

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: P641923

Luminaire Tested: ML5612LSWFL5597FS1E - 591WB - 1200LM - 3500K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641923
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-47)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 591WB - 1200LM - 3500K
Description: ML56 RR, 55D TIR OPTIC, 5" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1574.1 lumens
Efficiency: N/A
Efficacy: 95.4 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

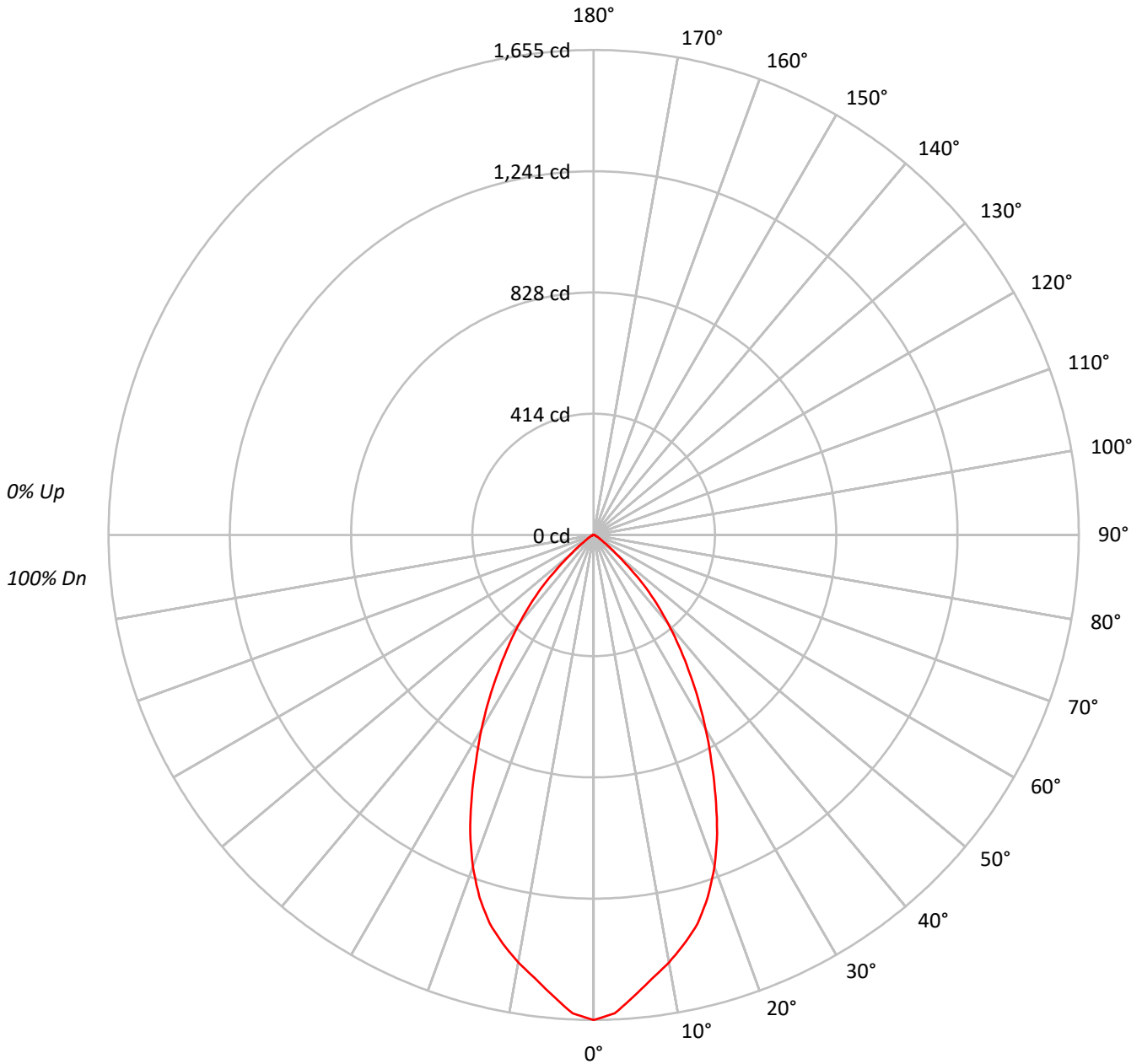
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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									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	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	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																											
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																											
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78																											
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72																											
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67																											
6	85	76	69	65	84	75	69	65	73	68	64	72	67	64	71	66	63	62																											
7	81	71	64	60	79	70	64	60	69	63	59	68	63	59	66	62	59	57																											
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53																											
9	73	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50																											
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47																											

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	130679
5°	125211
10°	118723
15°	112152
20°	101229
25°	85638
30°	69668
35°	54429
40°	40674
45°	26782
50°	12502
55°	5189
60°	3079
65°	1831
70°	1293
75°	1281
80°	1273
85°	1268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26782 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	9.4
10°-20°	381.6	24.2
20°-30°	449.5	28.6
30°-40°	354.1	22.5
40°-50°	183.4	11.7
50°-60°	40.8	2.6
60°-70°	10.6	0.7
70°-80°	4.4	0.3
80°-90°	1.9	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°	978.8	62.2
0°-40°	1333.0	84.7
0°-60°	1557.2	98.9
0°-90°	1574.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1574.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1655	
5°	1580	148
15°	1372	382
25°	983	449
35°	565	354
45°	240	183
55°	38	41
65°	10	11
75°	4	4
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1655.4
2.5°	1634.5
5°	1580.1
7.5°	1527.1
10°	1481.1
12.5°	1429.5
15°	1372.3
17.5°	1295.6
20°	1205.0
22.5°	1100.4
25°	983.2
27.5°	868.8
30°	764.3
32.5°	662.4
35°	564.8
37.5°	477.0
40°	394.7
42.5°	316.6
45°	239.9
47.5°	159.0
50°	101.8
52.5°	61.4
55°	37.7
57.5°	25.1
60°	19.5
62.5°	13.9
65°	9.8
67.5°	7.0
70°	5.6
72.5°	4.2
75°	4.2
77.5°	4.2
80°	2.8
82.5°	2.8
85°	1.4
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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