

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: P643719

Luminaire Tested: ML5615LSVWFL9FS1E - 694WB - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643719  
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 - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) STANDARD SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1234.6 lumens  
Efficiency: N/A  
Efficacy: 117.6 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

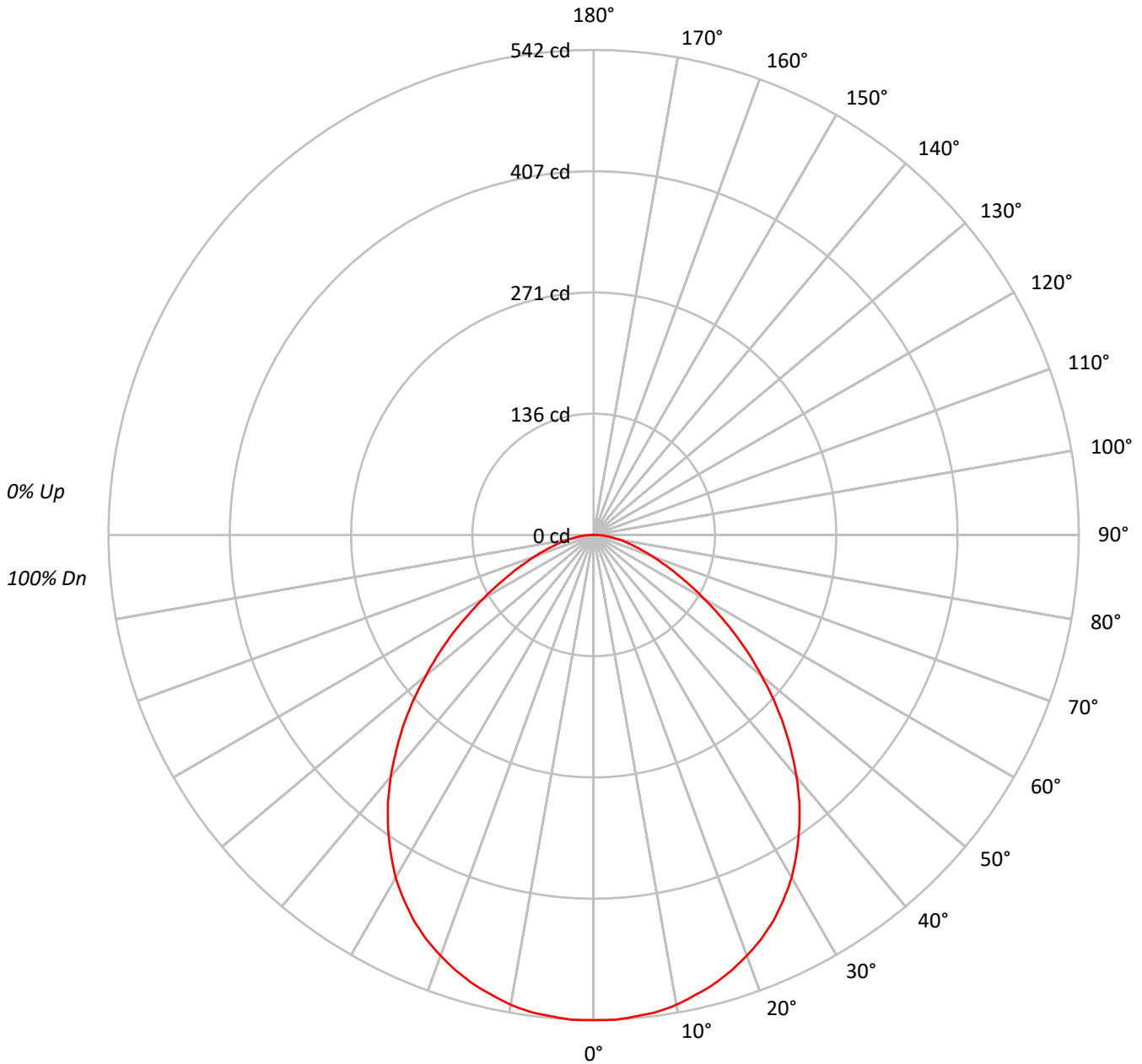
Input Watts (W): 10.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	29734
5°	29727
10°	29687
15°	29495
20°	29193
25°	28756
30°	28004
35°	26789
40°	25226
45°	23274
50°	20852
55°	18370
60°	15591
65°	13127
70°	11124
75°	9637
80°	8619
85°	8554

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23274 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.4	4.2
10°-20°	146.5	11.9
20°-30°	218.5	17.7
30°-40°	249.8	20.2
40°-50°	230.8	18.7
50°-60°	171.8	13.9
60°-70°	101.7	8.2
70°-80°	49.3	4.0
80°-90°	14.8	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°	416.4	33.7
0°-40°	666.1	54.0
0°-60°	1068.7	86.6
0°-90°	1234.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1234.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	542	
5°	540	51
15°	520	146
25°	475	219
35°	400	250
45°	300	231
55°	192	172
65°	101	102
75°	46	49
85°	14	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	542.4
2.5°	542.4
5°	540.2
7.5°	537.9
10°	533.3
12.5°	526.5
15°	519.7
17.5°	510.6
20°	500.4
22.5°	489.0
25°	475.4
27.5°	459.4
30°	442.4
32.5°	421.9
35°	400.3
37.5°	377.6
40°	352.5
42.5°	326.4
45°	300.2
47.5°	272.9
50°	244.5
52.5°	218.3
55°	192.2
57.5°	166.0
60°	142.2
62.5°	120.5
65°	101.2
67.5°	84.2
70°	69.4
72.5°	56.9
75°	45.5
77.5°	36.4
80°	27.3
82.5°	19.3
85°	13.6
87.5°	8.0
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)