

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: P641973

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

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641973  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-50)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 592W - 600LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

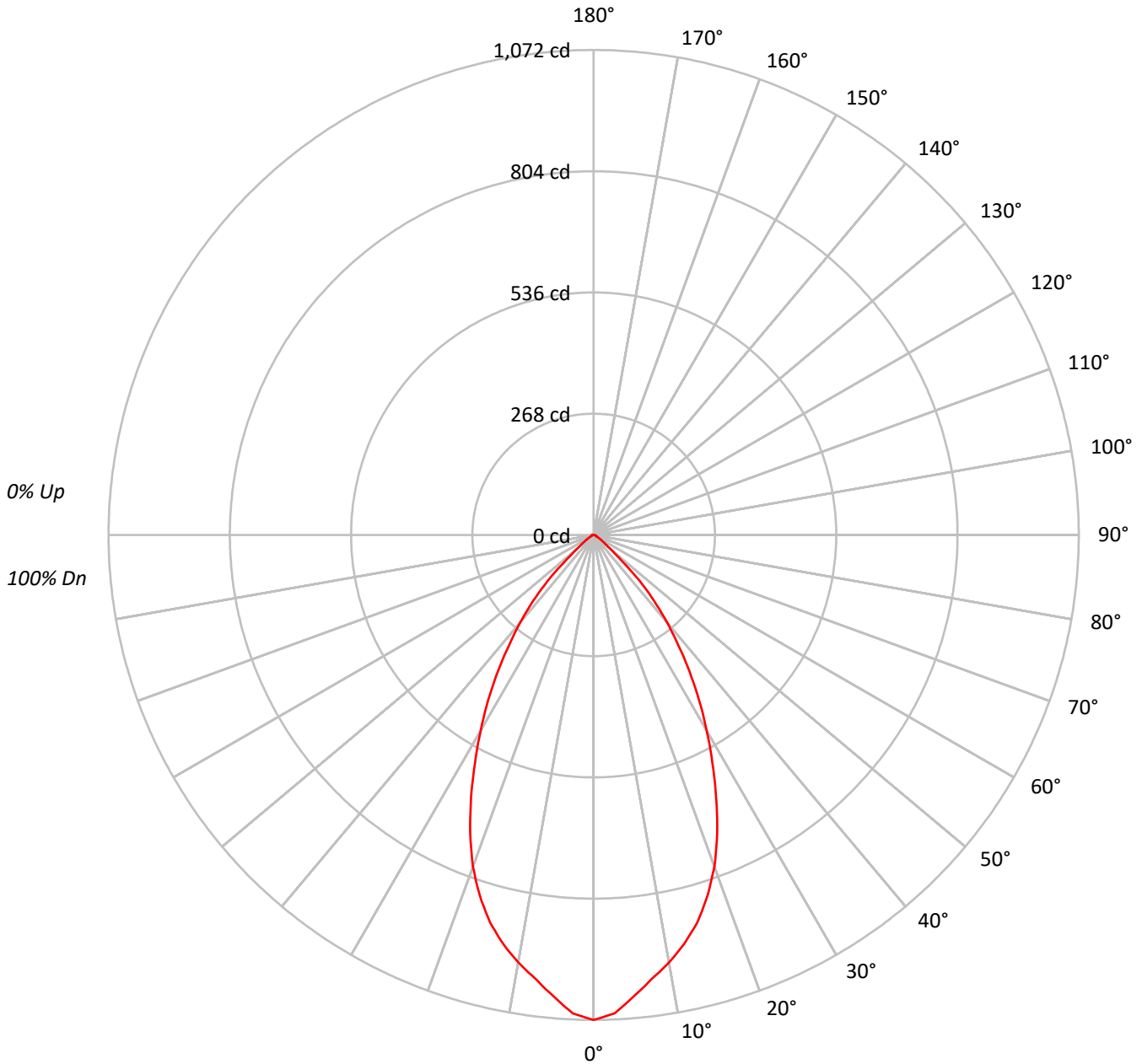
Lumens per Lamp: N/A  
Luminaire Lumens: 1008.2 lumens  
Efficiency: N/A  
Efficacy: 97.9 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct

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									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	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	103	104	102	100	100	99	97	97	96	94	93																											
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85																											
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79																											
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72																											
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67																											
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62																											
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58																											
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54																											
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50																											
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47																											

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

	0°
0°	84625
5°	81097
10°	76920
15°	72409
20°	65517
25°	55806
30°	45540
35°	35589
40°	25927
45°	16054
50°	5846
55°	3097
60°	1563
65°	1177
70°	1246
75°	1098
80°	1227
85°	815

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16054 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.7	9.5
10°-20°	246.7	24.5
20°-30°	292.6	29.0
30°-40°	230.3	22.8
40°-50°	108.5	10.8
50°-60°	22.1	2.2
60°-70°	6.8	0.7
70°-80°	4.2	0.4
80°-90°	1.3	0.1
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°	635.0	63.0
0°-40°	865.3	85.8
0°-60°	995.9	98.8
0°-90°	1008.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1008.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1072	
5°	1023	96
15°	886	247
25°	641	293
35°	369	230
45°	144	108
55°	22	22
65°	6	7
75°	4	4
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1072.0
2.5°	1058.5
5°	1023.4
7.5°	989.3
10°	959.6
12.5°	925.5
15°	886.0
17.5°	836.5
20°	779.9
22.5°	713.4
25°	640.7
27.5°	567.9
30°	499.6
32.5°	434.0
35°	369.3
37.5°	307.3
40°	251.6
42.5°	197.7
45°	143.8
47.5°	80.9
50°	47.6
52.5°	32.3
55°	22.5
57.5°	16.2
60°	9.9
62.5°	8.1
65°	6.3
67.5°	5.4
70°	5.4
72.5°	4.5
75°	3.6
77.5°	3.6
80°	2.7
82.5°	1.8
85°	0.9
87.5°	0.9
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)