

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: P641674

Luminaire Tested: ML5612LSVWFL97FS1E - 593TBZB - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641674  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-100)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 593TBZB - 600LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" TUSCON BRONZE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

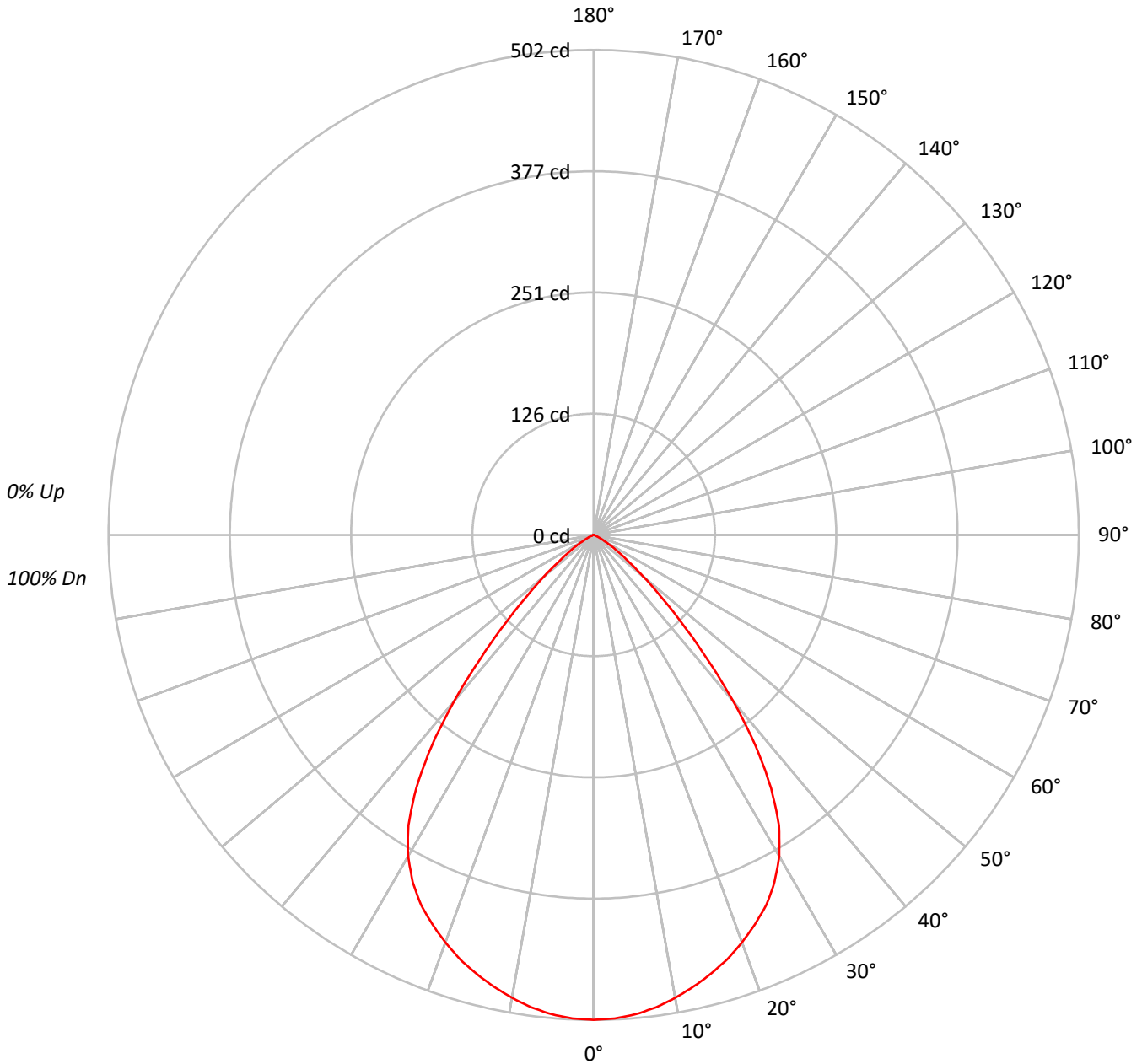
Lumens per Lamp: N/A  
Luminaire Lumens: 709.6 lumens  
Efficiency: N/A  
Efficacy: 68.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.12  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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																	
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	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	107	104	110	107	105	103	103	101	100	100	98	97	96	95	94	92																											
2	106	101	96	92	104	99	95	91	96	92	89	92	90	87	90	87	85	84																											
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																											
4	94	85	79	74	92	84	78	73	81	76	72	79	75	71	77	74	71	69																											
5	88	78	72	67	86	77	71	66	75	70	66	74	69	65	72	68	64	63																											
6	83	72	65	61	81	71	65	60	70	64	60	68	63	59	67	62	59	57																											
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53																											
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48																											
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45																											
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																											

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

	0°
0°	39628
5°	39471
10°	38997
15°	38411
20°	37702
25°	36818
30°	35003
35°	30848
40°	23124
45°	14357
50°	8191
55°	4390
60°	2131
65°	897
70°	439
75°	305
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14357 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.2	6.6
10°-20°	132.5	18.7
20°-30°	193.6	27.3
30°-40°	195.4	27.5
40°-50°	103.1	14.5
50°-60°	30.9	4.4
60°-70°	5.9	0.8
70°-80°	1.0	0.1
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°	373.2	52.6
0°-40°	568.7	80.1
0°-60°	702.6	99.0
0°-90°	709.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	502	
5°	498	47
15°	470	132
25°	423	194
35°	320	195
45°	129	103
55°	32	31
65°	5	6
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	502.0
2.5°	501.0
5°	498.1
7.5°	493.3
10°	486.5
12.5°	478.7
15°	470.0
17.5°	460.4
20°	448.8
22.5°	436.2
25°	422.7
27.5°	405.2
30°	384.0
32.5°	356.9
35°	320.1
37.5°	275.6
40°	224.4
42.5°	173.1
45°	128.6
47.5°	93.8
50°	66.7
52.5°	46.4
55°	31.9
57.5°	21.3
60°	13.5
62.5°	8.7
65°	4.8
67.5°	2.9
70°	1.9
72.5°	1.0
75°	1.0
77.5°	1.0
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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Scaled Data Report



(END OF REPORT)