

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: P641123

Luminaire Tested: ML5612LSNFL2597FS1E - 692W - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641123  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 692W - 900LM - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

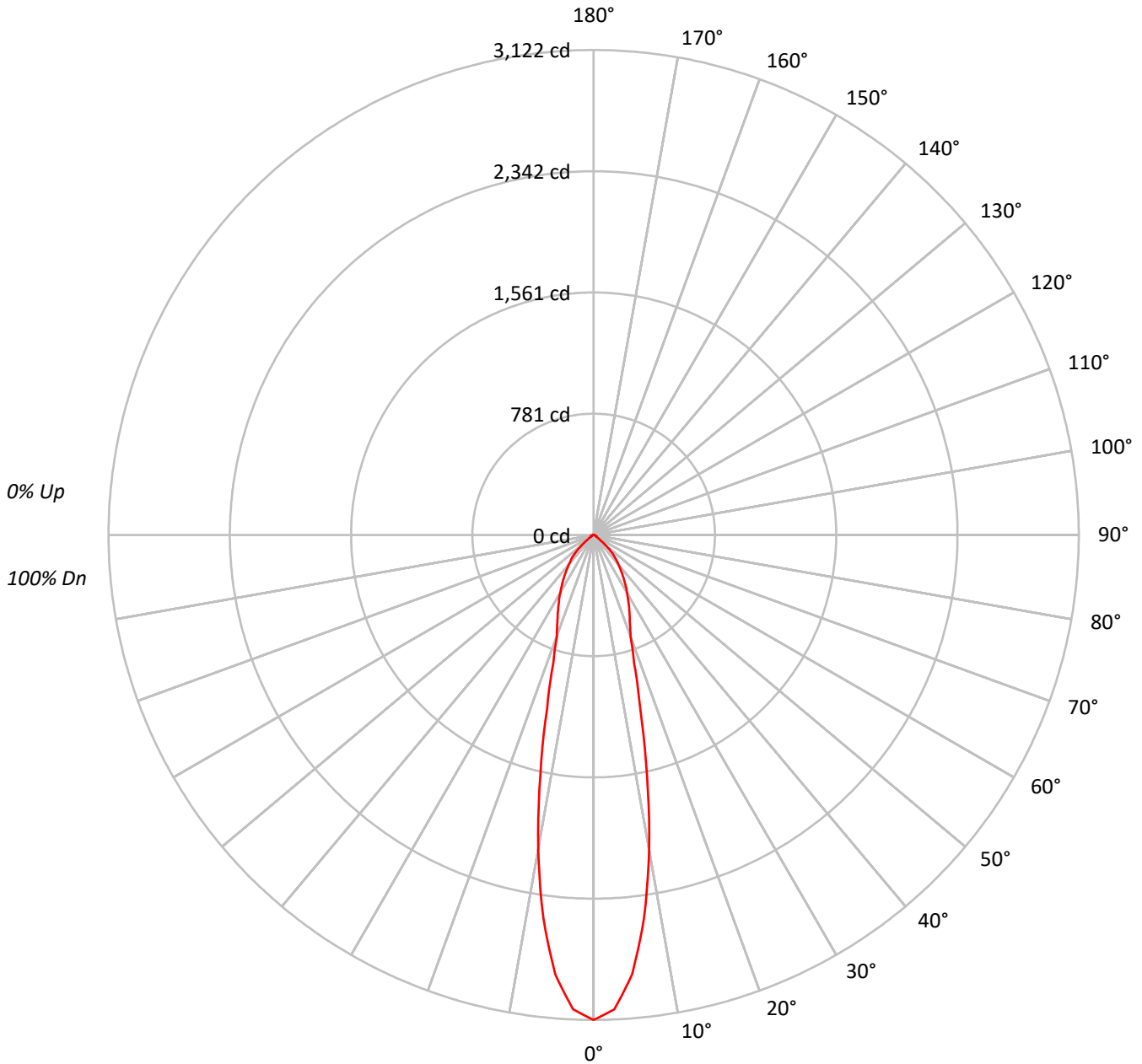
Lumens per Lamp: N/A  
Luminaire Lumens: 1233.4 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 13.3  
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	111	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93																			
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81																			
4	97	90	84	80	95	89	83	79	86	82	78	84	81	78	83	79	77	75																			
5	93	84	78	74	91	83	78	74	82	77	73	80	76	73	78	75	72	70																			
6	88	79	74	69	87	79	73	69	77	72	69	76	71	68	74	71	68	66																			
7	84	75	69	65	83	74	69	65	73	68	65	72	68	64	71	67	64	62																			
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	64	61	59																			
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	57	56																			
10	74	65	59	55	73	64	59	55	63	58	55	63	58	55	62	58	55	54																			

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

	0°
0°	171154
5°	156201
10°	114577
15°	65670
20°	40475
25°	32905
30°	27213
35°	22212
40°	17812
45°	13846
50°	7667
55°	2972
60°	2401
65°	2088
70°	1843
75°	1949
80°	1831
85°	1447

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13846 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.5	19.9
10°-20°	332.8	27.0
20°-30°	250.9	20.3
30°-40°	208.0	16.9
40°-50°	132.6	10.8
50°-60°	35.3	2.9
60°-70°	16.4	1.3
70°-80°	9.3	0.8
80°-90°	2.7	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°	829.2	67.2
0°-40°	1037.2	84.1
0°-60°	1205.1	97.7
0°-90°	1233.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3122	
5°	2838	246
15°	1157	333
25°	544	251
35°	332	208
45°	179	133
55°	31	35
65°	16	16
75°	9	9
85°	2	3
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3122.1
2.5°	3057.5
5°	2838.5
7.5°	2485.9
10°	2058.3
12.5°	1583.5
15°	1157.1
17.5°	863.2
20°	693.8
22.5°	608.5
25°	544.0
27.5°	484.0
30°	429.9
32.5°	379.2
35°	331.9
37.5°	288.1
40°	248.9
42.5°	213.2
45°	178.6
47.5°	132.5
50°	89.9
52.5°	47.3
55°	31.1
57.5°	25.4
60°	21.9
62.5°	19.6
65°	16.1
67.5°	13.8
70°	11.5
72.5°	10.4
75°	9.2
77.5°	6.9
80°	5.8
82.5°	3.5
85°	2.3
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)