

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: P641918

Luminaire Tested: ML5612LSVWFL97FS1E - 696WB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641918  
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 - 900LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

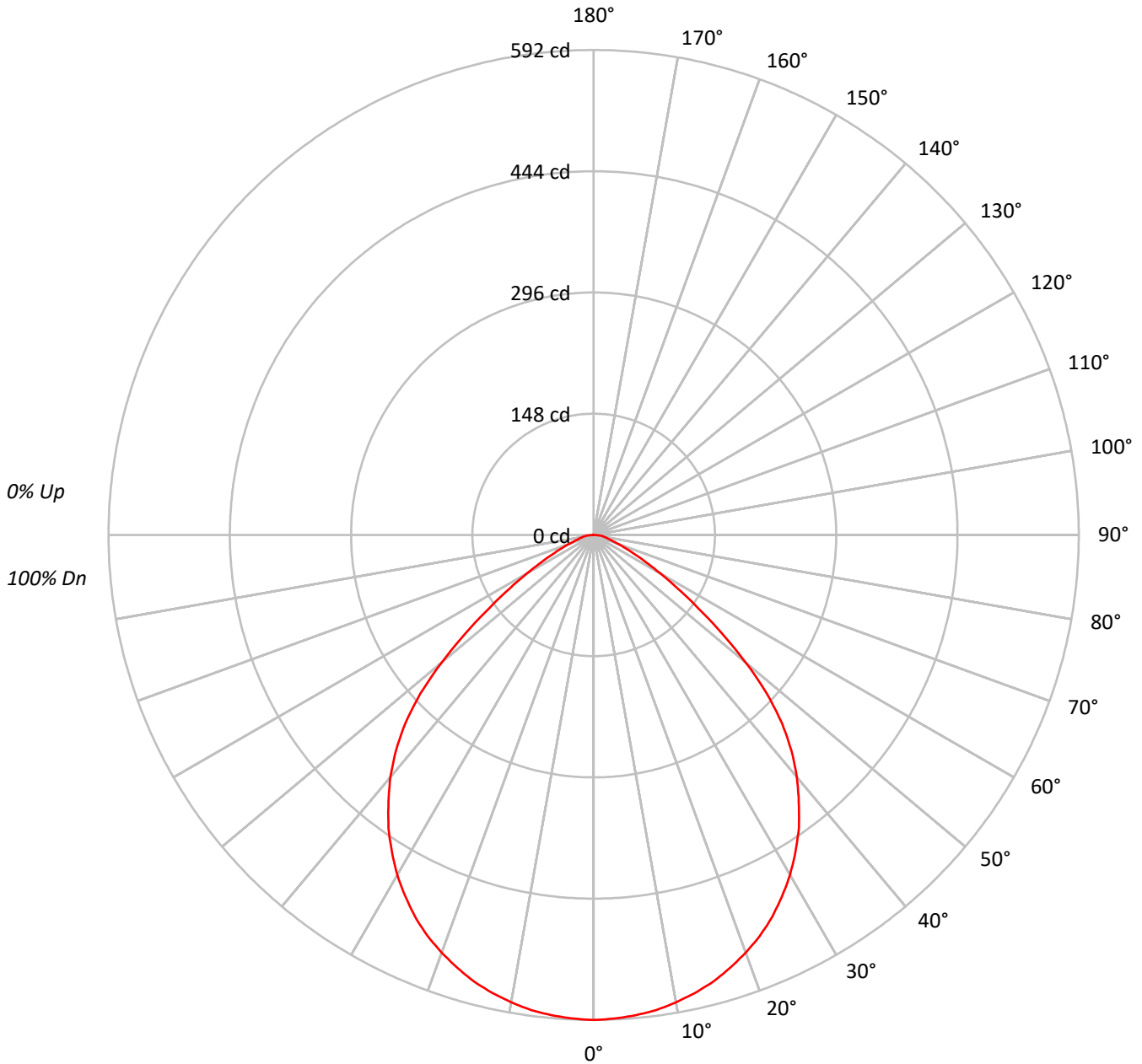
Lumens per Lamp: N/A  
Luminaire Lumens: 1197.7 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.28  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	32459
5°	32390
10°	32253
15°	32032
20°	31649
25°	31145
30°	30334
35°	29219
40°	27616
45°	25181
50°	20630
55°	14862
60°	10229
65°	7018
70°	4985
75°	3897
80°	4009
85°	4340

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25181 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.9	4.7
10°-20°	159.0	13.3
20°-30°	236.7	19.8
30°-40°	271.9	22.7
40°-50°	246.8	20.6
50°-60°	142.5	11.9
60°-70°	56.5	4.7
70°-80°	21.2	1.8
80°-90°	7.1	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°	451.7	37.7
0°-40°	723.6	60.4
0°-60°	1112.9	92.9
0°-90°	1197.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1197.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	592	
5°	589	56
15°	564	159
25°	515	237
35°	437	272
45°	325	247
55°	156	142
65°	54	56
75°	18	21
85°	7	7
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	592.1
2.5°	590.9
5°	588.6
7.5°	585.1
10°	579.4
12.5°	572.5
15°	564.4
17.5°	554.0
20°	542.5
22.5°	529.9
25°	514.9
27.5°	497.6
30°	479.2
32.5°	458.4
35°	436.6
37.5°	411.2
40°	385.9
42.5°	357.1
45°	324.8
47.5°	286.8
50°	241.9
52.5°	197.0
55°	155.5
57.5°	120.9
60°	93.3
62.5°	71.4
65°	54.1
67.5°	41.5
70°	31.1
72.5°	24.2
75°	18.4
77.5°	16.1
80°	12.7
82.5°	10.4
85°	6.9
87.5°	2.3
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)