

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: P642104

Luminaire Tested: ML5612LSWFL5597FS1E - 691WB - 1200LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642104
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 - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1698.1 lumens
Efficiency: N/A
Efficacy: 102.9 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

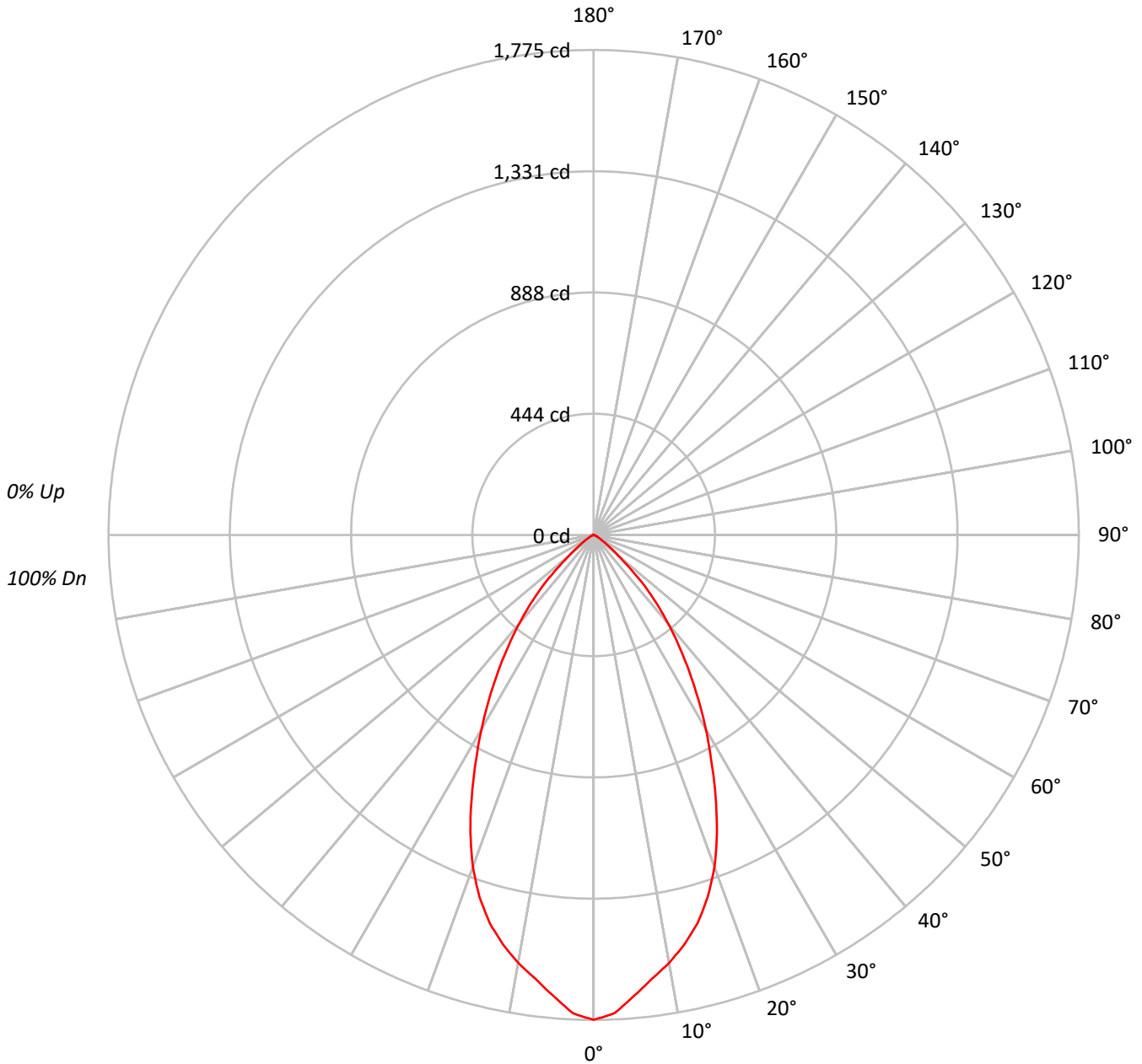
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	97295
5°	93209
10°	88520
15°	83428
20°	75420
25°	63850
30°	51995
35°	40696
40°	30300
45°	20374
50°	9859
55°	4884
60°	2467
65°	1557
70°	721
75°	635
80°	474
85°	943

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20374 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.5	9.3
10°-20°	409.3	24.1
20°-30°	482.3	28.4
30°-40°	380.6	22.4
40°-50°	199.7	11.8
50°-60°	51.1	3.0
60°-70°	12.2	0.7
70°-80°	3.2	0.2
80°-90°	1.4	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°	1050.0	61.8
0°-40°	1430.6	84.2
0°-60°	1681.4	99.0
0°-90°	1698.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1698.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1775	
5°	1694	158
15°	1470	409
25°	1056	482
35°	608	381
45°	263	200
55°	51	51
65°	12	12
75°	3	3
85°	2	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1774.8
2.5°	1752.3
5°	1693.8
7.5°	1638.2
10°	1590.2
12.5°	1534.6
15°	1470.0
17.5°	1388.9
20°	1292.8
22.5°	1178.7
25°	1055.6
27.5°	932.5
30°	821.4
32.5°	711.7
35°	608.1
37.5°	512.0
40°	423.4
42.5°	340.9
45°	262.8
47.5°	175.7
50°	115.6
52.5°	78.1
55°	51.1
57.5°	33.0
60°	22.5
62.5°	16.5
65°	12.0
67.5°	7.5
70°	4.5
72.5°	3.0
75°	3.0
77.5°	3.0
80°	1.5
82.5°	1.5
85°	1.5
87.5°	1.5
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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