

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: P641551

Luminaire Tested: ML5612LSVWFL7597FS1E - 694WB - 600LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641551  
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 - 2700K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE GIMBAL TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

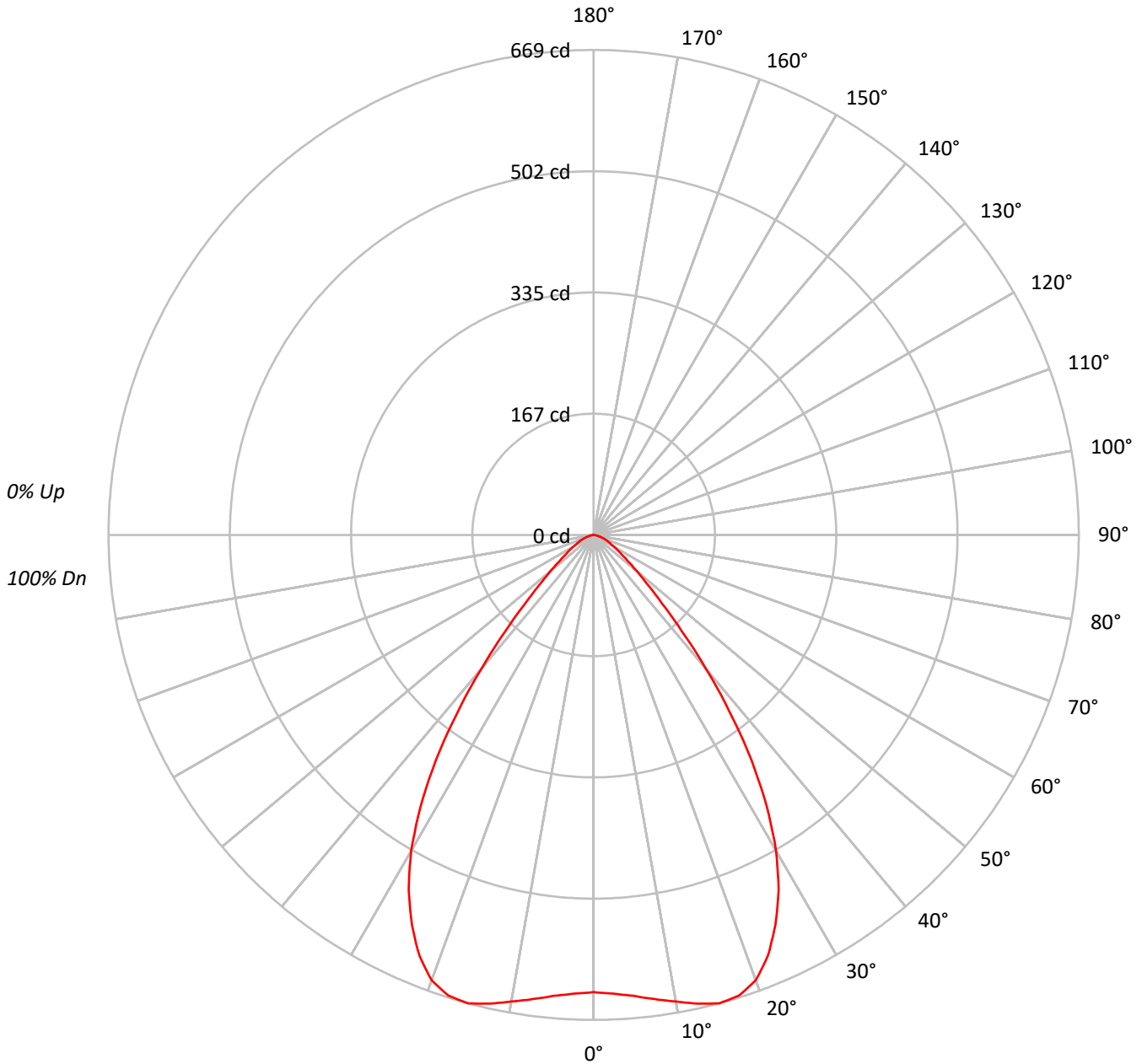
Lumens per Lamp: N/A  
Luminaire Lumens: 938.9 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.08  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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°	34575
5°	35131
10°	36389
15°	37968
20°	38136
25°	35887
30°	31853
35°	25371
40°	17275
45°	10280
50°	6601
55°	4549
60°	3541
65°	2867
70°	2324
75°	1800
80°	1073
85°	566

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10280 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.4	6.5
10°-20°	187.9	20.0
20°-30°	270.2	28.8
30°-40°	233.0	24.8
40°-50°	109.0	11.6
50°-60°	44.7	4.8
60°-70°	22.4	2.4
70°-80°	9.1	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°	519.6	55.3
0°-40°	752.6	80.2
0°-60°	906.3	96.5
0°-90°	938.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	938.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	631	
5°	638	61
15°	669	188
25°	593	270
35°	379	233
45°	133	109
55°	48	45
65°	22	22
75°	8	9
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	630.7
2.5°	633.3
5°	638.4
7.5°	646.0
10°	653.7
12.5°	662.2
15°	669.0
17.5°	666.4
20°	653.7
22.5°	628.2
25°	593.3
27.5°	552.5
30°	503.2
32.5°	444.6
35°	379.1
37.5°	308.6
40°	241.4
42.5°	180.2
45°	132.6
47.5°	99.5
50°	77.4
52.5°	59.5
55°	47.6
57.5°	39.1
60°	32.3
62.5°	26.4
65°	22.1
67.5°	18.7
70°	14.5
72.5°	11.1
75°	8.5
77.5°	6.0
80°	3.4
82.5°	1.7
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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(END OF REPORT)