

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: P640945

Luminaire Tested: ML5612LSNFL2597FS1E - 592W - 900LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640945  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-4)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 592W - 900LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1296.6 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

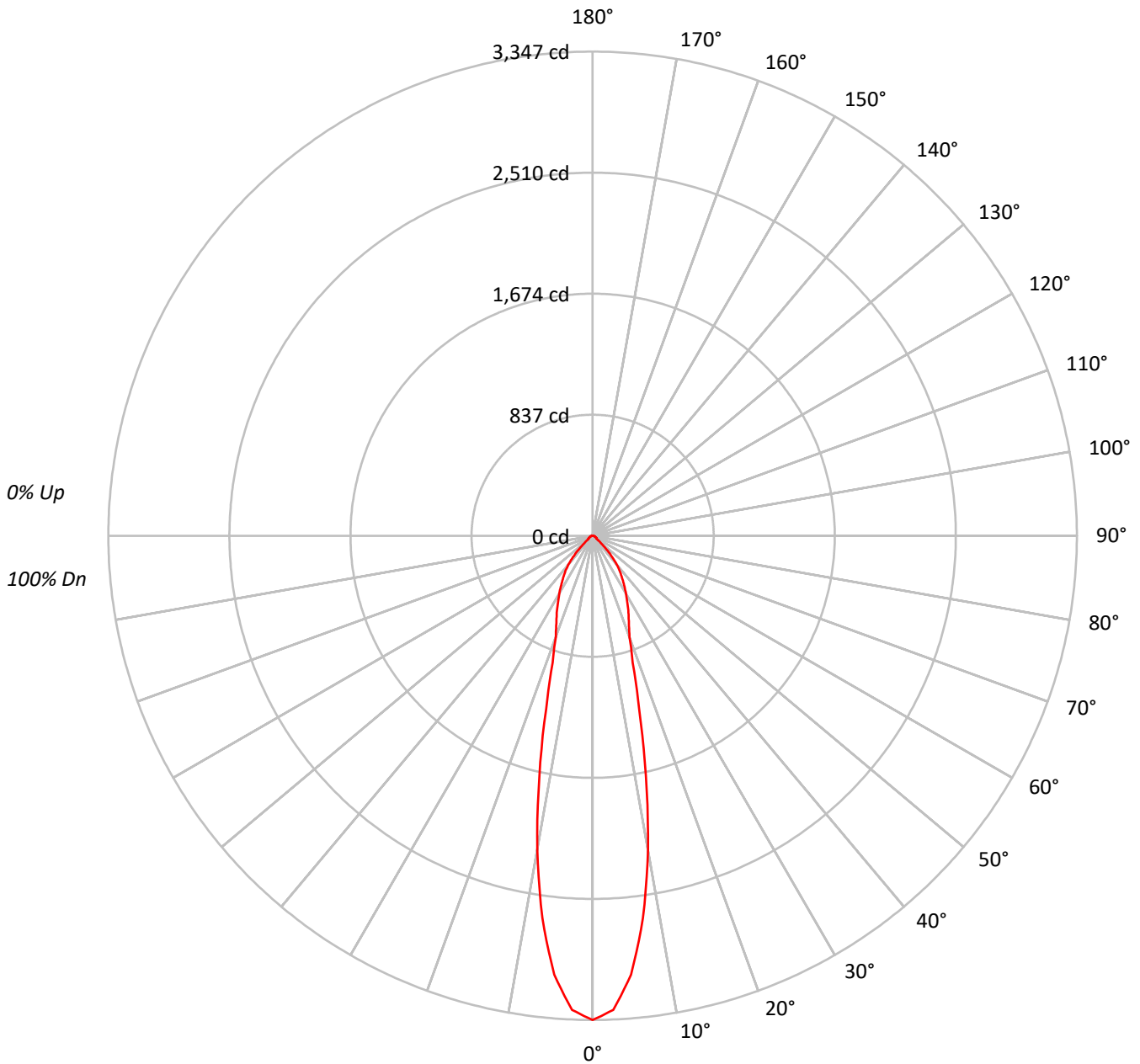
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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									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			100																
1	113	110	108	106	111	108	106	104	104	102	101	100	99	98	97	96	95	93			93																
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86			86																
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81			81																
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75			75																
5	93	84	79	74	91	84	78	74	82	77	73	80	76	73	79	75	72	71			71																
6	88	80	74	70	87	79	73	69	77	73	69	76	72	69	75	71	68	67			67																
7	85	76	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63			63																
8	81	72	66	62	80	71	66	62	70	65	62	69	65	61	68	64	61	60			60																
9	78	68	63	59	76	68	62	59	67	62	59	66	62	58	65	61	58	57			57																
10	74	65	60	56	73	65	59	56	64	59	56	63	59	56	63	58	55	54			54																

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

	0°
0°	264239
5°	241262
10°	176622
15°	101397
20°	62434
25°	51007
30°	41848
35°	34076
40°	26845
45°	16623
50°	6251
55°	4776
60°	4500
65°	4165
70°	4016
75°	4148
80°	3955
85°	3351

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16623 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.2	20.3
10°-20°	356.1	27.5
20°-30°	269.1	20.8
30°-40°	221.7	17.1
40°-50°	113.4	8.7
50°-60°	32.4	2.5
60°-70°	22.3	1.7
70°-80°	14.2	1.1
80°-90°	4.2	0.3
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°	888.4	68.5
0°-40°	1110.1	85.6
0°-60°	1255.9	96.9
0°-90°	1296.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1296.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3347	
5°	3045	263
15°	1241	356
25°	586	269
35°	354	222
45°	149	113
55°	35	32
65°	22	22
75°	14	14
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3347.3
2.5°	3280.4
5°	3044.6
7.5°	2665.0
10°	2203.4
12.5°	1697.2
15°	1240.7
17.5°	919.3
20°	743.2
22.5°	652.6
25°	585.6
27.5°	518.6
30°	459.1
32.5°	404.5
35°	353.6
37.5°	308.9
40°	260.5
42.5°	201.0
45°	148.9
47.5°	91.8
50°	50.9
52.5°	39.7
55°	34.7
57.5°	31.0
60°	28.5
62.5°	24.8
65°	22.3
67.5°	19.9
70°	17.4
72.5°	16.1
75°	13.6
77.5°	11.2
80°	8.7
82.5°	6.2
85°	3.7
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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(END OF REPORT)