

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P641620

Luminaire Tested: ML5612LSVWFL97FS1E - 592SC - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641620  
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 - 900LM - 5000K  
Description: ML56 RR, MILKY OPTIC, 5" SPECULAR CLEAR TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1254.4 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

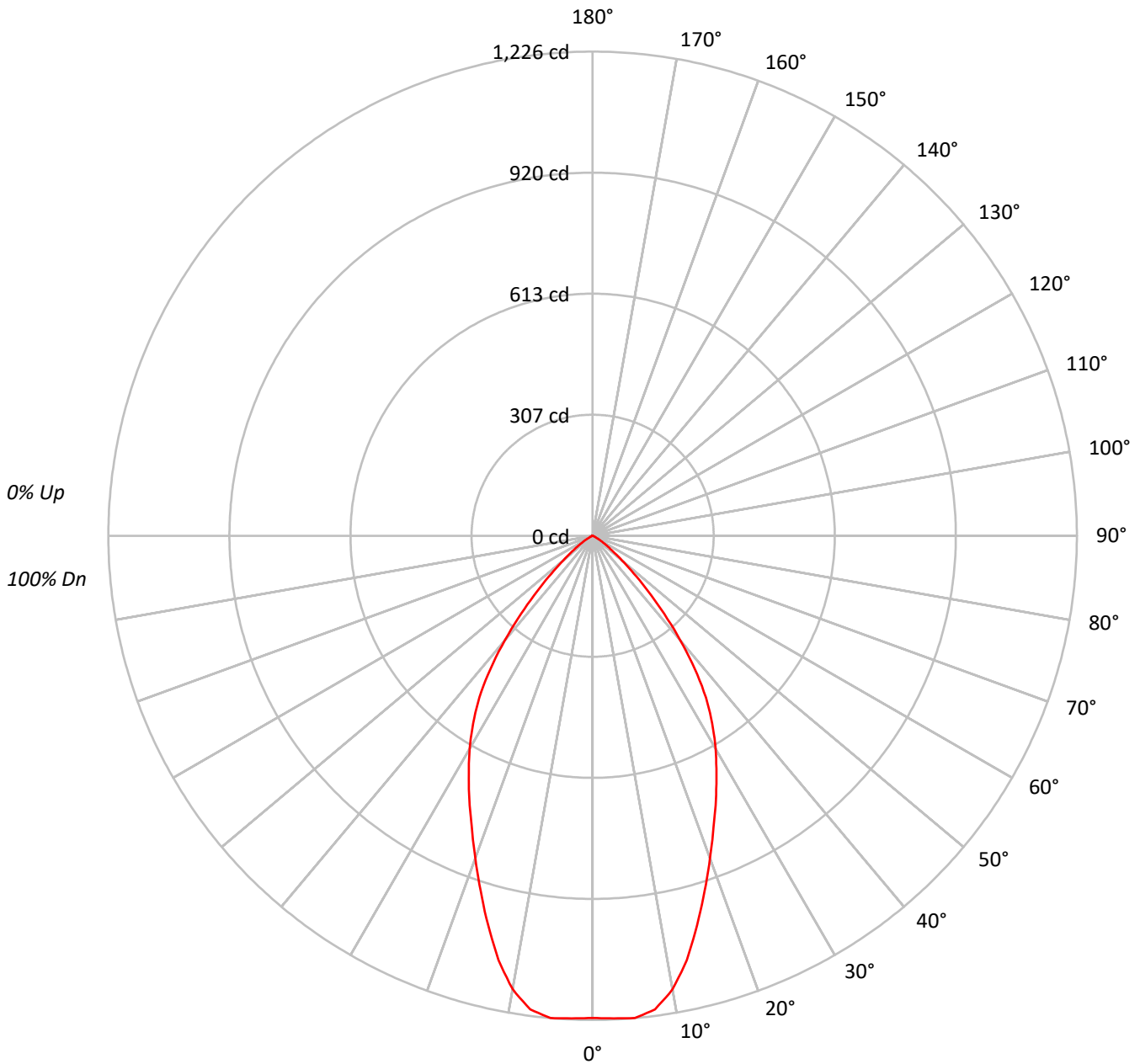
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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			100																
1	113	110	107	105	111	108	106	103	104	102	100	100	99	97	97	95	94	93			93																
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85																
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	79	78			78																
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71			71																
5	90	81	74	69	88	80	74	69	78	73	69	76	71	68	74	70	67	66			66																
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	65	62	61			61																
7	80	70	63	59	79	69	63	59	68	62	58	67	62	58	65	61	58	56			56																
8	76	65	59	54	74	65	59	54	64	58	54	63	57	54	62	57	54	52			52																
9	72	61	55	51	70	61	55	50	60	54	50	59	54	50	58	53	50	48			48																
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45			45																

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

	0°
0°	96371
5°	97135
10°	93481
15°	83450
20°	72960
25°	64298
30°	56770
35°	48185
40°	35542
45°	22026
50°	11888
55°	5973
60°	2747
65°	1158
70°	577
75°	366
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22026 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.1	9.2
10°-20°	284.9	22.7
20°-30°	339.4	27.1
30°-40°	306.4	24.4
40°-50°	157.6	12.6
50°-60°	42.7	3.4
60°-70°	7.0	0.6
70°-80°	1.3	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°	739.4	58.9
0°-40°	1045.8	83.4
0°-60°	1246.1	99.3
0°-90°	1254.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1254.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1221	
5°	1226	115
15°	1021	285
25°	738	339
35°	500	306
45°	197	158
55°	43	43
65°	6	7
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1220.8
2.5°	1223.3
5°	1225.8
7.5°	1209.6
10°	1166.2
12.5°	1100.5
15°	1021.1
17.5°	942.9
20°	868.5
22.5°	799.0
25°	738.2
27.5°	678.6
30°	622.8
32.5°	563.3
35°	500.0
37.5°	425.5
40°	344.9
42.5°	268.0
45°	197.3
47.5°	141.4
50°	96.8
52.5°	64.5
55°	43.4
57.5°	28.5
60°	17.4
62.5°	9.9
65°	6.2
67.5°	2.5
70°	2.5
72.5°	1.2
75°	1.2
77.5°	1.2
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)