

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: P642071

Luminaire Tested: ML5612LSWFL5597FS1E - 594WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642071
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-55)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 594WB - 1200LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1501.7 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

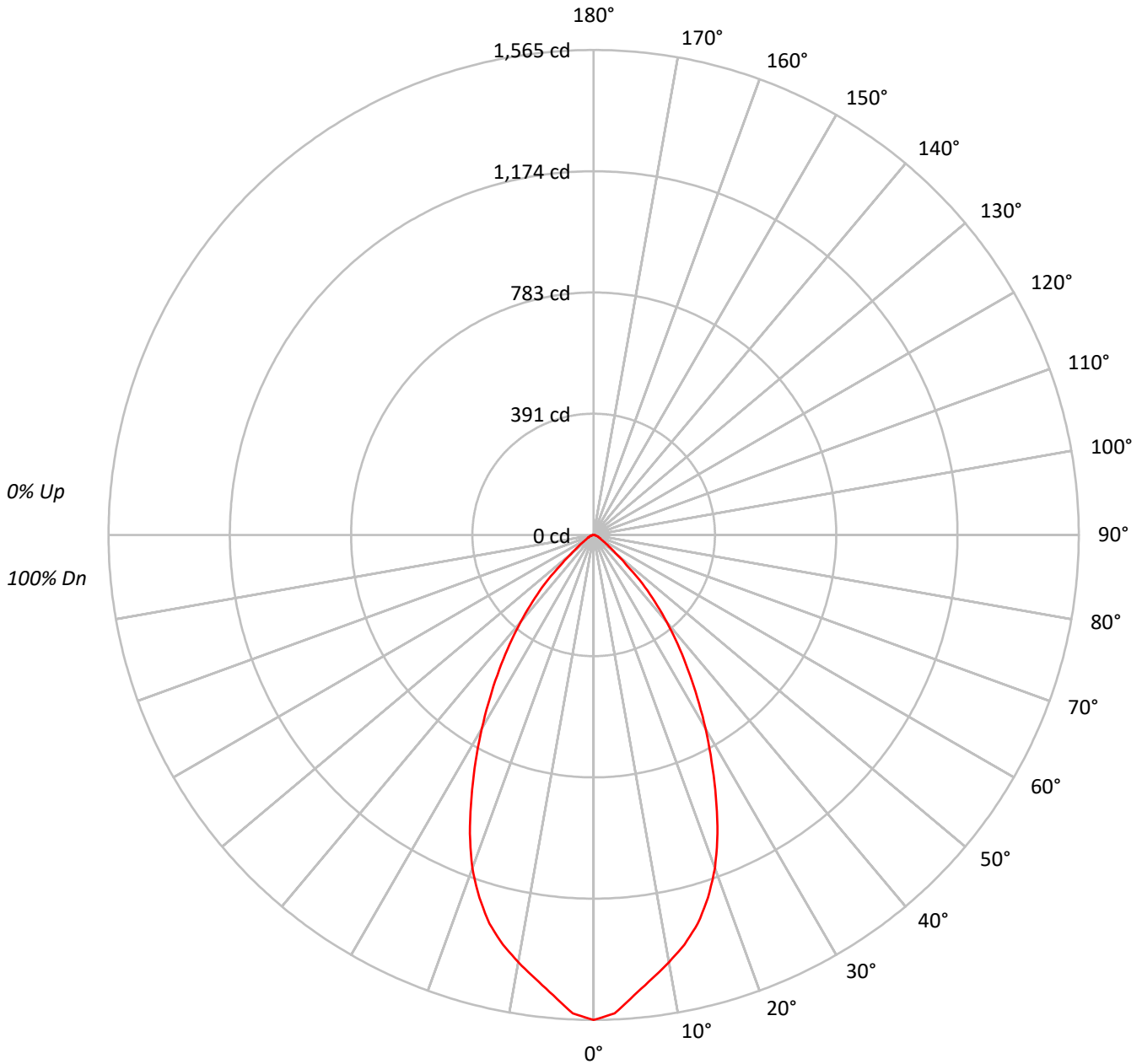
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	97	95	94	92			92
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85			85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	68	64	71	67	63	70	66	63	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53			53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49			49
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	55	51	47	46			46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	123558
5°	118174
10°	112230
15°	106113
20°	96096
25°	81222
30°	65740
35°	51047
40°	37706
45°	24773
50°	11839
55°	6358
60°	4373
65°	3456
70°	3047
75°	2013
80°	1182
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24773 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	9.3
10°-20°	361.4	24.1
20°-30°	426.1	28.4
30°-40°	331.8	22.1
40°-50°	169.4	11.3
50°-60°	46.2	3.1
60°-70°	19.1	1.3
70°-80°	7.3	0.5
80°-90°	0.7	0.0
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°	927.1	61.7
0°-40°	1258.9	83.8
0°-60°	1474.6	98.2
0°-90°	1501.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1565	
5°	1491	140
15°	1298	361
25°	932	426
35°	530	332
45°	222	169
55°	46	46
65°	18	19
75°	7	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1565.2
2.5°	1545.4
5°	1491.3
7.5°	1443.7
10°	1400.1
12.5°	1353.9
15°	1298.4
17.5°	1227.1
20°	1143.9
22.5°	1043.5
25°	932.5
27.5°	824.2
30°	721.2
32.5°	622.1
35°	529.7
37.5°	445.1
40°	365.9
42.5°	291.9
45°	221.9
47.5°	145.3
50°	96.4
52.5°	66.0
55°	46.2
57.5°	34.3
60°	27.7
62.5°	22.5
65°	18.5
67.5°	15.9
70°	13.2
72.5°	9.2
75°	6.6
77.5°	4.0
80°	2.6
82.5°	1.3
85°	0.0
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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(END OF REPORT)