

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: P641093

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

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641093  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 692H - 900LM - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1223.1 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

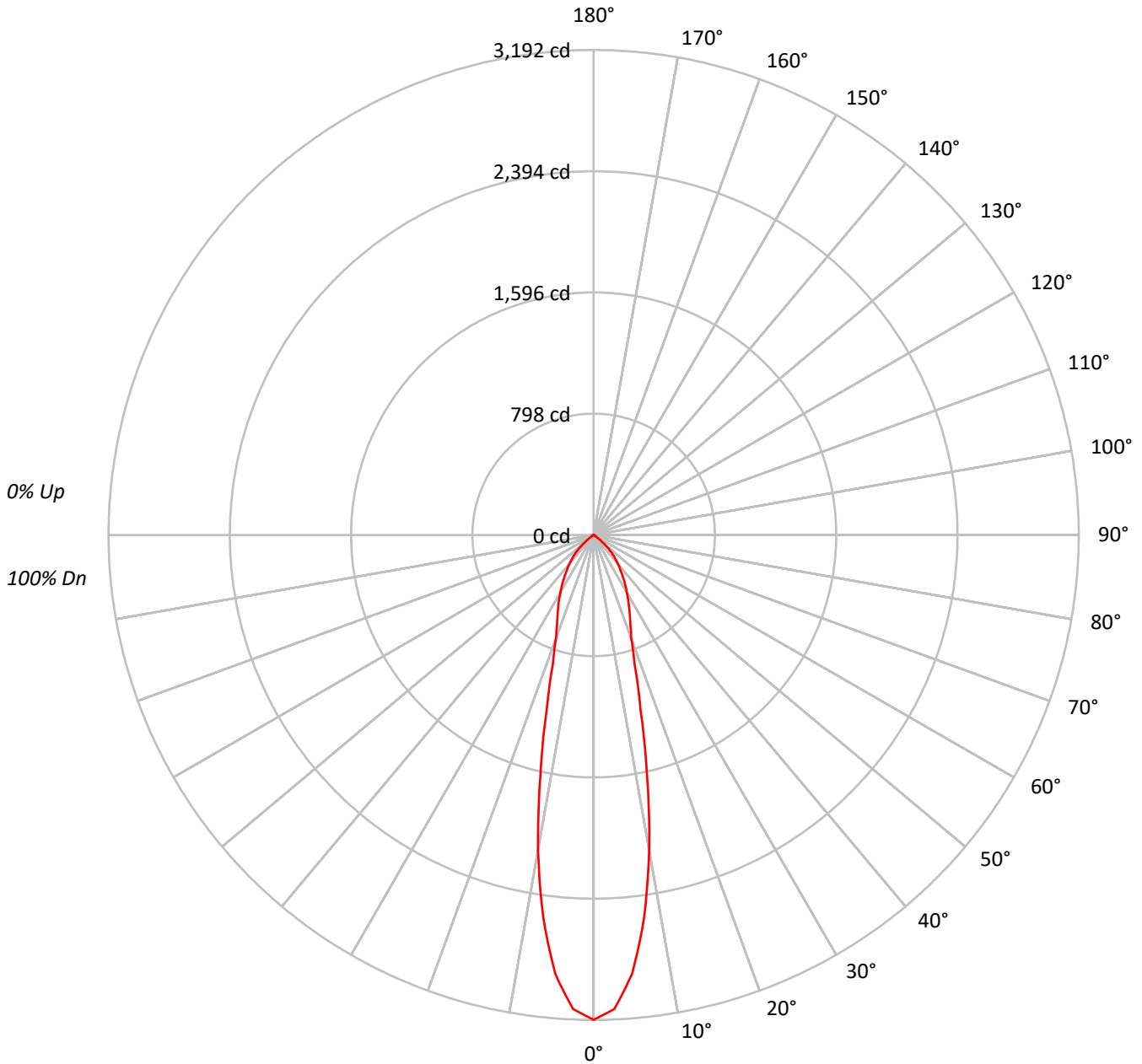
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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	114	111	109	106	111	109	107	105	105	103	102	101	100	99	98	97	96	94				
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88				
3	103	97	92	88	101	96	91	88	93	89	86	91	87	85	88	86	84	82				
4	98	91	86	82	96	90	85	81	88	83	80	86	82	79	84	81	78	77				
5	94	86	80	76	92	85	79	76	83	78	75	81	77	74	80	76	74	72				
6	89	81	75	71	88	80	75	71	79	74	70	77	73	70	76	72	69	68				
7	85	77	71	67	84	76	70	67	75	70	66	73	69	66	72	69	66	64				
8	82	73	67	63	81	72	67	63	71	66	63	70	66	62	69	65	62	61				
9	78	69	64	60	77	69	63	60	68	63	60	67	63	59	66	62	59	58				
10	75	66	61	57	74	66	60	57	65	60	57	64	60	57	63	59	56	55				

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

	0°
0°	174964
5°	159580
10°	117266
15°	67793
20°	42109
25°	33825
30°	27662
35°	22379
40°	17655
45°	13319
50°	6883
55°	1988
60°	1261
65°	752
70°	369
75°	254
80°	379
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13319 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.0	20.5
10°-20°	342.8	28.0
20°-30°	258.1	21.1
30°-40°	209.6	17.1
40°-50°	127.9	10.5
50°-60°	26.4	2.2
60°-70°	5.7	0.5
70°-80°	1.4	0.1
80°-90°	0.2	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°	852.0	69.7
0°-40°	1061.6	86.8
0°-60°	1215.9	99.4
0°-90°	1223.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1223.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3192	
5°	2900	251
15°	1194	343
25°	559	258
35°	334	210
45°	172	128
55°	21	26
65°	6	6
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3191.6
2.5°	3123.6
5°	2899.9
7.5°	2542.4
10°	2106.6
12.5°	1622.3
15°	1194.5
17.5°	894.8
20°	721.8
22.5°	628.4
25°	559.2
27.5°	495.8
30°	437.0
32.5°	385.1
35°	334.4
37.5°	288.3
40°	246.7
42.5°	209.9
45°	171.8
47.5°	124.5
50°	80.7
52.5°	38.0
55°	20.8
57.5°	15.0
60°	11.5
62.5°	8.1
65°	5.8
67.5°	2.3
70°	2.3
72.5°	1.2
75°	1.2
77.5°	1.2
80°	1.2
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)