

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: P641365

Luminaire Tested: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641365  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-79)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 594SNB - 900LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1361.1 lumens  
Efficiency: N/A  
Efficacy: 102.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

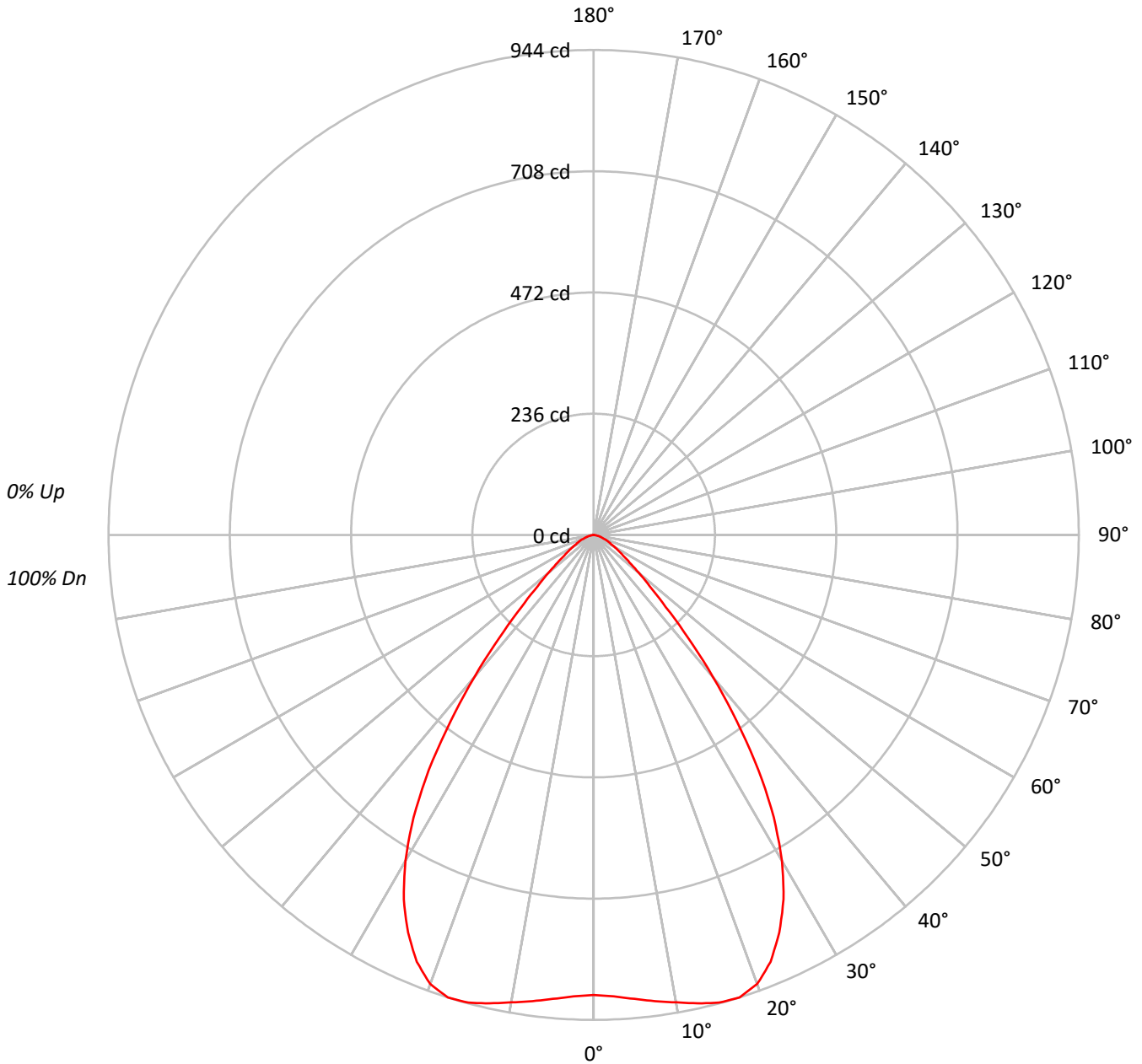
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									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	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	98	96	96	94	93	91																												
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	83																												
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75																												
4	93	84	78	73	91	83	77	72	81	76	72	79	74	71	77	73	70	68																												
5	87	78	71	66	86	77	70	66	75	69	65	73	68	64	71	67	64	62																												
6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	67	62	58	57																												
7	77	67	60	55	76	66	59	55	65	59	54	63	58	54	62	57	54	52																												
8	73	62	55	50	72	61	55	50	60	54	50	59	54	50	58	53	50	48																												
9	69	58	51	47	68	57	51	47	56	50	46	55	50	46	54	50	46	44																												
10	65	54	48	43	64	54	47	43	53	47	43	52	47	43	51	46	43	41																												

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

	0°
0°	70692
5°	71841
10°	74067
15°	77035
20°	78143
25°	74428
30°	66815
35°	53909
40°	37191
45°	22149
50°	14013
55°	9565
60°	7436
65°	6015
70°	4870
75°	3782
80°	2273
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22149 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.1	6.4
10°-20°	265.7	19.5
20°-30°	389.1	28.6
30°-40°	343.5	25.2
40°-50°	162.9	12.0
50°-60°	65.7	4.8
60°-70°	32.6	2.4
70°-80°	13.2	1.0
80°-90°	1.4	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°	741.9	54.5
0°-40°	1085.3	79.7
0°-60°	1314.0	96.5
0°-90°	1361.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1361.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	896	
5°	907	87
15°	943	266
25°	854	389
35°	559	343
45°	198	163
55°	70	66
65°	32	33
75°	12	13
85°	0	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	895.5
2.5°	899.2
5°	906.6
7.5°	915.3
10°	924.0
12.5°	933.9
15°	942.6
17.5°	943.8
20°	930.2
22.5°	899.2
25°	854.5
27.5°	800.0
30°	733.0
32.5°	652.4
35°	559.4
37.5°	457.7
40°	360.9
42.5°	271.6
45°	198.4
47.5°	147.6
50°	114.1
52.5°	88.1
55°	69.5
57.5°	57.1
60°	47.1
62.5°	38.4
65°	32.2
67.5°	27.3
70°	21.1
72.5°	16.1
75°	12.4
77.5°	8.7
80°	5.0
82.5°	2.5
85°	0.0
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)