

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: P643965

Luminaire Tested: ML5615LSWFL559FS1E - 692W - 1200LM - 5000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643965
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 - 5000K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

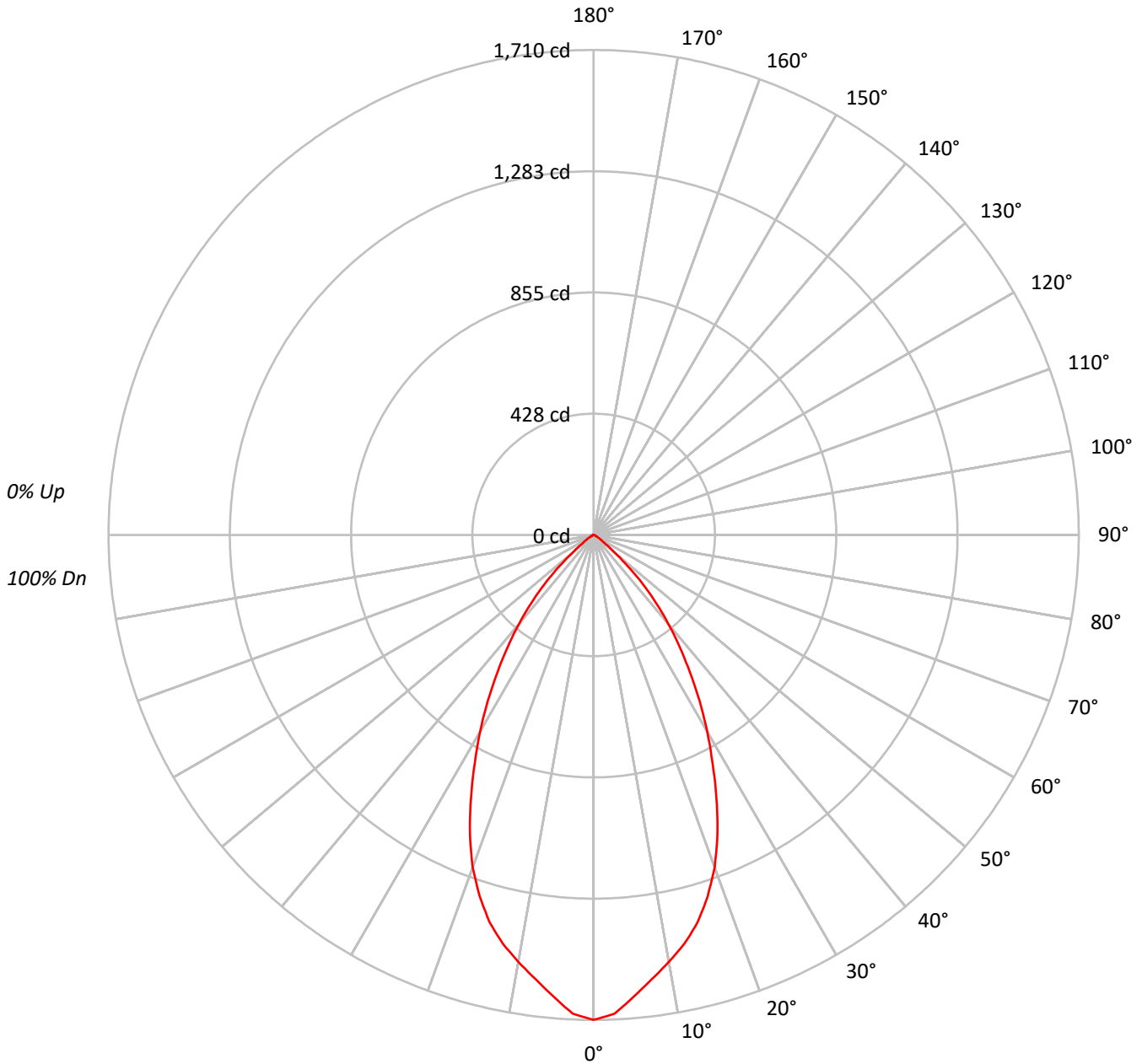
Lumens per Lamp: N/A
Luminaire Lumens: 1625.3 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (Ain): 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: P643965
CATALOG NUMBER: ML5615LSWFL559FS1E - 692W - 1200LM - 5000K

Luminous Intensity Polar Plot





TEST NUMBER: P643965

CATALOG NUMBER: ML5615LSWFL559FS1E - 692W - 1200LM - 5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85	85	85	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	79	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	67	64	71	67	63	62	62	62	62
7	81	71	65	60	79	70	64	60	69	63	60	68	63	59	67	62	59	57	57	57	57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53	53	53	53
9	73	62	56	52	71	62	56	52	61	55	52	60	55	51	59	55	51	50	50	50	50
10	69	59	53	49	68	58	52	48	57	52	48	57	52	48	56	51	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	93726
5°	89891
10°	85085
15°	80301
20°	72730
25°	61927
30°	50609
35°	39552
40°	29326
45°	19173
50°	8213
55°	3431
60°	1897
65°	1116
70°	930
75°	911
80°	916
85°	881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19173 cd/sqm



TEST NUMBER: P643965

CATALOG NUMBER: ML5615LSWFL559FS1E - 692W - 1200LM - 5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.7	9.4
10°-20°	393.9	24.2
20°-30°	467.6	28.8
30°-40°	370.2	22.8
40°-50°	188.2	11.6
50°-60°	38.2	2.4
60°-70°	9.2	0.6
70°-80°	4.2	0.3
80°-90°	1.2	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°	1014.2	62.4
0°-40°	1384.4	85.2
0°-60°	1610.8	99.1
0°-90°	1625.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1625.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1710	
5°	1634	153
15°	1415	394
25°	1024	468
35°	591	370
45°	247	188
55°	36	38
65°	9	9
75°	4	4
85°	1	1
90°	0	



TEST NUMBER: P643965

CATALOG NUMBER: ML5615LSWFL559FS1E - 692W - 1200LM - 5000K

CANDELA DISTRIBUTION (FULL):

0°	
0°	1709.7
2.5°	1689.6
5°	1633.5
7.5°	1578.8
10°	1528.5
12.5°	1476.7
15°	1414.9
17.5°	1335.8
20°	1246.7
22.5°	1140.3
25°	1023.8
27.5°	907.3
30°	799.5
32.5°	694.5
35°	591.0
37.5°	497.5
40°	409.8
42.5°	326.4
45°	247.3
47.5°	162.5
50°	96.3
52.5°	54.6
55°	35.9
57.5°	25.9
60°	17.3
62.5°	11.5
65°	8.6
67.5°	5.8
70°	5.8
72.5°	4.3
75°	4.3
77.5°	2.9
80°	2.9
82.5°	1.4
85°	1.4
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)