

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: P641553

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641553  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-90)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 694WB - 600LM - 3500K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 992.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

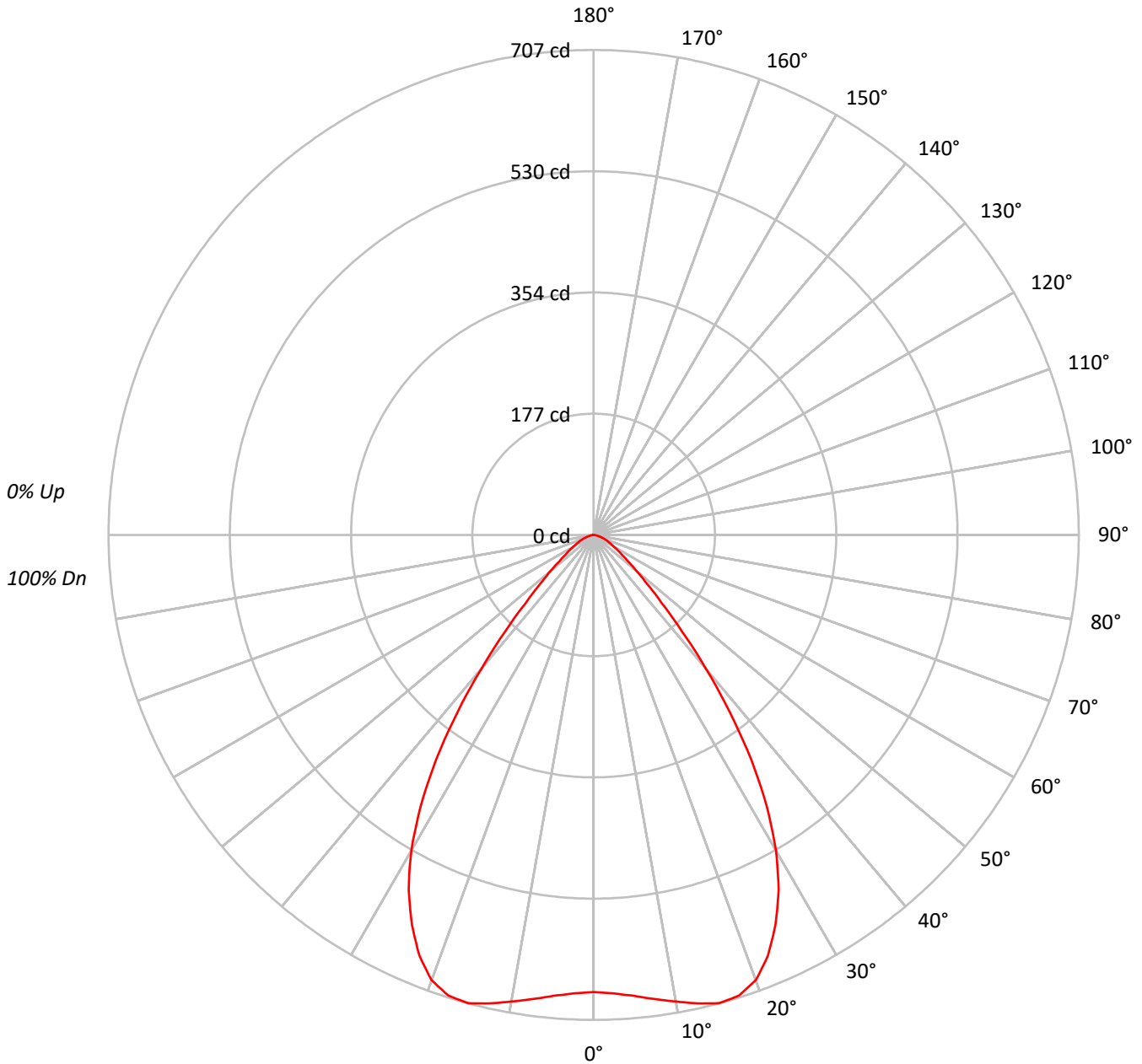
Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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			
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	85	83			
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75			
4	93	84	78	73	91	83	77	73	81	76	72	79	74	71	77	73	70	68			
5	88	78	71	66	86	77	71	66	75	69	65	73	68	65	72	67	64	62			
6	82	72	65	60	81	71	65	60	70	64	60	68	63	59	67	62	59	57			
7	78	67	60	55	76	66	60	55	65	59	55	64	58	54	62	58	54	53			
8	73	62	56	51	72	62	55	51	61	55	50	59	54	50	58	54	50	48			
9	69	58	51	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45			
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	51	47	43	42			

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

	0°
0°	36532
5°	37117
10°	38448
15°	40114
20°	40294
25°	37920
30°	33657
35°	26809
40°	18256
45°	10862
50°	6968
55°	4807
60°	3739
65°	3035
70°	2452
75°	1906
80°	1137
85°	566

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10862 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.9	6.5
10°-20°	198.6	20.0
20°-30°	285.5	28.8
30°-40°	246.2	24.8
40°-50°	115.1	11.6
50°-60°	47.2	4.8
60°-70°	23.6	2.4
70°-80°	9.6	1.0
80°-90°	1.2	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°	549.0	55.3
0°-40°	795.2	80.2
0°-60°	957.5	96.5
0°-90°	992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	666	
5°	674	65
15°	707	199
25°	627	285
35°	401	246
45°	140	115
55°	50	47
65°	23	24
75°	9	10
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	666.4
2.5°	669.1
5°	674.5
7.5°	682.6
10°	690.7
12.5°	699.6
15°	706.8
17.5°	704.1
20°	690.7
22.5°	663.7
25°	626.9
27.5°	583.8
30°	531.7
32.5°	469.7
35°	400.6
37.5°	326.0
40°	255.1
42.5°	190.4
45°	140.1
47.5°	105.1
50°	81.7
52.5°	62.9
55°	50.3
57.5°	41.3
60°	34.1
62.5°	27.8
65°	23.4
67.5°	19.8
70°	15.3
72.5°	11.7
75°	9.0
77.5°	6.3
80°	3.6
82.5°	1.8
85°	0.9
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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Scaled Data Report



(END OF REPORT)