

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: P641976

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

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641976
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 - 900LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

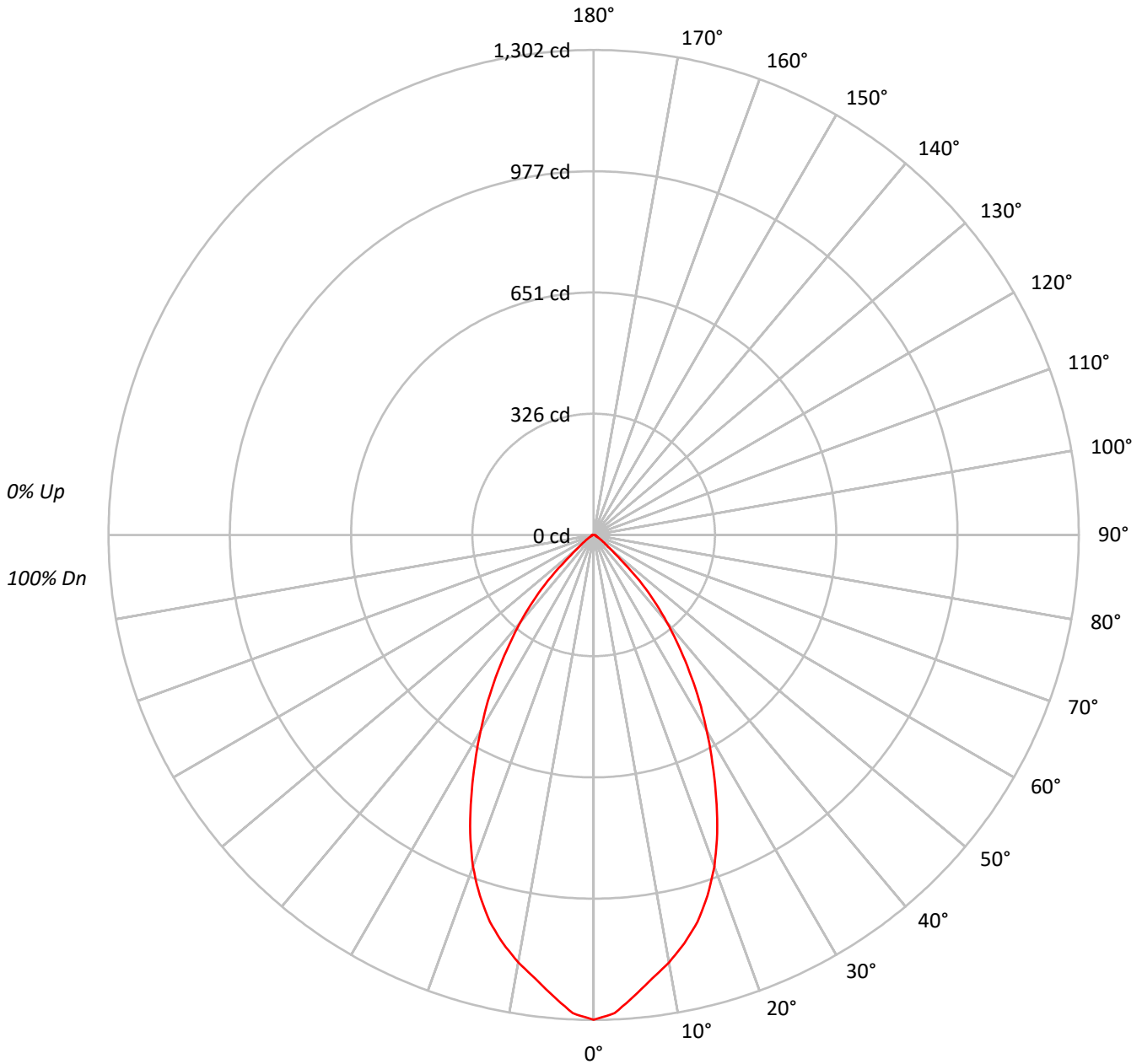
Lumens per Lamp: N/A
Luminaire Lumens: 1224.1 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 13.3
Input Voltage (V): NR
Input Current (A_{in}): 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: P641976
CATALOG NUMBER: ML5612LSWFL5597FS1E - 592W - 900LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641976

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592W - 900LM - 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°	102757
5°	98475
10°	93409
15°	87920
20°	79563
25°	67756
30°	55293
35°	43212
40°	31482
45°	19492
50°	7098
55°	3757
60°	1895
65°	1420
70°	1500
75°	1342
80°	1500
85°	996

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19492 cd/sqm



TEST NUMBER: P641976

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.2	9.5
10°-20°	299.6	24.5
20°-30°	355.3	29.0
30°-40°	279.7	22.8
40°-50°	131.7	10.8
50°-60°	26.8	2.2
60°-70°	8.2	0.7
70°-80°	5.1	0.4
80°-90°	1.6	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°	771.1	63.0
0°-40°	1050.7	85.8
0°-60°	1209.2	98.8
0°-90°	1224.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1224.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1302	
5°	1243	116
15°	1076	300
25°	778	355
35°	448	280
45°	175	132
55°	27	27
65°	8	8
75°	4	5
85°	1	2
90°	0	



TEST NUMBER: P641976

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

CANDELA DISTRIBUTION (FULL):

	0°
0°	1301.7
2.5°	1285.3
5°	1242.7
7.5°	1201.3
10°	1165.3
12.5°	1123.8
15°	1075.8
17.5°	1015.8
20°	947.1
22.5°	866.3
25°	777.9
27.5°	689.6
30°	606.6
32.5°	527.0
35°	448.4
37.5°	373.1
40°	305.5
42.5°	240.0
45°	174.6
47.5°	98.2
50°	57.8
52.5°	39.3
55°	27.3
57.5°	19.6
60°	12.0
62.5°	9.8
65°	7.6
67.5°	6.5
70°	6.5
72.5°	5.5
75°	4.4
77.5°	4.4
80°	3.3
82.5°	2.2
85°	1.1
87.5°	1.1
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)