

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: P643716

Luminaire Tested: ML5615LSVWFL9FS1E - 694WB - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643716  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-113)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5615LSVWFL9FS1E - 694WB - 900LM - 2700K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1085.9 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

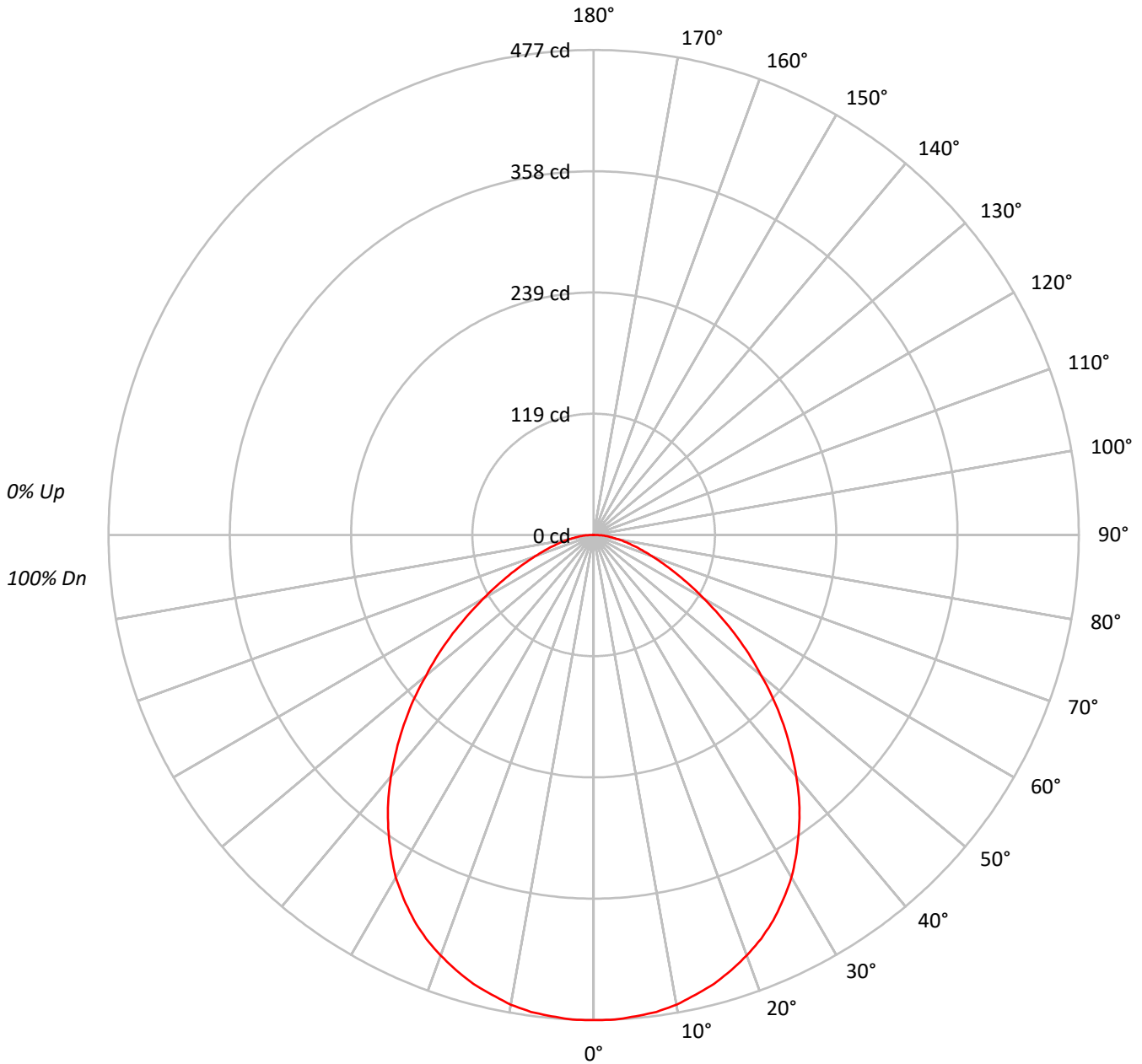
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86																			
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74																			
3	93	83	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64																			
4	86	75	67	61	84	73	66	60	71	64	59	69	63	59	67	62	58	56																			
5	79	67	59	53	77	66	58	53	64	57	52	62	56	51	61	55	51	49																			
6	74	61	53	47	72	60	52	46	58	51	46	57	51	46	55	50	45	43																			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39																			
8	64	51	43	37	62	50	43	37	49	42	37	48	42	37	47	41	37	35																			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32																			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29																			

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

	0°
0°	26160
5°	26150
10°	26118
15°	25948
20°	25675
25°	25290
30°	24630
35°	23564
40°	22192
45°	20475
50°	18345
55°	16162
60°	13705
65°	11545
70°	9777
75°	8472
80°	7577
85°	7548

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20475 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.2	4.2
10°-20°	128.9	11.9
20°-30°	192.2	17.7
30°-40°	219.7	20.2
40°-50°	203.0	18.7
50°-60°	151.1	13.9
60°-70°	89.4	8.2
70°-80°	43.4	4.0
80°-90°	13.1	1.2
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°	366.2	33.7
0°-40°	585.9	54.0
0°-60°	940.1	86.6
0°-90°	1085.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1085.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	477	
5°	475	45
15°	457	129
25°	418	192
35°	352	220
45°	264	203
55°	169	151
65°	89	89
75°	40	43
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	477.2
2.5°	477.2
5°	475.2
7.5°	473.2
10°	469.2
12.5°	463.2
15°	457.2
17.5°	449.1
20°	440.1
22.5°	430.1
25°	418.1
27.5°	404.1
30°	389.1
32.5°	371.1
35°	352.1
37.5°	332.1
40°	310.1
42.5°	287.1
45°	264.1
47.5°	240.1
50°	215.1
52.5°	192.1
55°	169.1
57.5°	146.0
60°	125.0
62.5°	106.0
65°	89.0
67.5°	74.0
70°	61.0
72.5°	50.0
75°	40.0
77.5°	32.0
80°	24.0
82.5°	17.0
85°	12.0
87.5°	7.0
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)