

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: P642101

Luminaire Tested: ML5612LSWFL5597FS1E - 691WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642101
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 - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" DEADFRONT TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1493.7 lumens
Efficiency: N/A
Efficacy: 90.5 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

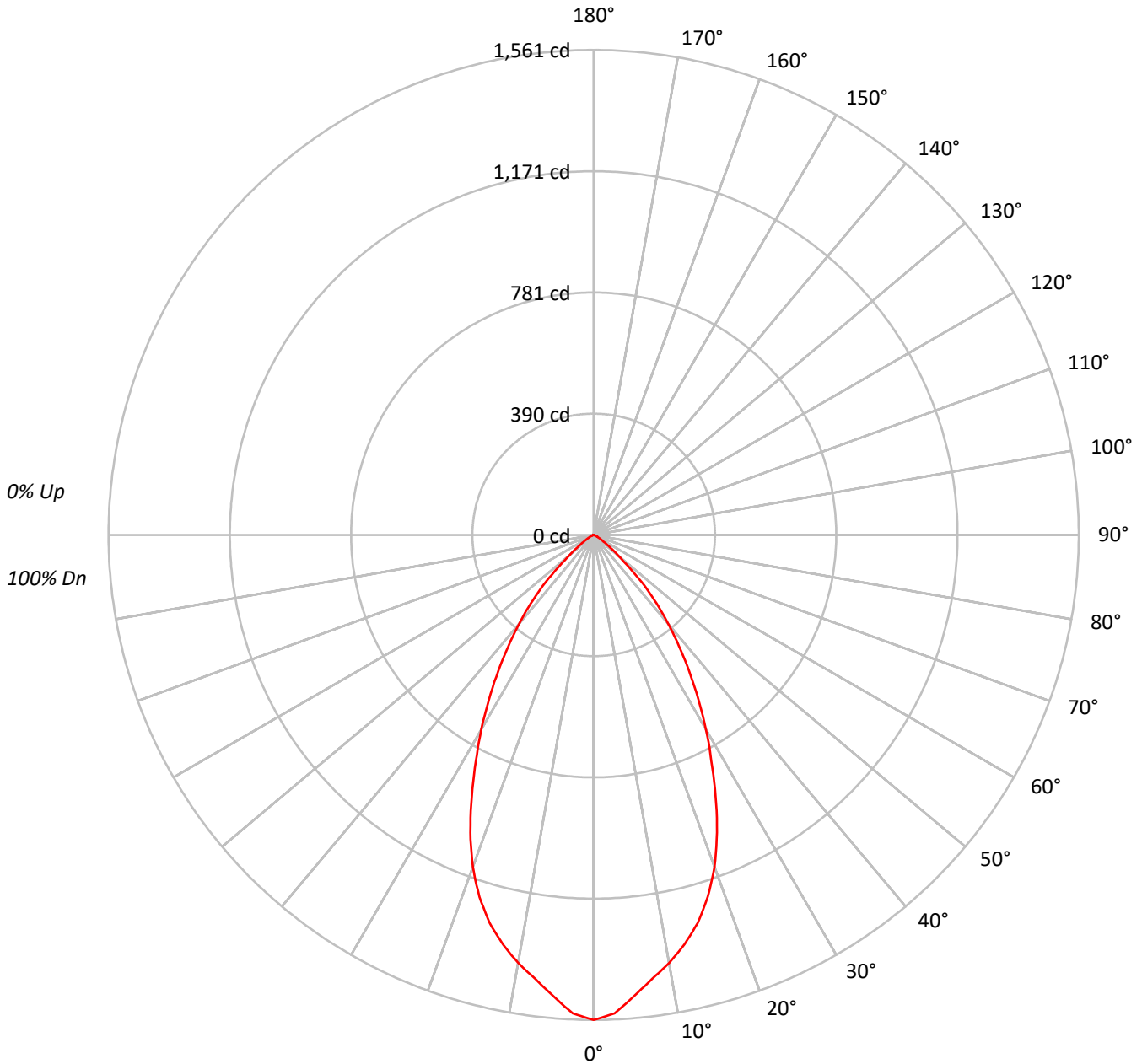
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				70				50				30				10			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	85585
5°	81989
10°	77865
15°	73389
20°	66342
25°	56163
30°	45735
35°	35797
40°	26657
45°	17917
50°	8673
55°	4291
60°	2171
65°	1375
70°	641
75°	551
80°	410
85°	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17917 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.4	9.3
10°-20°	360.0	24.1
20°-30°	424.2	28.4
30°-40°	334.8	22.4
40°-50°	175.7	11.8
50°-60°	44.9	3.0
60°-70°	10.7	0.7
70°-80°	2.8	0.2
80°-90°	1.2	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°	923.6	61.8
0°-40°	1258.4	84.2
0°-60°	1479.0	99.0
0°-90°	1493.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1493.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1561	
5°	1490	139
15°	1293	360
25°	928	424
35°	535	335
45°	231	176
55°	45	45
65°	11	11
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1561.2
2.5°	1541.4
5°	1489.9
7.5°	1441.0
10°	1398.8
12.5°	1349.9
15°	1293.1
17.5°	1221.8
20°	1137.2
22.5°	1036.9
25°	928.5
27.5°	820.2
30°	722.5
32.5°	626.1
35°	534.9
37.5°	450.4
40°	372.5
42.5°	299.8
45°	231.1
47.5°	154.5
50°	101.7
52.5°	68.7
55°	44.9
57.5°	29.1
60°	19.8
62.5°	14.5
65°	10.6
67.5°	6.6
70°	4.0
72.5°	2.6
75°	2.6
77.5°	2.6
80°	1.3
82.5°	1.3
85°	1.3
87.5°	1.3
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)