

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: P643435

Luminaire Tested: ML5615LSVWFL9FS1E - 592SC - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643435  
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: ML5615LSVWFL9FS1E - 592SC - 900LM - 5000K  
Description: ML56 RR, MILKY OPTIC, 5" SPECULAR CLEAR TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

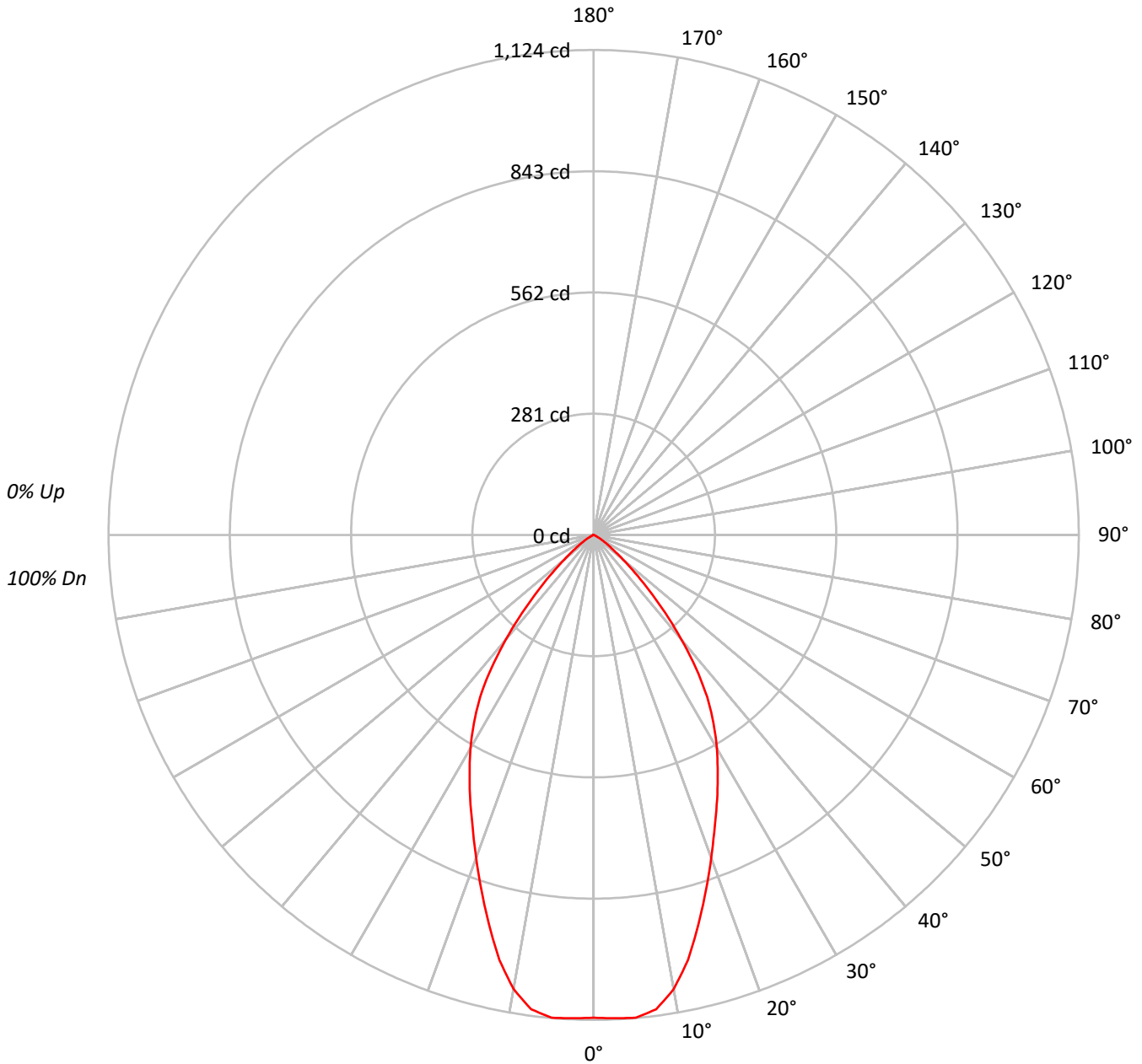
Lumens per Lamp: N/A  
Luminaire Lumens: 1149.7 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.95  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.5  
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°	88335
5°	89029
10°	85682
15°	76487
20°	66870
25°	58933
30°	52030
35°	44166
40°	32574
45°	20184
50°	10893
55°	5478
60°	2510
65°	1065
70°	531
75°	336
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20184 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.5	9.2
10°-20°	261.1	22.7
20°-30°	311.1	27.1
30°-40°	280.8	24.4
40°-50°	144.4	12.6
50°-60°	39.2	3.4
60°-70°	6.4	0.6
70°-80°	1.2	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°	677.7	58.9
0°-40°	958.5	83.4
0°-60°	1142.1	99.3
0°-90°	1149.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1119	
5°	1124	106
15°	936	261
25°	677	311
35°	458	281
45°	181	144
55°	40	39
65°	6	6
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1119.0
2.5°	1121.2
5°	1123.5
7.5°	1108.7
10°	1068.9
12.5°	1008.7
15°	935.9
17.5°	864.2
20°	796.0
22.5°	732.3
25°	676.6
27.5°	622.0
30°	570.8
32.5°	516.3
35°	458.3
37.5°	390.0
40°	316.1
42.5°	245.6
45°	180.8
47.5°	129.6
50°	88.7
52.5°	59.1
55°	39.8
57.5°	26.2
60°	15.9
62.5°	9.1
65°	5.7
67.5°	2.3
70°	2.3
72.5°	1.1
75°	1.1
77.5°	1.1
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)