

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: P643963

Luminaire Tested: ML5615LSWFL559FS1E - 692W - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-62)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 692W - 1200LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

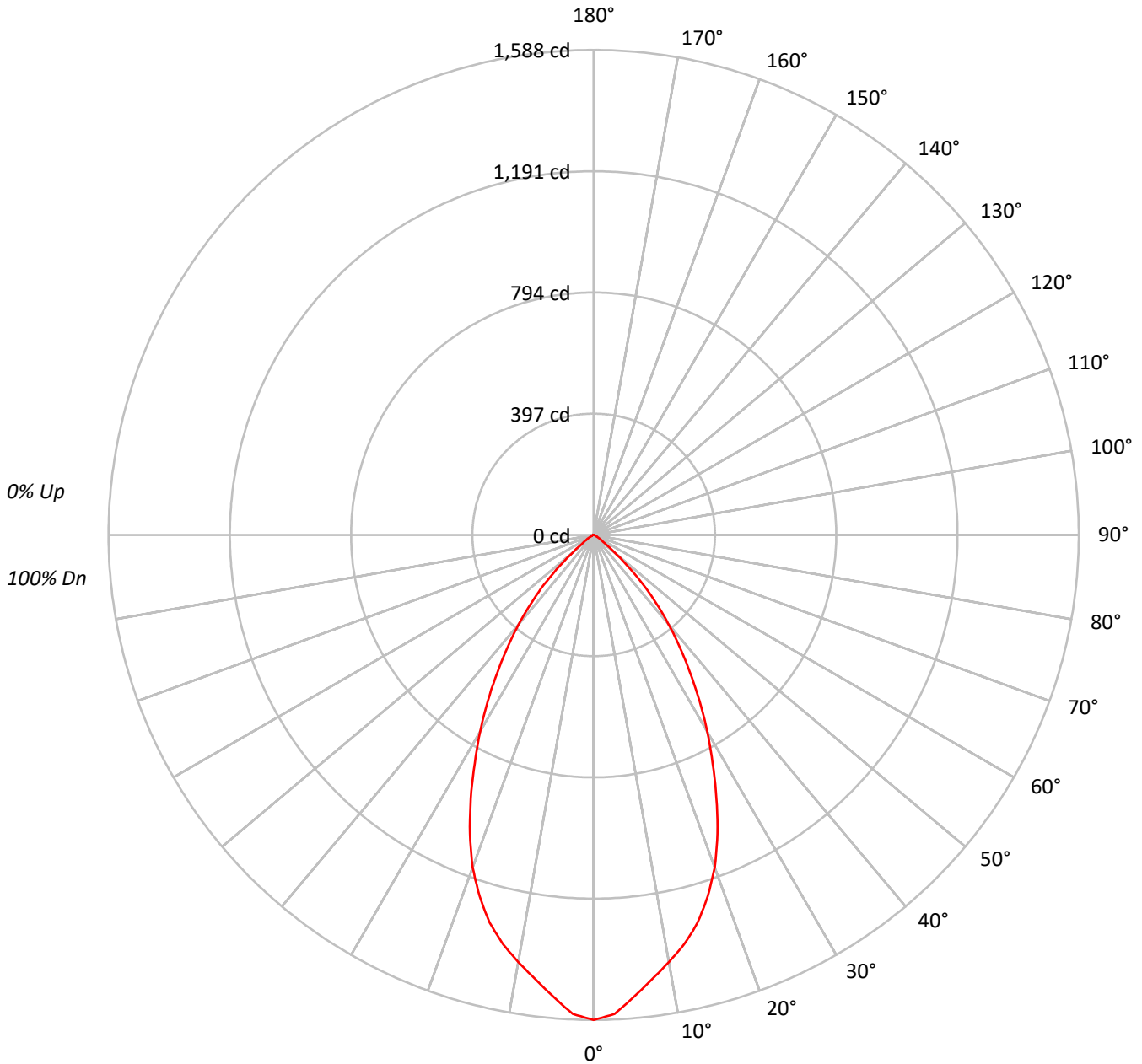
Lumens per Lamp: N/A
Luminaire Lumens: 1510.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P643963
CATALOG NUMBER: ML5615LSWFL559FS1E - 692W - 1200LM - 3500K

Luminous Intensity Polar Plot





TEST NUMBER: P643963

CATALOG NUMBER: ML5615LSWFL559FS1E - 692W - 1200LM - 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																			
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	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	85	83	80	79																			
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72																			
5	90	81	75	71	89	80	75	70	79	74	70	77	72	69	75	71	68	67																			
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62																			
7	81	71	65	60	79	70	64	60	69	63	60	68	63	59	67	62	59	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50																			
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	87076
5°	83513
10°	79051
15°	74603
20°	67568
25°	57536
30°	47020
35°	36747
40°	27244
45°	17816
50°	7633
55°	3192
60°	1754
65°	1038
70°	850
75°	847
80°	852
85°	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17816 cd/sqm



TEST NUMBER: P643963

CATALOG NUMBER: ML5615LSWFL559FS1E - 692W - 1200LM - 3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	9.4
10°-20°	365.9	24.2
20°-30°	434.5	28.8
30°-40°	343.9	22.8
40°-50°	174.8	11.6
50°-60°	35.5	2.4
60°-70°	8.5	0.6
70°-80°	3.9	0.3
80°-90°	1.1	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°	942.2	62.4
0°-40°	1286.2	85.2
0°-60°	1496.5	99.1
0°-90°	1510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1510.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1588	
5°	1518	142
15°	1314	366
25°	951	434
35°	549	344
45°	230	175
55°	33	36
65°	8	9
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P643963

CATALOG NUMBER: ML5615LSWFL559FS1E - 692W - 1200LM - 3500K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1588.4
2.5°	1569.7
5°	1517.6
7.5°	1466.8
10°	1420.1
12.5°	1372.0
15°	1314.5
17.5°	1241.1
20°	1158.2
22.5°	1059.4
25°	951.2
27.5°	843.0
30°	742.8
32.5°	645.2
35°	549.1
37.5°	462.2
40°	380.7
42.5°	303.2
45°	229.8
47.5°	151.0
50°	89.5
52.5°	50.8
55°	33.4
57.5°	24.0
60°	16.0
62.5°	10.7
65°	8.0
67.5°	5.3
70°	5.3
72.5°	4.0
75°	4.0
77.5°	2.7
80°	2.7
82.5°	1.3
85°	1.3
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)