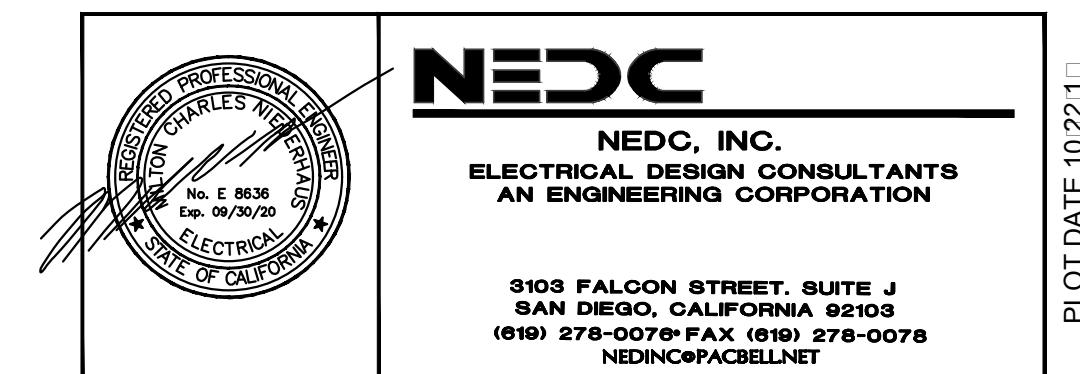


NORTH

LUMINAIRE SCHEDULE							
TYPE	MTG.	LAMP	LUMINAIRE DESCRIPTION	MANUFACTURER & CATALOG NUMBER	INPUT VOLTS	REF. NOTES	REF. SYMBOLS
		#					
(SA)	WALL	1	42.7W LED 4000K	LED WALL PACK	HUBBELL #LNC2-A8LU-4K-4	42.7W VOLTS	Fixture shall be dark bronze color
(SB)	WALL	1	42.7W LED 4000K	LED WALL PACK	HUBBELL #LNC2-A8LU-4K-2	42.7W VOLTS	Fixture shall be dark bronze color
(SC)	WALL	1	42.7W LED 4000K	LED WALL PACK	HUBBELL #LNC2-A8LU-4K-3	42.7W VOLTS	Fixture shall be dark bronze color
(SD)	POLE	1	59W LED 4000K	LED POLE LIGHT	HUBBELL #ASL-8L-4K 210-3-EHS	59W VOLTS	Fixture shall be dark bronze color



20565 VALLEY GREEN DRIVE | CUPERTINO, CA

## ELECTRICAL SITE PLAN

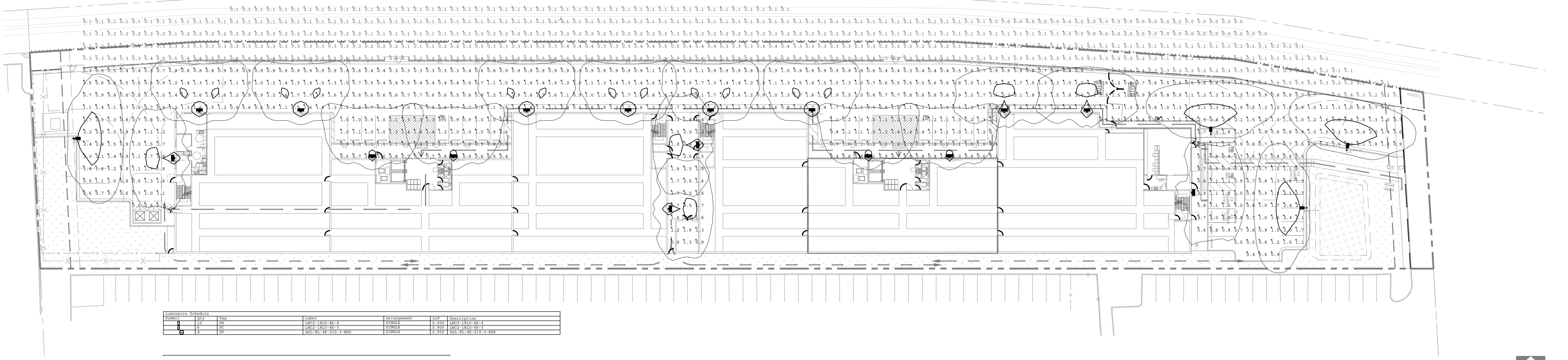
10.22.18

SHEET 23  
E1.0

**KSP**  
STUDIO  
architecture + engineering  
23 ORCHARD ROAD, SUITE 200  
LAKE FOREST, CA 92630  
T: 413.0.3.70 F: 413.0.3.3771

scale: 1" = 50'-0"

KSP PROJECT NO. 20367

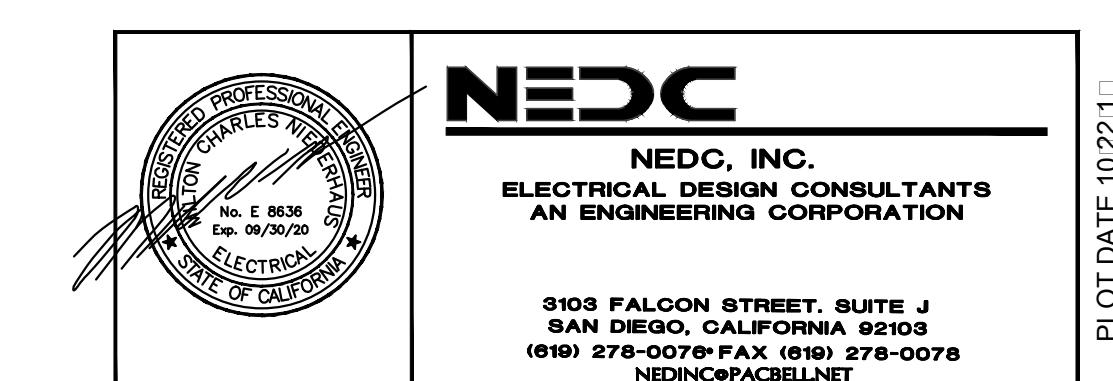


Luminaire Schedule						
Symbol	Qty	Tag	Label	Arrangement	LLF	Description
	10	SA	LNC2-18LU-4K-4	SINGLE	0.900	LNC2-18LU-4K-4
	6	SC	LNC2-18LU-4K-3	SINGLE	0.900	LNC2-18LU-4K-3
	4	SD	ASL-8L-4K-210-3-EHS	SINGLE	0.900	ASL-8L-4K-210-3-EHS

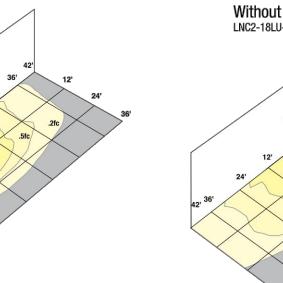
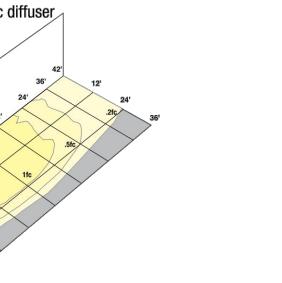
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking-Drive_Planar	Illuminance	Fc	1.13	2.8	0.3	3.77	9.33
Property Line and Beyond_Planar	Illuminance	Fc	0.21	0.9	0.0	N.A.	N.A.

NOTES:

- FIXTURE MOUNTING HEIGHTS LABELED ON DRAWING:
  - 15'-0" A.F.F.
  - 20'-0" A.F.F.
- CALC PTS ON GROUND: 0'-0"



H 10' 0" W 20' 0"  
scale: 1" = 50' 0"

<b>LNC2 SERIES</b>	Cat.#			<b>HUBBELL Outdoor Lighting</b>																																																																																																																																																																																																																							
	Job	Type	Approvals																																																																																																																																																																																																																								
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	<p><b>Intended Use:</b> The compact LED LNC2 is designed for perimeter illumination for safety, security and identity. This compact fixture has no uplight and neighbor friendly with typical mounting heights up to 15ft. Units are supplied with an acrylic diffuser accessory that can be used for lower LED brightness near building entrances or other pedestrian areas. Units have protective polyester finish for long lasting appearance.</p> <p><b>Construction:</b> Decorative die-cast aluminum housing protects components and provides an architectural appearance. Casting thermally conducts LED heat to optimize performance and long life. Powder paint finish provides durability in outdoor environments.</p> <p><b>Electrical:</b></p> <ul style="list-style-type: none"> <li>• 120V-277V universal voltage 50/60Hz 0-10V dimming drivers</li> <li>• 347V and 480V dimmable driver option in 12L configuration</li> <li>• Electronic drivers: One in 5L, 7L, 9L and 12L units Two drivers in 18L units</li> <li>• Minimum operating temperature is -40°C/-40°F</li> <li>• Driver RoHS and IP66</li> <li>• Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion</li> </ul> <p><b>LED(s) CCT:</b></p> <ul style="list-style-type: none"> <li>• 3000K CCT nominal – 80 CRI, 4000K CCT nominal – 70 CRI</li> <li>• 5, 7, 9, 12 and 18 LED configurations available see page 2 for electrical and photometric details</li> </ul> <p><b>Optical:</b> Type II, III and IV distributions with zero uplight; Individual PMMA acrylic lenses for wide lateral throw, maximum control and efficiency; Acrylic diffuser included where reduced LED brightness is desired</p>																																																																																																																																																																																																																										
<p><b>Lumen Maintenance:</b> L96 at 60,000hrs (Projected per IESNA TM-21-11), see table on page 2 for all values</p> <p><b>Installation:</b> Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box). Gasket seal and secured by two Allen-head hidden fasteners for tamper resistance. Designed for direct j-box mount or conduit feed in single SKU. Conduit feed not available with BBU.</p> <p><b>Options:</b></p> <p><b>Controls:</b></p> <ul style="list-style-type: none"> <li>• Button photocell for dusk to dawn energy savings</li> <li>• Occupancy sensor options available for complete on/off and dimming control (includes factory installed back box)</li> </ul> <p><b>Egress (includes factory installed back box):</b></p> <ul style="list-style-type: none"> <li>• Battery back-up option - 12L configuration only</li> <li>• Provides 1 fc minimum over 10' x 10' at 11' mounting height (exceeds NEC requirement)</li> <li>• 1,546 initial lumens in battery mode</li> <li>• Meets UL924 90 minute discharge schedule</li> <li>• -20°C to 30°C operating temperature</li> </ul> <p><b>Listings:</b></p> <ul style="list-style-type: none"> <li>• DLC Qualified (Types III and IV) Consult DLC website for details: <a href="http://www.designlights.org/QPL">http://www.designlights.org/QPL</a></li> <li>• Listed to UL 1598 for use in wet locations, 40° C ambient environments</li> </ul> <p><b>Warranty:</b> Five year limited warranty (for more information visit: <a href="http://www.hubbelloutdoor.com/resources/warranty/">http://www.hubbelloutdoor.com/resources/warranty/</a>)</p> <p><b>IES:</b> IES Progress Award Winner - 2013</p> <p><b>Building Operating Management 2014</b></p> <p><b>Top Products Award - LNC2-18LU</b></p>																																																																																																																																																																																																																											
<p><b>CERTIFICATIONS/LISTINGS</b></p>     <p>*3000K and warmer CCTs only</p> <p><b>ORDERING INFORMATION – ORDERING EXAMPLE: LNC2-12LU-5K-3-1</b></p> <table border="1"> <tr> <td><b>LNC2</b></td> <td>-</td> <td>[ ]</td> </tr> <tr> <td><b>NUMBER OF LEDS</b></td> <td><b>VOLTAGE<sup>7</sup></b></td> <td><b>CCT</b></td> <td><b>IES DISTRIBUTION</b></td> <td><b>FINISH</b></td> <td><b>OPTIONS</b></td> <td colspan="6"></td> </tr> <tr> <td>LNC2 5L 5 LEDs</td> <td>U 120V-277V</td> <td>3K<sup>2</sup> 3000K nominal 80 CRI</td> <td>2<sup>3</sup> Type II</td> <td>DB Dark Bronze Textured</td> <td>BBU<sup>4,5</sup> Integral battery for 12L only (must specify 120V or 277V voltage in voltage category) rated for -20°C to 30°C</td> <td colspan="6"></td> </tr> <tr> <td>7L 7 LEDs</td> <td>1 120V</td> <td>4K 4000K nominal 70 CRI</td> <td>3 Type III</td> <td>BL Black Textured</td> <td>GR Gray Textured</td> <td colspan="6"></td> </tr> <tr> <td>9L 9 LEDs</td> <td>2 208V</td> <td>5K 5000K nominal 67 CRI</td> <td>4 Type IV</td> <td>WH White Textured</td> <td>PS Platinum Silver Smooth</td> <td colspan="6"></td> </tr> <tr> <td>12L<sup>6</sup> 12 LEDs</td> <td>3 240V</td> <td>AM Amber (590 µm available for "Turtle Friendly"/observatory applications, 350 mA (18L only versions)</td> <td></td> <td>GYS Light Gray Smooth</td> <td>SCP<sup>4,5,6</sup> Programmable motion sensor, factory default dimming is 10% light output</td> <td colspan="6"></td> </tr> <tr> <td>18L 18 LEDs</td> <td>4 277V</td> <td></td> <td></td> <td></td> <td></td> <td colspan="6"></td> </tr> <tr> <td>12L5 12 LEDs, 480V</td> <td>5 480V (12L only)</td> <td></td> <td></td> <td></td> <td></td> <td colspan="6"></td> </tr> <tr> <td>12LF 12 LEDs, 347V</td> <td>F 347V (12L only)</td> <td></td> <td></td> <td></td> <td></td> <td colspan="6"></td> </tr> </table> <p><b>SPECIFY SCP HEIGHT</b></p> <p>8F Up to 8ft mount height</p> <p>20F Up to 20ft mount height</p> <p><sup>1</sup> Battery backup only available on 12L models, not available for Canada</p> <p><sup>2</sup> Does not qualify for DLC.</p> <p><sup>3</sup> Replace U with 1 for 120V or 4 for 277V for 12L with BBU</p> <p><sup>4</sup> Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120V or 277V only</p> <p><sup>5</sup> SCP option not applicable, included in sensor</p> <p><sup>6</sup> BBU and motion sensor options cannot be combined</p>				<b>LNC2</b>	-	[ ]	-	[ ]	-	[ ]	-	[ ]	-	[ ]	<b>NUMBER OF LEDS</b>	<b>VOLTAGE<sup>7</sup></b>	<b>CCT</b>	<b>IES DISTRIBUTION</b>	<b>FINISH</b>	<b>OPTIONS</b>							LNC2 5L 5 LEDs	U 120V-277V	3K <sup>2</sup> 3000K nominal 80 CRI	2 <sup>3</sup> Type II	DB Dark Bronze Textured	BBU <sup>4,5</sup> Integral battery for 12L only (must specify 120V or 277V voltage in voltage category) rated for -20°C to 30°C							7L 7 LEDs	1 120V	4K 4000K nominal 70 CRI	3 Type III	BL Black Textured	GR Gray Textured							9L 9 LEDs	2 208V	5K 5000K nominal 67 CRI	4 Type IV	WH White Textured	PS Platinum Silver Smooth							12L <sup>6</sup> 12 LEDs	3 240V	AM Amber (590 µm available for "Turtle Friendly"/observatory applications, 350 mA (18L only versions)		GYS Light Gray Smooth	SCP <sup>4,5,6</sup> Programmable motion sensor, factory default dimming is 10% light output							18L 18 LEDs	4 277V											12L5 12 LEDs, 480V	5 480V (12L only)											12LF 12 LEDs, 347V	F 347V (12L only)																																																																																																																							
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Dark Bronze - DB</td> </tr> <tr> <td>LNC2-SCBB-XX<sup>9</sup></td> <td>Plate to be used with GEO-BB-XX surface conduit box, XX=finish (see page 3)</td> </tr> </tbody> </table> <p><sup>7</sup>*Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120V or 277V only</p> <p><sup>8</sup>*Not compatible with BBU and SCP options</p> <p><b>PHOTOMETRICS</b></p> <p>Without acrylic diffuser LNC2-12LU-5K-3-IES</p>  <p>Without acrylic diffuser LNC2-18LU-5K-3-IES</p>  <p><b>PERFORMANCE DATA</b></p> <table border="1"> <thead> <tr> <th rowspan="2"># OF LEDS</th> <th rowspan="2">DRIVE CURRENT</th> <th rowspan="2">SYSTEM WATTS</th> <th rowspan="2">DIST. TYPE</th> <th colspan="2">5K (5000K nominal, 70 CRI)</th> <th colspan="2">4K (4000K nominal, 70 CRI)</th> <th colspan="2">3K (3000K nominal, 80 CRI)</th> </tr> <tr> <th>LUMENS</th> <th>LPW<sup>10</sup></th> <th>LUMENS</th> <th>LPW<sup>10</sup></th> <th>LUMENS</th> <th>LPW<sup>10</sup></th> </tr> </thead> <tbody> <tr> <td rowspan="3">5</td> <td rowspan="3">STD. (700mA)</td> <td rowspan="3">13W</td> <td>2</td> <td>1,150</td> <td>88.5</td> <td>1,052</td> <td>81</td> <td>883</td> <td>68</td> </tr> <tr> <td>3</td> <td>1,132</td> <td>87</td> <td>1,077</td> <td>83</td> <td>833</td> <td>64</td> </tr> <tr> <td>4</td> <td>1,146</td> <td>88</td> <td>1,053</td> <td>81</td> <td>849</td> <td>65</td> </tr> <tr> <td rowspan="3">7</td> <td rowspan="3">STD. (700mA)</td> <td rowspan="3">17W</td> <td>2</td> <td>1,515</td> <td>89</td> <td>1,369</td> <td>80.5</td> <td>1,272</td> <td>75</td> </tr> <tr> <td>3</td> <td>1,500</td> <td>88</td> <td>1,539</td> <td>90.5</td> <td>1,392</td> <td>82</td> </tr> <tr> <td>4</td> <td>1,557</td> <td>91.5</td> <td>1,535</td> <td>90</td> <td>1,425</td> <td>84</td> </tr> <tr> <td rowspan="3">9</td> <td rowspan="3">STD. (700mA)</td> <td rowspan="3">22W</td> <td>2</td> <td>2,069</td> <td>94</td> <td>2,033</td> <td>92</td> <td>1,588</td> <td>72</td> </tr> <tr> <td>3</td> <td>2,024</td> <td>92</td> <td>1,989</td> <td>90</td> <td>1,623</td> <td>74</td> </tr> <tr> <td>4</td> <td>2,095</td> <td>95</td> <td>2,059</td> <td>93.5</td> <td>1,680</td> <td>76</td> </tr> <tr> <td rowspan="3">12</td> <td rowspan="3">STD. (700mA)</td> <td rowspan="3">28W</td> <td>2</td> <td>2,869</td> <td>102.5</td> <td>2,465</td> <td>88</td> <td>2,047</td> <td>73</td> </tr> <tr> <td>3</td> <td>2,868</td> <td>102.5</td> <td>2,662</td> <td>95</td> <td>2,160</td> <td>77</td> </tr> <tr> <td>4</td> <td>2,716</td> <td>97</td> <td>2,715</td> <td>97</td> <td>2,104</td> <td>75</td> </tr> <tr> <td rowspan="3">18</td> <td rowspan="3">STD. (700mA)</td> <td rowspan="3">42.7W</td> <td>2</td> <td>4,166</td> <td>97.5</td> <td>3,631</td> <td>85</td> <td>3,304</td> <td>77</td> </tr> <tr> <td>3</td> <td>4,106</td> <td>96</td> <td>3,806</td> <td>89</td> <td>3,128</td> <td>73</td> </tr> <tr> <td>4</td> <td>3,995</td> <td>93.5</td> <td>3,998</td> <td>93.5</td> <td>3,122</td> <td>73</td> </tr> </tbody> </table> <p><sup>10</sup>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-user environment and application. LNC2-12L battery mode produces 1,546 initial lumens. Meets UL924 90 minute discharge pattern.</p> <p><b>PROJECTED LUMEN MAINTENANCE</b></p> <table border="1"> <thead> <tr> <th rowspan="2">Ambient Temp.</th> <th colspan="4">OPERATING HOURS</th> </tr> <tr> <th>0</th> <th>25,000</th> <th>50,000</th> <th>L96 60,000</th> <th>L70 (hours)</th> </tr> </thead> <tbody> <tr> <td>25°C / 77°F</td> <td>1.00</td> <td>0.98</td> <td>0.97</td> <td>0.96</td> <td>&gt;791,000</td> </tr> <tr> <td>40°C / 104°F</td> <td>0.99</td> <td>0.98</td> <td>0.96</td> <td>0.94</td> <td>&gt;635,000</td> </tr> </tbody> </table> <p><sup>11</sup> Projected per IESNA TM-21-11 (Nichia 218B, 700mA, 65°C Ts, 10,000hrs) Data references the extrapolated performance projections for the LNC2-12LU-5K base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.</p> <p><b>LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)</b></p> <table border="1"> <thead> <tr> <th>AMBIENT TEMPERATURE</th> <th>LUMEN MULTIPLIER</th> </tr> </thead> <tbody> <tr> <td>0° C / 32° F</td> <td>1.02</td> </tr> <tr> <td>10° C / 50° F</td> <td>1.01</td> </tr> <tr> <td>20° C / 68° F</td> <td>1.00</td> </tr> <tr> <td>25° C / 77° F</td> <td>1.00</td> </tr> <tr> <td>30° C / 86° F</td> <td>1.00</td> </tr> <tr> <td>40° C / 104° F</td> <td>0.99</td> </tr> </tbody> </table> <p>Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).</p> <p><b>ELECTRICAL DATA</b></p> <table border="1"> <thead> <tr> <th rowspan="2"># OF LEDS</th> <th rowspan="2">DRIVE CURRENT (mA)</th> <th rowspan="2">INPUT VOLTAGE (V)</th> <th rowspan="2">CURRENT (Amps)</th> <th rowspan="2">SYSTEM POWER (W)</th> </tr> <tr> <th>7</th> <th>9</th> <th>12</th> <th>18</th> </tr> </thead> <tbody> <tr> <td rowspan="6">STD. 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Order at least one per project to program and control fixtures	BB-GEO-XX <sup>8</sup>	Back box with 4 - 1/2" threaded conduit holes, XX = specify finish, eg. Dark Bronze - DB	LNC2-SCBB-XX <sup>9</sup>	Plate to be used with GEO-BB-XX surface conduit box, XX=finish (see page 3)	# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	DIST. TYPE	5K (5000K nominal, 70 CRI)		4K (4000K nominal, 70 CRI)		3K (3000K nominal, 80 CRI)		LUMENS	LPW <sup>10</sup>	LUMENS	LPW <sup>10</sup>	LUMENS	LPW <sup>10</sup>	5	STD. (700mA)	13W	2	1,150	88.5	1,052	81	883	68	3	1,132	87	1,077	83	833	64	4	1,146	88	1,053	81	849	65	7	STD. (700mA)	17W	2	1,515	89	1,369	80.5	1,272	75	3	1,500	88	1,539	90.5	1,392	82	4	1,557	91.5	1,535	90	1,425	84	9	STD. (700mA)	22W	2	2,069	94	2,033	92	1,588	72	3	2,024	92	1,989	90	1,623	74	4	2,095	95	2,059	93.5	1,680	76	12	STD. (700mA)	28W	2	2,869	102.5	2,465	88	2,047	73	3	2,868	102.5	2,662	95	2,160	77	4	2,716	97	2,715	97	2,104	75	18	STD. (700mA)	42.7W	2	4,166	97.5	3,631	85	3,304	77	3	4,106	96	3,806	89	3,128	73	4	3,995	93.5	3,998	93.5	3,122	73	Ambient Temp.	OPERATING HOURS				0	25,000	50,000	L96 60,000	L70 (hours)	25°C / 77°F	1.00	0.98	0.97	0.96	>791,000	40°C / 104°F	0.99	0.98	0.96	0.94	>635,000	AMBIENT TEMPERATURE	LUMEN MULTIPLIER	0° C / 32° F	1.02	10° C / 50° F	1.01	20° C / 68° F	1.00	25° C / 77° F	1.00	30° C / 86° F	1.00	40° C / 104° F	0.99	# OF LEDS	DRIVE CURRENT (mA)	INPUT VOLTAGE (V)	CURRENT (Amps)	SYSTEM POWER (W)	7	9	12	18	STD. (700mA)	120	120	—	18	277	—	18		120	0.183	22		277	0.09	22.1		120	0.24	28.9		277	0.10	33.7	
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TYPE: SA, SB, SC

**NOTE: LIGHT FIXTURES WILL HAVE DARK BRONZE FINISH**

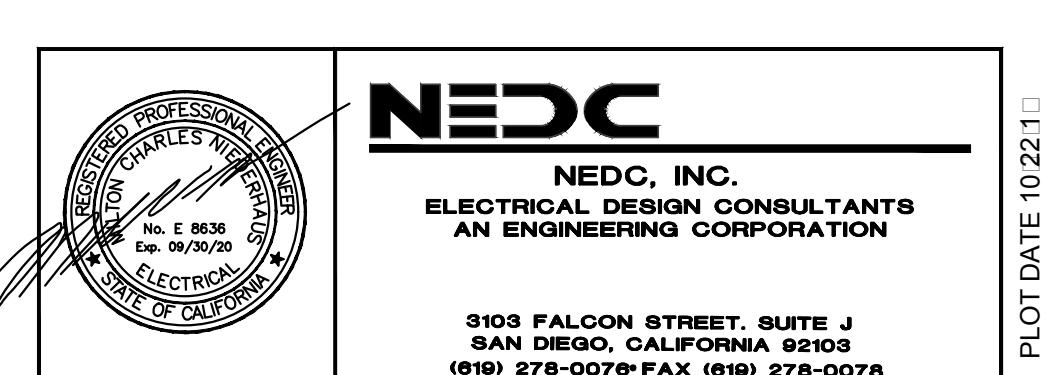
TYPE: SD

**NOTE: LIGHT FIXTURES WILL HAVE DARK BRONZE FINISH**



# ELECTRICAL LIGHTING CUT SHEETS

0.22.18



# SHEET 25

## E2.0

**SHEET 25**  
**E2.0**

**KSP**

T U D I O

chitecture + engineering

ORCHARD ROAD □ SUITE 200  
KE □ OREST □ CA □ 2630  
4 □ 3 □ 0.3 □ 70 □ 4 □ 3 □ 0.3771

20565 VALLEY GREEN DRIVE | CUPERTINO, CA 10.

0.22.18

KSP PROJECT NO. 20367