

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: P642236

Luminaire Tested: ML5612LSWFL5597FS1E - 694WB - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642236  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-67)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 694WB - 1200LM - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1501.6 lumens  
Efficiency: N/A  
Efficacy: 91.0 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

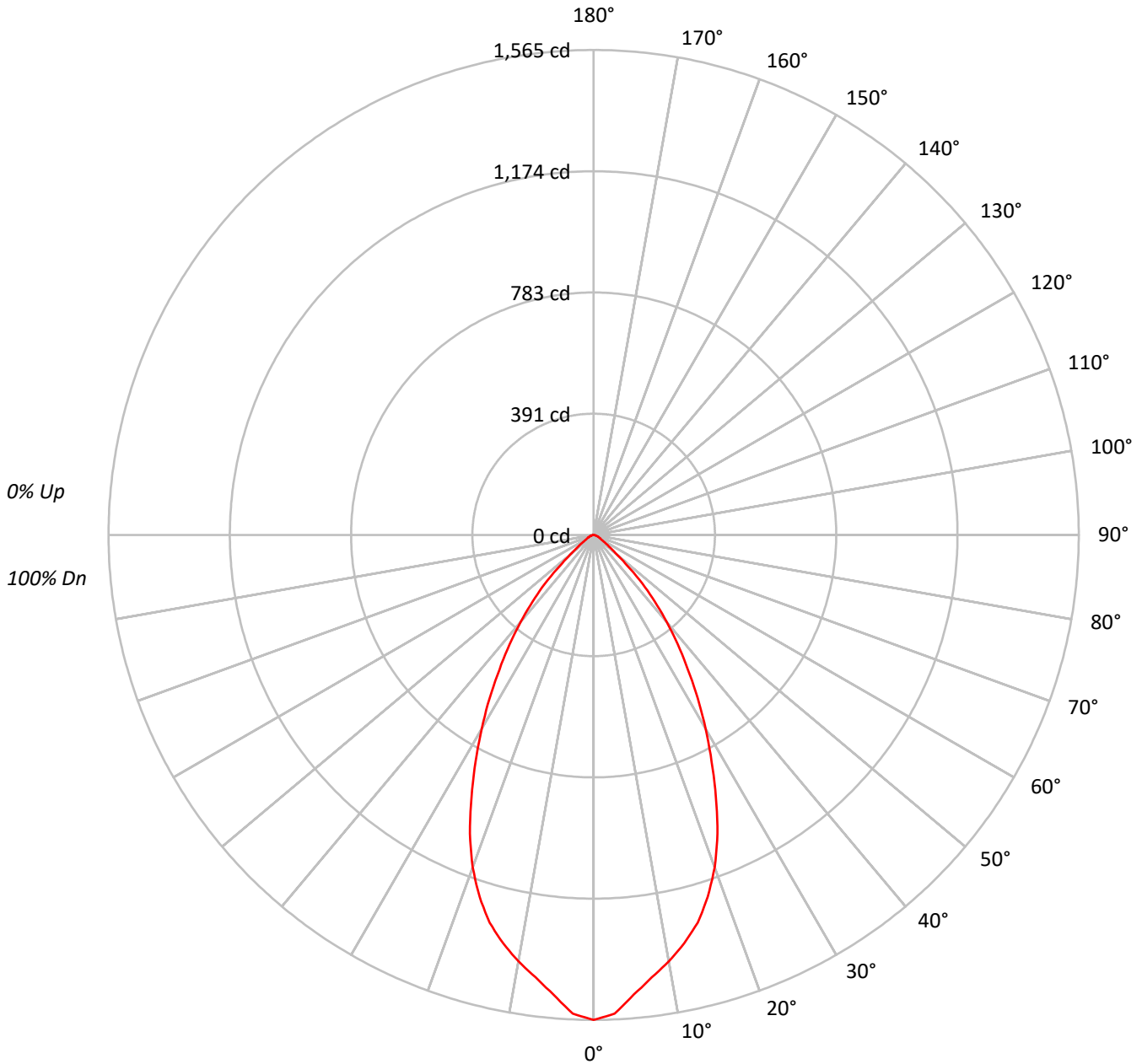
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	108	105	103	104	102	100	100	98	97	97	95	94	92	92	92	92
2	107	101	97	93	105	100	96	92	96	93	90	93	91	88	91	88	87	85	85	85	85
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78	78
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72	72	72	72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66	66	66	66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61	61	61	61
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57	57	57	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53	53	53	53
9	72	62	56	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49	49	49	49
10	69	58	52	48	68	58	52	48	57	51	48	56	51	48	55	51	47	46	46	46	46

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	85799
5°	81912
10°	77787
15°	73536
20°	66576
25°	56404
30°	45653
35°	35442
40°	26185
45°	17203
50°	8332
55°	4416
60°	3037
65°	2400
70°	2116
75°	1398
80°	821
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17203 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.4	9.3
10°-20°	360.5	24.0
20°-30°	426.0	28.4
30°-40°	332.2	22.1
40°-50°	169.8	11.3
50°-60°	46.3	3.1
60°-70°	19.1	1.3
70°-80°	7.6	0.5
80°-90°	0.7	0.0
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°	925.9	61.7
0°-40°	1258.1	83.8
0°-60°	1474.2	98.2
0°-90°	1501.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1565	
5°	1488	139
15°	1296	361
25°	932	426
35°	530	332
45°	222	170
55°	46	46
65°	18	19
75°	7	8
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1565.1
2.5°	1546.6
5°	1488.5
7.5°	1439.7
10°	1397.4
12.5°	1349.8
15°	1295.7
17.5°	1224.4
20°	1141.2
22.5°	1043.4
25°	932.5
27.5°	824.2
30°	721.2
32.5°	624.7
35°	529.6
37.5°	445.1
40°	365.9
42.5°	291.9
45°	221.9
47.5°	146.6
50°	97.7
52.5°	66.0
55°	46.2
57.5°	34.3
60°	27.7
62.5°	22.5
65°	18.5
67.5°	15.8
70°	13.2
72.5°	9.2
75°	6.6
77.5°	5.3
80°	2.6
82.5°	1.3
85°	0.0
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)