

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: P642260

Luminaire Tested: ML5612LSWFL5597FS1E - 696WB - 600LM - 5000K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642260  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-69)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 696WB - 600LM - 5000K  
Description: ML56 RR, 55D TIR OPTIC, 6" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

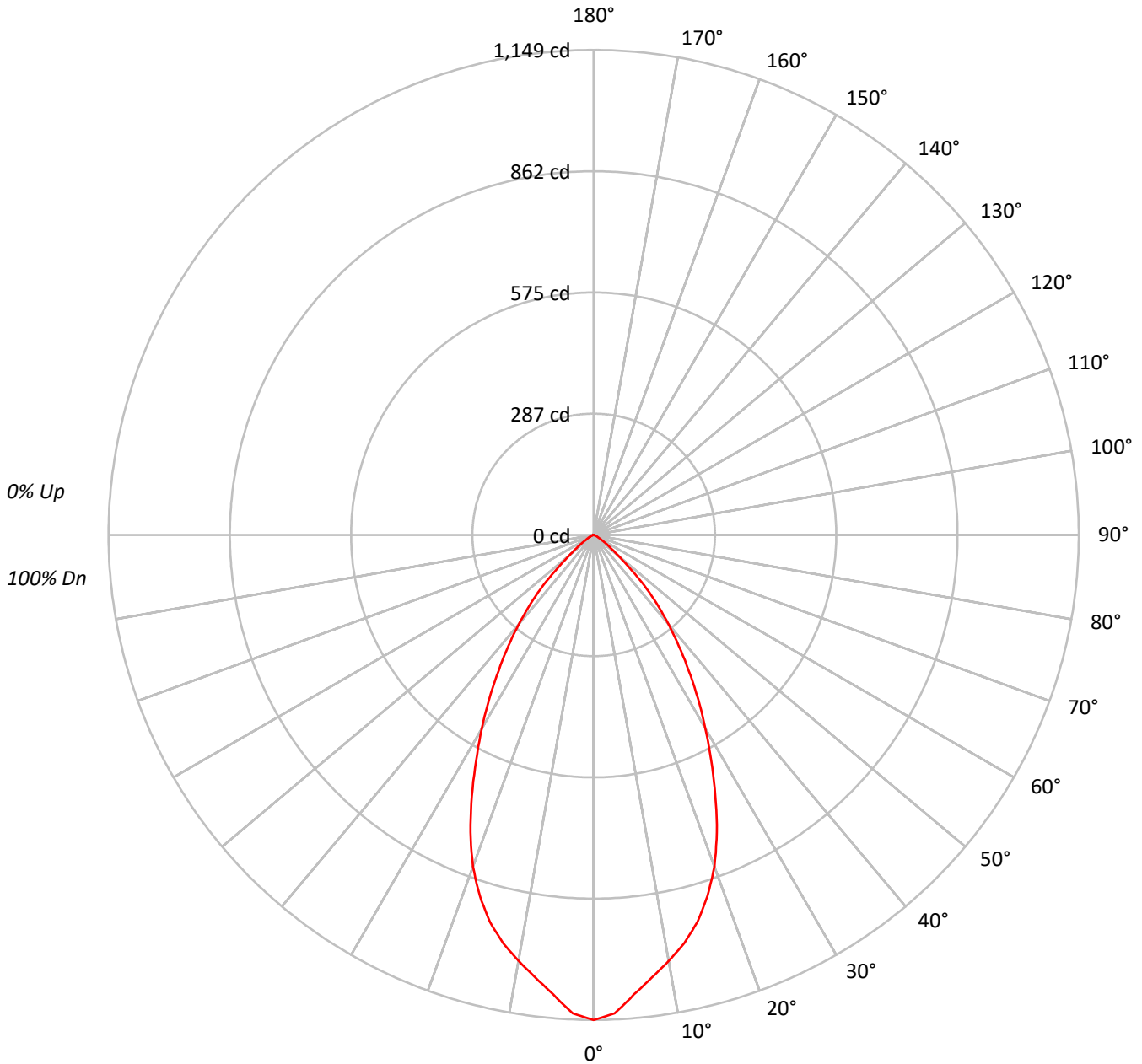
Lumens per Lamp: N/A  
Luminaire Lumens: 1097.7 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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									
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	107	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93																			
2	107	102	97	94	105	100	96	93	97	93	91	94	91	89	91	89	87	85																			
3	101	94	89	84	99	93	88	84	90	86	82	88	84	81	85	82	80	78																			
4	95	87	81	77	93	86	81	76	84	79	75	82	78	74	80	76	74	72																			
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	66																			
6	85	76	69	65	84	75	69	64	73	68	64	72	67	63	70	66	63	61																			
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57																			
8	76	66	60	55	75	65	59	55	64	59	55	63	58	55	62	58	54	53																			
9	72	62	56	52	71	62	56	51	61	55	51	60	55	51	59	54	51	49																			
10	69	58	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46																			

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

	0°
0°	63010
5°	60158
10°	57030
15°	53865
20°	48765
25°	41258
30°	33499
35°	26220
40°	19665
45°	13125
50°	6354
55°	3326
60°	1699
65°	1129
70°	465
75°	402
80°	316
85°	629

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13125 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.3	9.3
10°-20°	264.2	24.1
20°-30°	311.7	28.4
30°-40°	245.8	22.4
40°-50°	128.8	11.7
50°-60°	33.7	3.1
60°-70°	8.4	0.8
70°-80°	2.0	0.2
80°-90°	0.7	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°	678.2	61.8
0°-40°	924.0	84.2
0°-60°	1086.5	99.0
0°-90°	1097.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1097.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1149	
5°	1093	102
15°	949	264
25°	682	312
35°	392	246
45°	169	129
55°	35	34
65°	9	8
75°	2	2
85°	1	1
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1149.4
2.5°	1134.8
5°	1093.2
7.5°	1057.4
10°	1024.5
12.5°	990.7
15°	949.1
17.5°	896.8
20°	835.9
22.5°	762.4
25°	682.1
27.5°	602.7
30°	529.2
32.5°	459.5
35°	391.8
37.5°	331.8
40°	274.8
42.5°	220.6
45°	169.3
47.5°	112.2
50°	74.5
52.5°	50.3
55°	34.8
57.5°	22.3
60°	15.5
62.5°	11.6
65°	8.7
67.5°	4.8
70°	2.9
72.5°	1.9
75°	1.9
77.5°	1.9
80°	1.0
82.5°	1.0
85°	1.0
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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(END OF REPORT)