

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: P642162

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

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642162  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-64)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 693BB - 1200LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 6" BLACK BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

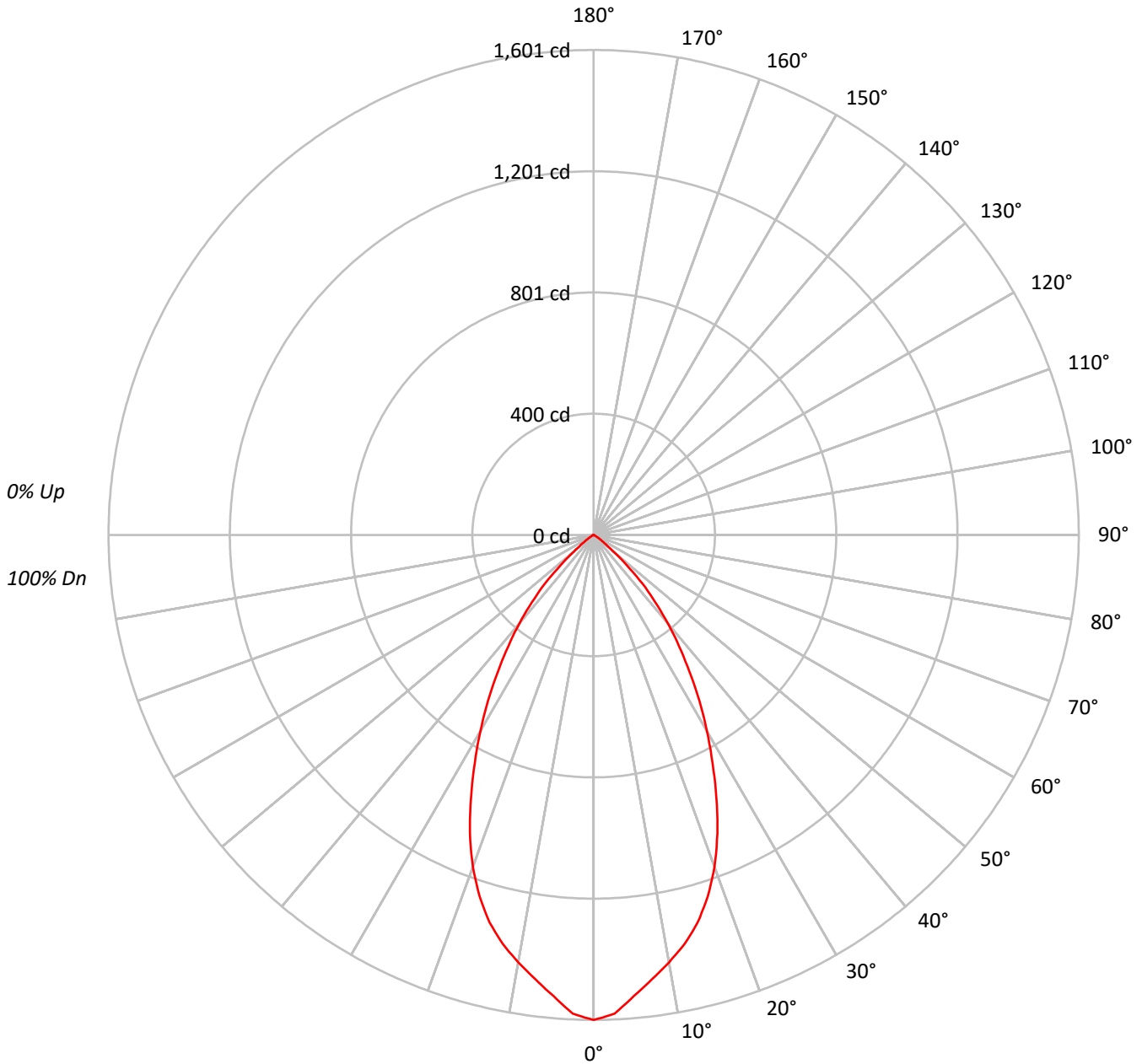
Lumens per Lamp: N/A  
Luminaire Lumens: 1501.2 lumens  
Efficiency: N/A  
Efficacy: 91.0 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (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			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	90	85	99	93	89	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	75	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	61	69	64	60	68	63	60	67	63	60	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	53	72	62	56	52	61	56	52	61	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°	87778
5°	84074
10°	79752
15°	75216
20°	68040
25°	57965
30°	47324
35°	36841
40°	27237
45°	17707
50°	7300
55°	2724
60°	1195
65°	182
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17707 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.0	9.5
10°-20°	369.0	24.6
20°-30°	437.6	29.2
30°-40°	344.9	23.0
40°-50°	173.3	11.5
50°-60°	30.7	2.0
60°-70°	2.7	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°	949.6	63.3
0°-40°	1294.5	86.2
0°-60°	1498.5	99.8
0°-90°	1501.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1501.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1601	
5°	1528	143
15°	1325	369
25°	958	438
35°	550	345
45°	228	173
55°	28	31
65°	1	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1601.2
2.5°	1582.2
5°	1527.8
7.5°	1478.9
10°	1432.7
12.5°	1383.8
15°	1325.3
17.5°	1251.9
20°	1166.3
22.5°	1067.0
25°	958.3
27.5°	849.6
30°	747.6
32.5°	648.4
35°	550.5
37.5°	462.2
40°	380.6
42.5°	301.8
45°	228.4
47.5°	148.2
50°	85.6
52.5°	44.9
55°	28.5
57.5°	17.7
60°	10.9
62.5°	4.1
65°	1.4
67.5°	0.0
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)