

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: P642062

Luminaire Tested: ML5612LSWFL5597FS1E - 594TBZB - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642062  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-57)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 594TBZB - 600LM - 3000K  
Description: ML56 RR, 55D TIR OPTIC, 5" TUSCON BRONZE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 994.5 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

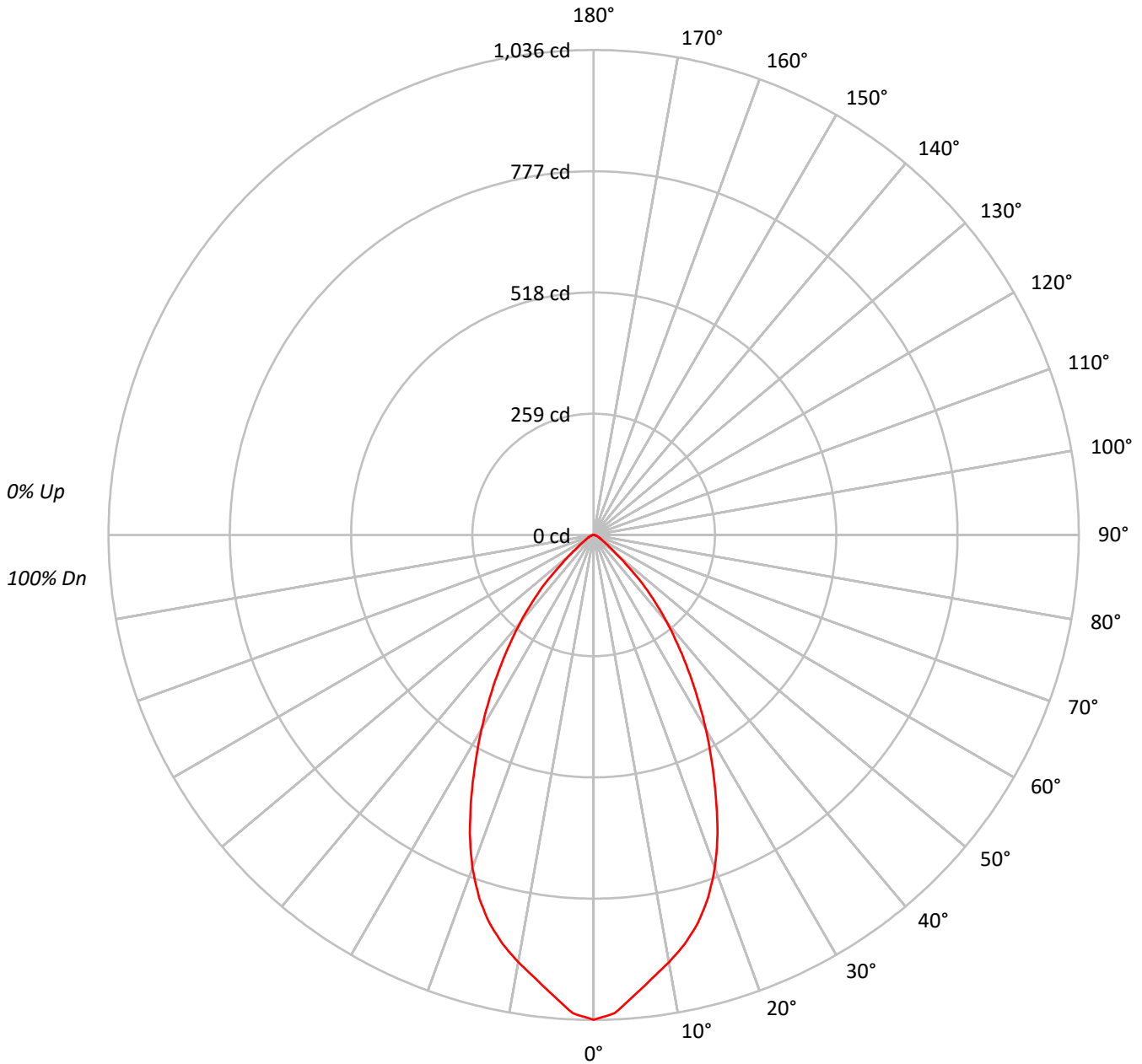
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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

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

	0°
0°	81767
5°	78268
10°	74267
15°	70211
20°	63577
25°	53803
30°	43626
35°	33893
40°	24969
45°	16411
50°	7946
55°	4211
60°	2763
65°	2279
70°	1823
75°	1342
80°	773
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16411 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.4	9.3
10°-20°	239.2	24.1
20°-30°	282.3	28.4
30°-40°	220.0	22.1
40°-50°	112.5	11.3
50°-60°	30.6	3.1
60°-70°	12.4	1.2
70°-80°	4.7	0.5
80°-90°	0.5	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°	613.9	61.7
0°-40°	833.8	83.8
0°-60°	976.9	98.2
0°-90°	994.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	994.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1036	
5°	988	92
15°	859	239
25°	618	282
35°	352	220
45°	147	112
55°	31	31
65°	12	12
75°	4	5
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1035.8
2.5°	1022.7
5°	987.7
7.5°	955.4
10°	926.5
12.5°	895.9
15°	859.1
17.5°	812.8
20°	756.8
22.5°	691.1
25°	617.7
27.5°	545.9
30°	478.6
32.5°	412.9
35°	351.7
37.5°	294.0
40°	242.3
42.5°	193.3
45°	147.0
47.5°	97.1
50°	64.7
52.5°	43.7
55°	30.6
57.5°	22.7
60°	17.5
62.5°	14.9
65°	12.2
67.5°	10.5
70°	7.9
72.5°	6.1
75°	4.4
77.5°	2.6
80°	1.7
82.5°	0.9
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)