

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: P641902

Luminaire Tested: ML5612LSVWFL97FS1E - 694WB - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641902  
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: ML5612LSVWFL97FS1E - 694WB - 900LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

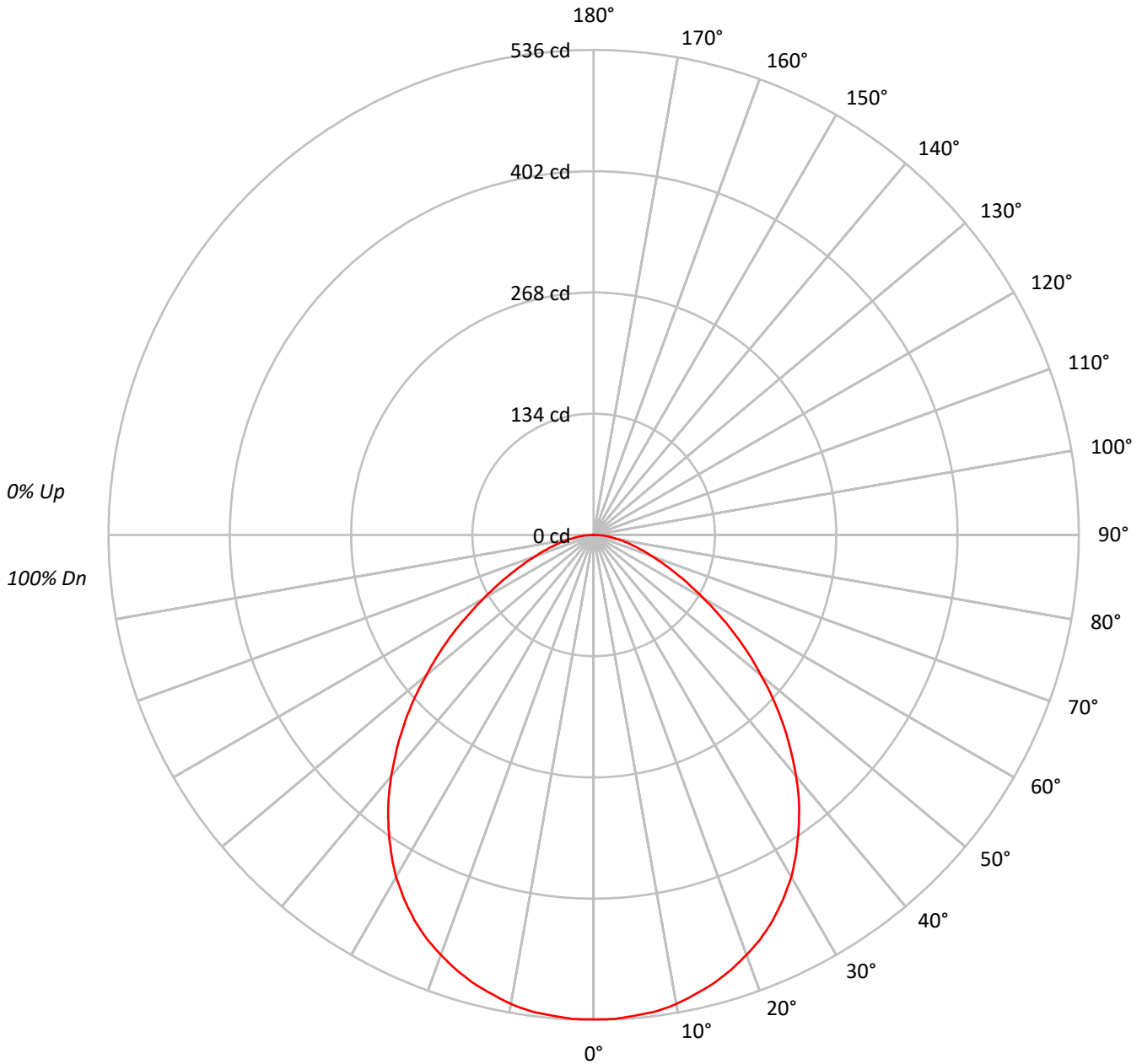
Lumens per Lamp: N/A  
Luminaire Lumens: 1218.7 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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																			
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°	29356
5°	29342
10°	29308
15°	29115
20°	28813
25°	28381
30°	27643
35°	26441
40°	24904
45°	22979
50°	20588
55°	18131
60°	15383
65°	12959
70°	10979
75°	9510
80°	8492
85°	8491

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22979 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.7	4.2
10°-20°	144.6	11.9
20°-30°	215.7	17.7
30°-40°	246.5	20.2
40°-50°	227.9	18.7
50°-60°	169.6	13.9
60°-70°	100.4	8.2
70°-80°	48.7	4.0
80°-90°	14.7	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°	411.0	33.7
0°-40°	657.5	54.0
0°-60°	1055.0	86.6
0°-90°	1218.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1218.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	536	
5°	533	51
15°	513	145
25°	469	216
35°	395	247
45°	296	228
55°	190	170
65°	100	100
75°	45	49
85°	14	15
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	535.5
2.5°	535.5
5°	533.2
7.5°	531.0
10°	526.5
12.5°	519.8
15°	513.0
17.5°	504.0
20°	493.9
22.5°	482.7
25°	469.2
27.5°	453.5
30°	436.7
32.5°	416.5
35°	395.1
37.5°	372.7
40°	348.0
42.5°	322.2
45°	296.4
47.5°	269.4
50°	241.4
52.5°	215.5
55°	189.7
57.5°	163.9
60°	140.3
62.5°	119.0
65°	99.9
67.5°	83.1
70°	68.5
72.5°	56.1
75°	44.9
77.5°	35.9
80°	26.9
82.5°	19.1
85°	13.5
87.5°	7.9
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)