

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: P641238

Luminaire Tested: ML5612LSVWFL7597FS1E - 591WB - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641238  
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 - 600LM - 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: 977.6 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

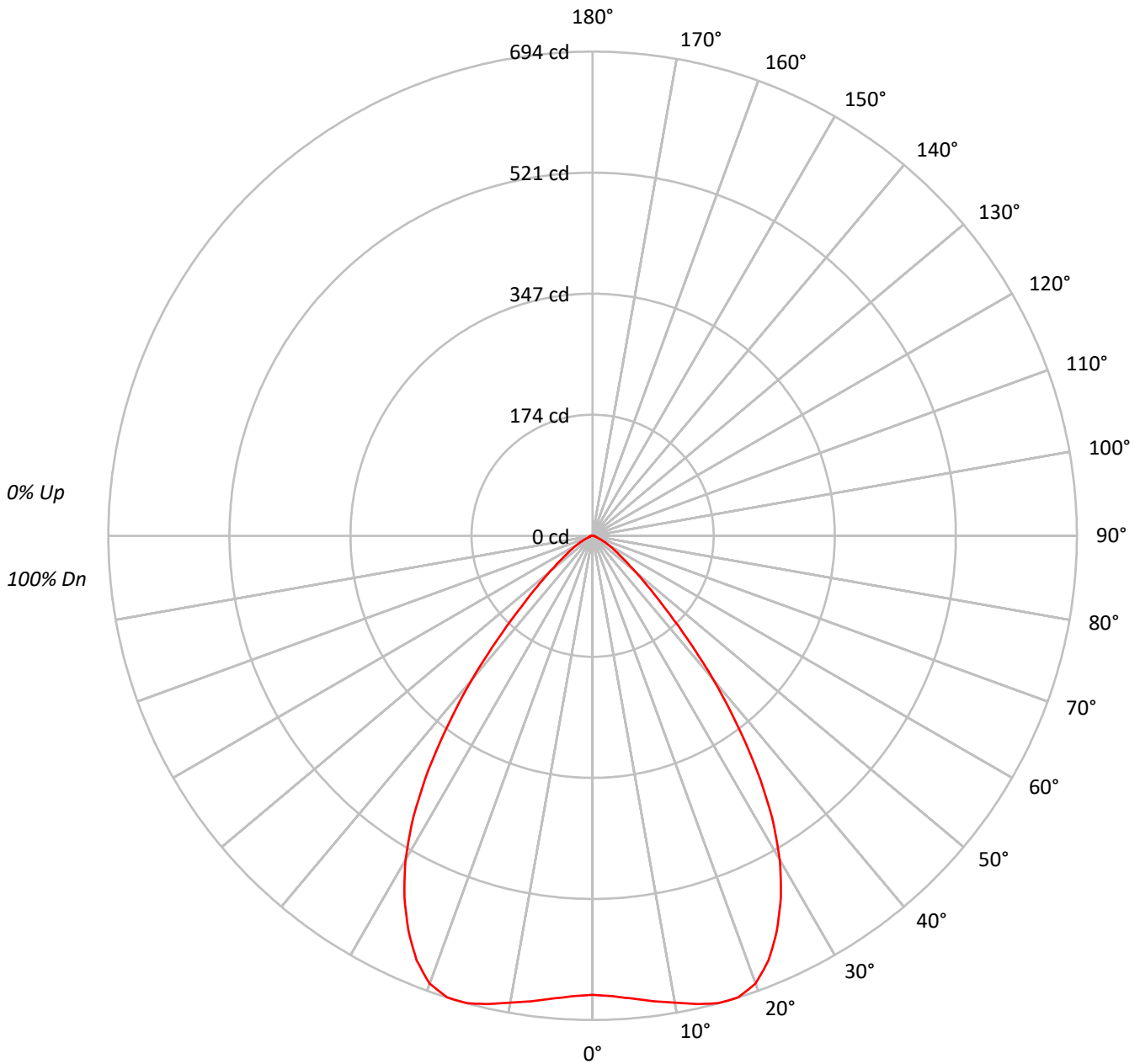
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20									20									20									20									
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	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°	36066
5°	36644
10°	37819
15°	39376
20°	39845
25°	37780
30°	33961
35°	27485
40°	19229
45°	11288
50°	6746
55°	4205
60°	2862
65°	1634
70°	866
75°	763
80°	852
85°	1132

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11288 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.0	6.5
10°-20°	195.4	20.0
20°-30°	284.7	29.1
30°-40°	252.5	25.8
40°-50°	119.5	12.2
50°-60°	41.8	4.3
60°-70°	13.6	1.4
70°-80°	4.2	0.4
80°-90°	1.8	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°	544.1	55.7
0°-40°	796.7	81.5
0°-60°	958.0	98.0
0°-90°	977.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	977.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	658	
5°	666	64
15°	694	195
25°	625	285
35°	411	253
45°	146	120
55°	44	42
65°	13	14
75°	4	4
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	657.9
2.5°	660.6
5°	665.9
7.5°	673.1
10°	679.4
12.5°	687.5
15°	693.8
17.5°	693.8
20°	683.0
22.5°	658.8
25°	624.6
27.5°	584.2
30°	536.5
32.5°	478.1
35°	410.7
37.5°	337.9
40°	268.7
42.5°	201.3
45°	145.6
47.5°	106.9
50°	79.1
52.5°	57.5
55°	44.0
57.5°	34.2
60°	26.1
62.5°	18.9
65°	12.6
67.5°	8.1
70°	5.4
72.5°	4.5
75°	3.6
77.5°	3.6
80°	2.7
82.5°	2.7
85°	1.8
87.5°	0.9
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)