

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: P641243

Luminaire Tested: ML5612LSVWFL7597FS1E - 591WB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641243  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-70)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 591WB - 900LM - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 5" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1254.2 lumens  
Efficiency: N/A  
Efficacy: 94.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

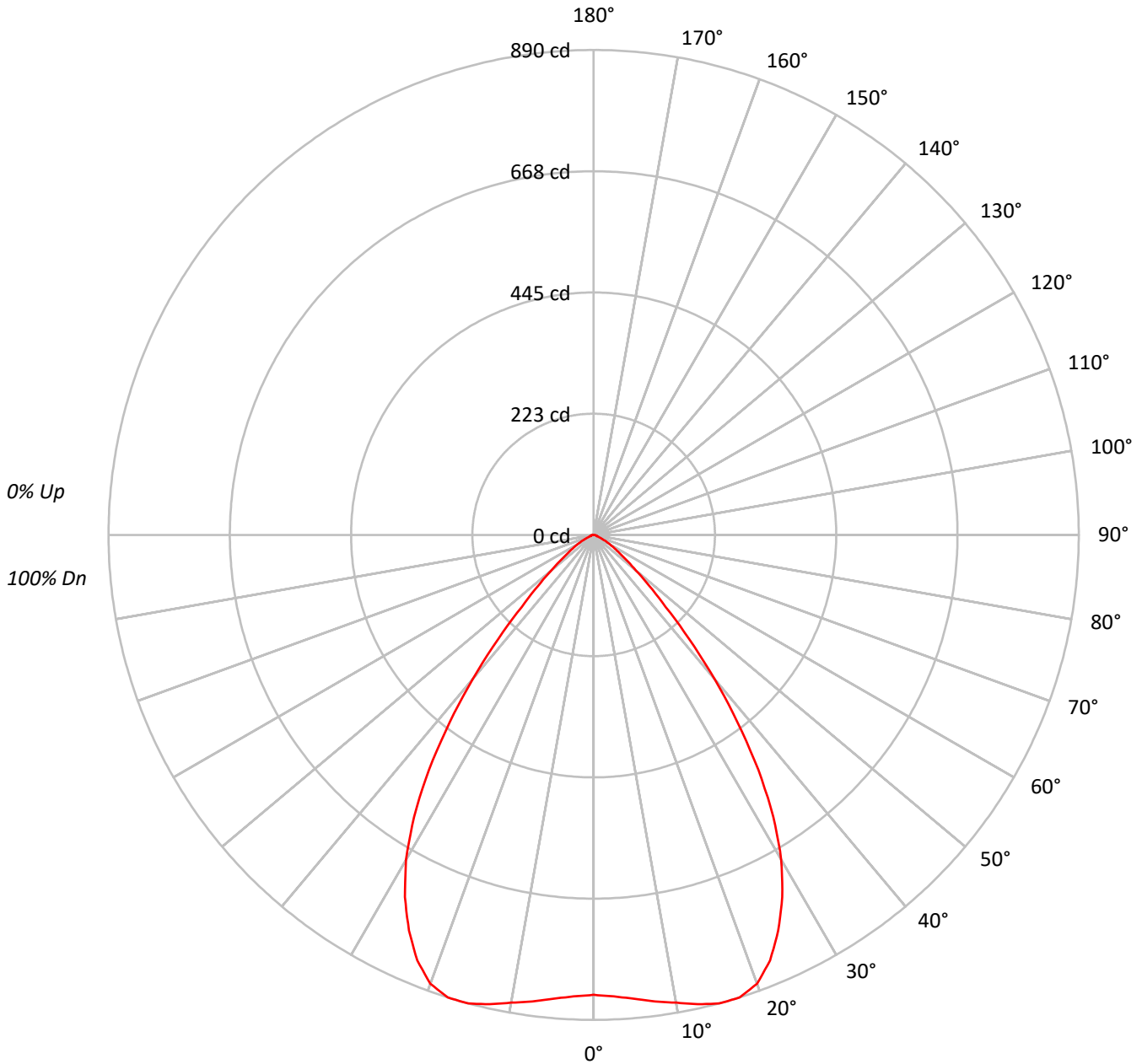
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	110	107	104	110	107	105	103	103	101	99	99	98	96	96	95	94	92		
2	106	101	96	92	104	99	95	91	95	92	89	92	90	87	90	87	85	83		
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76		
4	94	85	79	74	92	84	78	73	82	77	73	80	75	72	78	74	71	69		
5	88	79	72	67	86	78	71	67	76	70	66	74	69	65	72	68	65	63		
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58		
7	78	68	61	56	77	67	60	56	65	60	55	64	59	55	63	58	55	53		
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	51	49		
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45		
10	66	55	48	44	65	54	48	44	54	48	44	53	47	44	52	47	44	42		

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

	0°
0°	46268
5°	47017
10°	48524
15°	50517
20°	51122
25°	48469
30°	43570
35°	35262
40°	24675
45°	14482
50°	8656
55°	5400
60°	3662
65°	2088
70°	1106
75°	974
80°	1105
85°	1447

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14482 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.1	6.5
10°-20°	250.7	20.0
20°-30°	365.2	29.1
30°-40°	324.0	25.8
40°-50°	153.4	12.2
50°-60°	53.6	4.3
60°-70°	17.4	1.4
70°-80°	5.3	0.4
80°-90°	2.4	0.2
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°	698.1	55.7
0°-40°	1022.1	81.5
0°-60°	1229.1	98.0
0°-90°	1254.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1254.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	844	
5°	854	82
15°	890	251
25°	801	365
35°	527	324
45°	187	153
55°	56	54
65°	16	17
75°	5	5
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	844.0
2.5°	847.5
5°	854.4
7.5°	863.6
10°	871.7
12.5°	882.1
15°	890.1
17.5°	890.1
20°	876.3
22.5°	845.2
25°	801.3
27.5°	749.5
30°	688.3
32.5°	613.4
35°	526.9
37.5°	433.5
40°	344.8
42.5°	258.3
45°	186.8
47.5°	137.2
50°	101.5
52.5°	73.8
55°	56.5
57.5°	43.8
60°	33.4
62.5°	24.2
65°	16.1
67.5°	10.4
70°	6.9
72.5°	5.8
75°	4.6
77.5°	4.6
80°	3.5
82.5°	3.5
85°	2.3
87.5°	1.2
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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Scaled Data Report



(END OF REPORT)