

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: P642192

Luminaire Tested: ML5612LSWFL5597FS1E - 693TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-66)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 693TBZB - 1200LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 6" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1506.6 lumens  
Efficiency: N/A  
Efficacy: 91.3 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

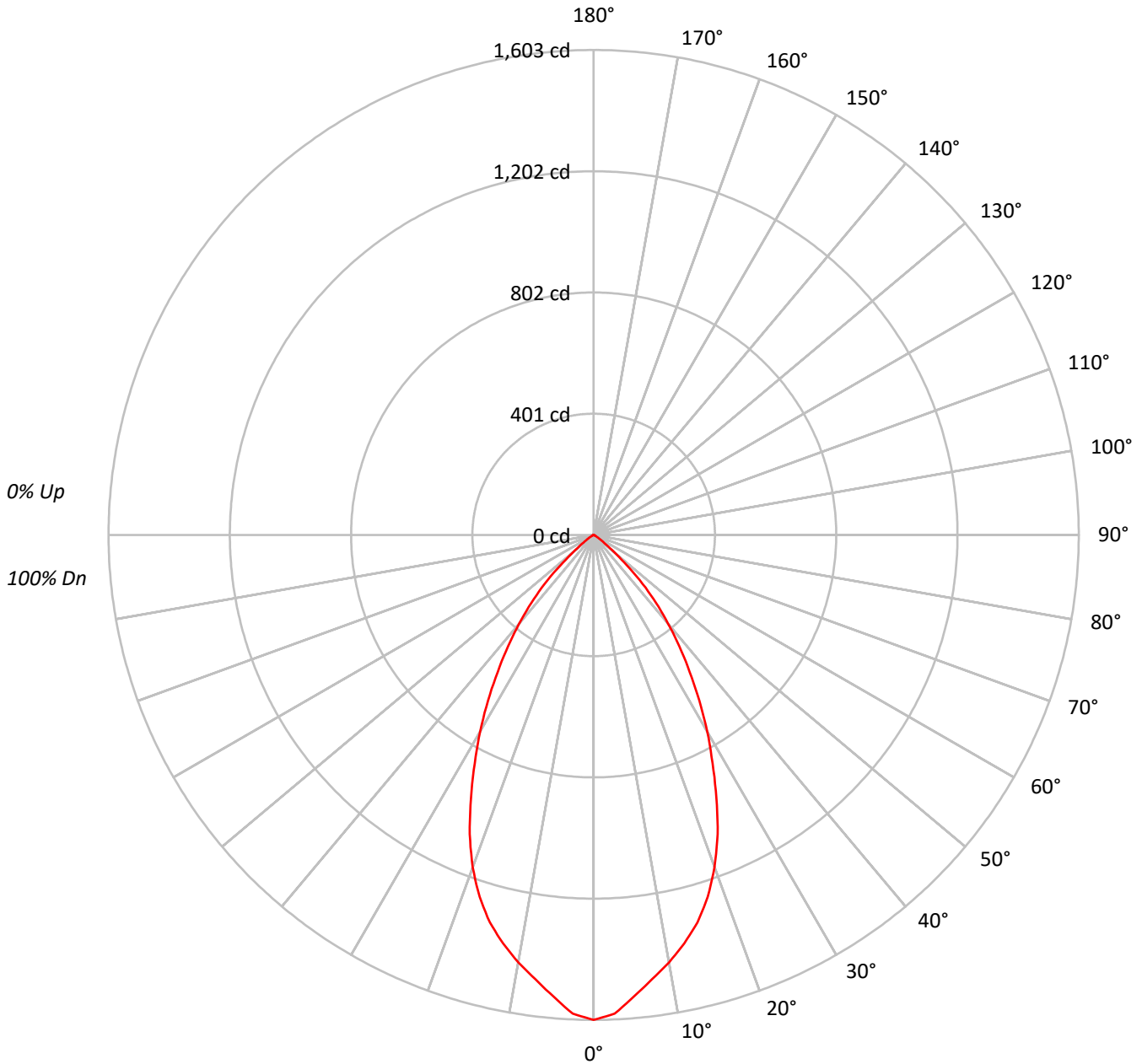
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
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	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	107	102	98	94	105	100	97	93	97	94	91	94	92	89	91	89	87	86			86																
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79			79																
4	96	88	82	78	94	87	81	77	85	80	76	83	79	75	81	77	74	73			73																
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	67			67																
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62			62																
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58			58																
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	55	54			54																
9	73	63	57	52	72	62	56	52	61	56	52	60	56	52	60	55	52	50			50																
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47			47																

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

	0°
0°	87877
5°	84250
10°	79858
15°	75250
20°	68157
25°	58013
30°	47469
35°	37002
40°	27416
45°	17800
50°	7411
55°	2724
60°	1195
65°	350
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17800 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.2	9.5
10°-20°	369.3	24.5
20°-30°	438.5	29.1
30°-40°	346.2	23.0
40°-50°	174.3	11.6
50°-60°	31.4	2.1
60°-70°	3.6	0.2
70°-80°	0.0	0.0
80°-90°	0.0	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°	950.9	63.1
0°-40°	1297.2	86.1
0°-60°	1502.9	99.8
0°-90°	1506.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1506.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1603	
5°	1531	143
15°	1326	369
25°	959	438
35°	553	346
45°	230	174
55°	28	31
65°	3	4
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1603.0
2.5°	1584.0
5°	1531.0
7.5°	1480.8
10°	1434.6
12.5°	1383.0
15°	1325.9
17.5°	1253.9
20°	1168.3
22.5°	1070.5
25°	959.1
27.5°	850.4
30°	749.9
32.5°	649.4
35°	552.9
37.5°	464.6
40°	383.1
42.5°	304.3
45°	229.6
47.5°	148.1
50°	86.9
52.5°	46.2
55°	28.5
57.5°	19.0
60°	10.9
62.5°	5.4
65°	2.7
67.5°	1.4
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
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)