

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



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: P641946

Luminaire Tested: ML5612LSWFL5597FS1E - 592H - 900LM - 2700K

Issue Date: 2/17/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P641946  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-49)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: HALO  
Catalog Number: ML5612LSWFL5597FS1E - 592H - 900LM - 2700K  
Description: ML56 RR, 55D TIR OPTIC, 5" HAZE TRIM  
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1225.2 lumens  
Efficiency: N/A  
Efficacy: 92.1 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

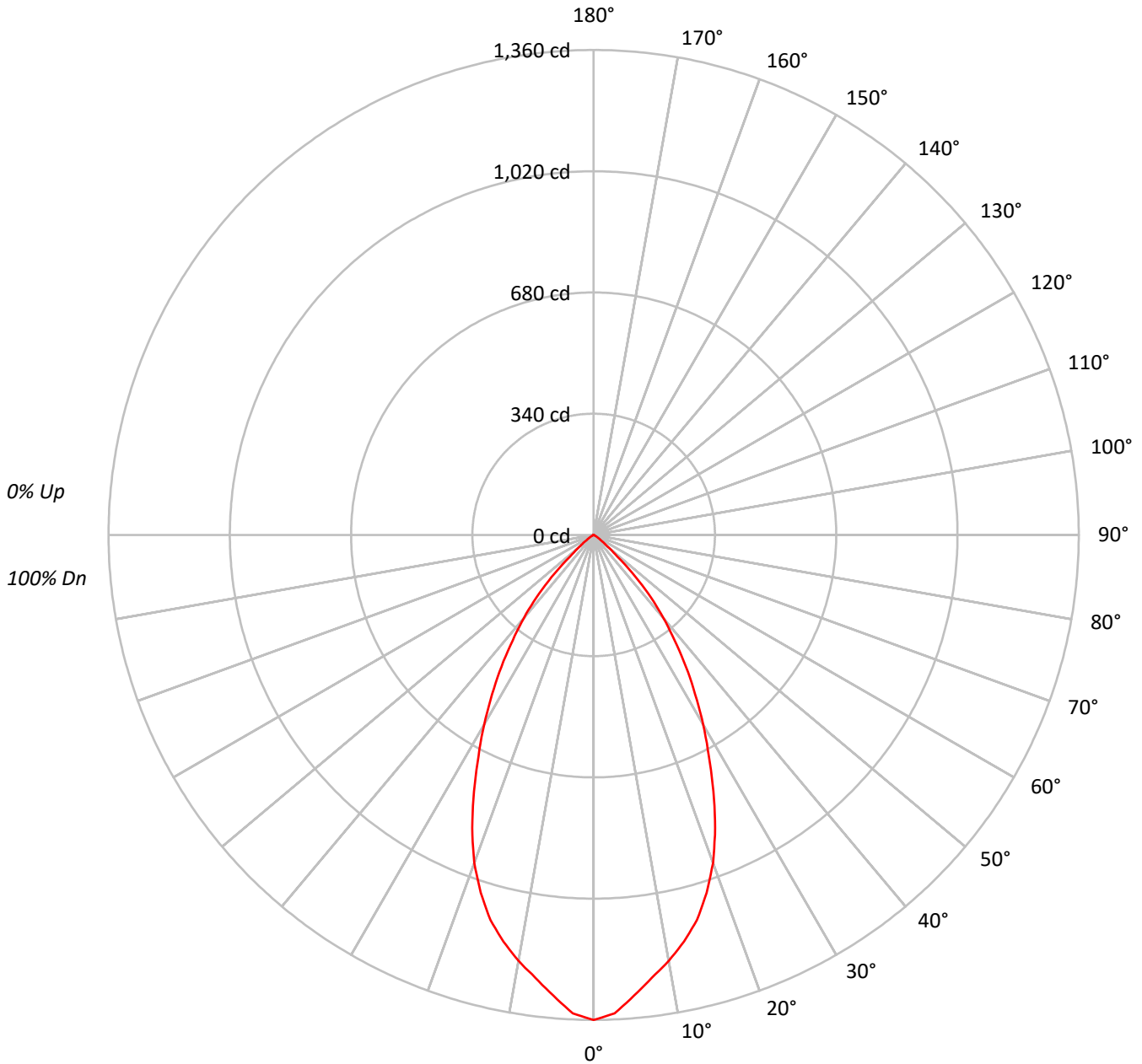
Input Watts (W): 13.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P641946

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592H - 900LM - 2700K

### Luminous Intensity Polar Plot





TEST NUMBER: P641946

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592H - 900LM - 2700K

**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	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	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	61	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°	107383
5°	102777
10°	97224
15°	91361
20°	82176
25°	69133
30°	55922
35°	43453
40°	31389
45°	18644
50°	6300
55°	2849
60°	868
65°	205
70°	0
75°	0
80°	0
85°	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18644 cd/sqm



TEST NUMBER: P641946

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592H - 900LM - 2700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.2	9.9
10°-20°	310.9	25.4
20°-30°	362.7	29.6
30°-40°	280.7	22.9
40°-50°	127.3	10.4
50°-60°	20.7	1.7
60°-70°	1.7	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°	794.7	64.9
0°-40°	1075.5	87.8
0°-60°	1223.5	99.9
0°-90°	1225.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1225.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1360	
5°	1297	121
15°	1118	311
25°	794	363
35°	451	281
45°	167	127
55°	21	21
65°	1	2
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P641946

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592H - 900LM - 2700K

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	1360.3
2.5°	1342.8
5°	1297.0
7.5°	1252.2
10°	1212.9
12.5°	1168.1
15°	1117.9
17.5°	1052.4
20°	978.2
22.5°	889.7
25°	793.7
27.5°	698.7
30°	613.5
32.5°	529.5
35°	450.9
37.5°	372.3
40°	304.6
42.5°	238.0
45°	167.0
47.5°	89.5
50°	51.3
52.5°	32.8
55°	20.7
57.5°	12.0
60°	5.5
62.5°	2.2
65°	1.1
67.5°	1.1
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

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)