

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: P641625

Luminaire Tested: ML5612LSVWFL97FS1E - 592W - 1200LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641625  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-96)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 592W - 1200LM - 5000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

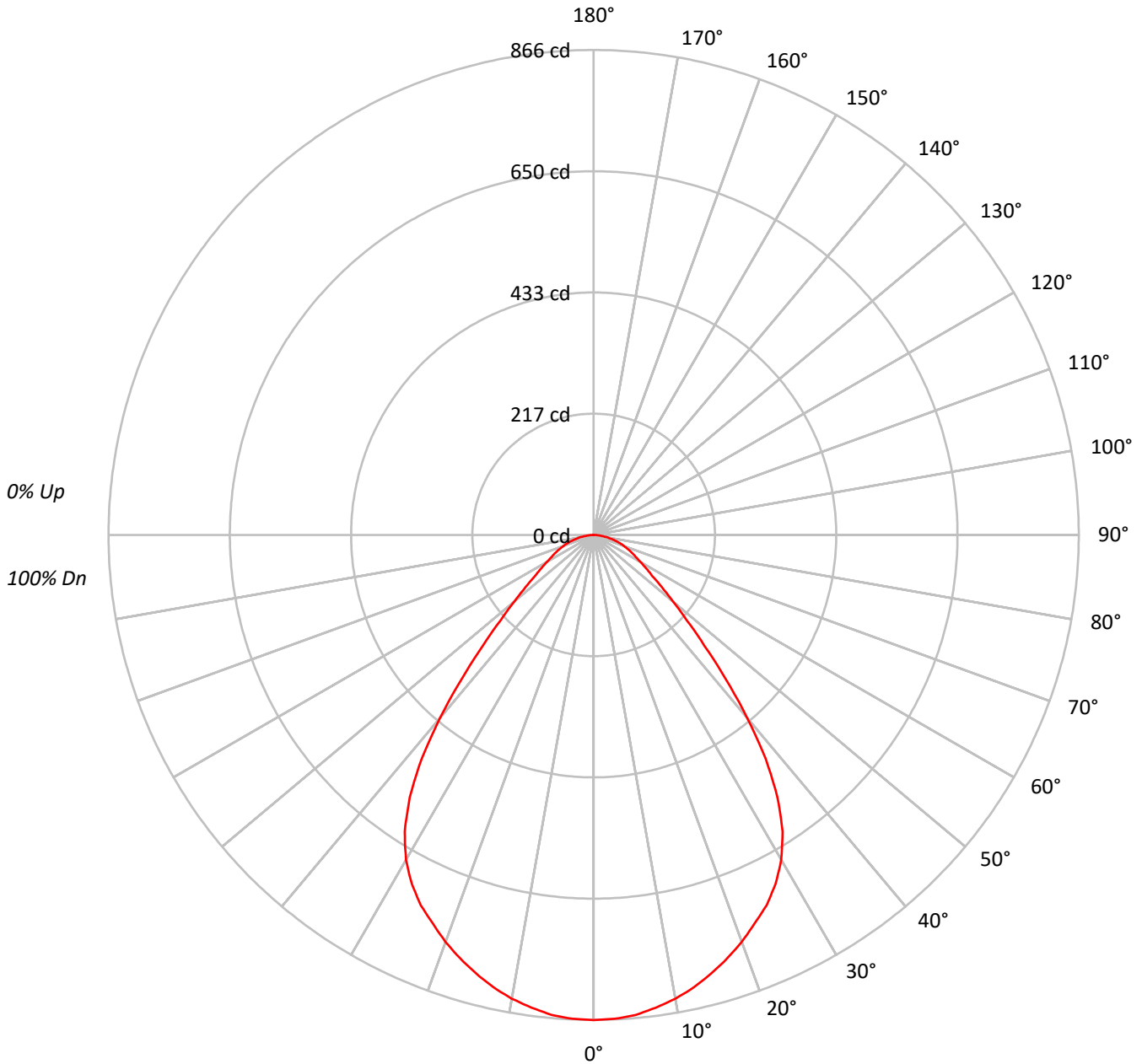
Lumens per Lamp: N/A  
Luminaire Lumens: 1464.3 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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				20				
RC	80				70				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	97	91	87	101	95	90	86	92	88	84	89	85	82	86	83	80	78			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	70			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	68	64	62			
5	84	73	65	60	82	72	65	59	70	64	59	68	62	58	66	61	58	56			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50			
7	73	61	54	49	72	61	54	48	59	53	48	58	52	48	57	52	48	46			
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	42			
9	65	53	45	41	63	52	45	41	51	45	40	50	44	40	49	44	40	38			
10	61	49	42	37	60	49	42	37	48	41	37	47	41	37	46	41	37	35			

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

	0°
0°	47496
5°	47347
10°	46809
15°	46022
20°	45113
25°	44144
30°	42393
35°	38287
40°	30521
45°	21653
50°	15752
55°	12196
60°	10536
65°	9742
70°	9152
75°	8578
80°	7577
85°	5661

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21653 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.5	5.6
10°-20°	228.5	15.6
20°-30°	334.8	22.9
30°-40°	350.8	24.0
40°-50°	221.7	15.1
50°-60°	118.6	8.1
60°-70°	74.7	5.1
70°-80°	42.8	2.9
80°-90°	11.0	0.8
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°	644.8	44.0
0°-40°	995.5	68.0
0°-60°	1335.9	91.2
0°-90°	1464.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1464.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	866	
5°	860	81
15°	811	229
25°	730	335
35°	572	351
45°	279	222
55°	128	119
65°	75	75
75°	40	43
85°	9	11
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	866.4
2.5°	864.9
5°	860.4
7.5°	851.4
10°	840.9
12.5°	827.4
15°	810.9
17.5°	792.9
20°	773.3
22.5°	750.8
25°	729.8
27.5°	702.8
30°	669.7
32.5°	627.7
35°	572.1
37.5°	504.5
40°	426.5
42.5°	348.4
45°	279.3
47.5°	225.2
50°	184.7
52.5°	153.2
55°	127.6
57.5°	111.1
60°	96.1
62.5°	84.1
65°	75.1
67.5°	66.1
70°	57.1
72.5°	49.6
75°	40.5
77.5°	31.5
80°	24.0
82.5°	16.5
85°	9.0
87.5°	3.0
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)