

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: P643844

Luminaire Tested: ML5615LSWFL559FS1E - 593WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P643844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5615LSWFL559FS1E - 593WB - 1200LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE BAFFLE TRIM
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1611.8 lumens
Efficiency: N/A
Efficacy: 120.3 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

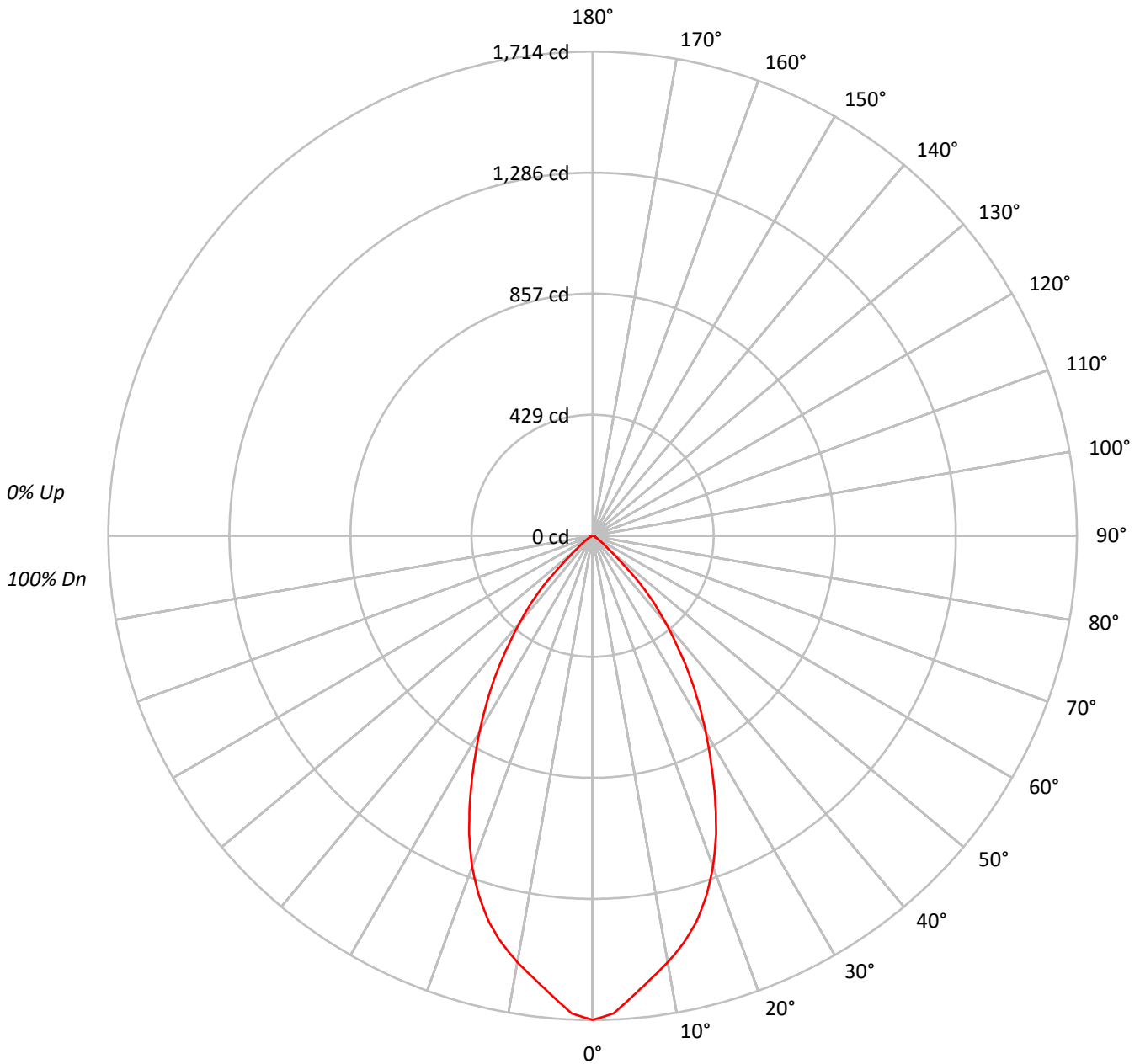
Input Watts (W): 13.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	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	86	83	80	79	79	79	79
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72	72	72	72
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67	67	67	67
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62	62	62	62
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58	58	58	58
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54	54	54	54
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50	50	50	50
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47	47	47	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	135297
5°	129546
10°	122859
15°	115740
20°	104723
25°	89297
30°	72868
35°	57089
40°	41333
45°	25677
50°	9186
55°	4941
60°	2495
65°	1887
70°	1985
75°	1769
80°	1955
85°	2627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25677 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	9.5
10°-20°	394.3	24.5
20°-30°	468.1	29.0
30°-40°	368.7	22.9
40°-50°	173.2	10.7
50°-60°	34.8	2.2
60°-70°	10.5	0.7
70°-80°	6.7	0.4
80°-90°	2.5	0.2
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°	1015.4	63.0
0°-40°	1384.1	85.9
0°-60°	1592.1	98.8
0°-90°	1611.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1611.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1714	
5°	1635	153
15°	1416	394
25°	1025	468
35°	592	369
45°	230	173
55°	36	35
65°	10	10
75°	6	7
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1713.9
2.5°	1692.3
5°	1634.8
7.5°	1581.6
10°	1532.7
12.5°	1479.5
15°	1416.2
17.5°	1337.2
20°	1246.6
22.5°	1141.6
25°	1025.2
27.5°	908.7
30°	799.4
32.5°	694.5
35°	592.4
37.5°	491.7
40°	401.1
42.5°	317.8
45°	230.0
47.5°	128.0
50°	74.8
52.5°	51.8
55°	35.9
57.5°	24.4
60°	15.8
62.5°	11.5
65°	10.1
67.5°	8.6
70°	8.6
72.5°	7.2
75°	5.8
77.5°	5.8
80°	4.3
82.5°	2.9
85°	2.9
87.5°	1.4
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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