

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: P641469

Luminaire Tested: ML5612LSVWFL7597FS1E - 692W - 900LM - 4000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641469  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-85)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSVWFL7597FS1E - 692W - 900LM - 4000K  
Description: ML56 RR, 75D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1356.9 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.09  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

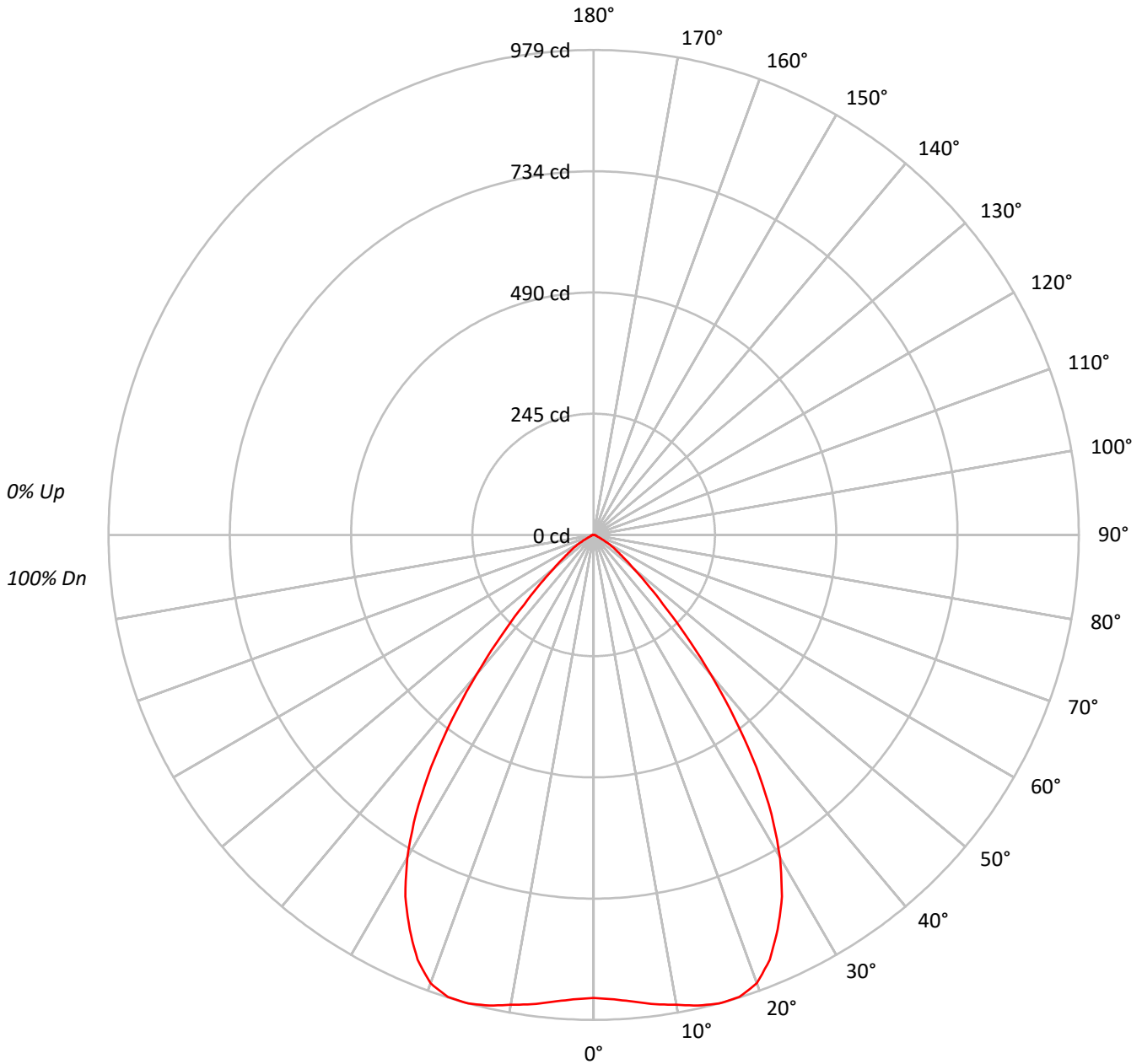
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									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	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	100	100	98	97	96	95	94	92																												
2	106	101	96	92	104	99	95	91	96	92	89	93	90	87	90	88	86	84																												
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76																												
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70																												
5	88	79	72	68	87	78	72	67	76	71	67	74	70	66	73	69	65	64																												
6	83	73	66	62	82	72	66	61	71	65	61	69	64	61	68	64	60	58																												
7	78	68	61	56	77	67	61	56	66	60	56	65	60	56	63	59	55	54																												
8	74	63	57	52	73	63	56	52	62	56	52	60	55	51	59	55	51	50																												
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46																												
10	66	55	49	45	65	55	49	45	54	48	44	53	48	44	52	48	44	43																												

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

	0°
0°	51235
5°	52047
10°	53612
15°	55579
20°	56186
25°	53150
30°	47609
35°	38293
40°	26292
45°	15397
50°	8895
55°	5696
60°	3399
65°	1608
70°	994
75°	1059
80°	789
85°	755

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15397 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.9	6.7
10°-20°	276.0	20.3
20°-30°	400.7	29.5
30°-40°	351.3	25.9
40°-50°	162.3	12.0
50°-60°	55.2	4.1
60°-70°	14.0	1.0
70°-80°	5.1	0.4
80°-90°	1.3	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°	767.6	56.6
0°-40°	1118.9	82.5
0°-60°	1336.5	98.5
0°-90°	1356.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1356.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	935	
5°	946	91
15°	979	276
25°	879	401
35°	572	351
45°	199	162
55°	60	55
65°	12	14
75°	5	5
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	934.6
2.5°	938.3
5°	945.8
7.5°	955.7
10°	963.1
12.5°	973.1
15°	979.3
17.5°	978.0
20°	963.1
22.5°	928.4
25°	878.7
27.5°	822.9
30°	752.1
32.5°	667.7
35°	572.2
37.5°	467.9
40°	367.4
42.5°	274.3
45°	198.6
47.5°	144.0
50°	104.3
52.5°	77.0
55°	59.6
57.5°	44.7
60°	31.0
62.5°	18.6
65°	12.4
67.5°	7.4
70°	6.2
72.5°	6.2
75°	5.0
77.5°	3.7
80°	2.5
82.5°	2.5
85°	1.2
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)