

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: P641613

Luminaire Tested: ML5612LSVWFL97FS1E - 592SC - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-94)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 592SC - 600LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 5" SPECULAR CLEAR TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 908.4 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.95  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

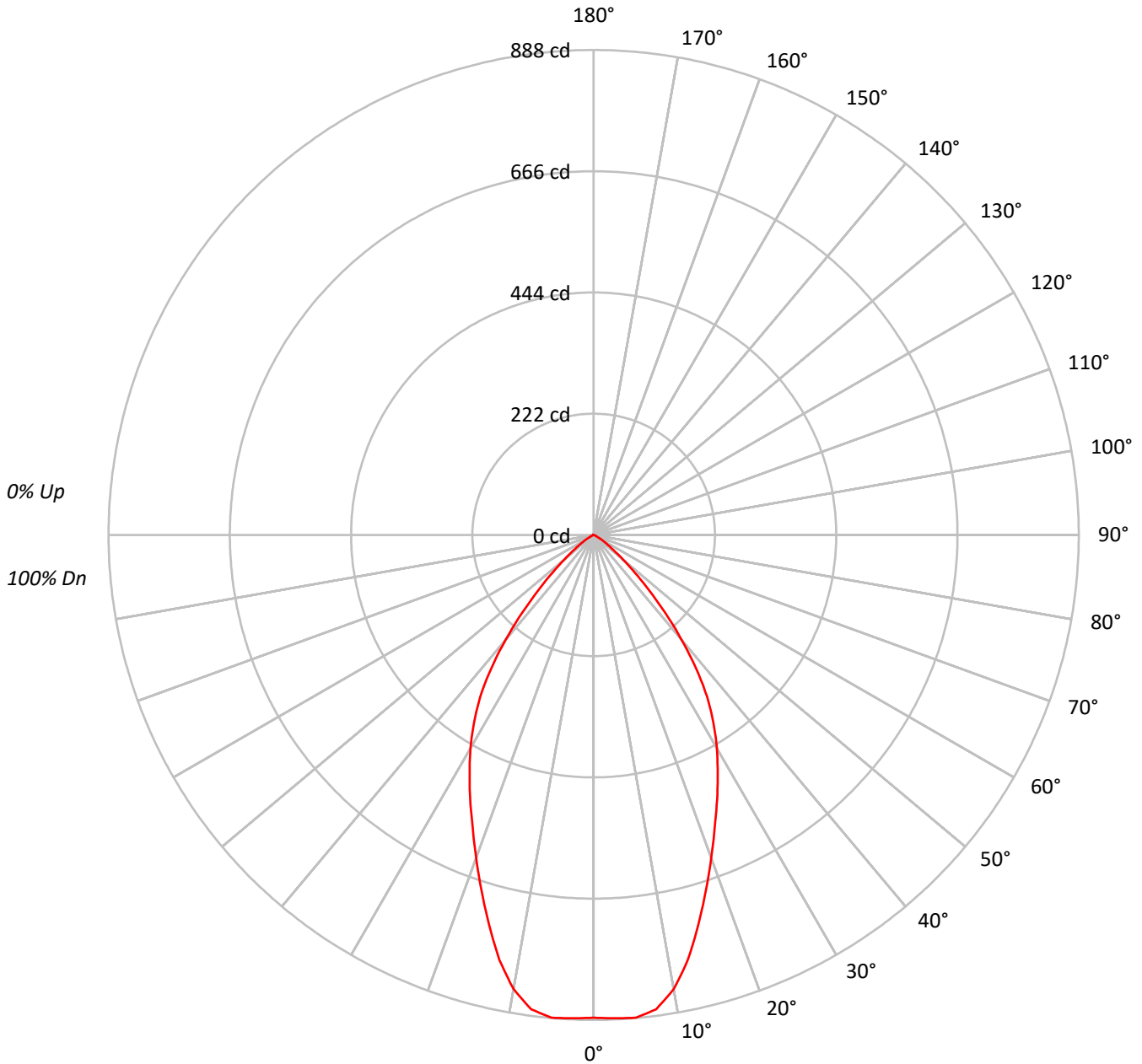
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93																			
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85																			
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	79	78																			
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71																			
5	90	81	74	69	88	80	74	69	78	73	69	76	71	68	74	70	67	66																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	65	62	61																			
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56																			
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52																			
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48																			
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45																			

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

	0°
0°	69784
5°	70336
10°	67694
15°	60428
20°	52832
25°	46565
30°	41110
35°	34895
40°	25742
45°	15942
50°	8609
55°	4322
60°	1989
65°	841
70°	415
75°	275
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15942 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.4	9.2
10°-20°	206.3	22.7
20°-30°	245.8	27.1
30°-40°	221.9	24.4
40°-50°	114.1	12.6
50°-60°	31.0	3.4
60°-70°	5.1	0.6
70°-80°	0.9	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°	535.4	58.9
0°-40°	757.3	83.4
0°-60°	902.4	99.3
0°-90°	908.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	884	
5°	888	83
15°	739	206
25°	535	246
35°	362	222
45°	143	114
55°	31	31
65°	4	5
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	884.0
2.5°	885.8
5°	887.6
7.5°	876.0
10°	844.5
12.5°	796.9
15°	739.4
17.5°	682.8
20°	628.9
22.5°	578.6
25°	534.6
27.5°	491.4
30°	451.0
32.5°	407.9
35°	362.1
37.5°	308.2
40°	249.8
42.5°	194.1
45°	142.8
47.5°	102.4
50°	70.1
52.5°	46.7
55°	31.4
57.5°	20.7
60°	12.6
62.5°	7.2
65°	4.5
67.5°	1.8
70°	1.8
72.5°	0.9
75°	0.9
77.5°	0.9
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)