

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: P640898

Luminaire Tested: ML5612LSNFL2597FS1E - 591WB - 900LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640898  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-1)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSNFL2597FS1E - 591WB - 900LM - 3500K  
Description: ML56 RR, 25D TIR OPTIC, 5" DEADFRONT TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

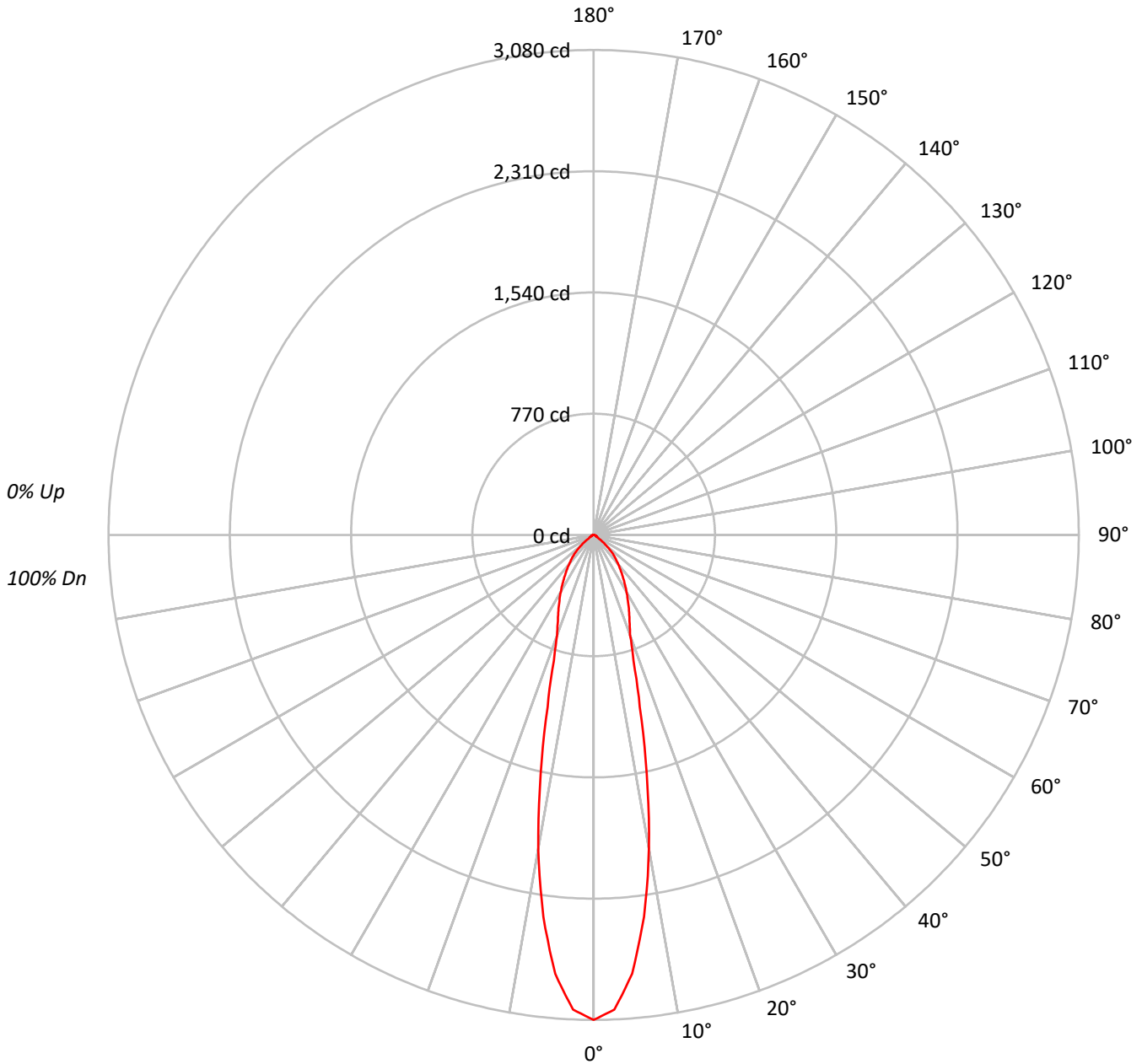
Lumens per Lamp: N/A  
Luminaire Lumens: 1224.3 lumens  
Efficiency: N/A  
Efficacy: 92.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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																			
1	113	110	108	105	111	108	106	104	104	102	101	100	99	98	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	95	90	86	100	94	89	86	91	87	84	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	81	78	84	80	77	82	79	76	75																			
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70																			
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	66																			
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62																			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58																			
9	77	67	61	58	76	67	61	57	66	61	57	65	60	57	64	60	57	56																			
10	73	64	58	55	72	64	58	55	63	58	54	62	58	54	61	57	54	53																			

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

	0°
0°	243146
5°	221689
10°	162225
15°	92358
20°	56864
25°	46207
30°	38056
35°	30896
40°	24959
45°	19950
50°	13030
55°	5712
60°	3647
65°	3231
70°	2931
75°	2806
80°	3137
85°	3170

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19950 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.8	19.8
10°-20°	325.3	26.6
20°-30°	244.3	20.0
30°-40°	201.4	16.5
40°-50°	134.3	11.0
50°-60°	45.6	3.7
60°-70°	17.6	1.4
70°-80°	9.9	0.8
80°-90°	4.1	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°	811.4	66.3
0°-40°	1012.9	82.7
0°-60°	1192.7	97.4
0°-90°	1224.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3080	
5°	2798	242
15°	1130	325
25°	530	244
35°	321	201
45°	179	134
55°	42	46
65°	17	18
75°	9	10
85°	4	4
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3080.1
2.5°	3016.7
5°	2797.6
7.5°	2445.9
10°	2023.8
12.5°	1553.3
15°	1130.1
17.5°	838.4
20°	676.9
22.5°	592.7
25°	530.5
27.5°	470.5
30°	417.5
32.5°	366.7
35°	320.6
37.5°	279.1
40°	242.2
42.5°	208.7
45°	178.7
47.5°	139.5
50°	106.1
52.5°	72.7
55°	41.5
57.5°	27.7
60°	23.1
62.5°	20.8
65°	17.3
67.5°	15.0
70°	12.7
72.5°	10.4
75°	9.2
77.5°	8.1
80°	6.9
82.5°	5.8
85°	3.5
87.5°	2.3
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)