS1E - 592W - 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	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																			
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79																			
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																			
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67																			
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																			
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																			
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																			
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50																			
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	166479
5°	159555
10°	151340
15°	142448
20°	128901
25°	109783
30°	89594
35°	70012
40°	51010
45°	31572
50°	11507
55°	6083
60°	3063
65°	2316
70°	2447
75°	2166
80°	2409
85°	1630

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31572 cd/sqm



TEST NUMBER: P643789

CATALOG NUMBER: ML5615LSWFL559FS1E - 592W - 1500LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	9.5
10°-20°	485.4	24.5
20°-30°	575.6	29.0
30°-40°	453.2	22.8
40°-50°	213.4	10.8
50°-60°	43.4	2.2
60°-70°	13.3	0.7
70°-80°	8.2	0.4
80°-90°	2.7	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°	1249.3	63.0
0°-40°	1702.4	85.8
0°-60°	1959.2	98.8
0°-90°	1983.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2109	
5°	2014	188
15°	1743	485
25°	1260	576
35°	726	453
45°	283	213
55°	44	43
65°	12	13
75°	7	8
85°	2	3
90°	0	



TEST NUMBER: P643789

CATALOG NUMBER: ML5615LSWFL559FS1E - 592W - 1500LM - 4000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	2108.9
2.5°	2082.4
5°	2013.5
7.5°	1946.3
10°	1888.0
12.5°	1820.8
15°	1743.0
17.5°	1645.8
20°	1534.4
22.5°	1403.6
25°	1260.4
27.5°	1117.2
30°	982.9
32.5°	853.8
35°	726.5
37.5°	604.6
40°	495.0
42.5°	388.9
45°	282.8
47.5°	159.1
50°	93.7
52.5°	63.6
55°	44.2
57.5°	31.8
60°	19.4
62.5°	15.9
65°	12.4
67.5°	10.6
70°	10.6
72.5°	8.8
75°	7.1
77.5°	7.1
80°	5.3
82.5°	3.5
85°	1.8
87.5°	1.8
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)