

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: P641971

Luminaire Tested: ML5612LSWFL5597FS1E - 592W - 600LM - 2700K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P641971
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 - 600LM - 2700K
Description: ML56 RR, 55D TIR OPTIC, 5" WHITE TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

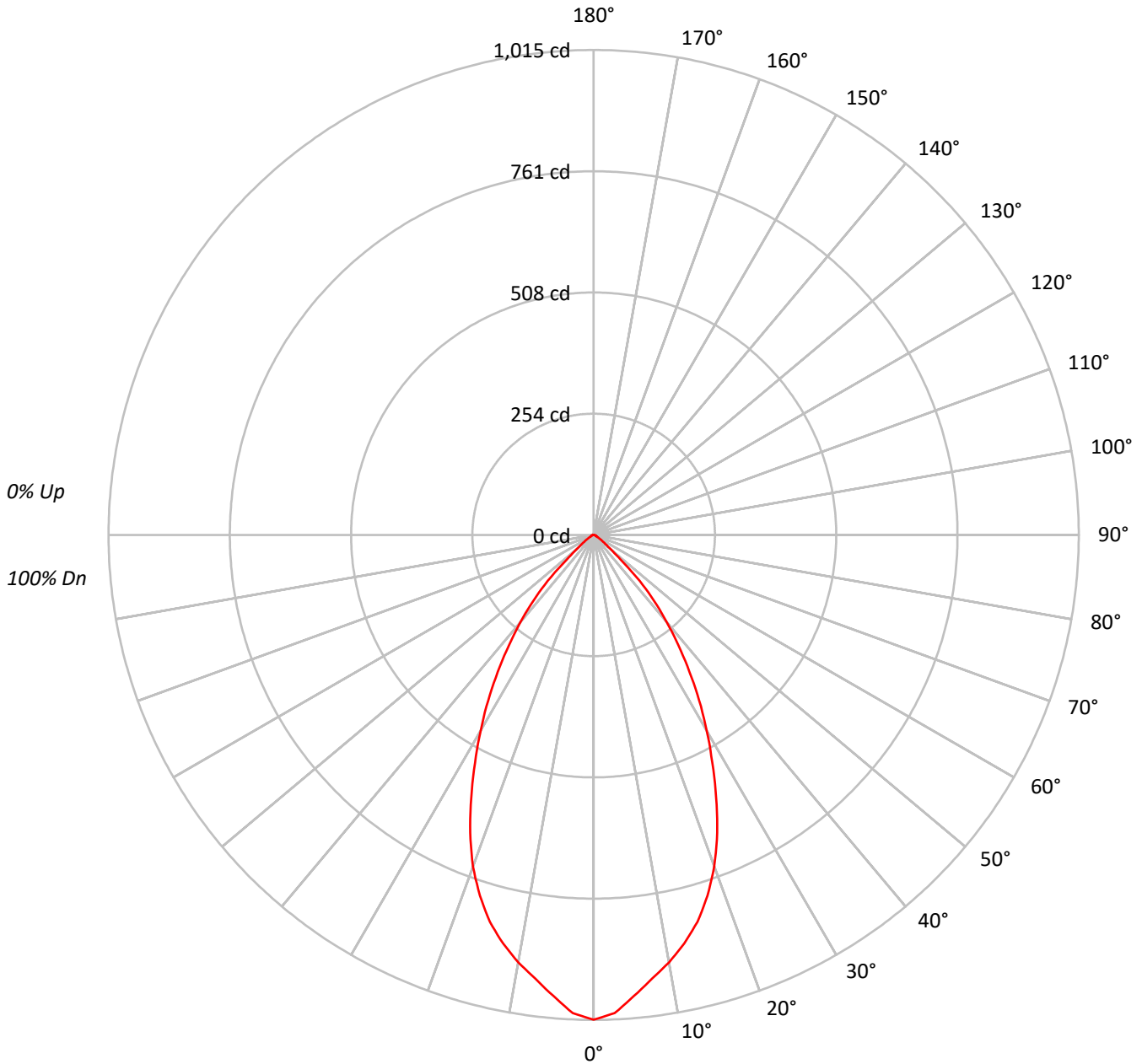
Lumens per Lamp: N/A
Luminaire Lumens: 954.2 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.89
Luminous Opening: Circular (Dia: 0.42' x H: 0')
CIE Type: Direct

Input Watts (W): 10.3
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: P641971
CATALOG NUMBER: ML5612LSWFL5597FS1E - 592W - 600LM - 2700K

Luminous Intensity Polar Plot





TEST NUMBER: P641971

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592W - 600LM - 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			100																
1	113	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93			93																
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85			85																
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	86	83	80	79			79																
4	96	88	82	77	94	86	81	77	84	80	76	82	78	75	80	77	74	72			72																
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67			67																
6	85	76	70	65	84	75	69	65	74	68	64	72	68	64	71	67	64	62			62																
7	81	71	65	60	80	70	64	60	69	64	60	68	63	59	67	62	59	58			58																
8	77	67	60	56	75	66	60	56	65	59	56	64	59	55	63	58	55	54			54																
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50			50																
10	69	59	53	49	68	59	53	49	58	52	49	57	52	48	56	52	48	47			47																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	80093
5°	76754
10°	72808
15°	68527
20°	62014
25°	52818
30°	43097
35°	33681
40°	24536
45°	15194
50°	5539
55°	2932
60°	1484
65°	1121
70°	1177
75°	1037
80°	1182
85°	815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15194 cd/sqm



TEST NUMBER: P641971

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592W - 600LM - 2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	9.5
10°-20°	233.5	24.5
20°-30°	276.9	29.0
30°-40°	218.0	22.8
40°-50°	102.6	10.8
50°-60°	20.9	2.2
60°-70°	6.4	0.7
70°-80°	3.9	0.4
80°-90°	1.3	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°	601.0	63.0
0°-40°	819.0	85.8
0°-60°	942.5	98.8
0°-90°	954.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	954.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1015	
5°	969	91
15°	838	234
25°	606	277
35°	350	218
45°	136	103
55°	21	21
65°	6	6
75°	3	4
85°	1	1
90°	0	



TEST NUMBER: P641971

CATALOG NUMBER: ML5612LSWFL5597FS1E - 592W - 600LM - 2700K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1014.6
2.5°	1001.8
5°	968.6
7.5°	936.3
10°	908.3
12.5°	875.9
15°	838.5
17.5°	791.8
20°	738.2
22.5°	675.2
25°	606.4
27.5°	537.5
30°	472.8
32.5°	410.8
35°	349.5
37.5°	290.8
40°	238.1
42.5°	187.1
45°	136.1
47.5°	76.5
50°	45.1
52.5°	30.6
55°	21.3
57.5°	15.3
60°	9.4
62.5°	7.7
65°	6.0
67.5°	5.1
70°	5.1
72.5°	4.3
75°	3.4
77.5°	3.4
80°	2.6
82.5°	1.7
85°	0.9
87.5°	0.9
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)