

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: P641809

Luminaire Tested: ML5612LSVWFL97FS1E - 692W - 600LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641809  
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 - 600LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

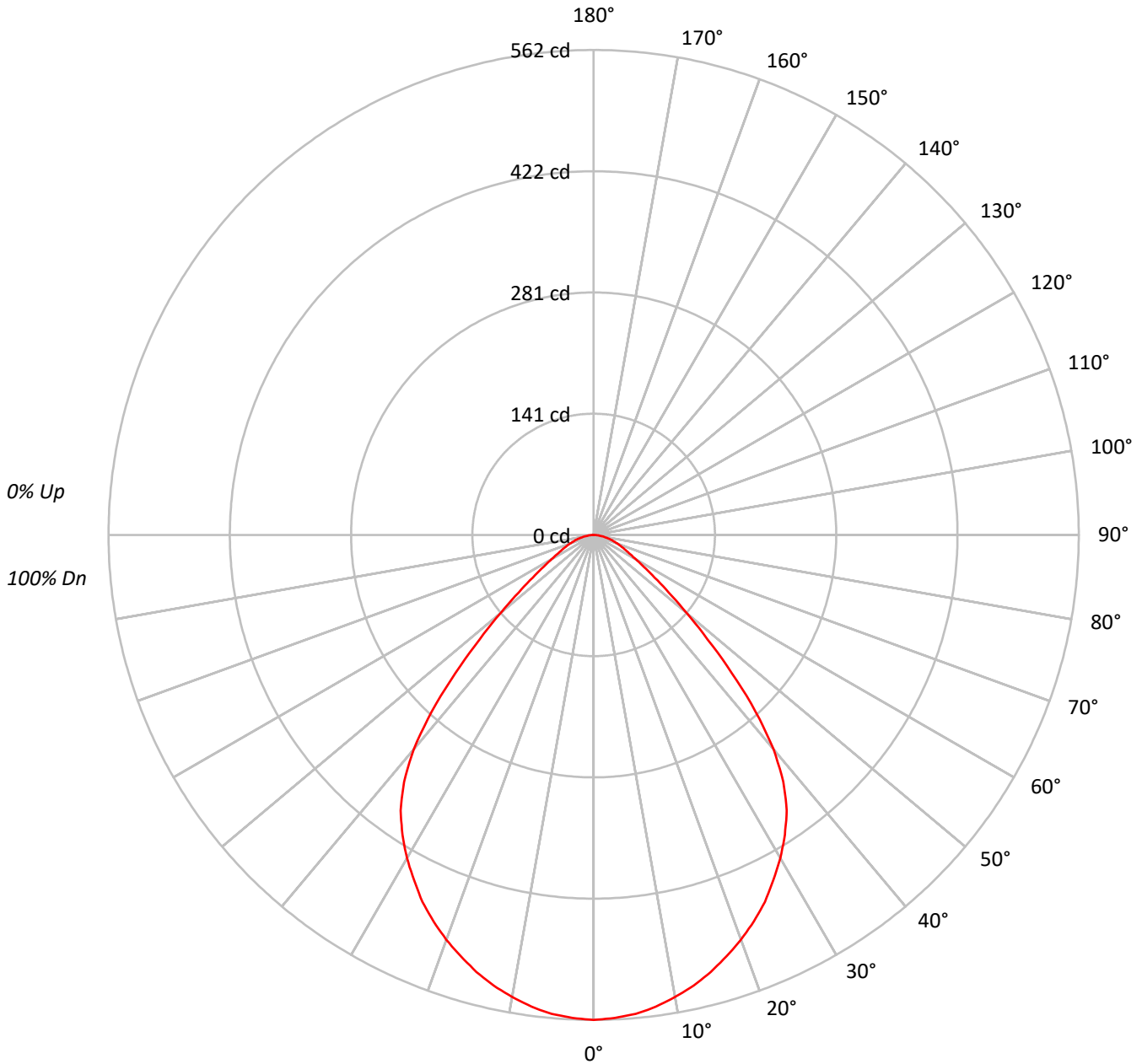
Lumens per Lamp: N/A  
Luminaire Lumens: 979.3 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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			100																
1	111	108	105	102	109	106	103	100	101	99	97	98	96	94	94	93	91	89			89																
2	104	97	92	87	101	95	91	86	92	88	85	89	86	83	86	83	81	79			79																
3	96	88	81	76	94	87	80	76	84	79	74	81	77	73	79	75	72	70			70																
4	90	80	73	67	88	79	72	67	76	71	66	74	69	65	72	68	64	63			63																
5	84	73	65	60	82	72	65	60	70	64	59	68	63	58	66	62	58	56			56																
6	78	67	59	54	76	66	59	54	64	58	53	63	57	53	61	56	52	50			50																
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	47	46			46																
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42			42																
9	64	52	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38			38																
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35			35																

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

	0°
0°	30814
5°	30668
10°	30266
15°	29762
20°	29123
25°	28381
30°	27378
35°	26093
40°	23193
45°	17552
50°	11965
55°	8229
60°	6151
65°	5150
70°	4648
75°	4300
80°	3662
85°	3019

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17552 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.8	5.4
10°-20°	147.6	15.1
20°-30°	215.5	22.0
30°-40°	240.7	24.6
40°-50°	175.2	17.9
50°-60°	80.5	8.2
60°-70°	40.2	4.1
70°-80°	21.2	2.2
80°-90°	5.5	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°	415.9	42.5
0°-40°	656.7	67.1
0°-60°	912.5	93.2
0°-90°	979.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	979.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	562	
5°	557	53
15°	524	148
25°	469	216
35°	390	241
45°	226	175
55°	86	81
65°	40	40
75°	20	21
85°	5	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	562.1
2.5°	560.2
5°	557.3
7.5°	551.5
10°	543.7
12.5°	535.0
15°	524.4
17.5°	511.8
20°	499.2
22.5°	484.7
25°	469.2
27.5°	450.8
30°	432.5
32.5°	412.1
35°	389.9
37.5°	360.9
40°	324.1
42.5°	277.7
45°	226.4
47.5°	179.0
50°	140.3
52.5°	109.3
55°	86.1
57.5°	68.7
60°	56.1
62.5°	46.4
65°	39.7
67.5°	33.9
70°	29.0
72.5°	24.2
75°	20.3
77.5°	15.5
80°	11.6
82.5°	7.7
85°	4.8
87.5°	1.9
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)