

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: P642252

Luminaire Tested: ML5612LSWFL5597FS1E - 696WB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642252  
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 - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1541.9 lumens  
Efficiency: N/A  
Efficacy: 93.4 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

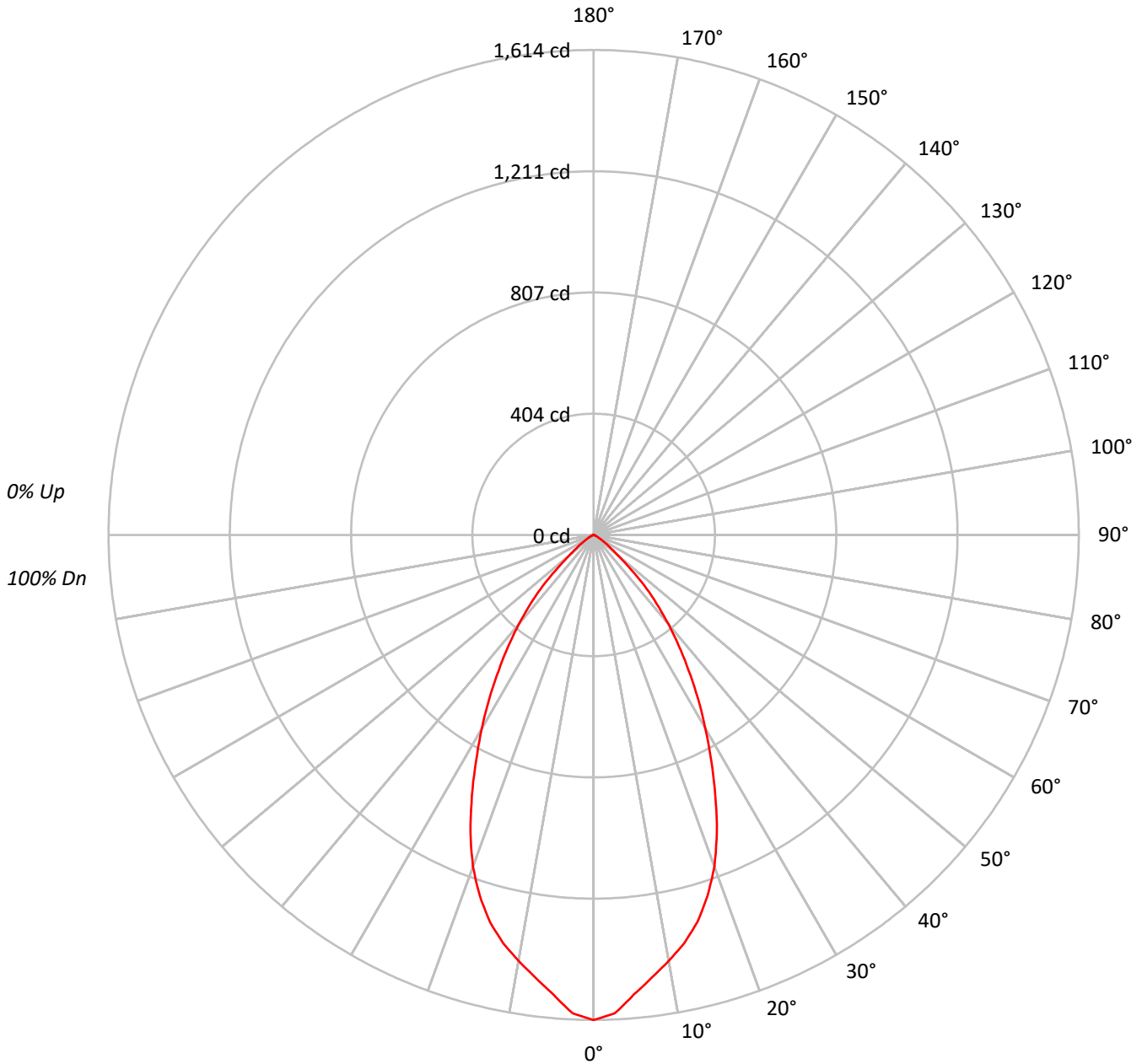
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	80	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	65	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°	88507
5°	84503
10°	80114
15°	75664
20°	68501
25°	57953
30°	47058
35°	36834
40°	27616
45°	18436
50°	8921
55°	4674
60°	2379
65°	1583
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°	143.7	9.3
10°-20°	371.2	24.1
20°-30°	437.8	28.4
30°-40°	345.3	22.4
40°-50°	180.9	11.7
50°-60°	47.3	3.1
60°-70°	11.8	0.8
70°-80°	2.9	0.2
80°-90°	1.0	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°	952.6	61.8
0°-40°	1298.0	84.2
0°-60°	1526.2	99.0
0°-90°	1541.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1541.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1614	
5°	1536	144
15°	1333	371
25°	958	438
35°	550	345
45°	238	181
55°	49	47
65°	12	12
75°	3	3
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1614.5
2.5°	1594.1
5°	1535.6
7.5°	1485.4
10°	1439.2
12.5°	1391.6
15°	1333.2
17.5°	1259.8
20°	1174.2
22.5°	1070.9
25°	958.1
27.5°	846.6
30°	743.4
32.5°	645.5
35°	550.4
37.5°	466.1
40°	385.9
42.5°	309.8
45°	237.8
47.5°	157.6
50°	104.6
52.5°	70.7
55°	48.9
57.5°	31.3
60°	21.7
62.5°	16.3
65°	12.2
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°	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)