

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: P641653

Luminaire Tested: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641653  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-99)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL97FS1E - 593SNB - 1200LM - 3500K  
Description: ML56 RR, MILKY OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1170.3 lumens  
Efficiency: N/A  
Efficacy: 70.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.14  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

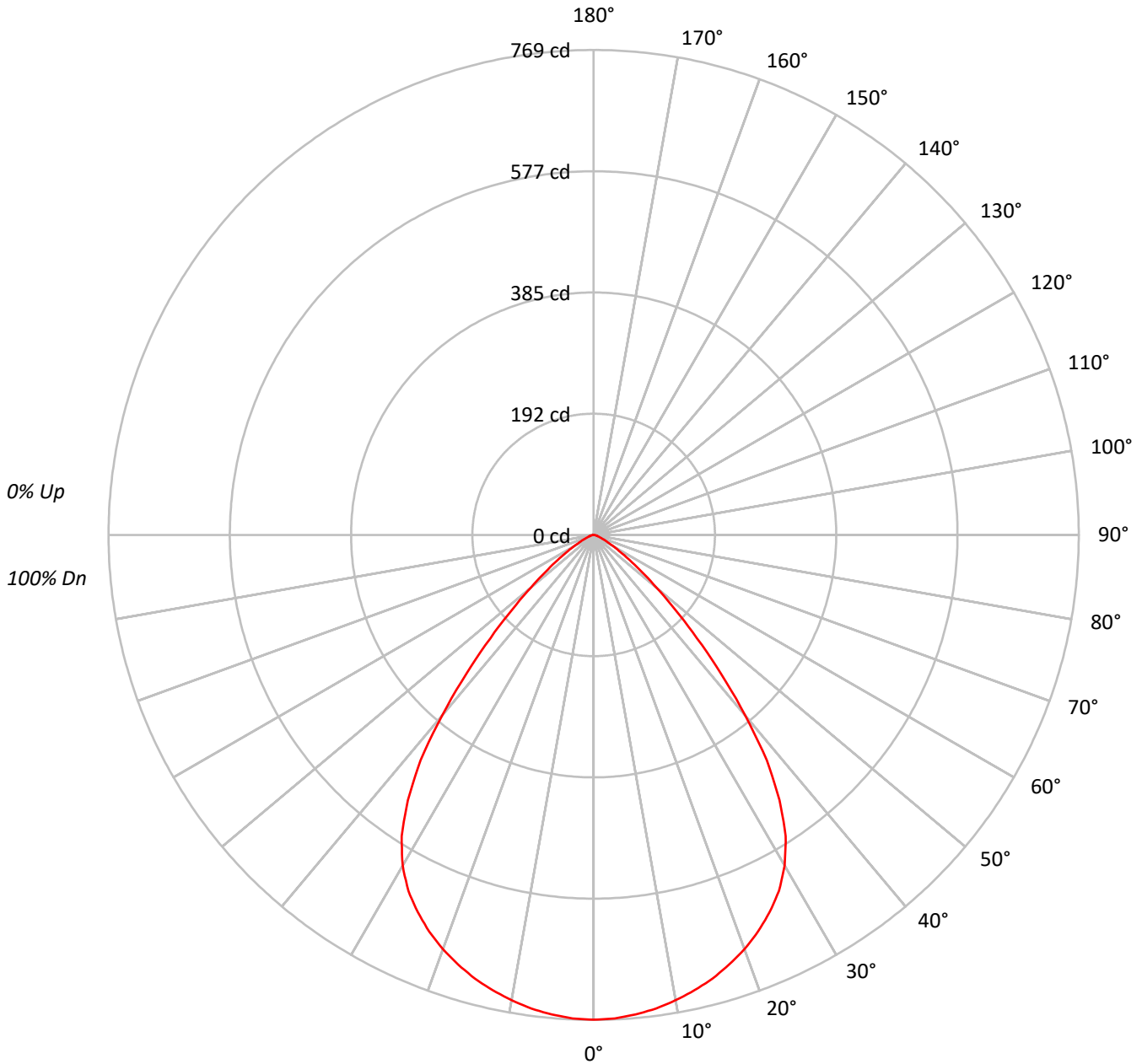
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82																			
3	99	91	85	81	97	90	84	80	87	82	79	84	81	77	82	79	76	74																			
4	93	84	77	72	91	82	76	72	80	75	71	78	73	70	76	72	69	67																			
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61																			
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55																			
7	76	65	58	53	75	65	58	53	63	57	53	62	57	53	61	56	52	51																			
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46																			
9	68	56	50	45	66	56	49	45	55	49	45	54	48	44	53	48	44	43																			
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39																			

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

	0°
0°	60682
5°	60478
10°	60055
15°	59521
20°	58721
25°	57478
30°	55193
35°	49476
40°	38530
45°	25856
50°	15941
55°	9607
60°	5731
65°	3381
70°	1939
75°	1708
80°	1273
85°	1268

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25856 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.4	6.2
10°-20°	205.2	17.5
20°-30°	303.0	25.9
30°-40°	314.4	26.9
40°-50°	182.6	15.6
50°-60°	66.3	5.7
60°-70°	19.2	1.6
70°-80°	5.9	0.5
80°-90°	1.1	0.1
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°	580.7	49.6
0°-40°	895.1	76.5
0°-60°	1144.0	97.8
0°-90°	1170.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	769	
5°	763	72
15°	728	205
25°	660	303
35°	513	314
45°	232	183
55°	70	66
65°	18	19
75°	6	6
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	768.7
2.5°	767.4
5°	763.2
7.5°	757.6
10°	749.2
12.5°	739.5
15°	728.3
17.5°	714.3
20°	699.0
22.5°	680.9
25°	659.9
27.5°	636.2
30°	605.5
32.5°	566.4
35°	513.4
37.5°	450.6
40°	373.9
42.5°	298.6
45°	231.6
47.5°	174.4
50°	129.8
52.5°	96.3
55°	69.8
57.5°	50.2
60°	36.3
62.5°	25.1
65°	18.1
67.5°	12.6
70°	8.4
72.5°	7.0
75°	5.6
77.5°	4.2
80°	2.8
82.5°	1.4
85°	1.4
87.5°	0.0
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)