Product Description

Slim, low profile design. Luminaire is constructed from rugged die cast and extruded aluminum components. LED driver is mounted in a sealed weathertight center chamber that allows for access from below the luminaire. High performance heat sinks specifically designed for LED floodlight application. Luminaire mounts with stainless steel adjustable yoke mount which allows for +/- 90° adjustment in 5° increments.

Applications: Underpasses and sign lighting

Performance Summary

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty[†]: 10 years on luminaire/10 years on Colorfast DeltaGuard[®] finish

†See http://lighting.cree.com/warranty for warranty terms

Accessories

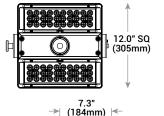
Field-Installed

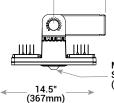
Hand-Held Remote

XA-SENSREM

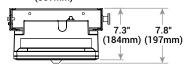
- For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required

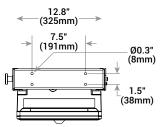






Multi-Level Sensor location (ordered as an option)





LED Count (x10)	Weight
04	23 lbs. (10.4kg)
06	23 lbs. (10.4kg)

Ordering Information

Example: FLD-304-2M-YM-04-E-UL-SV-350

FLD-304			YM		E				
Product	Optic		Mounting	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options
FLD-304	2M Type II Medium 3M Type III Medium 5M Type V Medium 5S Type V Short N6 NEMA* 6 SL Sparkle Petroleum	SN Sign 15 15" Flood 25 25"Flood 40 40" Flood 70 70"Flood	YM Yoke	04 06	E	UL Universal 120-277V UH Universal 347-480V	SV Silver BK Black BZ Bronze WH White	350 350mA 525 525mA 700 700mA	DIM 0-10V Dimming Control by others Refer to Dimming spec sheet for details Can't exceed specified drive current F Fuse When code dictates fusing, use time delay fuse Refer to ML spec sheet for availability with ML options Available with UL voltage only ML Multi-Level Refer to ML spec sheet for details Intended for downlight applications at 0' tilt PML Programmable Multi-Level, 10-30' Mouniting Height Refer to PML spec sheet for details Intended for downlight applications at 0' tilt 40K 4000K Color Temperature Minimum 70 CRI Color temperature per luminaire





Rev. Date: V3 01/19/2016

Canada: www.cree.com/canada



Product Specifications

CONSTRUCTION & MATERIALS

- · Slim, low profile design
- · Luminaire is constructed from rugged die cast and extruded aluminum components
- LED driver is mounted in a sealed weathertight center chamber that allows for access from below the luminaire
- 3' (0.9m) SEOW cord exits street side of luminaire through 1/2" (13mm) NPT cable gland
- High performance aluminum heat sinks specifically designed for LED floodlight applications
- Luminaire mounts with stainless steel adjustable yoke which allows for +/- 90° adjustment in 5° increments
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- Weight: 40 LED: 23 lbs. (10.4kg); 60 LED: 23 lbs. (10.4kg)

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- · Integral 10kV surge suppression protection standard
- · To address inrush current, slow blow fuse or type C/D breaker should be used
- 10V Source Current: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- · cULus Listed
- · Suitable for wet locations
- Enclosure rated IP66 per IEC 60529
- · Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- · Meets Buy American requirements within ARRA
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- RoHS compliant. Consult factory for additional details

Electrical Data*							
LED O	01	Total Current					
LED Count (x10)	System Watts 120-480V	120V	208V	240V	277V	347V	480V
350mA							
04	46	0.39	0.24	0.22	0.21	0.15	0.12
06	69	0.57	0.34	0.30	0.27	0.21	0.16
525mA							
04	71	0.59	0.35	0.31	0.28	0.21	0.16
06	101	0.84	0.49	0.43	0.38	0.30	0.22
700mA							
04	94	0.79	0.46	0.40	0.36	0.28	0.21
06	135	1.14	0.65	0.57	0.50	0.40	0.29

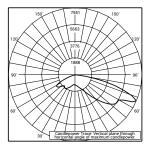
^{*} Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

Recommended 304 Series" Flood Lumen Maintenance Factors (LMF) ¹					
Ambient	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Calculated ³ LM	100K hr Calculated ³ LMF
5°C (41°F)	1.04	0.99	0.97	0.95	0.93
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.91
20°C (68°F)	1.01	0.96	0.94	0.92	0.90
25°C (77°F)	1.00	0.95	0.93	0.91	0.89

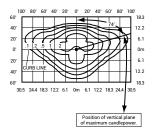
¹Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
²In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times
(6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (IDUT) i.e. the packaged LED chip)
³In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total

In accordance with IESNA IM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool



ITL Test Report #: 77237 STR-LWY-2M-**-06-E-UL-700-40K Initial Delivered Lumens: 11,094

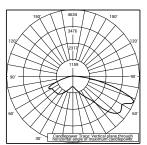


FLD-304-2M-**-06-E-UL-700 Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 11,476 Initial FC at grade

Type II Medium Distribution				
	4000K		5700K	
LED Count (x10)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	4,368	B1 U0 G1	4,536	B2 U0 G2
06	6,501	B2 U0 G2	6,751	B2 U0 G2
525mA				
04	6,115	B2 U0 G2	6,350	B2 U0 G2
06	9,101	B3 U0 G3	9,451	B3 U0 G3
700mA				
04	7,425	B2 U0 G2	7,711	B2 U0 G2
06	11,051	B3 U0 G3	11,476	B3 U0 G3

^{*} Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

3M



CESTL Test Report #: 2013-0068 STR-LWY-3M-**-06-E-UL-700-40K Initial Delivered Lumens: 10,430

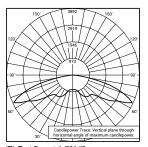


FLD-304-3M-**-06-E-UL-700 Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 10,880 Initial FC at grade

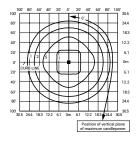
Type III Medium Distribution				
	4000K		5700K	
LED Count (x10)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	4,141	B1 U0 G1	4,300	B1 U0 G1
06	6,163	B2 U0 G2	6,400	B2 U0 G2
525mA				
04	5,797	B2 U0 G2	6,020	B2 U0 G2
06	8,628	B2 U0 G2	8,960	B2 U0 G2
700mA				
04	7,039	B2 U0 G2	7,310	B2 U0 G2
06	10,477	B3 U0 G3	10,880	B3 U0 G3

^{*} Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool



ITL Test Report #: 78147 PKG-304-5M-**-06-E-UL-700 Initial Delivered Lumens: 12,508

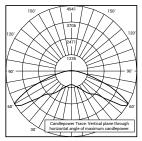


FLD-304-5M-**-06-E-UL-700 Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 12,072 Initial FC at grade

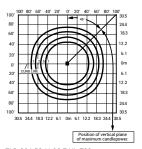
Type V Medium Distribution				
	4000K		5700K	
LED Count (x10)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	4,595	B3 U0 G1	4,771	B3 U0 G1
06	6,838	B3 U0 G2	7,101	B3 U0 G2
525mA				
04	6,433	B3 U0 G2	6,680	B3 U0 G2
06	9,574	B3 U0 G2	9,942	B3 U0 G2
700mA				
04	7,811	B3 U0 G2	8,111	B3 U0 G2
06	11,625	B4 U0 G2	12,072	B4 U0 G2

^{*} Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

5S



ITL Test Report #: 77876 PKG-304-5S-**-06-E-UL-700-40K Initial Delivered Lumens: 12,738

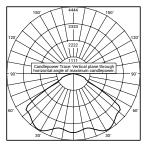


FLD-304-5S.**.06-E-UL-700 Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 13,413 Initial FC at grade

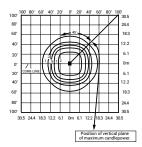
Type V Short Distribution				
	4000K		5700K	
LED Count (x10)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	5,105	B2 U0 G1	5,302	B2 U0 G1
06	7,598	B3 U0 G1	7,890	B3 U0 G1
525mA				
04	7,147	B3 U0 G1	7,422	B3 U0 G1
06	10,637	B3 U0 G2	11,046	B3 U0 G2
700mA				
04	8,679	B3 U0 G1	9,013	B3 U0 G1
06	12,917	B3 U0 G2	13,413	B3 U0 G2

^{*} Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool



ITL Test Report #: 77415 CAN-304-SL-**-06-E-UL-700-40K Initial Delivered Lumens: 12,707

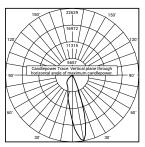


FLD-304-SL-**-06-E-UL-700 Mounting Height: 25' (7.6m) A.F.G. Initial Delivered Lumens: 13,264 Initial FC at grade

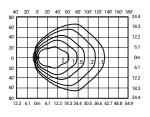
Sparkle Petroleum Distribution				
	4000K		5700K	
LED Count (x10)	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
350mA				
04	5,048	B2 U0 G1	5,243	B2 U0 G1
06	7,514	B3 U0 G1	7,803	B3 U0 G1
525mA				
04	7,068	B2 U0 G1	7,340	B2 U0 G1
06	10,519	B3 U0 G1	10,924	B3 U0 G1
700mA				
04	8,582	B3 U0 G1	8,912	B3 U0 G1
06	12,773	B3 U0 G1	13,264	B3 U0 G1

^{*} Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

SN



RESTL Test Report #: 2014-0013 FLD-EDG-SN-**-06-E-UL-700-40K Initial Delivered Lumens: 11,885



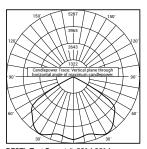
FLD-EDG-SN-**-06-E-UL-700 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 12,370 Initial FC at grade

Sign Optic Distribution				
	4000K	5700K		
LED Count (x10)	Initial Delivered Lumens*	Initial Delivered Lumens*		
350mA				
04	4,708	4,889		
06	7,007	7,277		
525mA				
04	6,591	6,845		
06	9,810	10,187		
700mA				
04	8,004	8,312		
06	11,912	12,370		

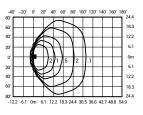
^{*} Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

N6



RESTL Test Report #: 2014-0014 FLD-EDG-N6-**-06-E-UL-700-40K Initial Delivered Lumens: 13,253

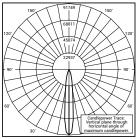


FLD-304-N6-**-06-E-UL-700 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 13,712 Initial FC at grade

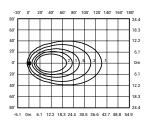
NEMA® 6 Distr	NEMA® 6 Distribution			
	4000K	5700K		
LED Count (x10)	Initial Delivered Lumens*	Initial Delivered Lumens*		
350mA				
04	5,219	5,419		
06	7,767	8,066		
525mA				
04	7,306	7,587		
06	10,874	11,292		
700mA				
04	8,872	9,213		
06	13,204	13,712		

 $[\]star$ Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

15°



RESTL Test Report #: 2014-0004 FLD-EDG-15-**-06-E-UL-700-40K Initial Delivered Lumens: 13.035



FLD-304-15-**-06-E-UL-700 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 13,712 Initial FC at grade

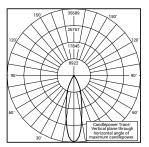
15° Flood Distribution				
	4000K	5700K		
LED Count (x10)	Initial Delivered Lumens*	Initial Delivered Lumens'		
350mA				
04	5,219	5,419		
06	7,767	8,066		
525mA				
04	7,306	7,587		
06	10,874	11,292		
700mA				
04	8,872	9,213		
06	13,204	13,712		

 $[\]star$ Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

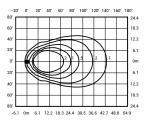


All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

25



RESTL Test Report #: 2014-0006 FLD-EDG-25-**-06-E-UL-700-40K Initial Delivered Lumens: 12,924

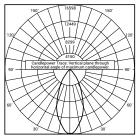


FLD-304-25-**-06-E-UL-700 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 13,712 Initial FC at grade

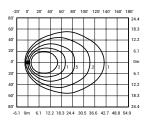
25° Flood Distribution				
LED Count (x10)	4000K	5700K		
	Initial Delivered Lumens*	Initial Delivered Lumens*		
350mA				
04	5,219	5,419		
06	7,767	8,066		
525mA				
04	7,306	7,587		
06	10,874	11,292		
700mA				
04	8,872	9,213		
06	13,204	13,712		

 $^{{}^{\}star}\, Initial\, delivered\, lumens\, at\, 25^{\circ}C\, (77^{\circ}F).\, Actual\, production\, yield\, may\, vary\, between\, -10\, and\, \pm10\%\, of\, initial\, delivered\, lumens$

40°



ITL Test Report #: 78011 CAN-304-40-**-06-E-UL-700-40K Initial Delivered Lumens: 12,497



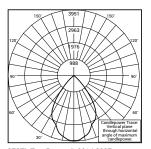
FLD-304-40-**-06-E-UL-700 Mounting Height 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 13,413 Initial FC at grade

40° Flood Distribution				
LED Count (x10)	4000K	5700K		
	Initial Delivered Lumens*	Initial Delivered Lumens*		
350mA				
04	5,105	5,302		
06	7,598	7,890		
525mA				
04	7,147	7,422		
06	10,637	11,046		
700mA				
04	8,679	9,013		
06	12,917	13,413		

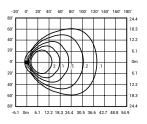
 $^{^{\}star}$ Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens



All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool



CESTL Test Report #: 2014-0007 FLD-EDG-70-**-04-E-UL-350-40K Initial Delivered Lumens: 4.734



FLD-304-70-**-06-E-UL-700 Mounting Height: 25' (7.6m) A.F.G., 60° Tilt Initial Delivered Lumens: 12,221 Initial FC at grade

70° Flood Distribution				
LED Count (x10)	4000K	5700K		
	Initial Delivered Lumens*	Initial Delivered Lumens*		
350mA				
04	4,651	4,830		
06	6,923	7,189		
525mA				
04	6,512	6,762		
06	9,692	10,064		
700mA				
04	7,907	8,211		
06	11,768	12,221		

 $[\]star$ Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

Canada: www.cree.com/canada

National Electrical Manufacturers Association.

® 2016 Cree, Inc. and/or one of its subsidiries. All rights reserved. For informational purposes only. Content is subject to change.