Certificate of Compliance

Certificate Number:

E347880

Report Reference:

E347880-20130503

Issue Date:

2025-AUGUST-06

Issued to:

GREEN LED LIGHTING SOLUTIONS L L C DBA GLLS

7878 Sahara Ave, Suite 110

Las Vegas, NV 89117

This certificate confirms that representative samples of:

LOW-VOLTAGE LIGHTING SYSTEMS, POWER UNITS, LUMINAIRES AND FITTINGS

See Addendum Pages for Model/Product

Has been evaluated by UL LLC in accordance with Standard(s) for Safety:

UL 2108 - Low Voltage Lighting Systems

Additional Information:
See UL Product iQ® at https://iq.ulprospector.com for additional information.

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Certification Mark on the product.

David Piecuch

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UL Mark Certification Program Owner

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Low-voltage luminaire, LED Flex Strip, Models - LN-9X18, LN-11X26, LN-21X11-X(a),
FL-6X15-X-yy(a)(b), FL-6X13-yy(b), LN-11X29-X(a), LN-16X17.

(a) - Where X can be A, B, D, E S or blank. Where A represent RGB color, B or blank represent single color, D represent two color mixed, S represent color Chasing, and E represent RGB+White.
(b) - Where YY can be 60 or below for number of LEDs per meter.

Models - LN-9X18-ZZZ-X(dd), LN-11X26-ZZZ-X(dd), LN-11X21-ZZZ-X(aa), FL-6X15-yy-ZZZ-X(cc),
FL-6X13-yy-ZZZ-X(bb), LN-11X29-X(aa), LN-11X29-ZZZ-X(ee), LN-11X29-ZZZ-X(aa),
LN-16X17-X, LN-16X17-ZZZ-X(aa).

(dd) - Where X can be Color or blank.
(aa) - Where X can be RGB, RGBW, Color, D, P or blank.
(cc) - Where X can be RGB or P, when X=RGB, yy max is 60, when X=P and yy max is 56.
(bb) - Where X can be B or blank, or D, when X= Color or blank, yy max is 72, when X=D, yy max is 144 Where RGB represent color changing, Color: Name, D is Dynamic two colors mixed, and P represents Pixel for self-addressing.
(ee) - Where X can be RGBW represent Red, Green, Blue, White.

Models - NF-09A-1-01-2W-E-CCC-VVVV (ff), NF-11C-1-01-2W-E-CCC-VVVV (ff),
NF-10F-0-01-2W-E-CCC-VVVV (ff), NF-09A-1-01-2W-N-CCC-VVVV (ff),
NF-11C-1-01-2W-N-CCC-VVVV (ff), NF-10F-0-01-2W-N-CCC-VVVV (ff),
SF-09A-1-01-2W-E-CCC-VVVV (ff), SF-11C-1-01-2W-E-CCC-VVVV (ff),
SF-10F-0-01-2W-E-CCC-VVVV (ff), SF-09A-1-01-2W-N-CCC-VVVV (ff),
SF-11C-1-01-2W-N-CCC-VVVV (ff), SF-10F-0-01-2W-N-CCC-VVVV (ff).

(ff) - Where 2W represents single color, CCC can be any letter representing LED color, Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

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Models - NF-11B-1-01-FF-E-CCC-VVVV (i), NF-11D-1-01-FF-E-CCC-VVVV (i),
NF-11B-1-01-FF-N-CCC-VVVV (i), NF-11D-1-01-FF-N-CCC-VVVV (i),
SF-11B-1-01-FF-E-CCC-VVVV (i), SF-11D-1-01-FF-E-CCC-VVVV (i),
SF-11B-1-01-FF-N-CCC-VVVV (i), SF-11D-1-01-FF-N-CCC-VVVV (i),

(i) - Where FF can be 4W for RGB Color, 2W for single color, 3W for two color mixed or color chasing, 5W for RGB+White color, 5D for DMX color chasing, CCC can be any letter representing LED color, except for DWH, Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

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Models - NF-16E-B-EE-FF-E-CCC-VVVV (k), NF-16E-B-EE-FF-N-CCC-VVVV (k),
SF-16E-B-EE-FF-E-CCC-VVVV (k), SF-16E-B-EE-FF-N-CCC-VVVV (k),
NF-11B-1-01-3W-E-DWH-VVVV (m), NF-11D-1-01-3W-E-DWH-VVVV (m),
NF-16E-B-EE-3W-E-DWH-VVVV (n), NF-11B-1-01-3W-N-DWH-VVVV (m),
NF-11D-1-01-3W-N-DWH-VVVV (m), NF-16E-B-EE-3W-N-DWH-VVVV (n),
SF-11B-1-01-3W-E-DWH-VVVV (m), SF-11D-1-01-3W-E-DWH-VVVV (m),
SF-16E-B-EE-3W-E-DWH-VVVV (n), SF-11B-1-01-3W-N-DWH-VVVV (m),
SF-11D-1-01-3W-N-DWH-VVVV (m), SF-16E-B-EE-3W-N-DWH-VVVV (n),
LS-15G-C-PP-FF-E-CCC-VVVV (p), LS-15G-C-PP-FF-N-CCC-VVVV (p),
SL-15G-C-PP-FF-E-CCC-VVVV (p), SL-15G-C-PP-FF-N-CCC-VVVV (p),
LS-15G-C-PP-3W-E-DWH-VVVV (r), LS-15G-C-PP-3W-N-DWH-VVVV (r),
SL-15G-C-PP-3W-E-DWH-VVVV (r), SL-15G-C-PP-3W-N-DWH-VVVV (r),
NH-10F-0-01-2W-E-CCC-VVVV (ss), NH-10F-0-01-2W-N-CCC-VVVV (ss),
SH-10F-0-01-2W-E-CCC-VVVV (ss), SH-10F-0-01-2W-N-CCC-VVVV (ss),
LF-11C-1-01-2W-E-CCC-VVVV (ss), NH-16E-B-EE-FF-E-CCC-VVVV (v),
NH-16E-B-EE-FF-N-CCC-VVVV (v), SH-16E-B-EE-FF-E-CCC-VVVV (v),
SH-16E-B-EE-FF-N-CCC-VVVV (v).

(k) - Where B can be 0 for Top Bending, 1 for Side Bending; EE can be 01 for one case transparency, 03 for three case transparency, FF can be 4W for RGB Color, 2W for single color, 3W for two color mixed or color chasing, 5W for RGB+White color, 5D for DMX color chasing, CCC can be any letter representing LED color, except for DWH, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating

(m) - Where 3W for two color mixed, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

(n) - Where B can be 0 for Top Bending, 1 for Side Bending; EE can be 01 for one case transparency, 03 for three case transparency, 3W for two color mixed, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

(p) - Where C represents Case color, FF can be 4W for RGB Color, 2W for single color, 3W for two color mixed or color chasing, 5W for RGB+White color, 5D for DMX color chasing, when FF = 4W, 5W, or 5D and PP max is 15, when FF = 2W and PP max is 12, when FF=3W and PP max is 12, when FF=3W and PP max is 15, CCC can be any letter representing LED color – all except for DWH, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

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(r) - Where C represents Case color, 3W represents two color mixed and PP is a max of 12, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating

(v) - Where B can be 0 for Top Bending, 1 for Side Bending; EE can be 01 for one case transparency, 03 for three case transparency, FF can be 4W for RGB Color, 2W for single color, 3W for two color mixed or color chasing, 5W for RGB+White color, 5D for DMX color chasing, CCC can be any letter representing LED color, except for DWH, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating

(ss) - Where 2W represents single color, CCC can be any letter representing LED color, Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

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Models - SS-15G-C-PP-FF-E-CCC-VVVV (x), SS-15G-C-PP-FF-N-CCC-VVVV (x),
SS-15G-C-PP-3W-E-DWH-VVVV (z), SS-15G-C-PP-3W-N-DWH-VVVV (z),
NH-16E-B-EE-3W-E-DWH-VVVV (nn), NH-16E-B-EE-3W-N-DWH-VVVV (nn),
SH-16E-B-EE-3W-E-DWH-VVVV (nn), SH-16E-B-EE-3W-N-DWH-VVVV (nn),
SF-22H-0-01-FF-E-CCC-VVVV (pp), SH-22H-0-01-FF-E-CCC-VVVV (pp),
SF-22H-1-01-FF-E-CCC-VVVV (pp), SH-22H-1-01-FF-E-CCC-VVVV (pp).

(x) - Where C represents Case color, FF can be 4W for RGB Color, 2W for single color, 3W for two color mixed or color chasing, 5W for RGB+White color, 5D for DMX color chasing, when FF = 4W, 5W, or 5D and PP max is 15, when FF = 2W and PP max is 12, when FF=3W and PP max is 12, when FF=3W and PP max is 15, CCC can be any letter representing LED color – all except for DWH, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

(z) - Where C represents Case color, 3W represents two color mixed and PP is a max of 12, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

(nn) - Where B represents Bending, EE represents Case Transparency, 3W for two color mixed, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

(pp) - Where FF can be 4W for RGB Color, 2W for single color, 3W for two color mixed or color chasing, 5W for RGB+White color, 5D for DMX color chasing, CCC can be any letter representing LED color. Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

LED Low-Voltage Luminaires, Surface-Mounted, Non-Class 2, Models – AA-XXX-B-PP-FF-G-CCC-VVVV (qq).

(qq) - Where "AA" may be "NF" or "LS". "XXX" may be "11B", "15G", "11D", or "16E". "B" may be "0", "1", or "b", when "XXX" = "15G", b represents Case color, when "XXX" = "15G", "AA" = "LS". When "XXX" = "11B", "11D", or "16E", "AA" = "NF", "B" may be "0", or "1" to represent Bending Direction. "PP" may be "01", "03", or "pp", where "FF" = "3W" or "4W", pp max is 15, when "FF" = "2W", pp max is 12. When "XXX" = "11B", "11D", or "16E", "PP" may be "01", or "03" to represent Case Transparency. When "XXX" = "15G", "PP" = "pp" to represent Wattage per meter. "FF" may be "4W" for RGB color, "2W" for single color, "3W"

for two color mixed or color chasing. "G" may be "E" or "N". "CCC" can be any letter representing LED color, "VVVV" can be "24V" or blank for 24Vdc input rating.

Low-voltage luminaire, LED Flex Strip, Models - NF-11B-1-01-2W-E-DTW-VVVV (uu),
NF-11D-1-01-2W-E-DTW-VVVV (uu), NF-11B-1-01-2W-N-DTW-VVVV (uu),
NF-11D-1-01-2W-N-DTW-VVVV (uu), SF-11B-1-01-2W-E-DTW-VVVV (uu),
SF-11D-1-01-2W-E-DTW-VVVV (uu), SF-11B-1-01-2W-N-DTW-VVVV (uu).

(uu) - Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

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Low-voltage luminaire, LED Flex Strip, Models - LS-15G-C-PP-2W-E-DTW-VVVV (ww), NF-16E-B-EE-2W-E-DTW-VVVV (xx), LS-15G-C-PP-2W-N-DTW-VVVV (ww), NF-16E-B-EE-2W-N-DTW-VVVV (xx), SS-15G-C-PP-2W-E-DTW-VVVV (ww), SF-16E-B-EE-2W-E-DTW-VVVV (xx), SS-15G-C-PP-2W-N-DTW-VVVV (ww), SF-16E-B-EE-2W-N-DTW-VVVV (xx), SF-11D-1-01-2W-N-DTW-VVVV (uu), AA-10F-0-01-3W-E-DWH-VVVV [ac], AA-10F-1-01-3W-E-DWH-VVVV [ac], AA-10F-0-01-3W-N-DWH-VVVV [ac], AA-10F-1-01-3W-N-DWH-VVVV [ac], AA-10F-0-01-2W-E-DWH-VVVV [ad], AA-10F-1-01-2W-E-DWH-VVVV [ad], AA-10F-0-01-2W-N-DWH-VVVV [ad], AA-10F-1-01-2W-N-DWH-VVVV [ad].

(uu) - Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.
(ww) - Where C represents Case color, and PP is a max of 12, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.
(xx) - Where B represents Bending, EE represents Case Transparency, VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.
[ac] - Where AA can be “NF” or “NH”, AA is NH when the maximum power per meter is 9W, for other cases, AA is NF. Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.
[ad] - Where AA can be “SF” or “SH”, AA is SH when the maximum power per meter is 9W, for other cases, AA is SF. Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

Low-voltage luminaire, LED Flex Strip, Models - AA-10F-0-01-3W-E-DWH-VVVV [af], AA-10F-1-01-3W-E-DWH-VVVV [af], AA-10F-0-01-3W-N-DWH-VVVV [af], AA-10F-1-01-3W-N-DWH-VVVV [af], SS-20I-C-PP-FF-E-CCC-VVVV [ah], SS-20I-C-PP-FF-N-CCC-VVVV [aj], SF-12J-FF-E-VVVV-PPP [bb], SF-12J-FF-N-VVVV-PPP [bb].

[af] - Where AA can be “SF” or “SH”, AA is SH when the maximum power per meter is 9W, for other cases, AA is SF. Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.
[ah] - Where C represents Case color, FF can be 4W for RGB Color, 2W for single color, 3W for two color mixed or color chasing, 5W for RGB+White color, 5D for DMX color chasing, when FF = 3W, 4W, 5W, or 5D and PP max is 15, when FF = 2W and PP max is 12, CCC can be any letter

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representing LED color , VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

[aj] - Where C represents Case color, FF can be 4W for RGB Color, 2W for single color, 3W for two color mixed or color chasing, 5W for RGB+White color, 5D for DMX color chasing, when FF = 3W, 4W, 5W, or 5D and PP max is 15, when FF = 2W and PP max is 12, CCC can be any letter representing LED color , VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating.

[bb] – Where FF can be 4W, 2W, 3D. Where 4W represents RGB color, 2W represents single color, 3D represents two color mixed, Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating, Where PPP represents the maximum power per meter, it can be blank, 15W, or 9W.

Low-voltage luminaire, LED Flex Strip, Models - NH-11D-FF-E-VVVV-PPP [bc], SH-11D-FF-E-VVVV-PPP [bc].

[bc] - Where FF can be 4W, 2W, 3D, 2D, DTW, 5W, 5D, 3W, or blank. Where 4W represents RGB color, 2W or blank represent single color, 3D represents two color mixed, 2D represents two color mixed (two wires), DTW represents two color mixed (dim to warm, two wires), 5W represents RGB+White, 5D represent color chasing (DMX), 3W represents either color chasing, 8 pixels per meter, 10 pixels per meter or 12 pixels per meter. Where VVVV can be 24V or blank for 24Vdc input rating, 12V for 12Vdc input rating, and AC12V for 12Vac input rating. Where PPP represent the maximum power per meter, i]

Models, M-1-L-3-b-d [am], M-1-M-3-b-d [am], M-1-N-3-b-d [am], V-1-K-b [ao].

[am] – Where b: Denotes the lighting effect (4W for RGB Color, 2W for single color, 3W for SPI, 5W for RGBA/RGBW color, 3T for two color mixed, 5D for Direct DMX Pixel). d: Represents the actual chip used and its CRI. (Would need two options for the standard and advanced chip).

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[ao] – Where b: Denotes the lighting effect (4W for RGB Color, 2W for single color, 3W for SPI, 5W for RGBA/RGBW color, 3T for two color mixed, 5D for Direct DMX Pixel).