

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: P641120

Luminaire Tested: ML5612LSNFL2597FS1E - 692W - 600LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641120  
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 - 600LM - 5000K  
Description: ML56 RR, 25D TIR OPTIC, 6" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

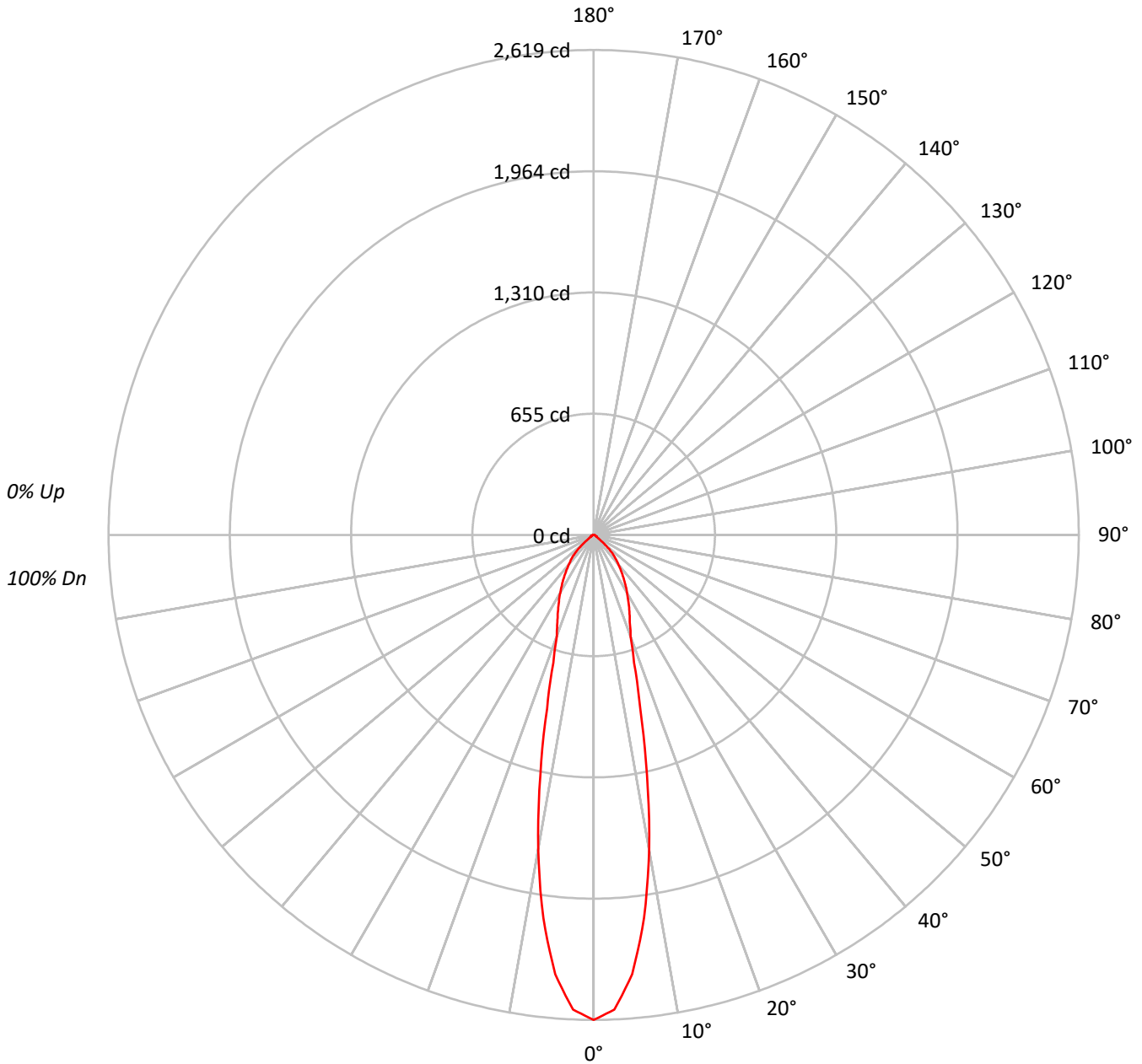
Lumens per Lamp: N/A  
Luminaire Lumens: 1034.8 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
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			
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°	143590
5°	131053
10°	96129
15°	55097
20°	33959
25°	27606
30°	22833
35°	18638
40°	14942
45°	11621
50°	6430
55°	2495
60°	2017
65°	1751
70°	1555
75°	1631
80°	1515
85°	1195

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11621 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.0	19.9
10°-20°	279.2	27.0
20°-30°	210.5	20.3
30°-40°	174.5	16.9
40°-50°	111.3	10.8
50°-60°	29.6	2.9
60°-70°	13.7	1.3
70°-80°	7.8	0.8
80°-90°	2.2	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°	695.7	67.2
0°-40°	870.2	84.1
0°-60°	1011.1	97.7
0°-90°	1034.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1034.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2619	
5°	2382	206
15°	971	279
25°	456	210
35°	278	175
45°	150	111
55°	26	30
65°	14	14
75°	8	8
85°	2	2
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2619.3
2.5°	2565.2
5°	2381.5
7.5°	2085.6
10°	1726.9
12.5°	1328.5
15°	970.8
17.5°	724.2
20°	582.1
22.5°	510.5
25°	456.4
27.5°	406.1
30°	360.7
32.5°	318.1
35°	278.5
37.5°	241.7
40°	208.8
42.5°	178.9
45°	149.9
47.5°	111.2
50°	75.4
52.5°	39.6
55°	26.1
57.5°	21.3
60°	18.4
62.5°	16.4
65°	13.5
67.5°	11.6
70°	9.7
72.5°	8.7
75°	7.7
77.5°	5.8
80°	4.8
82.5°	2.9
85°	1.9
87.5°	1.0
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)