

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: P642084

Luminaire Tested: ML5612LSWFL5597FS1E - 594WB - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642084
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 - 900LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE GIMBAL TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1410.2 lumens
Efficiency: N/A
Efficacy: 106.0 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

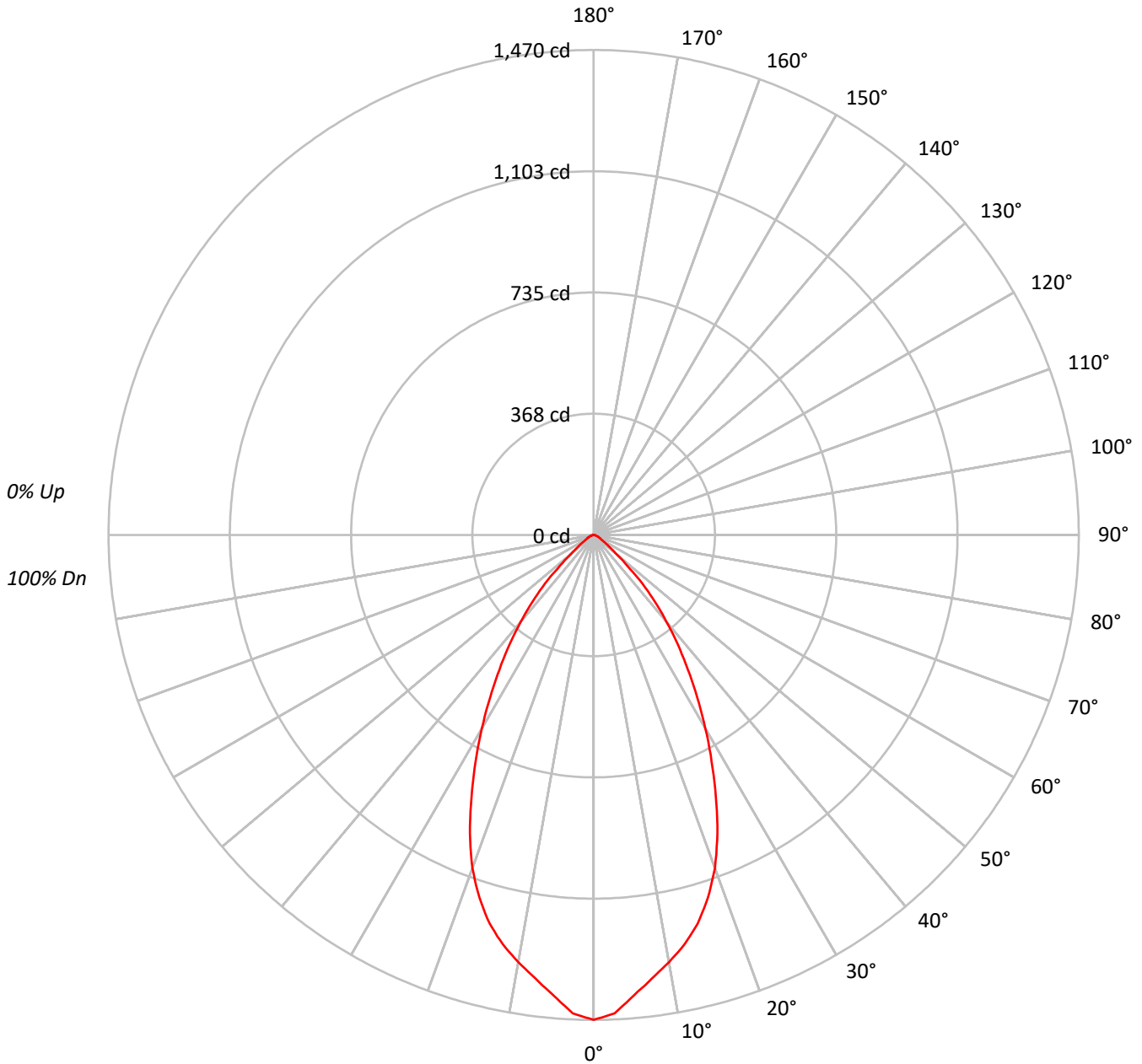
Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	116035
5°	110971
10°	105393
15°	99648
20°	90241
25°	76275
30°	61738
35°	47934
40°	35408
45°	23266
50°	11127
55°	5973
60°	4105
65°	3250
70°	2862
75°	1891
80°	1137
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 23266 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.1	9.3
10°-20°	339.4	24.1
20°-30°	400.2	28.4
30°-40°	311.6	22.1
40°-50°	159.1	11.3
50°-60°	43.4	3.1
60°-70°	17.9	1.3
70°-80°	6.9	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°	870.6	61.7
0°-40°	1182.2	83.8
0°-60°	1384.8	98.2
0°-90°	1410.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1410.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1470	
5°	1400	131
15°	1219	339
25°	876	400
35°	497	312
45°	208	159
55°	43	43
65°	17	18
75°	6	7
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	1469.9
2.5°	1451.3
5°	1400.4
7.5°	1355.8
10°	1314.8
12.5°	1271.4
15°	1219.3
17.5°	1152.3
20°	1074.2
22.5°	979.9
25°	875.7
27.5°	774.0
30°	677.3
32.5°	584.2
35°	497.4
37.5°	418.0
40°	343.6
42.5°	274.1
45°	208.4
47.5°	136.4
50°	90.6
52.5°	62.0
55°	43.4
57.5°	32.3
60°	26.0
62.5°	21.1
65°	17.4
67.5°	14.9
70°	12.4
72.5°	8.7
75°	6.2
77.5°	3.7
80°	2.5
82.5°	1.2
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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