

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: P642088

Luminaire Tested: ML5612LSWFL5597FS1E - 596WB - 1200LM - 3500K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642088  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-58)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 596WB - 1200LM - 3500K  
Description: ML56 RR, 55D TIR OPTIC, 5" SHALLOW WHITE BAFFLE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1604.8 lumens  
Efficiency: N/A  
Efficacy: 97.3 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

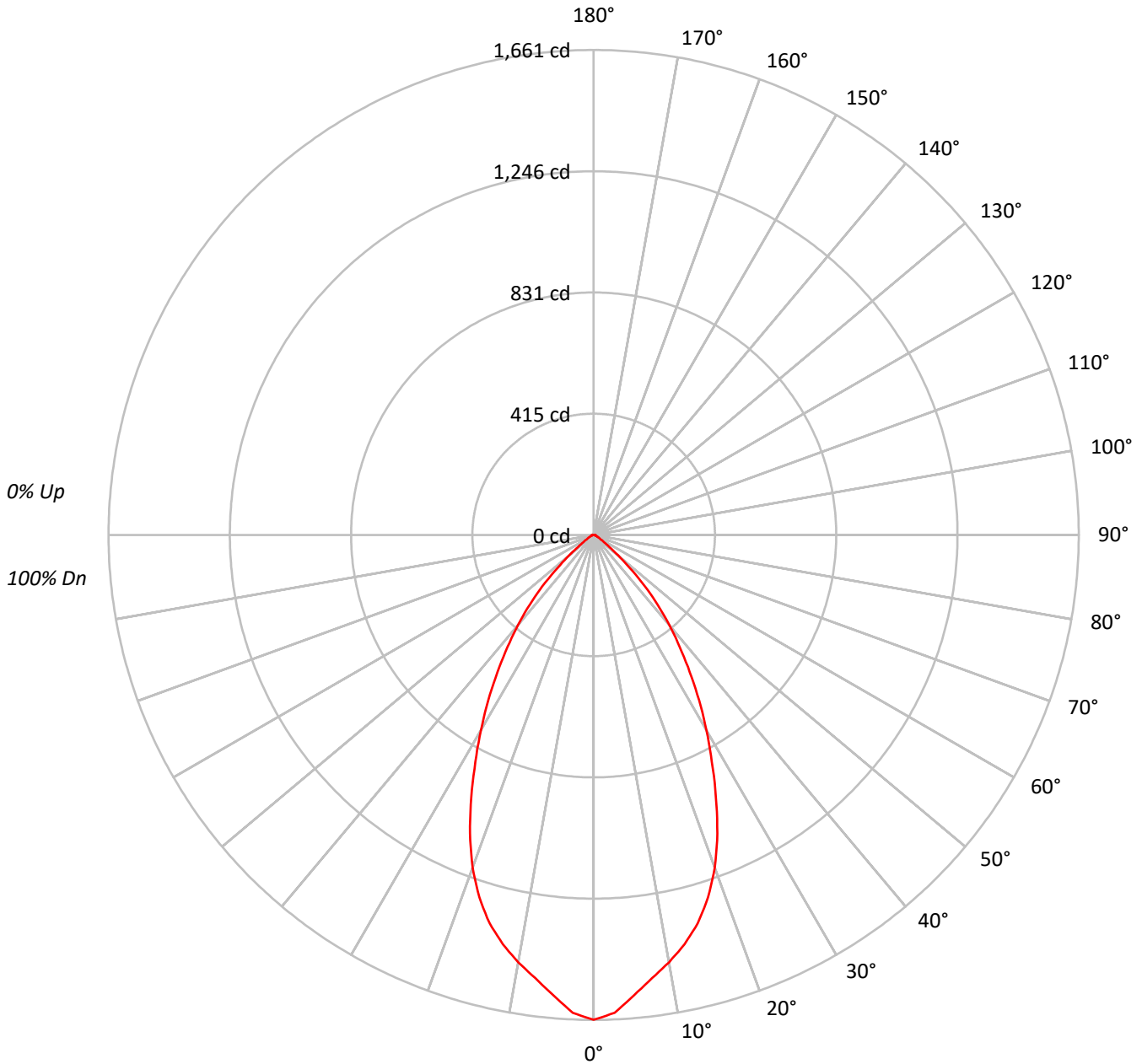
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	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	110	108	105	103	104	102	100	100	98	97	96	95	94	92																																				
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85																																				
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78																																				
4	95	87	81	76	93	86	80	76	84	79	75	81	77	74	80	76	73	72																																				
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66																																				
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	63	61																																				
7	80	70	64	59	79	70	63	59	68	63	59	67	62	58	66	61	58	57																																				
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53																																				
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	59	54	51	49																																				
10	69	58	52	48	67	58	52	48	57	51	48	56	51	48	55	51	47	46																																				

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

	0°
0°	131089
5°	125401
10°	119132
15°	112561
20°	101875
25°	86300
30°	70343
35°	55268
40°	41560
45°	27731
50°	13362
55°	5959
60°	3742
65°	2615
70°	1939
75°	1281
80°	2546
85°	3804

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 27731 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	9.2
10°-20°	383.3	23.9
20°-30°	452.9	28.2
30°-40°	359.3	22.4
40°-50°	189.3	11.8
50°-60°	46.1	2.9
60°-70°	14.6	0.9
70°-80°	6.7	0.4
80°-90°	4.6	0.3
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°	984.3	61.3
0°-40°	1343.6	83.7
0°-60°	1579.0	98.4
0°-90°	1604.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1604.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1661	
5°	1582	148
15°	1377	383
25°	991	453
35°	574	359
45°	248	189
55°	43	46
65°	14	15
75°	4	7
85°	4	5
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1660.6
2.5°	1638.3
5°	1582.5
7.5°	1530.8
10°	1486.2
12.5°	1435.9
15°	1377.3
17.5°	1302.0
20°	1212.7
22.5°	1106.6
25°	990.8
27.5°	876.4
30°	771.7
32.5°	671.2
35°	573.5
37.5°	484.2
40°	403.3
42.5°	323.8
45°	248.4
47.5°	166.1
50°	108.8
52.5°	68.4
55°	43.3
57.5°	30.7
60°	23.7
62.5°	18.1
65°	14.0
67.5°	11.2
70°	8.4
72.5°	7.0
75°	4.2
77.5°	7.0
80°	5.6
82.5°	5.6
85°	4.2
87.5°	4.2
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)