

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: P643969

Luminaire Tested: ML5615LSWFL559FS1E - 692W - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643969
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 - 1500LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1997.5 lumens
Efficiency: N/A
Efficacy: 116.8 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

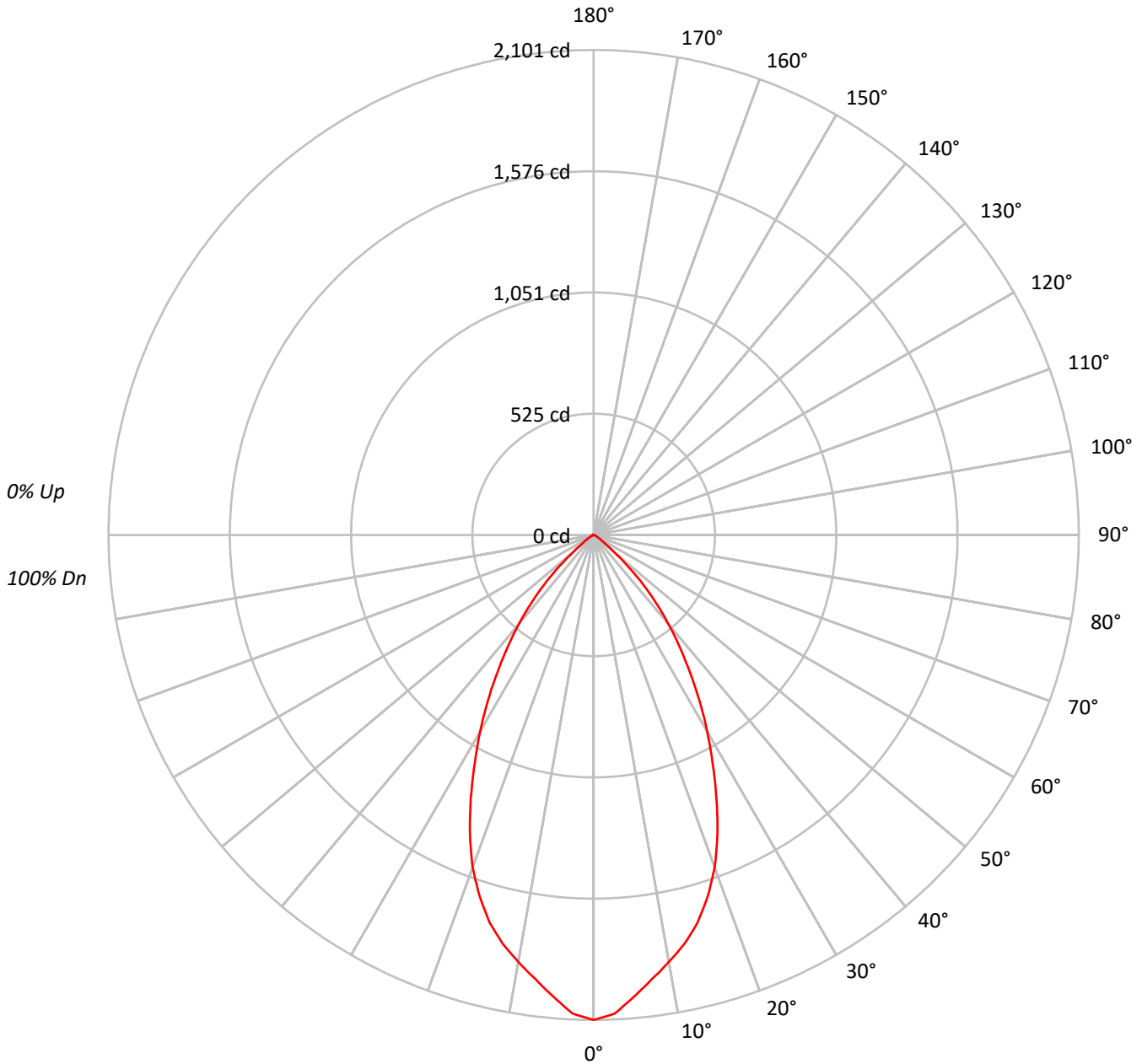
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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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°	115183
5°	110472
10°	104568
15°	98690
20°	89380
25°	76105
30°	62193
35°	48606
40°	36039
45°	23561
50°	10098
55°	4224
60°	2324
65°	1375
70°	1138
75°	1123
80°	1105
85°	1132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23561 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	9.4
10°-20°	484.0	24.2
20°-30°	574.7	28.8
30°-40°	454.9	22.8
40°-50°	231.2	11.6
50°-60°	47.0	2.4
60°-70°	11.3	0.6
70°-80°	5.1	0.3
80°-90°	1.5	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°	1246.4	62.4
0°-40°	1701.3	85.2
0°-60°	1979.6	99.1
0°-90°	1997.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1997.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2101	
5°	2008	188
15°	1739	484
25°	1258	575
35°	726	455
45°	304	231
55°	44	47
65°	11	11
75°	5	5
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2101.1
2.5°	2076.4
5°	2007.5
7.5°	1940.3
10°	1878.5
12.5°	1814.9
15°	1738.9
17.5°	1641.7
20°	1532.1
22.5°	1401.3
25°	1258.2
27.5°	1115.1
30°	982.5
32.5°	853.5
35°	726.3
37.5°	611.4
40°	503.6
42.5°	401.1
45°	303.9
47.5°	199.7
50°	118.4
52.5°	67.2
55°	44.2
57.5°	31.8
60°	21.2
62.5°	14.1
65°	10.6
67.5°	7.1
70°	7.1
72.5°	5.3
75°	5.3
77.5°	3.5
80°	3.5
82.5°	1.8
85°	1.8
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

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— 0°-180°

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