

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: P642012

Luminaire Tested: ML5612LSWFL5597FS1E - 593TBZB - 1200LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 593TBZB - 1200LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

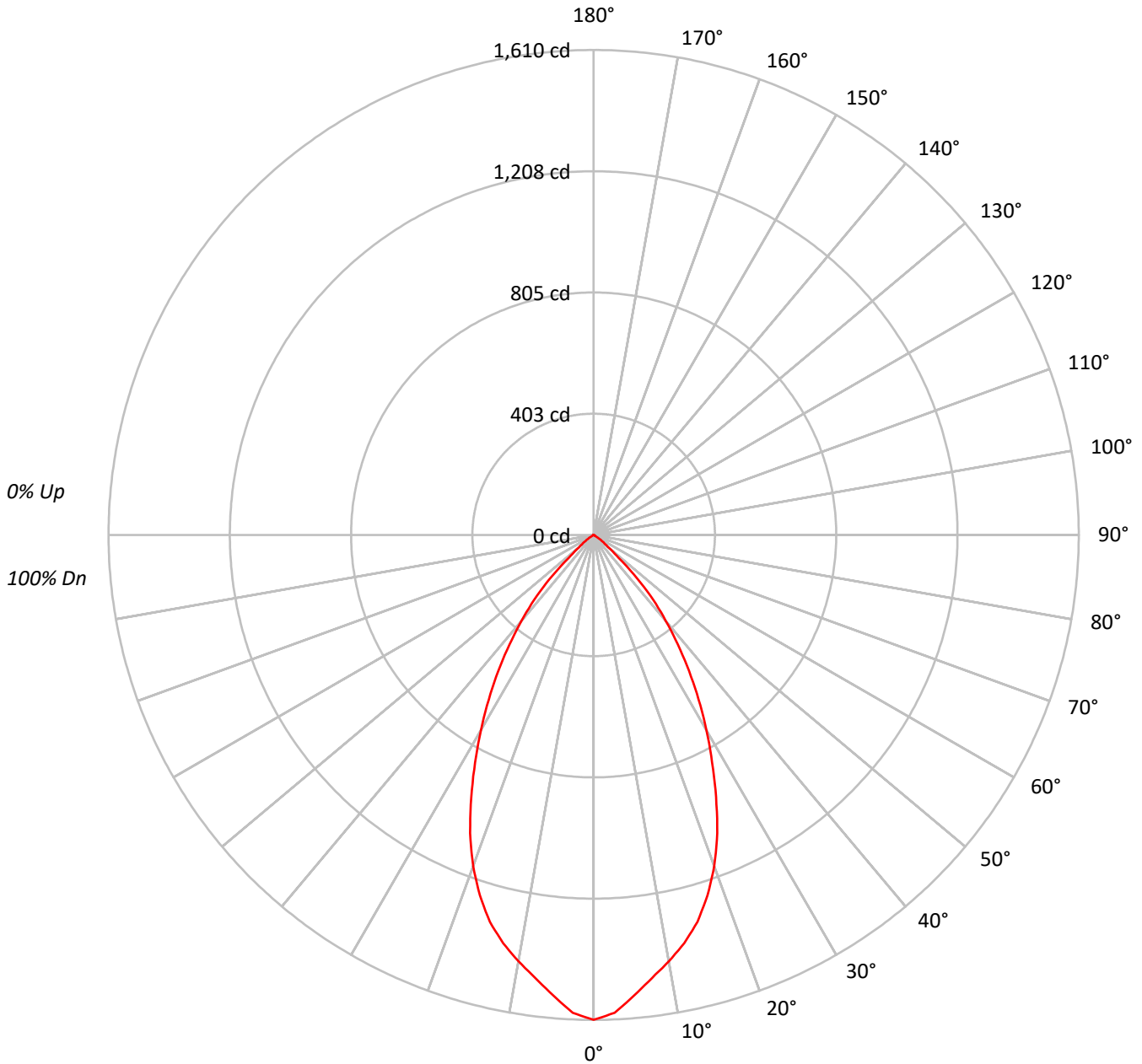
Lumens per Lamp: N/A  
Luminaire Lumens: 1480.8 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	106	111	108	106	104	104	102	101		101	99	98		97	96	95	93
2	107	102	98	95	105	101	97	94	97	94	92		94	92	90		92	90	88	86
3	102	95	90	86	100	94	89	85	91	87	84		89	85	82		86	83	81	79
4	96	88	83	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	81	76	71	80	75	71		78	73	70		76	72	69	68
6	86	77	71	66	85	76	70	66	75	69	65		73	68	65		72	68	65	63
7	82	72	66	61	80	71	65	61	70	65	61		69	64	60		68	63	60	59
8	77	67	61	57	76	67	61	57	66	60	57		65	60	56		64	59	56	55
9	73	63	57	53	72	63	57	53	62	57	53		61	56	53		60	56	52	51
10	70	60	54	50	69	59	54	50	58	53	49		58	53	49		57	52	49	48

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

	0°
0°	127071
5°	121637
10°	115204
15°	108687
20°	98255
25°	83652
30°	68228
35°	53148
40°	38355
45°	23054
50°	7835
55°	3551
60°	1074
65°	262
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23054 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.5	9.7
10°-20°	370.1	25.0
20°-30°	438.9	29.6
30°-40°	343.7	23.2
40°-50°	157.1	10.6
50°-60°	25.7	1.7
60°-70°	1.8	0.1
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°	952.5	64.3
0°-40°	1296.1	87.5
0°-60°	1478.9	99.9
0°-90°	1480.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1480.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1610	
5°	1535	143
15°	1330	370
25°	960	439
35°	552	344
45°	206	157
55°	26	26
65°	1	2
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1609.7
2.5°	1588.0
5°	1535.0
7.5°	1483.4
10°	1437.2
12.5°	1388.3
15°	1329.9
17.5°	1255.2
20°	1169.6
22.5°	1071.8
25°	960.4
27.5°	851.7
30°	748.5
32.5°	648.0
35°	551.5
37.5°	457.8
40°	372.2
42.5°	292.1
45°	206.5
47.5°	112.7
50°	63.8
52.5°	40.8
55°	25.8
57.5°	14.9
60°	6.8
62.5°	2.7
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)