

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: P641908

Luminaire Tested: ML5612LSVWFL97FS1E - 696WB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641908  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-115)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 696WB - 1200LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1449.8 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

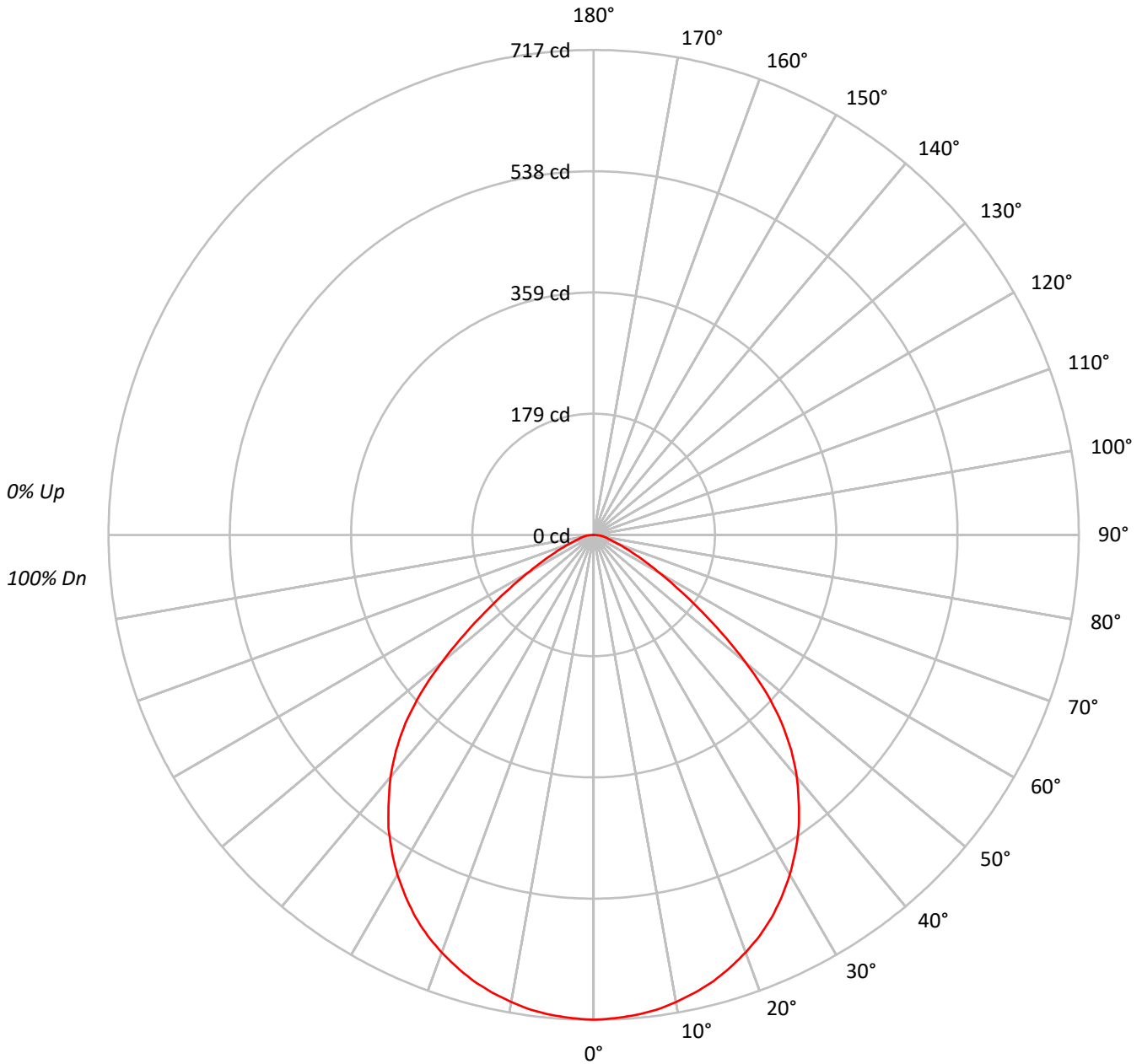
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53																			
6	76	64	57	51	75	64	56	51	62	55	50	60	54	50	59	54	49	48																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	66	54	46	41	65	54	46	41	52	46	41	51	45	41	50	44	40	39																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

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

	0°
0°	39290
5°	39209
10°	39044
15°	38774
20°	38317
25°	37702
30°	36721
35°	35369
40°	33427
45°	30484
50°	24971
55°	17987
60°	12378
65°	8496
70°	6027
75°	4723
80°	4830
85°	5284

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 30484 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.7	4.7
10°-20°	192.5	13.3
20°-30°	286.6	19.8
30°-40°	329.2	22.7
40°-50°	298.8	20.6
50°-60°	172.5	11.9
60°-70°	68.4	4.7
70°-80°	25.7	1.8
80°-90°	8.5	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°	546.8	37.7
0°-40°	876.0	60.4
0°-60°	1347.2	92.9
0°-90°	1449.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1449.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	717	
5°	712	68
15°	683	193
25°	623	287
35°	528	329
45°	393	299
55°	188	172
65°	66	68
75°	22	26
85°	8	9
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	716.7
2.5°	715.3
5°	712.5
7.5°	708.3
10°	701.4
12.5°	693.0
15°	683.2
17.5°	670.7
20°	656.8
22.5°	641.4
25°	623.3
27.5°	602.4
30°	580.1
32.5°	555.0
35°	528.5
37.5°	497.8
40°	467.1
42.5°	432.3
45°	393.2
47.5°	347.2
50°	292.8
52.5°	238.4
55°	188.2
57.5°	146.4
60°	112.9
62.5°	86.5
65°	65.5
67.5°	50.2
70°	37.6
72.5°	29.3
75°	22.3
77.5°	19.5
80°	15.3
82.5°	12.5
85°	8.4
87.5°	2.8
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)