

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: P643924

Luminaire Tested: ML5615LSWFL559FS1E - 691WB - 1500LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643924
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 691WB - 1500LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1999.2 lumens
Efficiency: N/A
Efficacy: 116.9 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

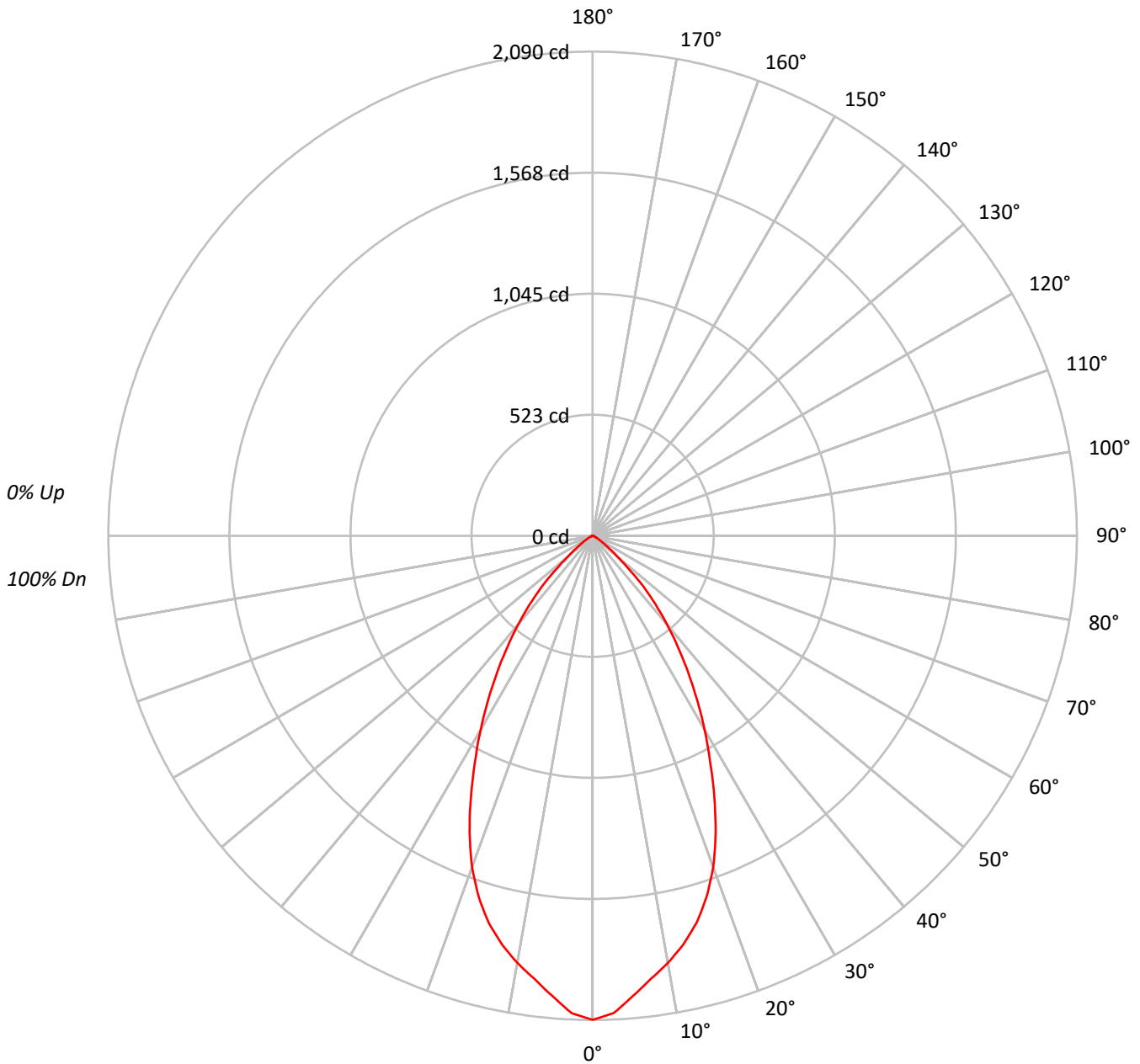
Input Watts (W): 17.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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			
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93					93			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85					85			
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78					78			
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72					72			
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66					66			
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61					61			
7	81	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57					57			
8	76	66	60	55	75	66	59	55	64	59	55	63	58	55	62	58	54	53					53			
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49					49			
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46					46			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114547
5°	109734
10°	104212
15°	98224
20°	88797
25°	75174
30°	61212
35°	47917
40°	35674
45°	23987
50°	11607
55°	5744
60°	2905
65°	1829
70°	850
75°	741
80°	568
85°	1132

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23987 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	9.3
10°-20°	481.8	24.1
20°-30°	567.8	28.4
30°-40°	448.0	22.4
40°-50°	235.1	11.8
50°-60°	60.1	3.0
60°-70°	14.3	0.7
70°-80°	3.7	0.2
80°-90°	1.7	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°	1236.2	61.8
0°-40°	1684.2	84.2
0°-60°	1979.5	99.0
0°-90°	1999.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1999.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2090	
5°	1994	187
15°	1731	482
25°	1243	568
35°	716	448
45°	309	235
55°	60	60
65°	14	14
75°	4	4
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2089.5
2.5°	2063.0
5°	1994.1
7.5°	1928.7
10°	1872.1
12.5°	1806.7
15°	1730.7
17.5°	1635.2
20°	1522.1
22.5°	1387.7
25°	1242.8
27.5°	1097.8
30°	967.0
32.5°	837.9
35°	716.0
37.5°	602.8
40°	498.5
42.5°	401.3
45°	309.4
47.5°	206.8
50°	136.1
52.5°	91.9
55°	60.1
57.5°	38.9
60°	26.5
62.5°	19.4
65°	14.1
67.5°	8.8
70°	5.3
72.5°	3.5
75°	3.5
77.5°	3.5
80°	1.8
82.5°	1.8
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

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— 0°-180°

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