

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: P642251

Luminaire Tested: ML5612LSWFL5597FS1E - 696WB - 1200LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-69)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 696WB - 1200LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1499.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

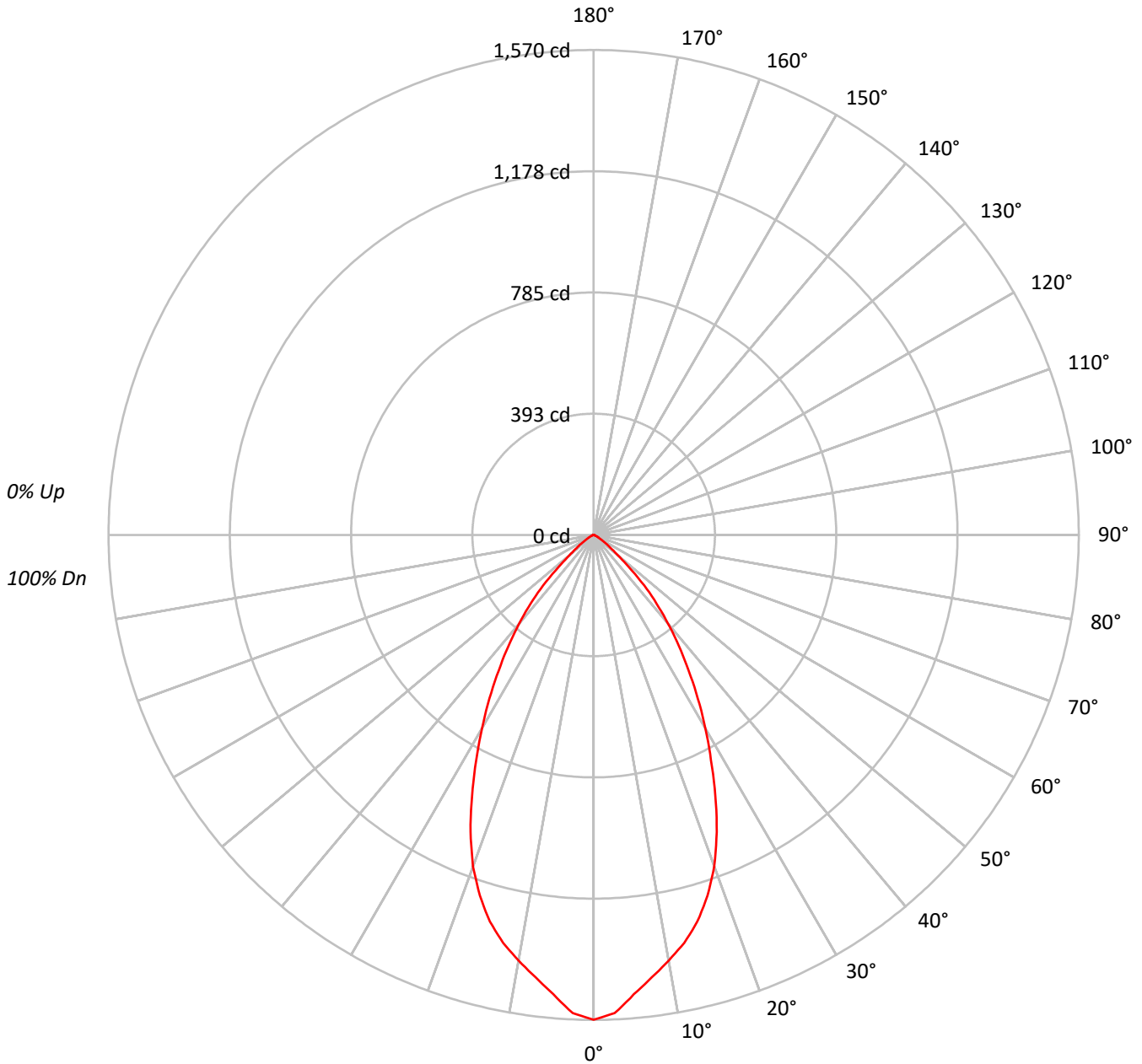
Input Watts (W): 16.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	111	108	106	103	104	102	100	100	99	97	97	96	94	93				93															
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85				85															
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78				78															
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72				72															
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66				66															
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61				61															
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57				57															
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53				53															
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49				49															
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46				46															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	86046
5°	82159
10°	77888
15°	73559
20°	66593
25°	56344
30°	45748
35°	35811
40°	26850
45°	17924
50°	8673
55°	4549
60°	2313
65°	1544
70°	641
75°	551
80°	410
85°	818

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17924 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	9.3
10°-20°	360.8	24.1
20°-30°	425.6	28.4
30°-40°	335.7	22.4
40°-50°	175.9	11.7
50°-60°	46.0	3.1
60°-70°	11.5	0.8
70°-80°	2.8	0.2
80°-90°	0.9	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°	926.2	61.8
0°-40°	1261.9	84.2
0°-60°	1483.8	99.0
0°-90°	1499.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1499.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1570	
5°	1493	140
15°	1296	361
25°	932	426
35°	535	336
45°	231	176
55°	48	46
65°	12	12
75°	3	3
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1569.6
2.5°	1549.8
5°	1493.0
7.5°	1444.1
10°	1399.2
12.5°	1352.9
15°	1296.1
17.5°	1224.8
20°	1141.5
22.5°	1041.1
25°	931.5
27.5°	823.1
30°	722.7
32.5°	627.6
35°	535.1
37.5°	453.2
40°	375.2
42.5°	301.2
45°	231.2
47.5°	153.3
50°	101.7
52.5°	68.7
55°	47.6
57.5°	30.4
60°	21.1
62.5°	15.9
65°	11.9
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°	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)