

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: P641087

Luminaire Tested: ML5612LSNFL2597FS1E - 692H - 600LM - 3000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641087  
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 - 600LM - 3000K  
Description: ML56 RR, 25D TIR OPTIC, 6" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

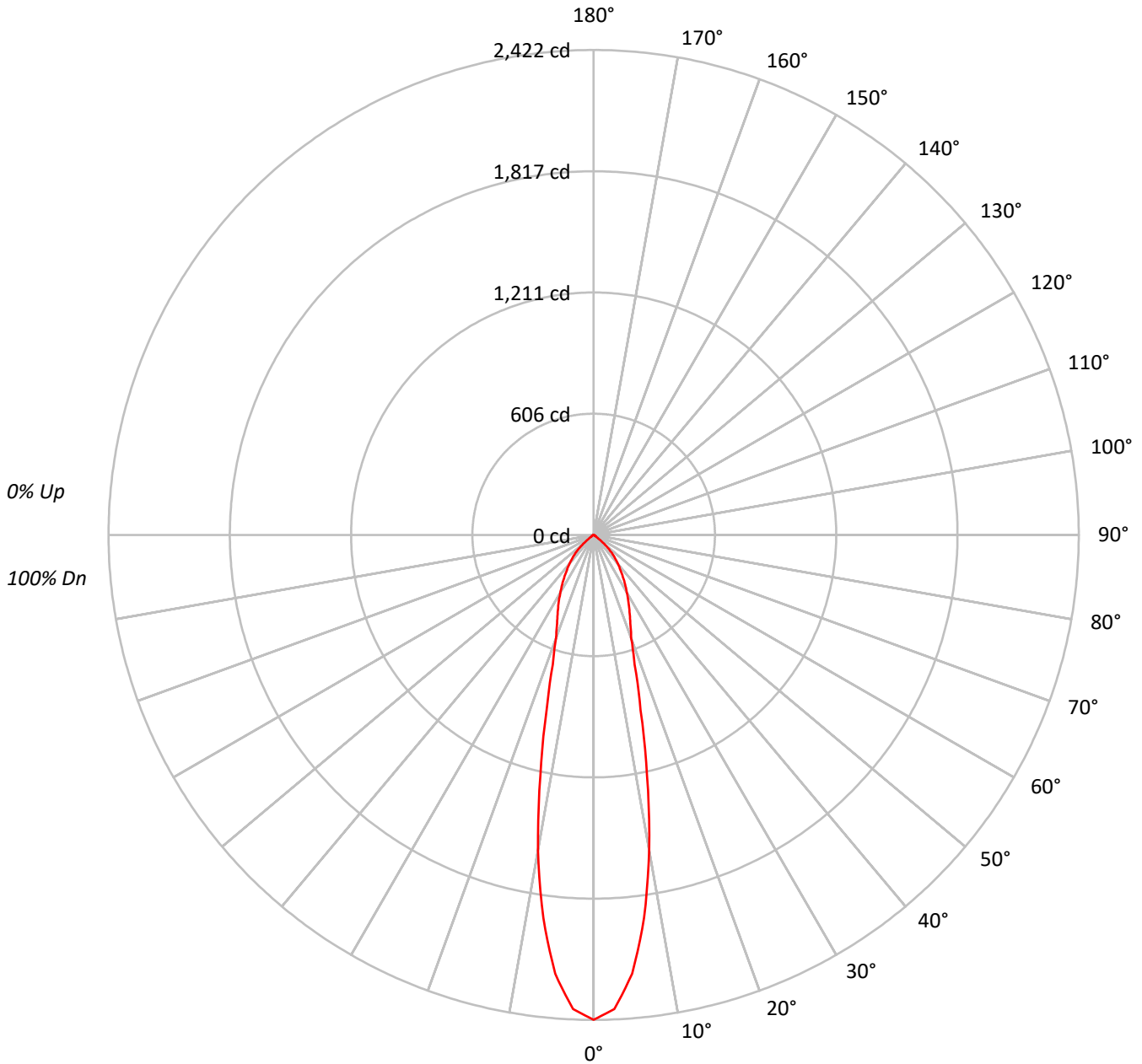
Lumens per Lamp: N/A  
Luminaire Lumens: 928.0 lumens  
Efficiency: N/A  
Efficacy: 90.1 lumens/watt  
Spacing Criteria (0/90/45): 0.43 / 0.43 / 0.44  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 10.3  
Input Voltage (V): NR  
Input Current (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									
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	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	84	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°	132758
5°	121087
10°	88982
15°	51442
20°	31952
25°	25665
30°	20991
35°	16978
40°	13397
45°	10110
50°	5219
55°	1501
60°	954
65°	571
70°	272
75°	191
80°	284
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10110 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.5	20.5
10°-20°	260.1	28.0
20°-30°	195.8	21.1
30°-40°	159.0	17.1
40°-50°	97.1	10.5
50°-60°	20.0	2.2
60°-70°	4.3	0.5
70°-80°	1.1	0.1
80°-90°	0.1	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°	646.5	69.7
0°-40°	805.5	86.8
0°-60°	922.6	99.4
0°-90°	928.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	928.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2422	
5°	2200	190
15°	906	260
25°	424	196
35°	254	159
45°	130	97
55°	16	20
65°	4	4
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2421.7
2.5°	2370.1
5°	2200.4
7.5°	1929.2
10°	1598.5
12.5°	1231.0
15°	906.4
17.5°	678.9
20°	547.7
22.5°	476.8
25°	424.3
27.5°	376.2
30°	331.6
32.5°	292.2
35°	253.7
37.5°	218.7
40°	187.2
42.5°	159.2
45°	130.4
47.5°	94.5
50°	61.2
52.5°	28.9
55°	15.7
57.5°	11.4
60°	8.7
62.5°	6.1
65°	4.4
67.5°	1.7
70°	1.7
72.5°	0.9
75°	0.9
77.5°	0.9
80°	0.9
82.5°	0.0
85°	0.0
87.5°	0.0
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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Scaled Data Report



(END OF REPORT)