

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: P642102

Luminaire Tested: ML5612LSWFL5597FS1E - 691WB - 1200LM - 3000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642102
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: ML5612LSWFL5597FS1E - 691WB - 1200LM - 3000K
Description: ML56 RR, 55D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1536.5 lumens
Efficiency: N/A
Efficacy: 93.1 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

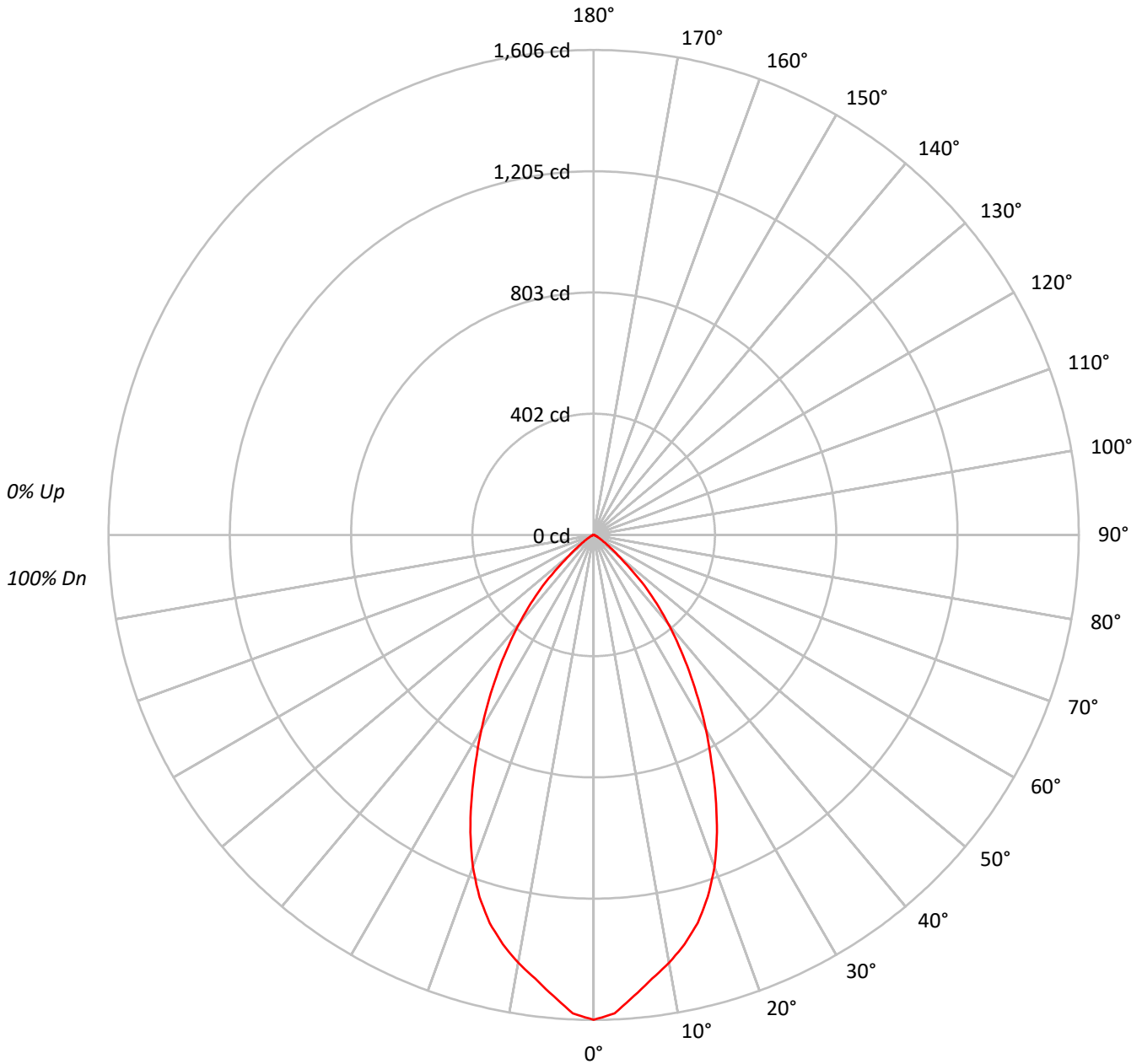
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	88030
5°	84333
10°	80086
15°	75483
20°	68238
25°	57771
30°	47039
35°	36821
40°	27416
45°	18436
50°	8921
55°	4416
60°	2237
65°	1414
70°	657
75°	572
80°	442
85°	881

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18436 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	9.3
10°-20°	370.3	24.1
20°-30°	436.4	28.4
30°-40°	344.3	22.4
40°-50°	180.7	11.8
50°-60°	46.2	3.0
60°-70°	11.0	0.7
70°-80°	2.9	0.2
80°-90°	1.3	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°	950.0	61.8
0°-40°	1294.3	84.2
0°-60°	1521.3	99.0
0°-90°	1536.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1536.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1606	
5°	1532	143
15°	1330	370
25°	955	436
35°	550	344
45°	238	181
55°	46	46
65°	11	11
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1605.8
2.5°	1585.5
5°	1532.5
7.5°	1482.2
10°	1438.7
12.5°	1388.5
15°	1330.0
17.5°	1256.7
20°	1169.7
22.5°	1066.5
25°	955.1
27.5°	843.7
30°	743.1
32.5°	644.0
35°	550.2
37.5°	463.3
40°	383.1
42.5°	308.4
45°	237.8
47.5°	159.0
50°	104.6
52.5°	70.6
55°	46.2
57.5°	29.9
60°	20.4
62.5°	14.9
65°	10.9
67.5°	6.8
70°	4.1
72.5°	2.7
75°	2.7
77.5°	2.7
80°	1.4
82.5°	1.4
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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