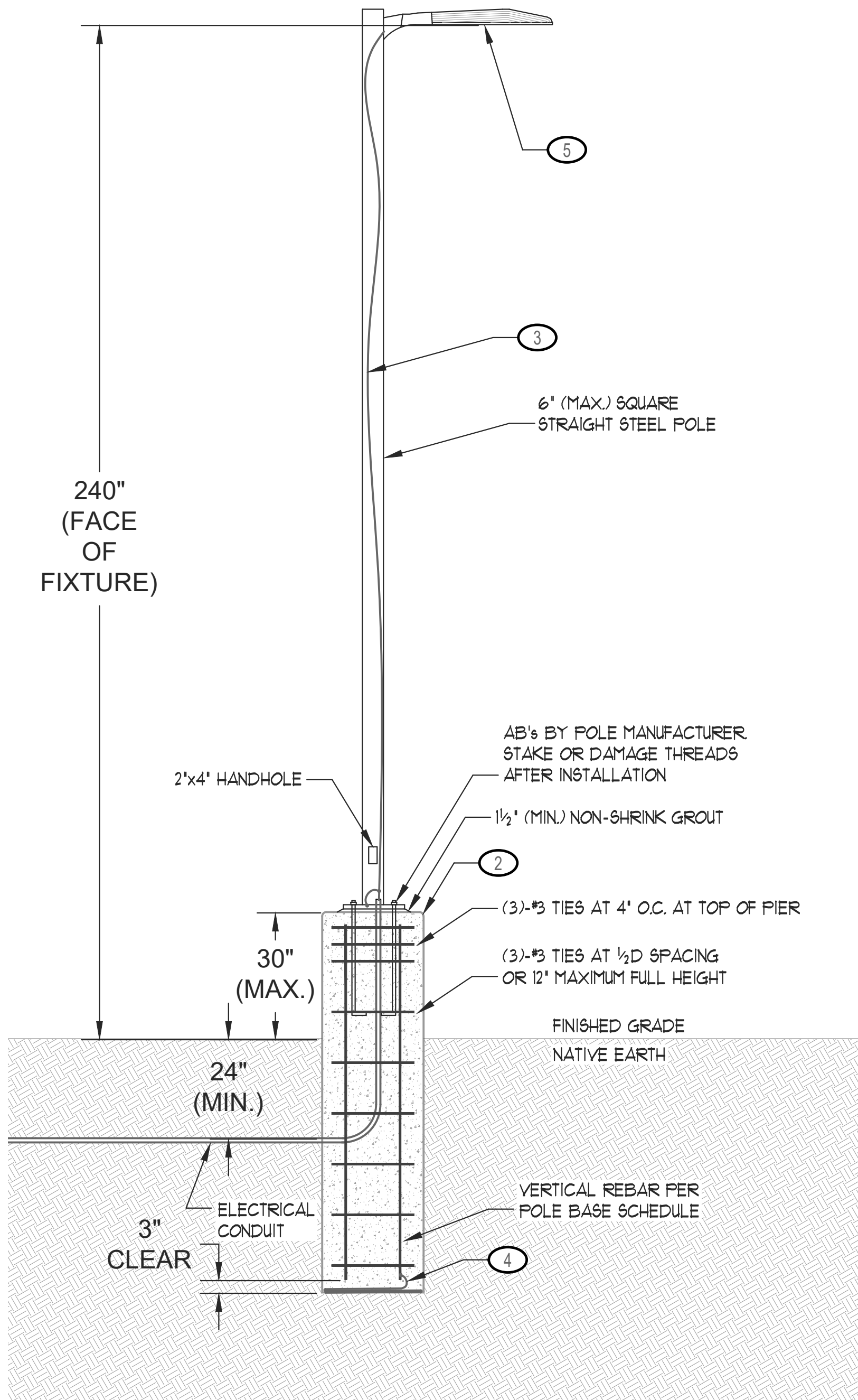
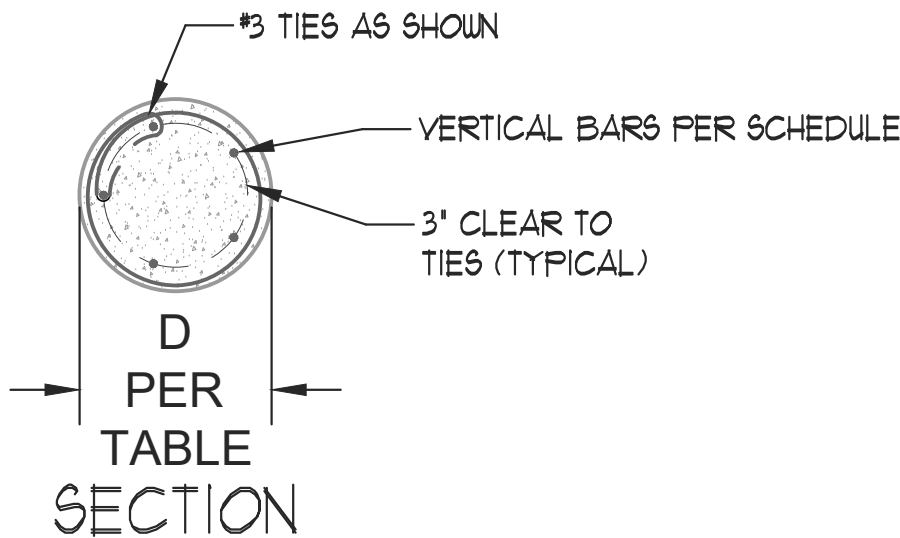




A POLE MOUNTED LIGHTING ELECTRICAL DETAIL
1/2" = 1'-0"

POLE MOUNTED LIGHTING ELECTRICAL DETAIL NOTES

- COORDINATE WITH GENERAL CONTRACTOR AS REQUIRED FOR COMPLETE INSTALLATION OF NEW POLE-MOUNTED LIGHTING. PROVIDE AND INSTALL CONCRETE POLE BASE, LIGHTING FIXTURE, LIGHTING POLE, ANCHORING, MOUNTING HARDWARE, ETC. AS REQUIRED FOR A COMPLETE INSTALLATION.
- NEW CONCRETE POLE BASE SHALL BE COMPRISED OF 4500 PSI AIR ENTRAINED CONCRETE. NO SPECIAL INSPECTION REQUIRED BECAUSE 2500 PSI DESIGN STRESS USED. FOOTING SHALL BE DRILLED INTO UNDISTURBED NATIVE SOIL. GEOTECHNICAL ENGINEER TO OBSERVE PRIOR TO PLACEMENT OF REBAR CAGE. SACK AND PATCH SO EXPOSED SURFACE IS SMOOTH. CONTRACTOR TO VERIFY AND REVIEW STRUCTURAL DRAWINGS.
- COORDINATE WITH GENERAL CONTRACTOR AS REQUIRED FOR INSTALLATION OF NEW UNDERGROUND BRANCH CIRCUIT FOR POLE MOUNTED LIGHTING. CONDUIT SHALL BE INSTALLED 24" BFG. EXTEND BRANCH CIRCUIT WIRING UP LIGHTING POLE TO NEW LIGHT FIXTURE AS REQUIRED. PROVIDE GROUND CONNECTION FOR LIGHTING POLE, REBAR INSIDE CONCRETE BASE, MOUNTING HARDWARE, AND LIGHTING FIXTURE AS REQUIRED.
- PROVIDE AND INSTALL 15' OF SPIRAL COIL BARE #4 Cu LIGHTNING GROUNDING ELECTRODE BELOW CONCRETE IN DIRECT CONTACT WITH EARTH AND IRREVERSIBLY BOND TO BOTH THE STEEL REINFORCING AND POLE SHAFT.
- PROVIDE AND INSTALL NEW LIGHTING FIXTURE AND ALL REQUIRED MOUNTING HARDWARE. TOTAL EPA (SINGLE-FIXTURE): 101 eq.ft. TOTAL WEIGHT (SINGLE-FIXTURE): 21 lbs. TOTAL COMBINED EPA FOR ALL LIGHTING FIXTURES NOT TO EXCEED 60 eq.ft.



POLE BASE SCHEDULE						
MAX FIXTURE HEIGHT	OPTION 1			OPTION 2		
	D (in.)	E (in.)	VERTICAL BARS	D (in.)	E (in.)	VERTICAL BARS
20'-0"	18	60	(5) - #5	24	54	(8) - #5

LIGHTING FIXTURE SCHEDULE

FIXTURE SYMBOL	FIXTURE TYPE	MANUFACTURER DETAILS		POWER (WATTS)	MOUNTING HEIGHT	MOUNTING CONFIG.	LAMP TYPE	NOTES AND REMARKS	VOLTAGE
		NAME	CATALOG NUMBER						
	F1	ACUITY LITHONIA	WDGE2-LED-F3-40-80CRI-VF	23	12'	SURFACE	INTEGRAL LED	BUILDING MOUNTED LED FIXTURE	120
	F2	ACUITY LITHONIA	R6X2-LED-F3-40K-R4-H6	150	20'	POLE	INTEGRAL LED	POLE MOUNTED LED FIXTURE	120
	F3	ACUITY LITHONIA	FEM-L24-3000LM-LFPCL-WD-MVOLT- GZ10-40K-80CRI-8BOR10 P	20	CEILING	SURFACE	INTEGRAL LED	ROUGH SERVICE LED FIXTURE (CARPORT/ELEVATOR LIGHTING)	120

LIGHTING FIXTURE SCHEDULE NOTES

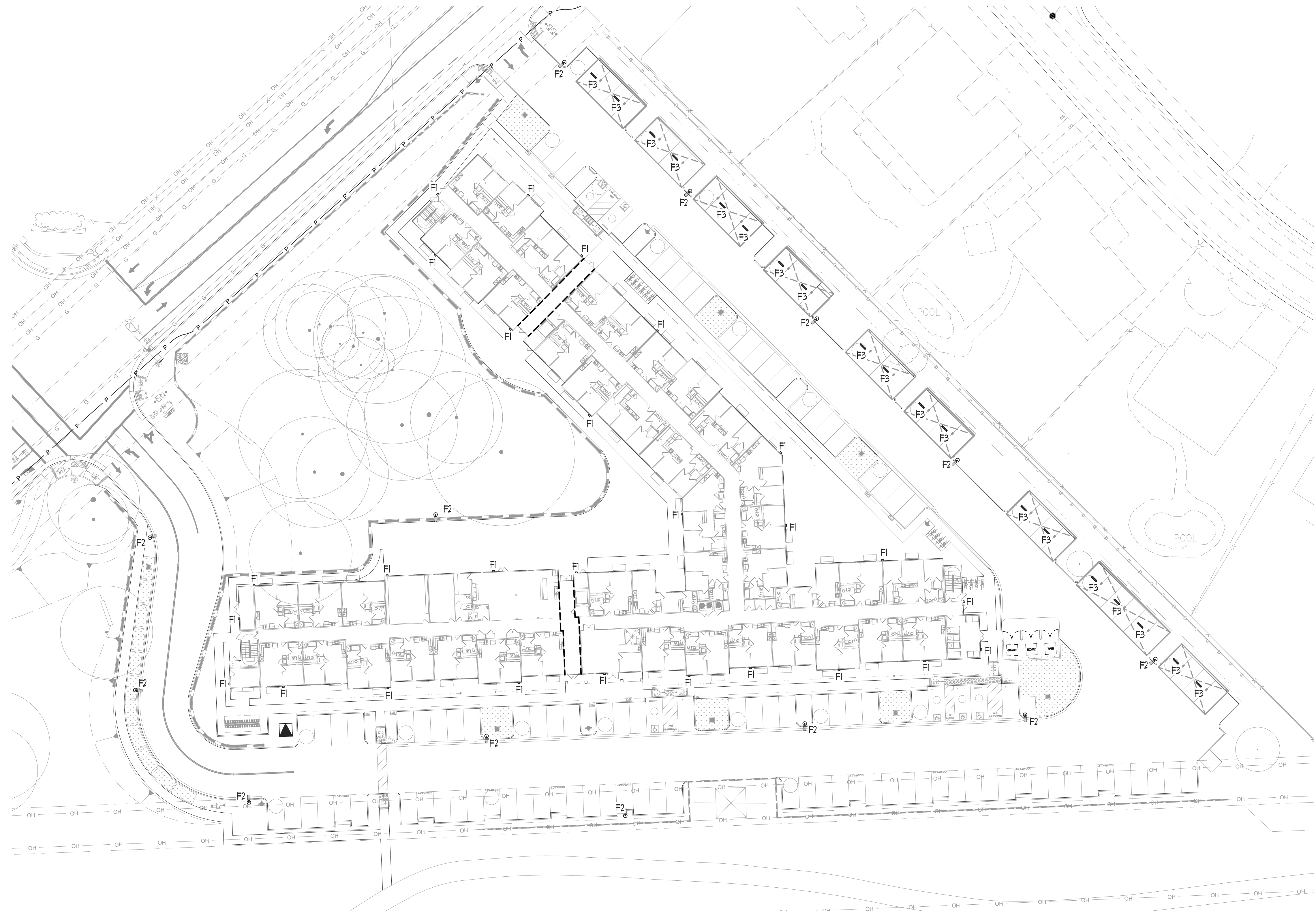
- CATALOG NUMBER INDICATES THE BASIC LIGHTING FIXTURE REQUIRED. ELECTRICAL CONTRACTOR SHALL REVIEW ALL APPLICABLE PROJECT DRAWINGS AND SHALL PROVIDE AND INSTALL THE LIGHTING FIXTURES COMPLETE WITH ALL NECESSARY ACCESSORIES AND APPURTENANCES FOR USE ON THIS PROJECT.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER AND ARCHITECT AS REQUIRED FOR SELECTION OF ALL COLORS AND FINISHES. PROVIDE OWNER AND ARCHITECT WITH ALL AVAILABLE STANDARD AND CUSTOM OPTIONS FOR COLORS AND FINISHES.
- COORDINATE WITH GENERAL CONTRACTOR AS REQUIRED FOR COMPLETE INSTALL OF NEW POLE-MOUNTED LIGHTING. PROVIDE AND INSTALL LIGHTING FIXTURE, POLE, MOUNTING HARDWARE, ANCHORING, POLE-BASE, ETC. AS REQUIRED. CONNECT COMPLETELY PER MANUFACTURER'S INSTRUCTIONS.

NOMENCLATURE

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
AF	ABOVE FINISHED FLOOR	GFI	GROUND FAULT INTERRUPTING
AFG	ABOVE FINISHED GRADE	MAX.	MAXIMUM
AFI	ARC FAULT INTERRUPTER	MCB	MAIN CIRCUIT BREAKER
BFF	BELOW FINISHED FLOOR	MIN.	MINIMUM
BFG	BELOW FINISHED GRADE	MSB	MAIN SWITCH BOARD
C	CONDUIT	MLO	MAIN LUGS ONLY
(E)	EXISTING	(N)	NEW
(F)	FUTURE	UON	UNLESS OTHERWISE NOTED
FBO	FURNISHED BY OTHERS	WP	WEATHERPROOF

ELECTRICAL SHEET INDEX

SHEET NUMBER	SHEET TITLE
E0.1	ELECTRICAL SYMBOLS, DETAILS, NOTES, ABBREVIATIONS, SHEET INDEX
E-1.1	SITE PLAN - LIGHTING
E-1.2	SITE PHOTOMETRIC CALCULATION
E-2.1	SPECIFICATION SHEETS
E-2.2	SPECIFICATION SHEETS
E-2.3	SPECIFICATION SHEETS



A SITE PLAN - LIGHTING
1" = 30'-0"

**JENSEN
ENGINEERING
INC.** Electrical Engineers
9655 Gateway Drive Reno, Nevada 89521-2968
Ph. (775) 852-2288 Fax (775) 852-3388
email: jeneng@nrvbell.net web: www.jeneng.com

NATOMAS SENIOR APARTMENTS CITY OF FOLSOM, CA

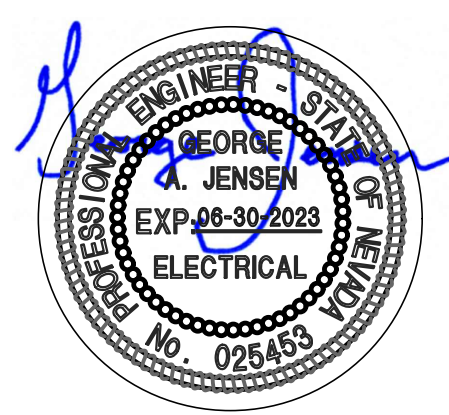
2021-1

[phase]

SITE ENTITLEMENT

[revisions]

NO.	DATE	DESCRIPTION
1	Date 1	Revision 1

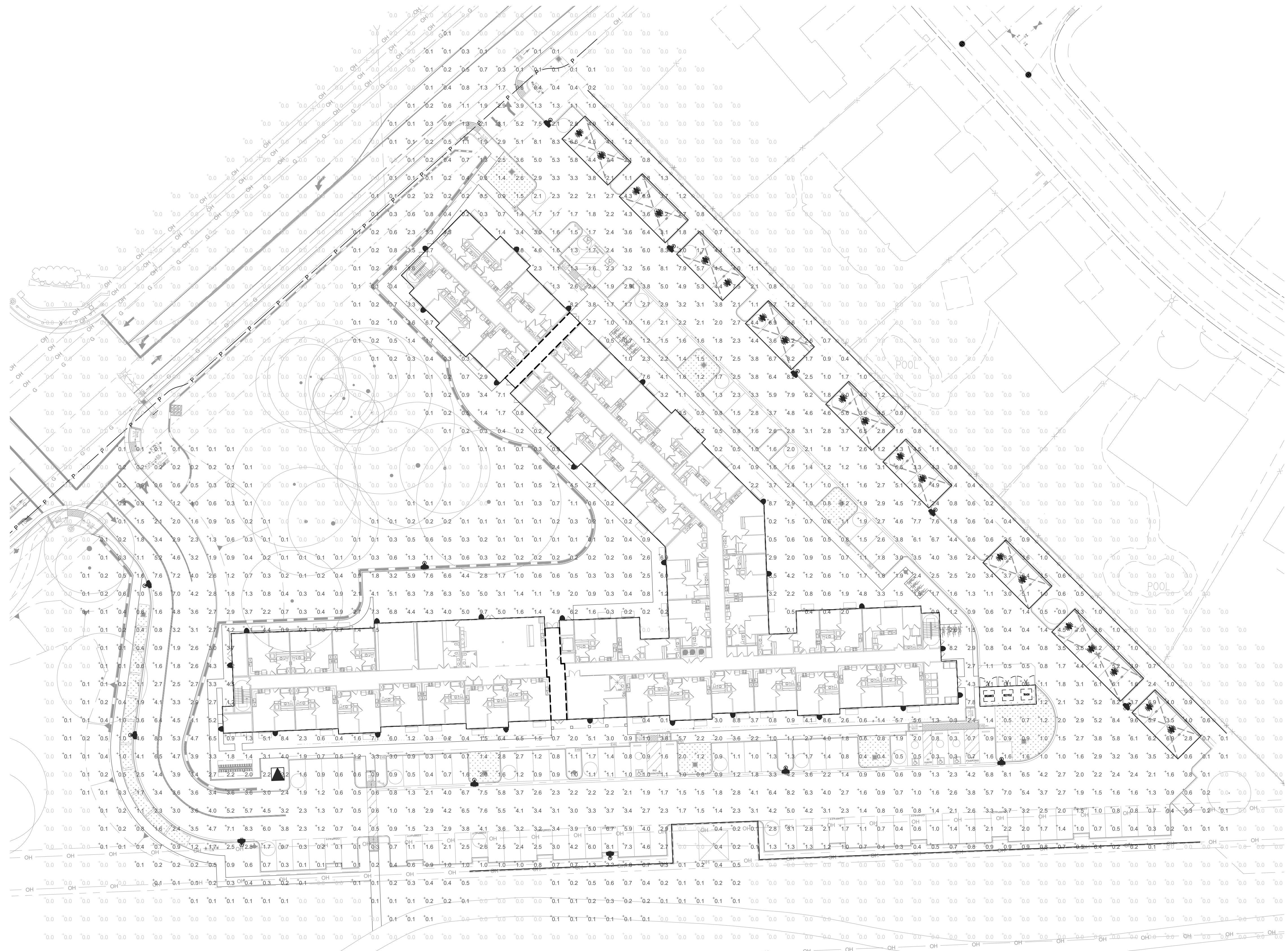


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NOVEMBER 3 2021
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SITE PLAN - LIGHTING

[sheet number]

E1.1



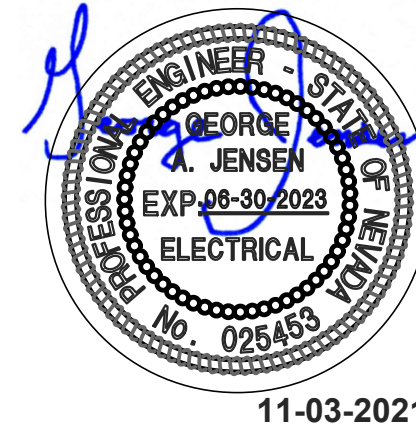
A SITE PHOTOMETRIC CALCULATION
1
1" = 30'-0"

SHEET NOTES: (THIS SHEET ONLY)

- 1 THIS PHOTOMETRIC CALCULATION WAS PREPARED USING VISUAL VERSION 2011 AND MANUFACTURER'S PUBLISHED 'IES' FILES. VALUES DEPICT EXPECTED LIGHTING LEVELS IN FOOT-CANDLES. NO CONSIDERATION FOR DAYLIGHTING OR AMBIENT LIGHTING IS INCLUDED.

NATOMAS SENIOR APARTMENTS
CITY OF FOLSOM, CA

2021-1		
[phase]		
SITE ENTITLEMENT		
[revisions]		
NO.	DATE	DESCRIPTION
1	Date 1	Revision 1





FEATURES & SPECIFICATIONS

INTENDED USE — A general purpose and energy-efficient surface-mounted or suspended LED fixture, suitable for wet, damp and/or cold locations. For vapor-tight demanding environments where moisture or dust is a concern and where relatively low fixture mounting heights and wide fixture spacing are common. Not for use or installation in direct outdoor sunlight. Must be installed under canopy or covered ceiling. For direct sunlight installations, please refer to the L13 product family. Typical applications include industrial facilities, parking garages, retail malls, multi-purpose rooms, garden centers, and food processing. **Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate. Click here for Acrylic Polycarbonate Compatibility table for suitable use.**

Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location. Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.

CONSTRUCTION — One-piece 3A fiberglass housing with integral perimeter channel utilizing continuous pot-in-place NEMA 4X gasket. Approved as a wet/dry and for through wiring. Capable polymer latches are standard. Stainless steel latches (93%) available as an option for food processing or more demanding applications. Power connection is easily accomplished through pre-drilled holes. Fixture easily mounts to ceilings and other solid structures, or can be suspended with chain, cable or rod using stainless steel mounting brackets (included).

OPTICS — Injection molded, acrylic lens (.080" thick) provides high impact-resistance comparable to 100% DR. A UV-stabilized polycarbonate diffuser is available (.480" thick) in clear or frosted for additional impact strength where vandalism protection is desired.

Expected service life of 60,000 hours at 80% lumen maintenance (L80); predicted life of more than 100,000 hours.

ELECTRICAL — Utilizes high-efficiency LEDs mounted to core circuit boards. High-efficiency drivers operate 120-277 MVOLTS and 347-480 (MVOLTS) offered with 0-10 volt dimming. Standard Luminaire Surge Protection Level: 6kV/3kA Surge Rated per ANSI C82.77-5-2015.

INSTALLATION — Fixture can be surface, suspended or wall mounted. Pre-punched stainless steel mounting brackets are included (two per luminaire) for easy field-attachment of bolts, screws and other mounting hardware.

LISTINGS — CSA Certified to UL and CUL Standards. Suitable for wet location. IP65, IP66, IP67 rated and certified to meet NSF Splash Zone 2, NEMA 4X rated. Sensors maintain IP65 and IP66 only. See chart on page 5 for Ambient Temperatures.

DesignLight Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/DLC to confirm which versions are qualified.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy American government procurement requirements under FAR, LPAS and DOT. Please refer to www.aaculightbrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. Complete warranty terms located at: www.aaculightbrands.com/support/warranty-terms-and-conditions

NOTE: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

Catalog Number
Notes
Type

Low-Profile Enclosed and Gasketed Industrial



Stock configurations are offered for shorter lead times:

Standard Part Number	Stock Part Number
FEM L48-4000LM LPAFL MD MVOLTS GZ10 40K 80CRI	FEM L48-4L MVOLTS
FEM L48-4000LM LPAFL MD MVOLTS GZ10 50K 80CRI	FEM L48-4L MVOLTS 5K

Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks marked by a **shaded background***

To learn more about A+, visit www.aaculightbrands.com/aplus.

*See ordering tree for details

INDUSTRIAL

FEM LED

Page 1 of 6

FEM LED Low-Profile Enclosed and Gasketed

OPERATIONAL DATA (80 CRI*, MD**, MVOLTS**)

Length	Package	Input Wattage	CCT	Frosted Lens			Clear Lens			
				IMAFI	LPFL	LPPL	IMACD	LPFL	LPPL	
L24	2000LM	13.4	30K	1962 (147)	2083 (155)	2076 (155)	1861 (139)	2112 (157)	2105 (158)	1890 (142)
			35K	2002 (150)	2136 (159)	2118 (159)	1899 (142)	2155 (161)	2147 (161)	1929 (144)
			40K	2089 (157)	2238 (167)	2220 (166)	1901 (149)	2259 (169)	2251 (169)	2022 (151)
			50K	2122 (159)	2252 (169)	2244 (168)	2013 (151)	2284 (171)	2276 (170)	2044 (153)
	3000LM	19.9	30K	2869 (144)	3046 (153)	3035 (153)	2721 (137)	3088 (155)	3077 (155)	2764 (139)
			35K	2927 (147)	3108 (156)	3096 (156)	2777 (140)	3151 (158)	3139 (158)	2820 (142)
			40K	3069 (154)	3258 (164)	3246 (163)	2911 (146)	3303 (166)	3291 (166)	2956 (148)
			50K	3102 (156)	3295 (166)	3281 (165)	2942 (148)	3339 (168)	3327 (167)	2988 (150)
	4000LM	26.0	30K	3676 (142)	3903 (150)	3889 (150)	3487 (134)	3957 (152)	3943 (152)	3541 (136)
			35K	3745 (145)	3982 (153)	3968 (153)	3558 (137)	4027 (156)	4023 (155)	3613 (139)
			40K	3932 (152)	4174 (161)	4159 (160)	3730 (144)	4232 (163)	4217 (162)	3788 (146)
			50K	3975 (153)	4219 (163)	4204 (162)	3770 (145)	4278 (165)	4263 (164)	3829 (148)
5000LM	39.2	30K	5287 (135)	5613 (143)	5593 (143)	5015 (128)	5691 (145)	5671 (145)	5093 (130)	
		35K	5395 (138)	5727 (146)	5707 (145)	5117 (130)	5806 (148)	5786 (147)	5196 (132)	
		40K	5655 (144)	6004 (155)	5982 (155)	5364 (137)	6087 (155)	6065 (155)	5447 (139)	
		50K	5717 (146)	6069 (155)	6047 (154)	5422 (138)	6153 (157)	6131 (156)	5506 (140)	
6000LM	18.0	30K	2869 (149)	3055 (158)	3044 (158)	2551 (141)	3094 (160)	3084 (160)	2590 (144)	
		35K	2748 (152)	2912 (161)	2902 (161)	2602 (144)	2953 (164)	2942 (163)	2645 (146)	
		40K	2876 (159)	3053 (169)	3042 (169)	2728 (151)	3095 (172)	3084 (171)	2776 (154)	
		50K	2907 (161)	3086 (171)	3075 (170)	2758 (153)	3129 (173)	3118 (173)	2800 (155)	
4000LM	23.8	30K	3545 (149)	3762 (158)	3748 (157)	3361 (141)	3814 (160)	3800 (160)	3413 (143)	
		35K	3615 (152)	3838 (161)	3824 (161)	3429 (146)	3891 (163)	3877 (163)	3482 (148)	
		40K	3790 (159)	4023 (169)	4009 (168)	3595 (151)	4079 (171)	4064 (171)	3650 (153)	
		50K	3831 (161)	4067 (171)	4052 (170)	3634 (153)	4123 (173)	4109 (173)	3690 (155)	
L48	3000LM	18.0	30K	5284 (140)	5609 (149)	5589 (148)	5012 (133)	5687 (151)	5667 (150)	5090 (135)
			35K	5391 (143)	5723 (152)	5703 (151)	5114 (135)	5802 (154)	5782 (153)	5193 (138)
			40K	5651 (150)	6000 (159)	5978 (158)	5341 (142)	6083 (161)	6061 (161)	5444 (144)
			50K	5713 (151)	6065 (161)	6043 (160)	5419 (144)	6149 (163)	6127 (162)	5593 (146)
	3780LM	25.5	30K	6952 (138)	7380 (146)	7354 (146)	6594 (131)	7482 (148)	7456 (148)	6696 (133)
			35K	7093 (141)	7530 (149)	7503 (149)	6728 (133)	7634 (151)	7607 (151)	6832 (135)
			40K	7455 (147)	7894 (156)	7865 (156)	7053 (140)	8003 (159)	7975 (158)	7162 (142)
			50K	7516 (149)	7919 (158)	7890 (158)	7129 (141)	8090 (160)	8061 (160)	7240 (144)
	8000LM	50.5	30K	8646 (140)	9179 (148)	9146 (148)	8201 (132)	9306 (150)	9273 (150)	8328 (134)
			35K	8822 (142)	9365 (151)	9332 (151)	8368 (135)	9495 (153)	9461 (153)	8497 (137)
			40K	9486 (149)	9817 (158)	9782 (158)	8772 (142)	9953 (161)	9918 (160)	8998 (144)
			50K	9548 (151)	9924 (160)	9888 (160)	8867 (145)	10001 (162)	10026 (162)	9004 (145)
9000LM	53.4	30K	10406 (139)	11047 (147)	11007 (147)	9871 (132)	11200 (149)	11160 (149)	10024 (134)	
		35K	10617 (141)	11271 (150)	11231 (150)	10071 (134)	11427 (152)	11387 (152)	10227 (136)	
		40K	11130 (148)	11816 (157)	11773 (157)	10557 (141)	11979 (160)	11937 (159)	10721 (143)	
		50K	11251 (150)	11944 (159)	11901 (159)	10672 (142)	12109 (161)	12066 (161)	10837 (144)	
12000LM	75.0	30K	7962 (149)	8452 (158)	8422 (158)	7552 (141)	8570 (160)	8539 (160)	7669 (144)	
		35K	8124 (152)	8624 (161)	8593 (161)	7706 (144)	8743 (164)	8713 (163)	7825 (146)	
		40K	8516 (159)	9040 (169)	9008 (169)	8073 (151)	9166 (172)	9133 (171)	8203 (154)	
		50K	8608 (161)	9138 (171)	9106 (170)	8165 (153)	9265 (173)	9232 (173)	8292 (155)	
L96	12000LM	75.5	30K	10570 (140)	11221 (149)	11181 (148)	10026 (133)	11377 (151)	11337 (150)	10182 (135)
			35K	10705 (143)	11440 (152)	11399 (152)	11030 (135)	11608 (154)	11567 (153)	10288 (138)
			40K	11336 (150)	12002 (159)	11959 (158)	10724 (142)	12168 (161)	12125 (161)	10890 (140)
			50K	11428 (151)	12132 (161)	12089 (160)	10840 (144)	12300 (163)	12257 (162)	11008 (143)
	15000LM	94.3	30K	13677 (141)	14270 (150)	14229 (149)	12370 (135)	14422 (153)	14371 (152)	12367 (137)
			35K	13942 (142)	14625 (151)	14574 (150)	12570 (137)	14677 (154)	14625 (153)	12567 (138)
			40K	14671 (147)	15154 (156)	15103 (155)	12968 (138)	14714 (156)	14662 (155)	13169 (140)
			50K	14831 (152)	15214 (161)	15160 (161)	13394 (144)	15425 (164)	15370 (163)	13805 (146)
	18000LM	103.4	30K	14487 (154)	15379 (163)	15326 (163)	13741 (146)	15592 (165)	15537 (165)	13954 (148)
			35K	15901 (154)	16881 (163)	16820 (163)	13683 (146)	16920 (163)	16859 (163)	13717 (148)
			40K	16224 (157)	17223 (167)	17161 (166)	15389 (149)	17462 (169)	17400 (168)	15627 (151)
			50K	17007 (164)	18055 (175)	17990 (174)	16132 (156)	18305 (177)	18240 (176)	16382 (158)
20000LM	125.5	30K	17102 (166)	18251 (176)	18185 (176)	16307 (158)	18503 (179)	18438 (178)	16560 (160)	
		35K	17590 (140)	18600 (148)	18544 (148)	16466 (133)	18888 (150)	18822 (150)	16904 (135)	
		40K	17906 (143)	19008 (151)	18940 (151)	16684 (135)	19272 (154)	19204 (153)	17247 (137)	
		50K	18770 (150)	19927 (159)	19855 (158)	17804 (142)	20202 (161)	20131 (160)	18000 (144)	
24000LM	149.5	30K	18974 (151)	20140 (160)	20070 (160)	17997 (143)	20421 (163)	20349 (162)	18276 (146)	
		35K	21142 (141)	22465 (150)	22364 (150)	20055 (136)	22756 (152)	22675 (152)	20365 (138)	
		40K	21571 (144)	22900 (153)	22818 (153)	20461 (137)	23217 (155)	23135 (155)	20779 (139)	
		50K	22813 (151)	24006 (161)	23920 (160)	21450 (143)	24539 (163)	24453 (162)	21782 (146)	

* For 90CRI, lumens lower output by 17.1%
** For 90CRI, lumens lower output by 4.7%, P60 reduce output by 5.4%
*** For 90CRI, lumens lower output by 10.0% (see table below)

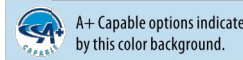


INDUSTRIAL: One Lithonia Way, Conyers, GA 30012 Phone: 800-705-SERV (7378) www.lithonia.com

FEM LED

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FEM LED Low-Profile Enclosed and Gasketed



ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative.

Example: FEM L48-4000LM IMAFL WD MVOLTS GZ10-40K 80CRI

Series	Length	Nominal Lumens	Diffuser	Distribution	Voltage	Driver	Color Temperature	CRI	
FEM	L24 24"	2000LM 2,000 lumens	IMAFI Acrylic, linear ribbed frosted lens	MD Medium	120V 120V	GZ10 0-10V dimming	30K 3000K	80CRI 80 CRI	
		3000LM 3,000 lumens	IMACD Acrylic, clear deep lens	WD Wide	120V 120V		35K 3500K	90CRI 90 CRI	
		4000LM 4,000 lumens	IMAFD Acrylic, deep frosted lens	PGD Parking garage	277 277V		40K 4000K		
		6000LM 6,000 lumens	LPAFL Acrylic, low profile frosted lens		347 347V		50K 5000K		
	L48 48"	3000LM 3,000 lumens	UPPCL Polycarbonate, low profile clear lens		480 480V				
		4000LM 4,000 lumens	UPPFL Polycarbonate, low profile frosted lens						
		6000LM 6,000 lumens							
		8000LM 8,000 lumens							
	L96 96"	10000LM 10,000 lumens							
		12000LM 12,000 lumens							
		9000LM 9,000 lumens							
		12000LM 12,000 lumens							
L150 150"	15000LM 15,000 lumens								
	18000LM 18,000 lumens								
	20000LM 20,000 lumens								
	24000LM 24,000 lumens								