

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: P641966

Luminaire Tested: ML5612LSWFL5597FS1E - 592W - 1200LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641966  
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 - 1200LM - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1481.8 lumens  
Efficiency: N/A  
Efficacy: 89.8 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

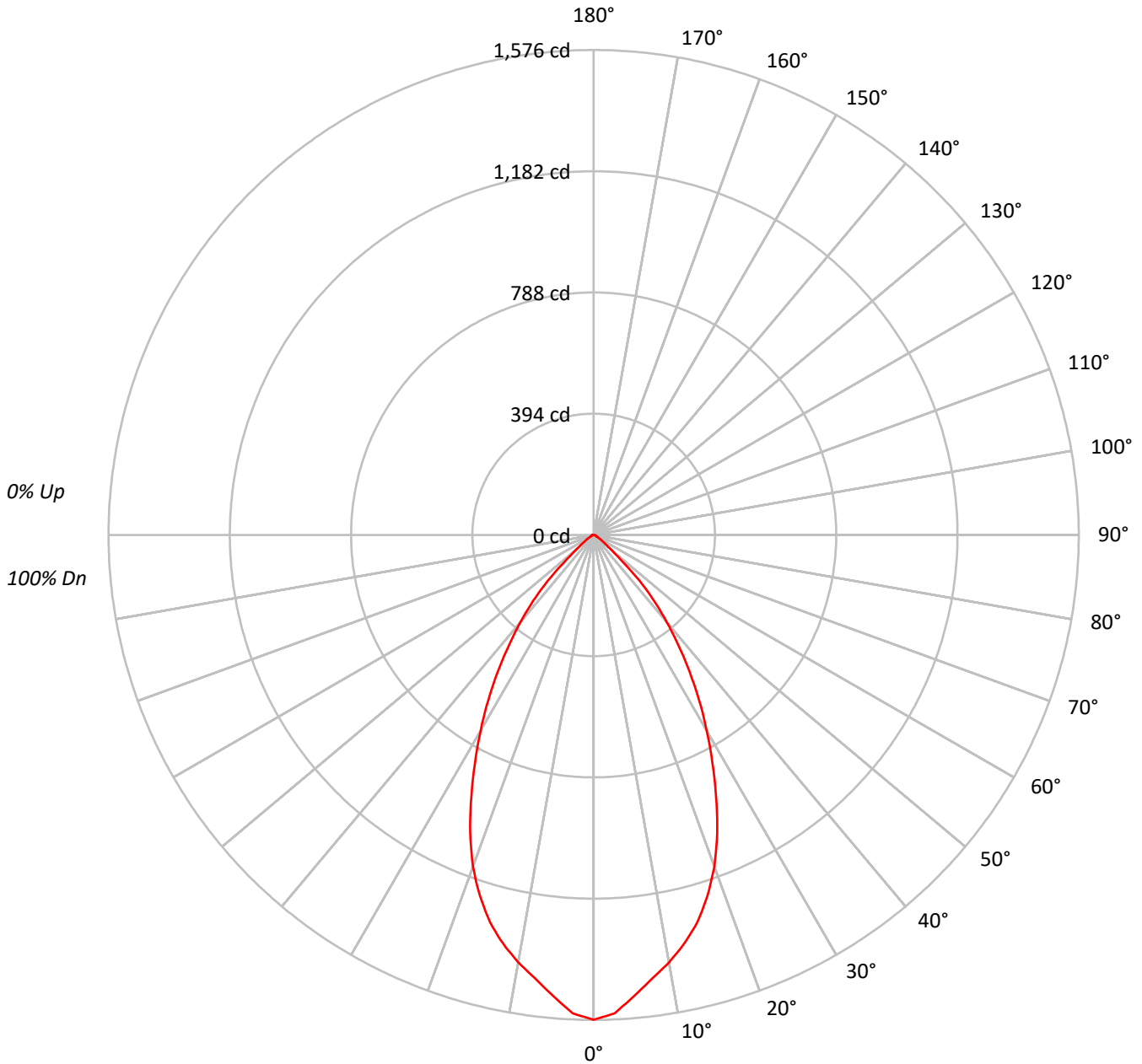
Input Watts (W): 16.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641966

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592W - 1200LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P641966

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592W - 1200LM - 2700K

**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	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°	124387
5°	119212
10°	113072
15°	106431
20°	96314
25°	82024
30°	66943
35°	52319
40°	38108
45°	23589
50°	8597
55°	4542
60°	2289
65°	1718
70°	1823
75°	1617
80°	1818
85°	1177

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23589 cd/sqm



TEST NUMBER: P641966

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592W - 1200LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.7	9.5
10°-20°	362.7	24.5
20°-30°	430.1	29.0
30°-40°	338.6	22.8
40°-50°	159.4	10.8
50°-60°	32.4	2.2
60°-70°	9.9	0.7
70°-80°	6.1	0.4
80°-90°	2.0	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°	933.4	63.0
0°-40°	1272.0	85.8
0°-60°	1463.8	98.8
0°-90°	1481.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1481.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1576	
5°	1504	141
15°	1302	363
25°	942	430
35°	543	339
45°	211	159
55°	33	32
65°	9	10
75°	5	6
85°	1	2
90°	0	



TEST NUMBER: P641966

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592W - 1200LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1575.7
2.5°	1555.9
5°	1504.4
7.5°	1454.2
10°	1410.6
12.5°	1360.4
15°	1302.3
17.5°	1229.7
20°	1146.5
22.5°	1048.7
25°	941.7
27.5°	834.7
30°	734.4
32.5°	637.9
35°	542.9
37.5°	451.7
40°	369.8
42.5°	290.6
45°	211.3
47.5°	118.9
50°	70.0
52.5°	47.5
55°	33.0
57.5°	23.8
60°	14.5
62.5°	11.9
65°	9.2
67.5°	7.9
70°	7.9
72.5°	6.6
75°	5.3
77.5°	5.3
80°	4.0
82.5°	2.6
85°	1.3
87.5°	1.3
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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report





Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)