

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED MASTER ELECTRICIAN UNDER THE LAWS OF THE STATE OF WISCONSIN.
DATE: _____
SIGNATURE: _____
NAME: _____
LICENSE NO.: _____

GENERAL NOTES

PROJECT / ADDRESS

FARNAM FLATS APARTMENTS

LA CROSSE, WI

DATE

9/6/2019

DRAWING

DRAWN BY

RAS

SHEET TITLE

SITE LIGHTING PHOTOMETRIC PLAN

SHEET

1 OF 2

HOOD ST

7TH STS

UNNAMED ALLEY

TRASH/ RECYCLE

FARNAM ST

SITE ELECTRICAL PLAN

1 OF 2 SCALE: 1"=10'



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Bottom of Ramp	+	7.0 fc	8.2 fc	5.1 fc	1.6:1	1.4:1
Lower Ramp	+	9.3 fc	10.7 fc	7.4 fc	1.4:1	1.3:1
Mid Ramp	+	5.8 fc	9.0 fc	3.3 fc	2.7:1	1.8:1
N. side of bldg	+	0.4 fc	17.5 fc	0.0 fc	N/A	N/A
Parking Lot	+	3.2 fc	11.4 fc	0.0 fc	N/A	N/A
South Side of bldg	+	1.6 fc	17.9 fc	0.0 fc	N/A	N/A
Upper Ramp	+	5.5 fc	10.4 fc	4.1 fc	2.5:1	1.3:1
West side of bldg	+	0.0 fc	4.3 fc	0.0 fc	N/A	N/A

Luminaire Locations										
		Location					Aim			
No.	Label	X	Y	Z	MH	Orientation	Tilt	X	Y	Z
1	R	137.00	214.67	8.00	8.00	0.00	0.00	137.00	214.67	0.00
2	R	231.56	95.15	8.00	8.00	0.00	0.00	231.56	95.15	0.00
3	R	213.33	66.41	8.00	8.00	0.00	0.00	213.33	66.41	0.00
4	R	160.97	67.16	8.00	8.00	0.00	0.00	160.97	67.16	0.00
5	R	108.14	68.02	11.00	11.00	0.00	0.00	108.14	68.02	0.00
6	R	116.32	67.65	11.00	11.00	0.00	0.00	116.32	67.65	0.00
7	R	124.95	67.49	11.00	11.00	0.00	0.00	124.95	67.49	0.00
8	R	104.13	71.81	11.00	11.00	0.00	0.00	104.13	71.81	0.00
9	R	104.38	82.00	11.00	11.00	0.00	0.00	104.38	82.00	0.00
1	U	207.24	163.62	16.00	16.00	90.00	0.00			
6	V1	167.39	127.50	2.00	2.00	0.00	0.00	167.39	127.50	0.00
7	V1	189.61	127.22	2.00	2.00	0.00	0.00	189.61	127.22	0.00
8	V1	166.87	200.05	9.00	9.00	90.00	0.00	166.87	200.05	0.00
9	V1	166.38	170.40	8.88	13.00	90.00	0.00	166.38	170.40	-4.12
10	V1	165.84	142.37	8.88	13.00	90.00	0.00	165.84	142.37	-4.12
11	V1	218.93	126.62	9.00	9.00	0.00	0.00	218.93	126.62	0.00

Schedule	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	File Name	Lumens Per Lamp	Light Loss Factor	Wattage
	U	1	Mobul Lighting Inc. dba Beacon Products	VP-S-36L-80-4K7-2		K-75-CRI DATA SHOWN IS SCALED FROM TEST 11604137.04	1	VP-S-36L-80-4K7-2.iss	9386	0.95	162
	R	9	PRESCOLITE	LCBSL 4LCBSL10L40K8	4" Open Down Light	50-NICHIA 4000K LEDs	1	LCBSL 4LCBSL10L40K8.IES	1061	0.95	13.3
	V1	6	HUBBELL OUTDOOR	TRP2-24L-30-4K7-4	GeoPak Size 2	C-75-CRI	1	TRP2-24L-30-4K7-4.IES	3647	0.95	27.9

[illegible]

PHOTOMETRICS		PHOTOMETRIC DATA							PROJECTED LUMEN MAINTENANCE														
Type III - Fixed Newell Style	Type 2	Type 3	Type 4	Type 4W	Type SW	Type SR			AMT52C	TM-21-11	Calculated L70												
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-use environment and application.																							
ELECTRICAL DATA																							
# OF LEADS	NUMBER OF DRIVERS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	SYSTEM POWER (w)	CURRENT (amps)		TEMP.	0	25,000	50,000	60,000	100,000											
24	2	700 mA	170 277 347 480	55	0.8 0.2 0.2 0.1	25°C / 77°C	1.00	0.97	0.95	0.95	0.92	>377,000											
36	1	560 mA	170 277 347 480	65	0.7 0.2 0.2 0.16																		
48	1	700 mA	170 277 347 480	80	0.9 0.3 0.2 0.3																		
60	1	700 mA	170 277 347 480	136	0.9 0.3 0.4 0.3																		
Data references the extrapolated performance for the base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.																							
DRILL PATTERN		RECTANGULAR ARM (A)																					
		Compatible with Pole-drip outlet (B)																					
EPA																							
TENON TPO BRACKET ACCESSORIES (Order Separately)																							
(3.30\"/>																							
Catalog Number		Description																					
SETAVP-XX		Square tenon adapter (4 at 90° for A - Rectangular Arm mounting option only)																					
RETAVP-XX		Round tenon adapter (4 at 90° for A - Rectangular Arm mounting option only)																					
SETAVP-XX		Hexagonal tenon adapter (4 at 90° for A - Rectangular Arm mounting option only)																					
SETATXX		Square tenon adapter (4 at 90° for AO - Universal Arm mounting option only)																					
RETATXX		Round tenon adapter (4 at 90° for AO - Universal Arm mounting option only)																					
SETATXX		Hexagonal tenon adapter (3 at 120° for AO - Universal Arm mounting option only)																					
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Due to our constant efforts to improve our products, product specifications are subject to change without notice.																							

PHOTOMETRIC DATA

LifeFrame - 4" LC4SL Downlight

POWER DATA	4CLSL120xxxx	4CLSL150xxxx	4CLSL180xxxx	Lumen Multiplier Table	
Input Voltage	120/277V	120/277V	120/277V	Photometrics for the LC4SL are published below at a nominal 3500K kelvin temperature. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.	
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	5000 Kelvin	1.09
Current	0.111 [120]	0.148 [120]	0.185 [120]	4000 Kelvin	1.00
	0.048 [277]	0.064 [277]	0.080 [277]	3500 Kelvin	1.00
Power Factor	13.4W	17.0W	22.2W	3000 Kelvin	0.99
Instant Current Output	700mA	700mA	700mA	2700 Kelvin	0.96
Power	<0.90	<0.90	<0.90		
Power Factor	<0.95	<0.95	<0.95		
Flicker	FCC 47CFR	FCC 47CFR	FCC 47CFR		
EMC	Part 15, Class A	Part 15, Class A	Part 15, Class A		
Operating Temperature	30°C to +35°C	30°C to +28°C	30°C to +25°C		
Humidity	0-10V	0-10V	0-10V		

re-evaluate, over-current, short-circuit protected operating in EM mode, the fixture will produce approximately 30% of the published full lumen output.	4CLSL180LSX Light Engine: 3500K, 80+ CRI em. Wattage: 22.3W em. Delivered Lumens: 1865 em. Efficacy: 83.6 cree Criteria: 1.0	WATTAGE LUMEN SUMMARY <table> <tr> <th>ZONE</th><th>LUMENS</th><th>%LUMINAIRE</th></tr> <tr> <td>0-60</td><td>1865</td><td>99.8</td></tr> <tr> <td>0-90</td><td>1865</td><td>100.0</td></tr> <tr> <td>90-180</td><td>0</td><td>0.0</td></tr> <tr> <td>0-180</td><td>1865</td><td>100.0</td></tr> </table>	ZONE	LUMENS	%LUMINAIRE	0-60	1865	99.8	0-90	1865	100.0	90-180	0	0.0	0-180	1865	100.0	LUMINAIRE DATA IN CANDELA/ SQ. METER <table> <tr> <th>Angle in Vertical</th><th>Average</th></tr> <tr> <td>45°</td><td>434.65</td></tr> <tr> <td>55°</td><td>9892</td></tr> <tr> <td>65°</td><td>477</td></tr> <tr> <td>85°</td><td>0</td></tr> </table>	Angle in Vertical	Average	45°	434.65	55°	9892	65°	477	85°	0
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4CLSL150LSX Light Engine: 3500K, 80+ CRI em. Wattage: 17.0W em. Delivered Lumens: 1443 em. Efficacy: 81.5 cree Criteria: 1.0	WATTAGE LUMEN SUMMARY <table> <tr> <th>ZONE</th><th>LUMENS</th><th>%LUMINAIRE</th></tr> <tr> <td>0-60</td><td>1439</td><td>99.7</td></tr> <tr> <td>0-90</td><td>1443</td><td>100.0</td></tr> <tr> <td>90-180</td><td>0</td><td>0.0</td></tr> <tr> <td>0-180</td><td>1443</td><td>100.0</td></tr> </table>	ZONE	LUMENS	%LUMINAIRE	0-60	1439	99.7	0-90	1443	100.0	90-180	0	0.0	0-180	1443	100.0	LUMINAIRE DATA IN CANDELA/ SQ. METER <table> <tr> <th>Angle in Vertical</th><th>Average</th></tr> <tr> <td>45°</td><td>32794</td></tr> <tr> <td>55°</td><td>7312</td></tr> <tr> <td>65°</td><td>584</td></tr> <tr> <td>85°</td><td>0</td></tr> </table>	Angle in Vertical	Average	45°	32794	55°	7312	65°	584	85°	0
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4CLSL120LSX Light Engine: 3500K, 80+ CRI em. Wattage: 13.4W em. Delivered Lumens: 1124 em. Efficacy: 83.6 cree Criteria: 1.0	WATTAGE LUMEN SUMMARY <table> <tr> <th>ZONE</th><th>LUMENS</th><th>%LUMINAIRE</th></tr> <tr> <td>0-60</td><td>1124</td><td>99.7</td></tr> <tr> <td>0-90</td><td>1128</td><td>100.0</td></tr> <tr> <td>90-180</td><td>0</td><td>0.0</td></tr> <tr> <td>0-180</td><td>1128</td><td>100.0</td></tr> </table>	ZONE	LUMENS	%LUMINAIRE	0-60	1124	99.7	0-90	1128	100.0	90-180	0	0.0	0-180	1128	100.0	LUMINAIRE DATA IN CANDELA/ SQ. METER <table> <tr> <th>Angle in Vertical</th><th>Average</th></tr> <tr> <td>45°</td><td>2579</td></tr> <tr> <td>55°</td><td>584</td></tr> <tr> <td>65°</td><td>477</td></tr> <tr> <td>85°</td><td>0</td></tr> </table>	Angle in Vertical	Average	45°	2579	55°	584	65°	477	85°	0
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SHEET

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