

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: P641320

Luminaire Tested: ML5612LSVWFL7597FS1E - 593SNB - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641320  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-76)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 593SNB - 900LM - 5000K  
Description: ML56 RR, 75D TIR OPTIC, 5" SATIN NICKLE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1309.0 lumens  
Efficiency: N/A  
Efficacy: 98.4 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

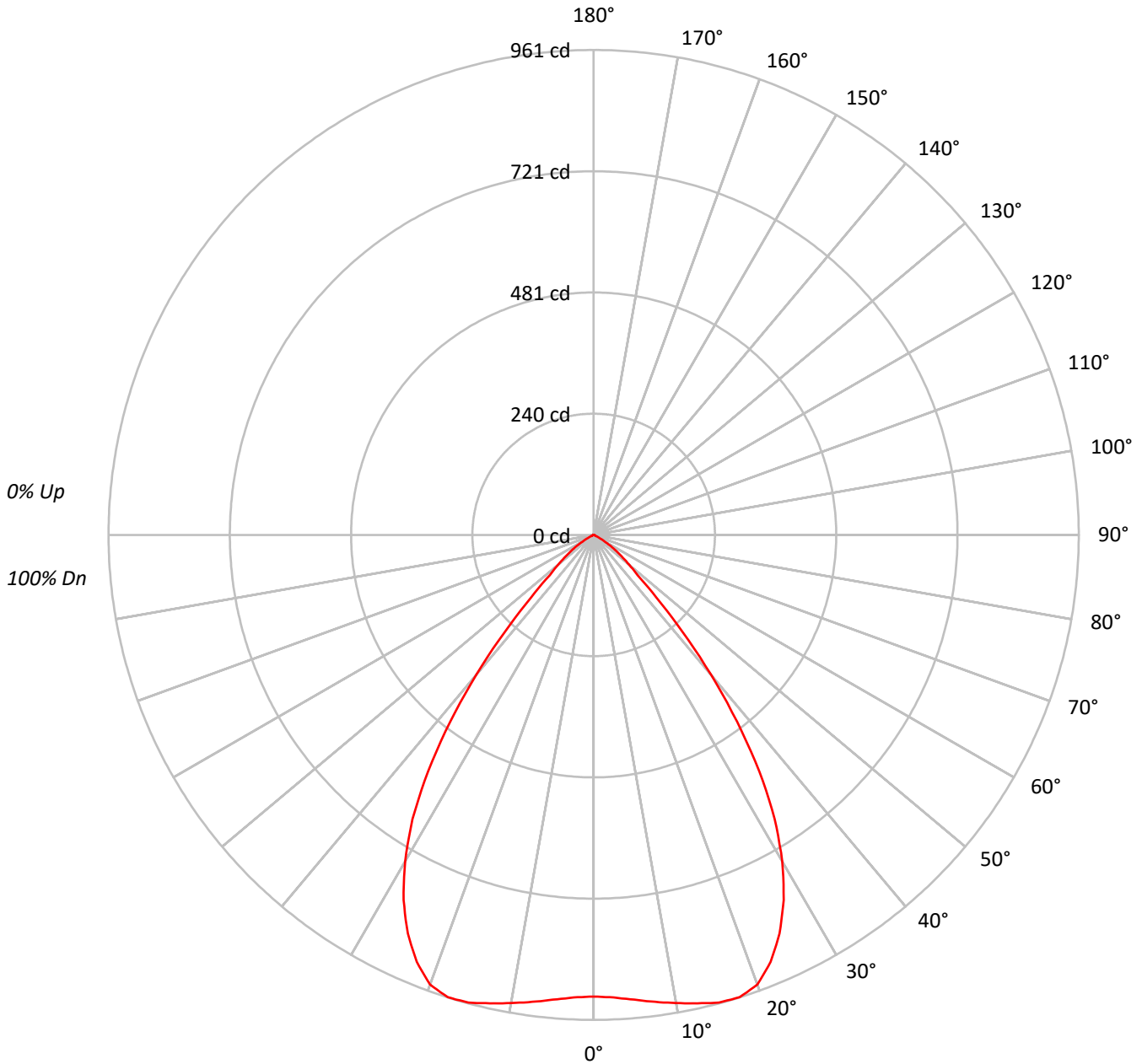
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				20				
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	100	100	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92
2	107	101	97	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84	84	84	84
3	100	93	88	83	98	92	87	83	89	85	81	87	83	80	84	81	79	77	77	77	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71	71	71	71
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	74	69	66	65	65	65	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55	55	55
8	75	64	57	53	73	63	57	53	62	57	52	61	56	52	60	55	52	50	50	50	50
9	70	60	53	49	69	59	53	49	58	53	49	57	52	48	56	52	48	47	47	47	47
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43	43	43	43

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

	0°
0°	72207
5°	73268
10°	75510
15°	78408
20°	79656
25°	75883
30°	68100
35°	55133
40°	37222
45°	19537
50°	11274
55°	7005
60°	3142
65°	934
70°	577
75°	366
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19537 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.8	6.8
10°-20°	270.6	20.7
20°-30°	396.5	30.3
30°-40°	350.2	26.8
40°-50°	147.9	11.3
50°-60°	46.7	3.6
60°-70°	7.0	0.5
70°-80°	1.3	0.1
80°-90°	0.0	0.0
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°	755.9	57.7
0°-40°	1106.1	84.5
0°-60°	1300.7	99.4
0°-90°	1309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	915	
5°	925	89
15°	959	271
25°	871	397
35°	572	350
45°	175	148
55°	51	47
65°	5	7
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	914.7
2.5°	917.2
5°	924.6
7.5°	933.3
10°	942.0
12.5°	950.7
15°	959.4
17.5°	960.6
20°	948.2
22.5°	915.9
25°	871.2
27.5°	815.4
30°	747.1
32.5°	667.7
35°	572.1
37.5°	466.7
40°	361.2
42.5°	259.4
45°	175.0
47.5°	117.9
50°	91.8
52.5°	69.5
55°	50.9
57.5°	34.8
60°	19.9
62.5°	9.9
65°	5.0
67.5°	2.5
70°	2.5
72.5°	1.2
75°	1.2
77.5°	1.2
80°	0.0
82.5°	0.0
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)