

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: P641958

Luminaire Tested: ML5612LSWFL5597FS1E - 592SC - 600LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641958  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 592SC - 600LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 5" SPECULAR CLEAR TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

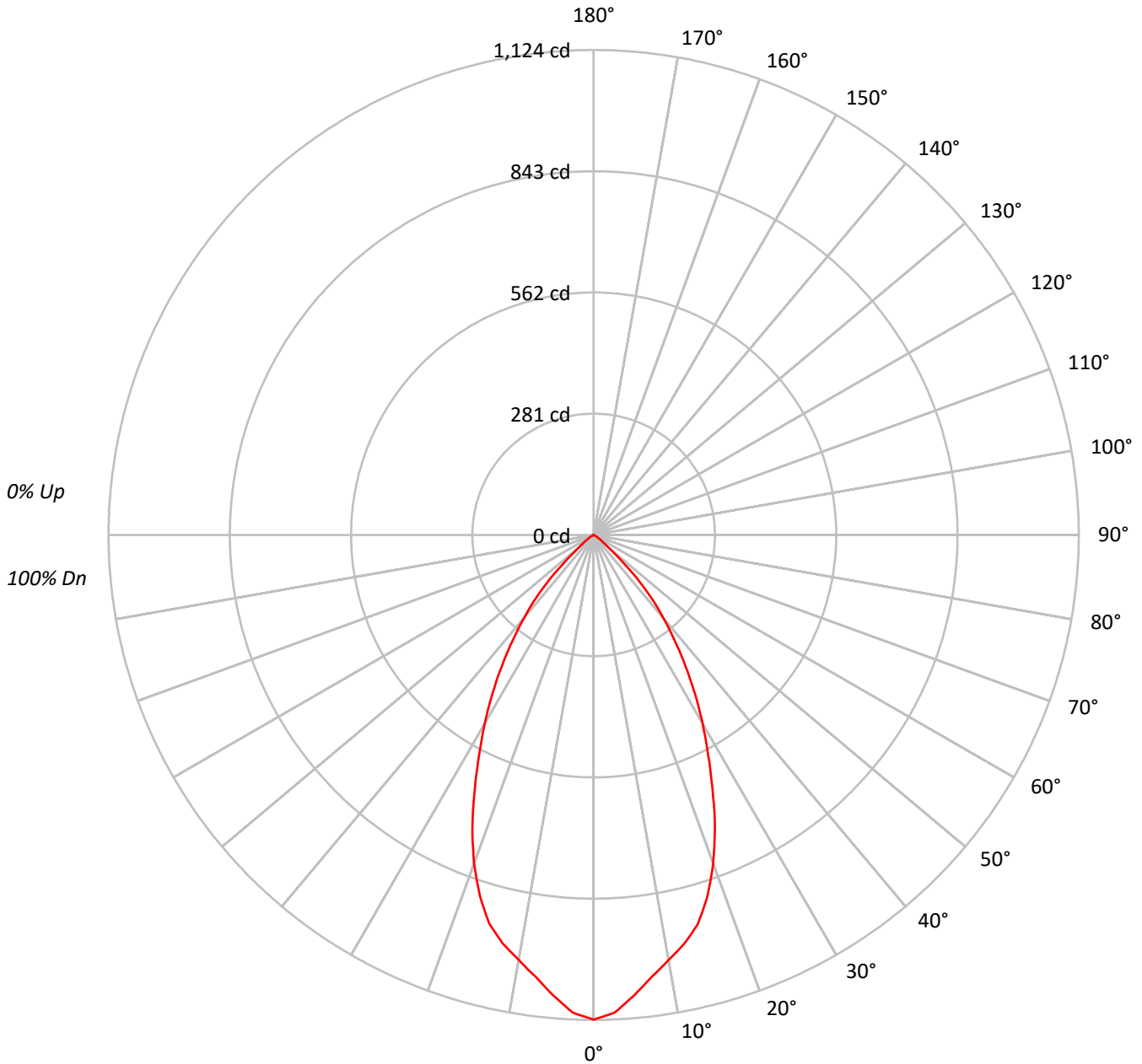
Lumens per Lamp: N/A  
Luminaire Lumens: 1012.6 lumens  
Efficiency: N/A  
Efficacy: 98.3 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.85 / 0.88  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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									20									20
RC	80									50									30									10									0									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	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	85	91	87	84	89	85	82	86	84	81	80																												
4	96	88	83	78	94	87	82	78	85	81	77	83	79	76	81	78	75	74																												
5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68																												
6	86	77	71	66	85	76	70	66	75	70	66	73	69	65	72	68	65	63																												
7	82	72	66	62	80	71	66	61	70	65	61	69	64	61	68	64	60	59																												
8	78	68	62	57	76	67	61	57	66	61	57	65	60	57	64	60	56	55																												
9	74	64	58	53	73	63	57	53	62	57	53	61	56	53	60	56	53	51																												
10	70	60	54	50	69	60	54	50	59	53	50	58	53	50	57	53	50	48																												

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

	0°
0°	88690
5°	84900
10°	80191
15°	76250
20°	68029
25°	56755
30°	45959
35°	35685
40°	25845
45°	15652
50°	5183
55°	2353
60°	710
65°	168
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15652 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.0	9.9
10°-20°	258.5	25.5
20°-30°	298.6	29.5
30°-40°	231.2	22.8
40°-50°	106.2	10.5
50°-60°	16.8	1.7
60°-70°	1.2	0.1
70°-80°	0.0	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°	657.1	64.9
0°-40°	888.3	87.7
0°-60°	1011.4	99.9
0°-90°	1012.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1012.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1124	
5°	1071	100
15°	933	258
25°	652	299
35°	370	231
45°	140	106
55°	17	17
65°	1	1
75°	0	0
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1123.5
2.5°	1108.2
5°	1071.4
7.5°	1032.7
10°	1000.4
12.5°	970.7
15°	933.0
17.5°	877.2
20°	809.8
22.5°	734.3
25°	651.6
27.5°	574.3
30°	504.2
32.5°	436.8
35°	370.3
37.5°	307.4
40°	250.8
42.5°	196.8
45°	140.2
47.5°	77.3
50°	42.2
52.5°	26.1
55°	17.1
57.5°	9.9
60°	4.5
62.5°	1.8
65°	0.9
67.5°	0.0
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
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)