

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: P641812

Luminaire Tested: ML5612LSVWFL97FS1E - 692W - 900LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-108)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 692W - 900LM - 3000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1136.8 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

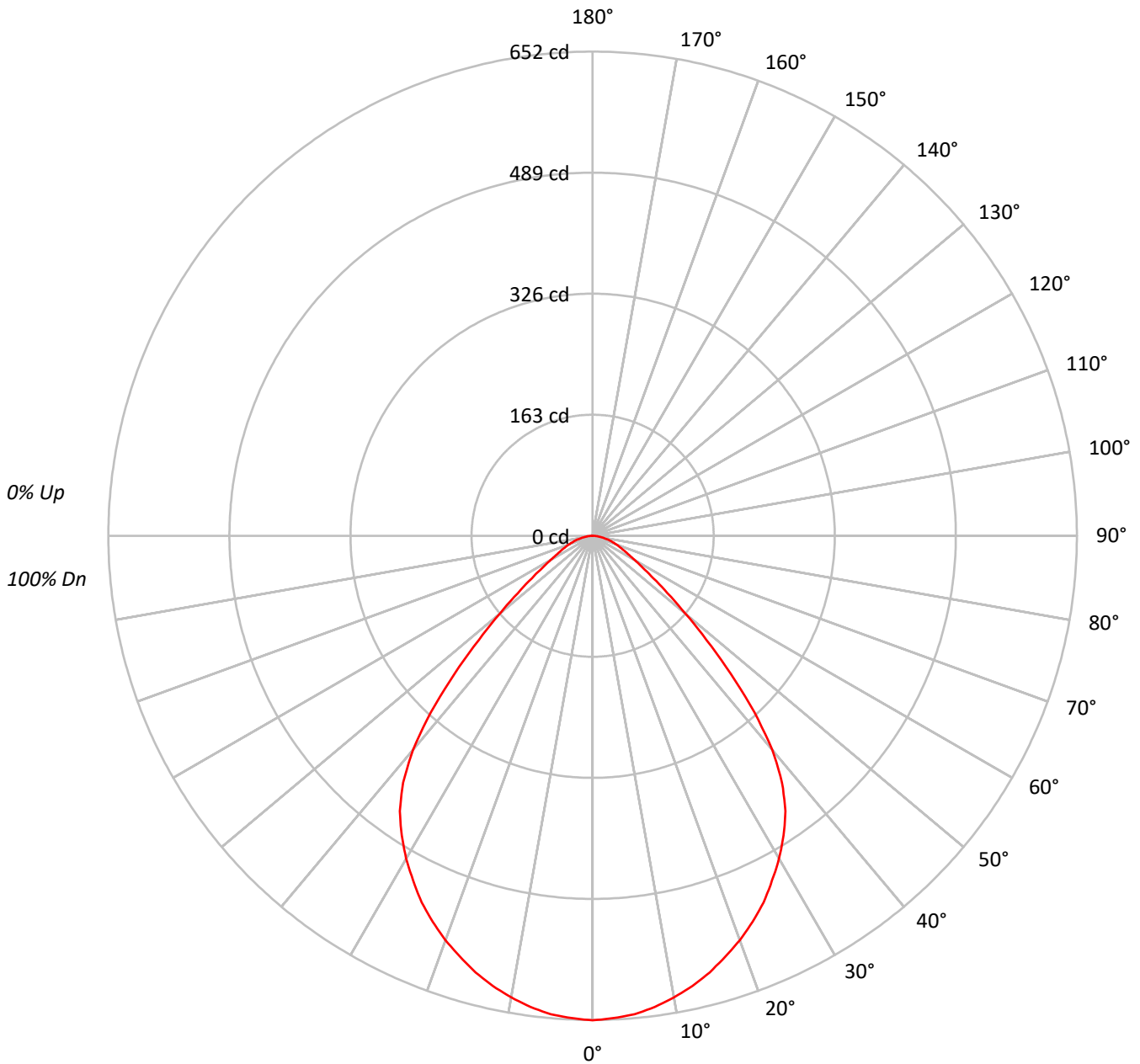
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63																			
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	47	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	52	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

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

	0°
0°	35770
5°	35599
10°	35136
15°	34546
20°	33807
25°	32947
30°	31777
35°	30289
40°	26922
45°	20374
50°	13884
55°	9558
60°	7138
65°	5967
70°	5402
75°	4999
80°	4262
85°	3522

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20374 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.2	5.4
10°-20°	171.4	15.1
20°-30°	250.2	22.0
30°-40°	279.5	24.6
40°-50°	203.4	17.9
50°-60°	93.5	8.2
60°-70°	46.6	4.1
70°-80°	24.6	2.2
80°-90°	6.4	0.6
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°	482.8	42.5
0°-40°	762.3	67.1
0°-60°	1059.2	93.2
0°-90°	1136.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1136.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	652	
5°	647	61
15°	609	171
25°	545	250
35°	453	279
45°	263	203
55°	100	93
65°	46	47
75°	24	25
85°	6	6
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	652.5
2.5°	650.2
5°	646.9
7.5°	640.1
10°	631.2
12.5°	621.0
15°	608.7
17.5°	594.1
20°	579.5
22.5°	562.6
25°	544.7
27.5°	523.3
30°	502.0
32.5°	478.4
35°	452.6
37.5°	418.9
40°	376.2
42.5°	322.3
45°	262.8
47.5°	207.8
50°	162.8
52.5°	126.9
55°	100.0
57.5°	79.7
60°	65.1
62.5°	53.9
65°	46.0
67.5°	39.3
70°	33.7
72.5°	28.1
75°	23.6
77.5°	18.0
80°	13.5
82.5°	9.0
85°	5.6
87.5°	2.2
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)