

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: P641684

Luminaire Tested: ML5612LSVWFL97FS1E - 593WB - 1200LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-97)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 593WB - 1200LM - 4000K  
Description: ML56 RR, MILKY OPTIC, 5" WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

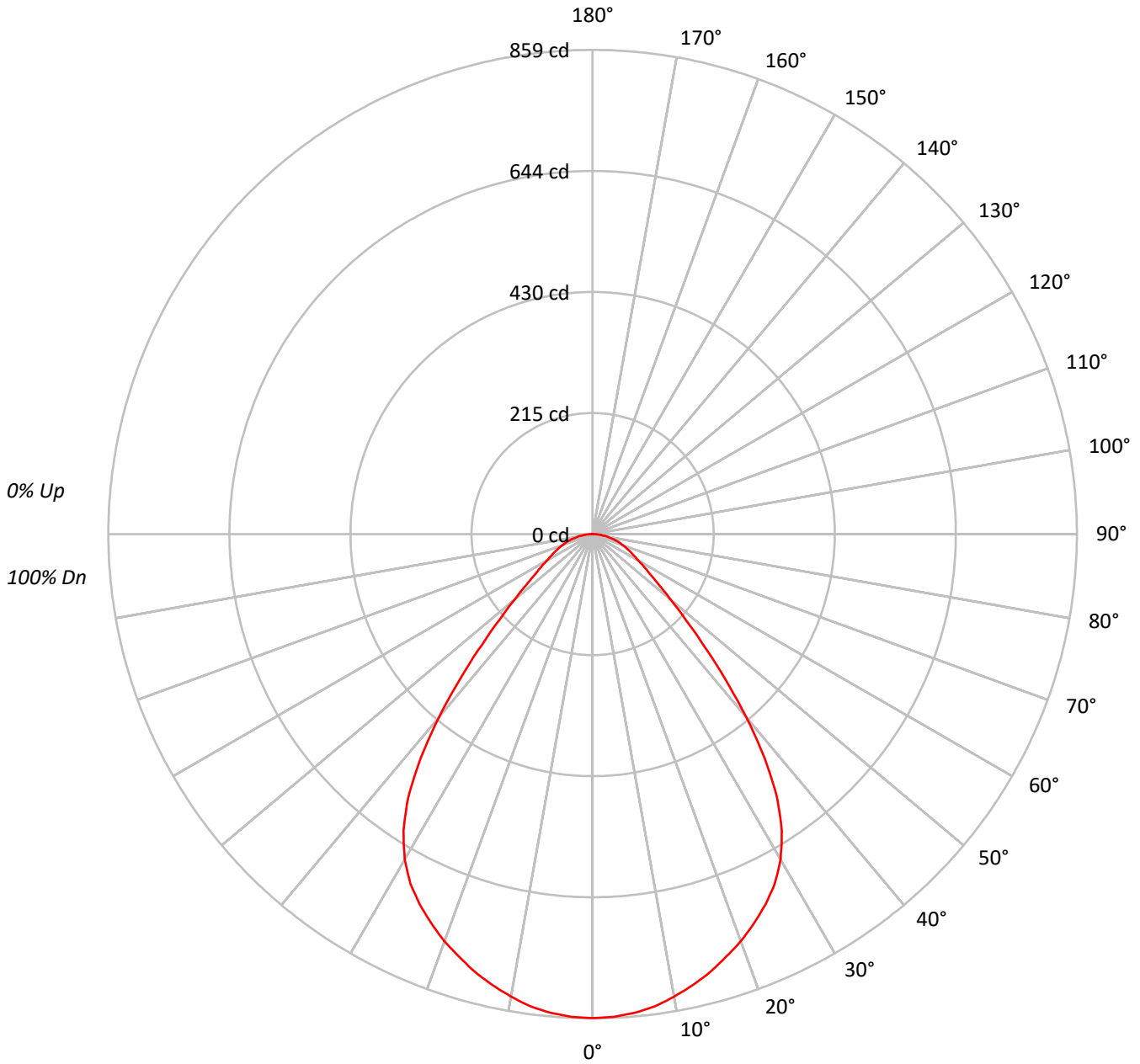
Lumens per Lamp: N/A  
Luminaire Lumens: 1454.6 lumens  
Efficiency: N/A  
Efficacy: 88.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.14  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): 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	97	91	87	101	95	90	86	92	87	84	88	85	82	86	83	80	78																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	71	69																			
4	90	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62																			
5	84	73	65	60	82	72	65	59	70	63	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	51	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°	67787
5°	67570
10°	66788
15°	65765
20°	64568
25°	63157
30°	60754
35°	54979
40°	43621
45°	31002
50°	22118
55°	17149
60°	14699
65°	13748
70°	13156
75°	12810
80°	12274
85°	10869

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 31002 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.8	5.6
10°-20°	226.7	15.6
20°-30°	333.1	22.9
30°-40°	349.0	24.0
40°-50°	219.5	15.1
50°-60°	115.4	7.9
60°-70°	73.2	5.0
70°-80°	43.9	3.0
80°-90°	13.1	0.9
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°	640.5	44.0
0°-40°	989.5	68.0
0°-60°	1324.4	91.1
0°-90°	1454.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1454.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	859	
5°	853	81
15°	805	227
25°	725	333
35°	570	349
45°	278	219
55°	125	115
65°	74	73
75°	42	44
85°	12	13
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	858.7
2.5°	857.2
5°	852.7
7.5°	845.2
10°	833.2
12.5°	819.7
15°	804.7
17.5°	786.6
20°	768.6
22.5°	747.6
25°	725.1
27.5°	699.6
30°	666.5
32.5°	624.5
35°	570.5
37.5°	501.4
40°	423.3
42.5°	345.3
45°	277.7
47.5°	222.2
50°	180.1
52.5°	148.6
55°	124.6
57.5°	108.1
60°	93.1
62.5°	82.6
65°	73.6
67.5°	64.6
70°	57.0
72.5°	49.5
75°	42.0
77.5°	33.0
80°	27.0
82.5°	18.0
85°	12.0
87.5°	4.5
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)