

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: P642144

Luminaire Tested: ML5612LSWFL5597FS1E - 692SC - 900LM - 4000K

Issue Date: 2/17/2023

Test Information

Test Method: LM-79-2019
Report Number: P642144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2212-866-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: ML5612LSWFL5597FS1E - 692SC - 900LM - 4000K
Description: ML56 RR, 55D TIR OPTIC, 6" SPECULAR CLEAR TRIM
Light Source: (1) HCL SELECTABLE LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

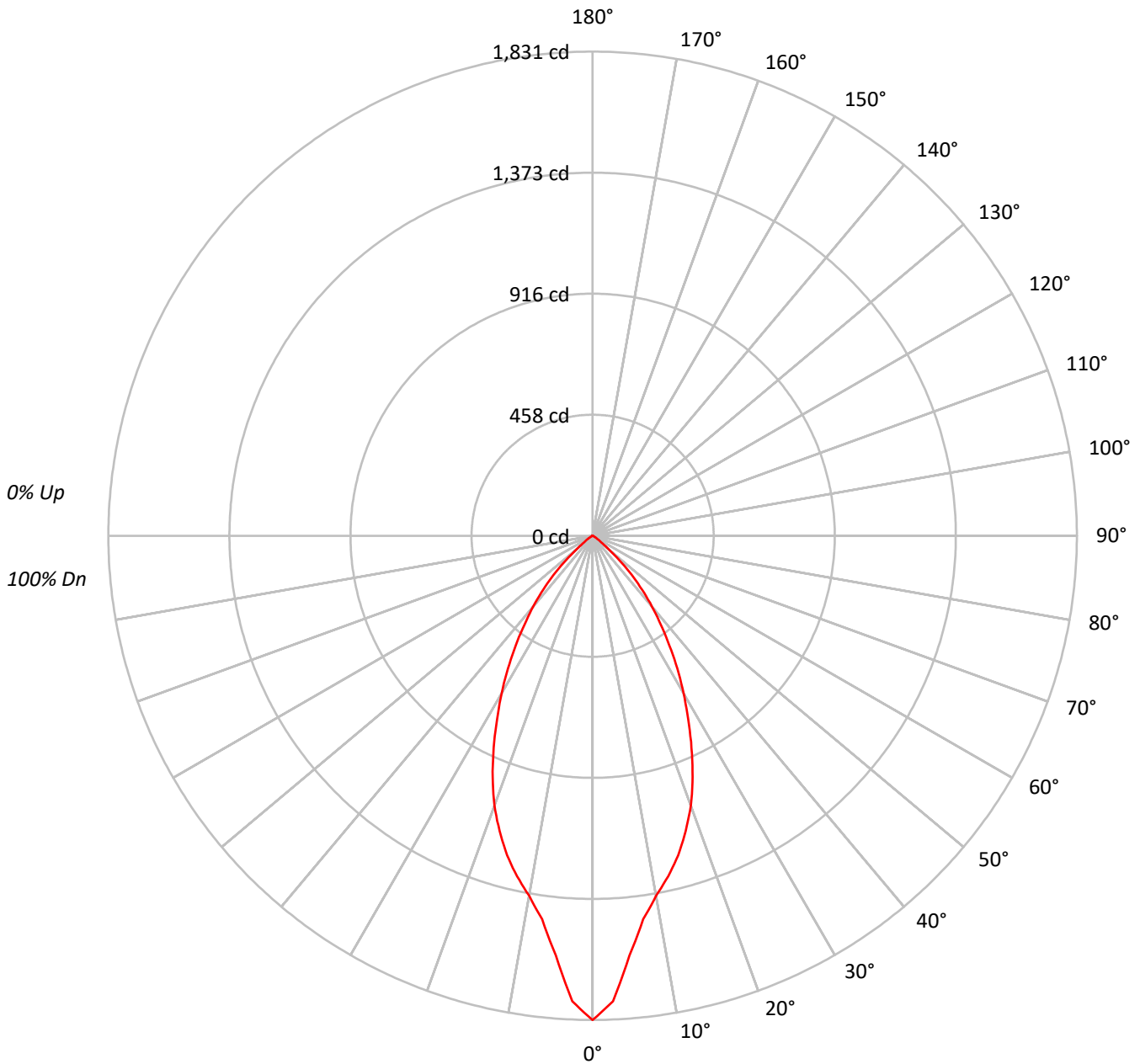
Lumens per Lamp: N/A
Luminaire Lumens: 1404.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 0.72 / 0.72 / 0.81
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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: P642144
CATALOG NUMBER: ML5612LSWFL5597FS1E - 692SC - 900LM - 4000K

Luminous Intensity Polar Plot





TEST NUMBER: P642144

CATALOG NUMBER: ML5612LSWFL5597FS1E - 692SC - 900LM - 4000K

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	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	88	85	82	86	83	81	79																			
4	96	88	83	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73																			
5	91	82	76	72	89	81	76	71	79	74	71	78	73	70	76	72	69	68																			
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	64	63																			
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59																			
8	77	67	61	57	76	67	61	57	66	60	57	65	60	56	64	59	56	55																			
9	74	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	53	51																			
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	100392
5°	87668
10°	76941
15°	70982
20°	63338
25°	53513
30°	43513
35°	33876
40°	24954
45°	16157
50°	6669
55°	2495
60°	1085
65°	324
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16157 cd/sqm



TEST NUMBER: P642144

CATALOG NUMBER: ML5612LSWFL5597FS1E - 692SC - 900LM - 4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	10.4
10°-20°	348.2	24.8
20°-30°	404.2	28.8
30°-40°	316.7	22.6
40°-50°	158.5	11.3
50°-60°	28.0	2.0
60°-70°	2.7	0.2
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°	898.1	64.0
0°-40°	1214.8	86.5
0°-60°	1401.3	99.8
0°-90°	1404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1404.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1831	
5°	1593	146
15°	1251	348
25°	885	404
35°	506	317
45°	208	159
55°	26	28
65°	2	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P642144

CATALOG NUMBER: ML5612LSWFL5597FS1E - 692SC - 900LM - 4000K

CANDELA DISTRIBUTION (FULL):

	0°
0°	1831.3
2.5°	1761.9
5°	1593.1
7.5°	1462.8
10°	1382.2
12.5°	1318.9
15°	1250.7
17.5°	1170.0
20°	1085.7
22.5°	987.6
25°	884.7
27.5°	781.7
30°	687.4
32.5°	595.6
35°	506.2
37.5°	423.1
40°	348.7
42.5°	276.7
45°	208.4
47.5°	135.2
50°	78.2
52.5°	40.9
55°	26.1
57.5°	16.1
60°	9.9
62.5°	3.7
65°	2.5
67.5°	0.0
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)