

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: P641424

Luminaire Tested: ML5612LSVWFL7597FS1E - 691WB - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-82)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 691WB - 900LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1355.6 lumens  
Efficiency: N/A  
Efficacy: 101.9 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

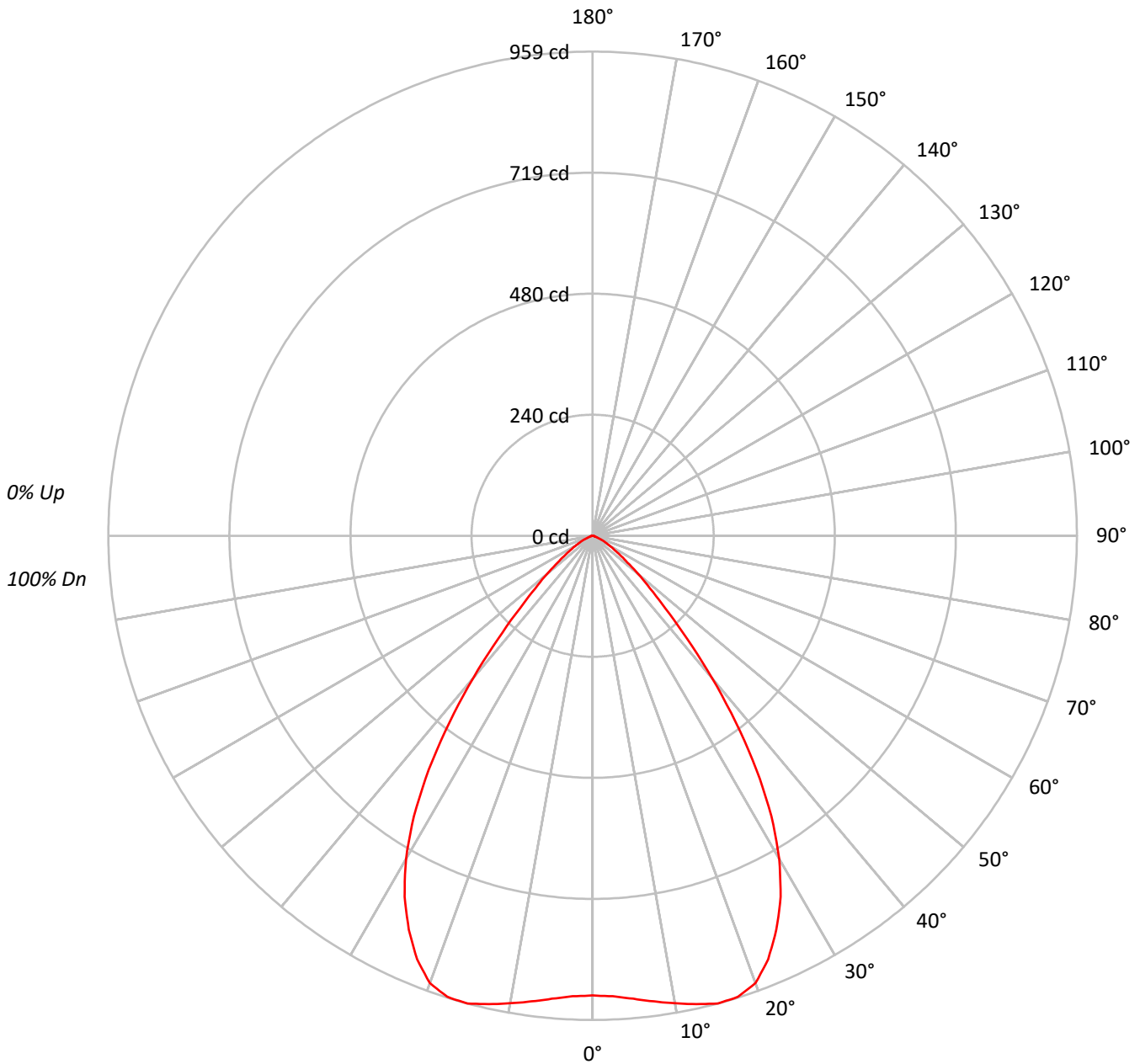
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	113	110	107	104	110	107	105	103	103	101	99	100	98	96	96	95	94	92																			
2	106	100	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	76	72	79	75	72	78	74	71	69																			
5	88	78	72	67	86	77	71	67	76	70	66	74	69	65	72	68	65	63																			
6	83	73	66	61	81	72	65	61	70	64	60	69	64	60	67	63	59	58																			
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53																			
8	73	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49																			
9	69	58	52	47	68	58	52	47	57	51	47	56	51	47	55	50	47	45																			
10	66	55	48	44	65	54	48	44	53	48	44	53	47	44	52	47	43	42																			

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

	0°
0°	49914
5°	50649
10°	52337
15°	54421
20°	54996
25°	52074
30°	46798
35°	37852
40°	26278
45°	15769
50°	10047
55°	6279
60°	4221
65°	2737
70°	1394
75°	784
80°	789
85°	755

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15769 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.5	6.5
10°-20°	270.0	19.9
20°-30°	392.6	29.0
30°-40°	347.6	25.6
40°-50°	167.0	12.3
50°-60°	62.2	4.6
60°-70°	21.4	1.6
70°-80°	4.7	0.3
80°-90°	1.7	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°	751.0	55.4
0°-40°	1098.6	81.0
0°-60°	1327.9	98.0
0°-90°	1355.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1355.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	910	
5°	920	89
15°	959	270
25°	861	393
35°	566	348
45°	203	167
55°	66	62
65°	21	21
75°	4	5
85°	1	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	910.5
2.5°	913.0
5°	920.4
7.5°	930.3
10°	940.2
12.5°	950.2
15°	958.9
17.5°	957.6
20°	942.7
22.5°	908.0
25°	860.9
27.5°	806.3
30°	739.3
32.5°	658.7
35°	565.6
37.5°	465.2
40°	367.2
42.5°	276.6
45°	203.4
47.5°	153.8
50°	117.8
52.5°	86.8
55°	65.7
57.5°	49.6
60°	38.5
62.5°	29.8
65°	21.1
67.5°	12.4
70°	8.7
72.5°	5.0
75°	3.7
77.5°	3.7
80°	2.5
82.5°	2.5
85°	1.2
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)