

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P640913

Luminaire Tested: ML5612LSNFL2597FS1E - 592H - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640913  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-3)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 592H - 900LM - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 5" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1212.7 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.46  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

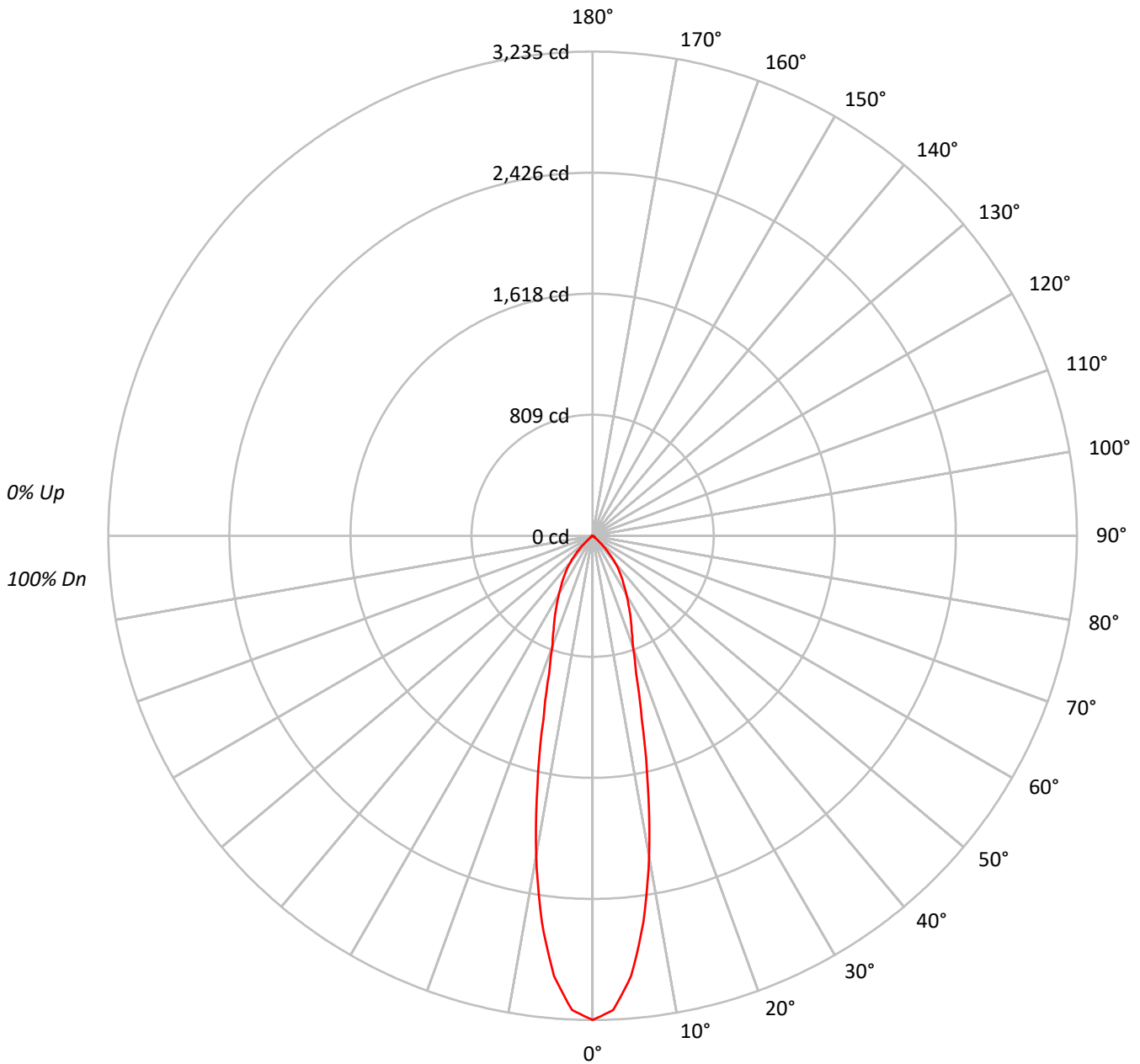
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20				20				20				20				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			100
1	114	111	109	107	112	109	107	105	105	104	102	101	100	99	98	97	96	94			94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89			89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83			83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79			79
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74			74
6	91	82	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70			70
7	87	78	73	69	86	78	72	69	76	72	68	75	71	68	74	71	68	66			66
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63			63
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60			60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	61	59	57			57

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

	0°
0°	255374
5°	234035
10°	174289
15°	103939
20°	65929
25°	52069
30°	41028
35°	32139
40°	23908
45°	13397
50°	3402
55°	1748
60°	1279
65°	430
70°	277
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13397 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.5	21.2
10°-20°	363.6	30.0
20°-30°	274.9	22.7
30°-40°	209.2	17.2
40°-50°	92.0	7.6
50°-60°	12.9	1.1
60°-70°	3.1	0.3
70°-80°	0.5	0.0
80°-90°	0.0	0.0
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°	895.0	73.8
0°-40°	1104.2	91.1
0°-60°	1209.1	99.7
0°-90°	1212.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1212.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3235	
5°	2953	257
15°	1272	364
25°	598	275
35°	334	209
45°	120	92
55°	13	13
65°	2	3
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3235.0
2.5°	3171.5
5°	2953.4
7.5°	2601.4
10°	2174.3
12.5°	1702.3
15°	1271.8
17.5°	967.1
20°	784.8
22.5°	680.9
25°	597.8
27.5°	518.2
30°	450.1
32.5°	387.8
35°	333.5
37.5°	286.2
40°	232.0
42.5°	173.1
45°	120.0
47.5°	63.5
50°	27.7
52.5°	17.3
55°	12.7
57.5°	10.4
60°	8.1
62.5°	4.6
65°	2.3
67.5°	1.2
70°	1.2
72.5°	1.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)