



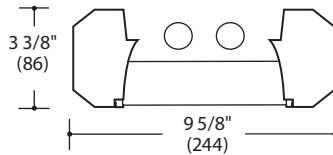
Type:
Project:

LC-90™


P-ID-9000

Pendant-Mounted Indirect/Direct

Specifications





HOUSING. Die-formed and welded steel. Internal end headers have clearance holes for easy row mounting.
END CAPS. Steel, 14-gauge, with no holes or knockouts, finished to match housing. Four fasteners on each end cap allow tight attachment to ends of individual fixtures and ends of rows.
UPPER SIDE REFLECTORS. Die-formed specular anodized aluminum reflector sheet.
PARABOLIC BAFFLE. Die-formed .020" thick specular low-glare aluminum. Snap-in baffle is secured in open or closed position by four spring-wire clips. Baffle shall meet at fixture joints to exhibit continuous baffle appearance with no breaks in cell spacing. For other baffle choices, see "Diffusers (and alternate uplight distribution options)".
LAMPING. Available in two- and three-lamp T8 cross-sections.
BALLAST. Electronic Ballast (ELB), high power factor, thermally protected Class P, Sound Rated A, less than 10% THD, manufactured by a UL Listed manufacturer, as available, determined by Litecontrol. Ballasts with a voltage range of 120 to 277 will be used when fixture configuration and ballast availability allow. The minimum number of ballasts will be used.

TANDEM WIRING. When selected from Ordering guide below, fixtures wired to switch in-line lamps separately, providing two or three (three-lamp cross-section fixtures only) levels of light.
PRE-WIRING. Fixtures are supplied with #12 AWG type THHN wire for branch circuits. One end will have factory installed push-in quick-connects. The other end will be stripped back 1/2" for quick connection in field. For fixtures to accommodate special circuits such as night light and emergency, etc., in-field wiring will be required. See Pre-Wiring Information for details.
ROW JOINING. Litecontrol's at-joint flat strap supporting two fixtures allows one-person, one-hand-free fixture joining and installation. Support points are centered above the midpoint of joint "on seam" for aligned, symmetrical appearance. Fixture end headers are threaded in two locations to allow easy row joining without removing reflectors.
SYSTEM CONNECTORS. Corners, tees, and crosses available. Sides are die-formed and welded steel with a filler plate across the bottom of the connector. Bottom and sides to be smooth with no exposed fasteners or knockouts. Each system connector shall have a rigid cross-member with a .687" diameter stem hole at center to accept any of Litecontrol's pendant assemblies.
SUSPENSION. Aircraft cable or rigid stem pendants attach to fixture using Litecontrol's easy-hang system, with one attachment plate for use at any support point. FAI/ACC field adjustable 51" is standard. See Aircraft Cables and Stems for details.
CERTIFICATION. Fixture and electrical components shall be UL and/or CUL Listed and shall bear the I.B.E.W., A.F. of L. label. 

Note: Litecontrol reserves the right to change specifications without notice for product development and improvement.

Ordering guide

Product, Lamping, & Length						Options						
P -	ID -	90	4	8	T8 -	PARSS -	CWM -	TW -	ELB -	2CWQ -	EF -	120
Mounting	Distribution	Series	Lamp Count	Nominal Length(ft)	Lamp Type	Diffuser	Finish	Tandem Wiring	Ballast	Pre-Wiring	Other options	Volts
P Pendant-Mounted	ID Indirect/ Direct	90	2, 3 → 4, 6 →	4 8	T8	PARSS PARSS30 PARSS75 PARSS3075	CWM (Textured Matte White) is standard see LiteColors™ in Product Guide for other finishes	-- → TW →	ELB is standard DA/ELB HEL/ELB ECO/ELB see Ballast Options	1CWQ 2CWQ	EF F CV PFCV see Other options and Alt downlight dist options	120 277
Mounting Options - add to end of order number Aircraft Cables <input type="checkbox"/> FAI/ACC (field adjustable) standard <input type="checkbox"/> ACC (fixed) Stems <input type="checkbox"/> P6S (stem) <input type="checkbox"/> SC/P6 (sloped ceiling) <input type="checkbox"/> EQ/P6 (earthquake)						notes: Lamp Count = total number of lamps in the fixture For Ordering guide information in shaded areas, choose selection by reading ACROSS the shaded areas for correct specifications.						
Cross-section lamping  2-T8  3-T8						P-ID-9048T8-PARSS-CWM-TW-ELB-2CWQ-EF-120-FAI/ACC is a typical catalog number for a 4-lamp (2 lamps in cross-section), 8-foot long T8 fixture with parabolic baffle, Matte White finish, tandem-wired electronic ballast, pre-wired with two-circuit branch wiring and quick-connects, emergency fluorescent ballast, 120 volts, mounted with field adjustable aircraft cables.						

Questions to Ask

1. 120 or 277 volt?
2. Row information? Desired fixture length?
3. Diffuser type?
4. White, LiteColor, or special color?
5. Tandem wiring?
6. Cables or stems, what length?
7. Other options?

Diffusers (and alternate uplight distribution options)

- PARSS** 23° lengthwise and crosswise shielding. Cross blades incorporate vertical "grain" and are 1 9/16" deep by 4 1/4" OC. Twelve cells per 4' 3" fixture.
- PARSS30** 30° lengthwise and 23° crosswise parabolic baffle. For increased lengthwise shielding with closer baffle spacing. Cross-blades incorporate vertical "grain" and are 1 9/16" deep by 3" OC. Seventeen cells per 4' 3" fixture.
- PARSS75** 75/25 Uplight Reflector for PARSS baffle. Linear reflectors provide 75% indirect, 25% direct distribution.
- PARSS3075** 75/25 Uplight Reflector for PARSS30 baffle. Linear reflectors provide 75% indirect, 25% direct distribution.

Uplight Reflectors are designed for those jobs where more indirect light and greater shielding is desired. The Uplight Reflector option is available as an accessory to either the standard 23° parabolic baffle (**PARSS**) or the 30° parabolic baffle (**PARSS30**) for both two- and three-lamp fixtures. Specify in the catalog number, in place of **PARSS**, either **PARSS75** or **PARSS3075**, where the "75" refers to the resulting 75% uplight.

Ballast options

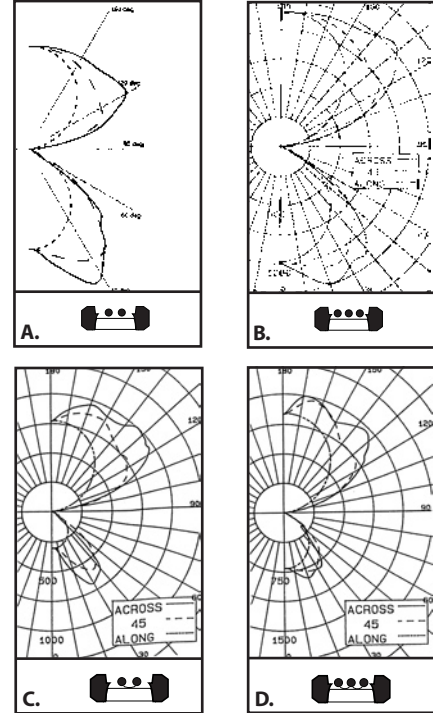
Specify in place of **ELB**, contact factory for availability:

- DA/ELB** Advance Mark VII Dimming Ballast.
HEL/ELB Osram Sylvania Dimming Ballast.
ECO/ELB Lutron ECO-10 Dimming Ballast.

Other options

- EF** Emergency Fluorescent Ballast. Battery-powered ballast from a UL Listed manufacturer will operate one T8 lamp for 1 1/2 hours.
- F** Fuse. Slow or fast blow, determined by Litecontrol.

Photometric data



A. P-ID-9024T8-PARSS 90.6% Efficiency
ITL Certified Test Report # ITL36360

B. P-ID-9034T8-PARSS 84.1% Efficiency
Litecontrol Certified Test Report #13031361

C. P-ID9024T8 - PARSS75 80.6 % Efficiency
Litecontrol Certified Test Report #24521990

D. P-ID9034T8 - PARSS75 78.3 % Efficiency
Litecontrol Certified Test Report #24531990

For complete photometric information, see website.

Alternate downlight distribution options

The indirect/direct distribution of the standard fixture is approximately 60% / 40%. The following options modify that ratio or provide alternate diffuser (baffle) choices as indicated. See the photometric data and the detailed descriptions below for further information.

- CV** Cover. Solid cover over lamps to provide 100% direct distribution, finished in high-reflectance Matte White. Can be added or removed in field.
- PFCV** 35/65 Perforated Cover. Provides 35% indirect, 65% direct distribution, finished in high-reflectance Matte White. Can be added or removed in field.

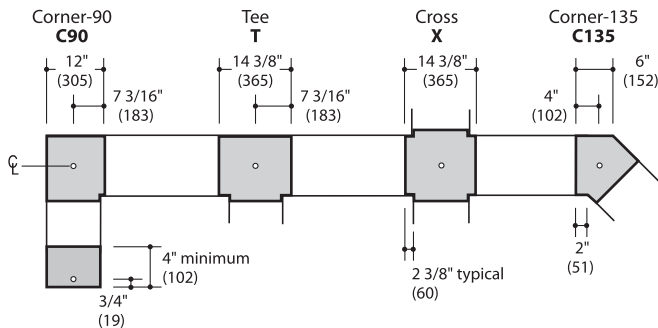
Downlight Reflectors offer a greater percentage of direct distribution, and in the case of the Full Downlight Cover (**CV**), the fixture becomes a 100% direct fixture. For applications where some indirect light is preferred, but more direct light than with the standard distribution, the 35/65 Downlight Perforated Cover (**PFCV**) is available. To specify either of these options, just add the designation with the catalog number. While they can be used with either two or three lamps and either the **PARSS** or **PARSS30** diffusers, they would not be used in the same fixture with Uplight Reflectors.

System connectors

Catalog Number

Series	Connector	Finish
P-ID-9000	C90	
P-ID-9000	C135	
P-ID-9000	T	
P-ID-9000	X	
P-ID-9000	SE (length)	

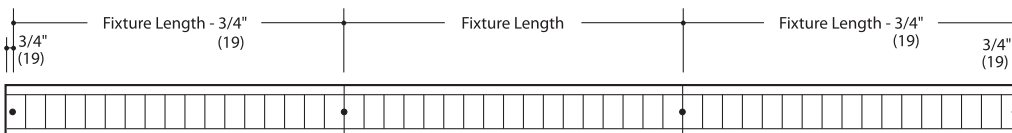
P-ID-9000-C90-CWM is a typical catalog number for a 90° corner connector finished Matte White.



Straight Extension
SE (Length in inches)

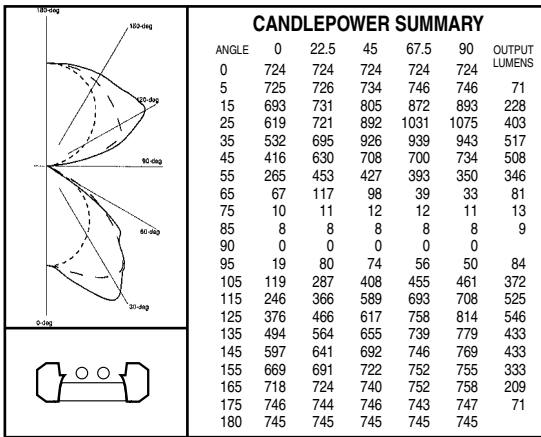
Planning for installation

Row diagram



Fixture Lengths: 4'-3", 8'-6"
• Indicates pendant locations

PHOTOMETRIC DATA: PARSS



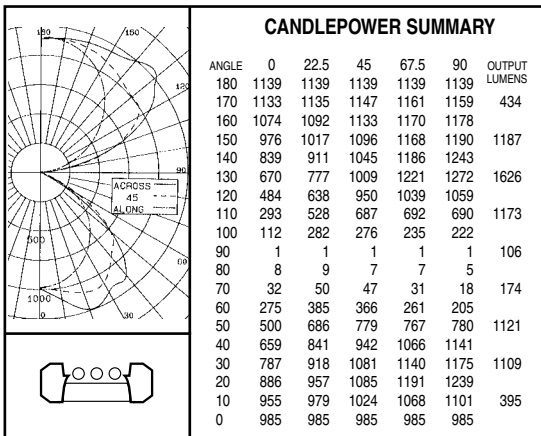
RCC	80			70			50			30			10			0		
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10			
0	95	95	95	95	87	87	87	87	71	71	71	57	57	57	44	44	44	38
1	88	84	81	78	80	77	75	72	64	62	60	51	50	49	40	39	39	34
2	81	75	70	66	74	69	65	61	57	54	52	47	45	43	37	35	34	30
3	74	67	61	56	68	61	56	52	51	48	45	42	39	37	33	32	30	27
4	68	59	53	48	62	55	49	45	46	42	39	38	35	33	30	28	27	23
5	63	53	46	41	57	49	43	38	41	37	33	34	31	28	27	25	23	20
6	58	47	40	36	53	44	38	33	37	32	29	31	27	25	25	22	20	18
7	53	42	36	31	48	39	33	29	33	29	25	27	24	22	22	20	18	15
8	49	38	31	27	45	35	29	25	30	25	22	25	21	19	20	17	15	13
9	45	34	28	23	41	32	26	22	27	22	19	22	19	16	18	15	13	11
10	42	31	25	20	38	29	23	19	24	20	17	20	17	14	16	14	12	10

Floor Cavity Reflectance 20

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3076	53	58.6
90-0°	2176	37.5	41.4
180-0°	5253	90.6	100

ANGLE	0°	45°	90°
45°	912	1551	1610
55°	717	1155	947
65°	247	359	119
75°	62	71	66
85°	145	145	145

UPLIGHT 59%
DOWNLIGHT 41%



RCC	80			70			50			30			10			0		
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10			
0	.88	.88	.88	.88	.80	.80	.80	.80	.65	.65	.65	.51	.51	.51	.38	.38	.38	.32
1	.81	.78	.75	.72	.73	.71	.68	.66	.58	.56	.55	.46	.45	.44	.35	.34	.34	.29
2	.74	.69	.64	.60	.67	.63	.59	.55	.52	.49	.47	.41	.40	.38	.32	.31	.30	.26
3	.68	.61	.56	.51	.62	.56	.51	.47	.46	.43	.40	.37	.35	.33	.29	.27	.26	.23
4	.63	.54	.48	.44	.57	.50	.45	.40	.41	.37	.35	.33	.31	.29	.26	.24	.23	.20
5	.57	.48	.42	.37	.52	.44	.39	.35	.37	.33	.30	.30	.27	.25	.23	.22	.20	.17
6	.53	.43	.37	.32	.48	.40	.34	.30	.33	.29	.26	.27	.24	.22	.21	.19	.17	.15
7	.48	.39	.32	.28	.44	.36	.30	.26	.30	.25	.22	.24	.21	.19	.19	.17	.15	.13
8	.45	.35	.28	.24	.41	.32	.26	.22	.27	.22	.19	.22	.19	.16	.17	.15	.13	.11
9	.41	.31	.25	.21	.37	.29	.23	.19	.24	.20	.17	.19	.16	.14	.15	.13	.11	.10
10	.38	.28	.22	.18	.35	.26	.21	.17	.22	.18	.15	.18	.14	.12	.14	.12	.10	.08

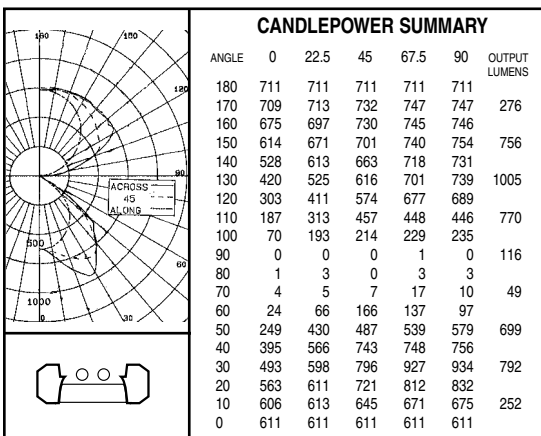
Floor Cavity Reflectance 20

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	4516	51.92	61.75
90-0°	2797	32.16	38.25
180-0°	7314	84.08	100

ANGLE	0°	45°	90°
45°	1283	1926	2194
55°	1089	1614	1362
65°	455	604	188
75°	90	90	60
85°	53	54	36

UPLIGHT 62%
DOWNLIGHT 38%

PHOTOMETRIC DATA: PARSS30



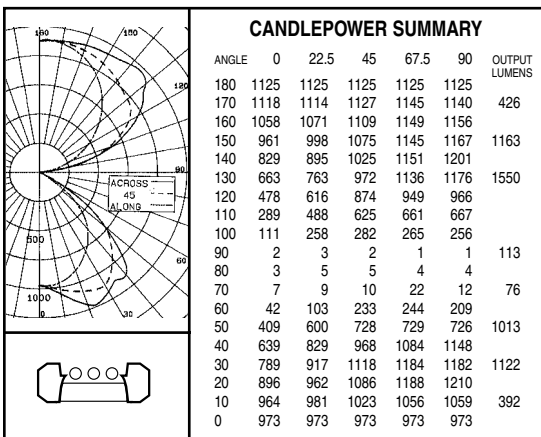
RCC	80			70			50			30			10			0		
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10			
0	.85	.85	.85	.85	.77	.77	.77	.77	.62	.62	.62	.49	.49	.49	.37	.37	.37	.31
1	.78	.75	.72	.70	.71	.68	.66	.64	.56	.54	.53	.44	.43	.43	.34	.3	.33	.28
2	.72	.67	.62	.59	.65	.61	.57	.54	.50	.48	.45	.40	.39	.37	.31	.30	.29	.25
3	.66	.59	.54	.50	.60	.54	.50	.46	.45	.42	.39	.36	.34	.32	.28	.27	.26	.22
4	.61	.53	.47	.43	.55	.49	.44	.40	.40	.37	.34	.33	.30	.28	.26	.24	.23	.20
5	.56	.47	.41	.37	.51	.43	.38	.34	.36	.32	.29	.29	.27	.25	.23	.21	.20	.17
6	.51	.42	.36	.32	.47	.39	.34	.30	.33	.29	.26	.27	.24	.22	.21	.19	.18	.15
7	.47	.38	.32	.28	.43	.35	.30	.26	.29	.25	.22	.24	.21	.19	.19	.17	.15	.13
8	.43	.34	.28	.24	.40	.31	.26	.22	.26	.22	.19	.22	.18	.16	.17	.15	.13	.11
9	.40	.30	.25	.21	.36	.28	.23	.19	.23	.19	.17	.19	.16	.14	.15	.13	.11	.10
10	.37	.28	.22	.18	.34	.25	.20	.17	.21	.17	.15	.17	.14	.12	.14	.12	.10	.08

Floor Cavity Reflectance 20

ZONE	LUMENS	% LAMP	% LUMI
180-90°	2917	50.3	61.99
90-0°	1789	30.85	38.00
180-0°	4706	81.15	100


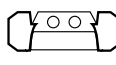
ANGLE	0°	45°	90°
45°	728	1360	1417
55°	324	890	893
65°	18	129	166
75°	12	30	30
85°	18	0	18

UPLIGHT 62%
DOWNLIGHT 38%



FULL DOWNLIGHT

CANDLEPOWER SUMMARY										
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS				
90	0	0	0	0	0	0				2
85	1	0	0	0	0	2				
80	3	3	1	3	4	4				
75	4	5	4	6	6	6				11
70	14	26	41	22	12	12				
65	120	165	166	108	77	160				
60	304	402	411	297	257	257				
55	532	658	667	591	545	546				
50	715	858	882	893	885	885				
45	863	1012	1063	1126	1135	802				
40	989	1129	1234	1243	1272	1272				
35	1099	1212	1354	1389	1372	811				
30	1189	1272	1424	1498	1493	1493				
25	1264	1320	1451	1538	1542	658				
20	1325	1357	1449	1530	1540	1540				
15	1375	1390	1438	1488	1496	408				
10	1406	1408	1425	1446	1444	1444				
5	1422	1415	1417	1424	1417	136				
0	1415	1415	1415	1415	1415	1415				

P-ID-9024T8 - PARSS-CV 60.8% Efficiency																		
Litecontrol Certified Test Report #24021360																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	0	.72	.72	.72	.72	.71	.71	.71	.68	.68	.68	.65	.65	.65	.62	.62	.62	.61
1	.68	.66	.64	.62	.67	.65	.63	.61	.62	.61	.59	.60	.59	.58	.58	.57	.56	.55
2	.64	.60	.57	.54	.62	.59	.56	.54	.57	.54	.52	.55	.53	.51	.53	.52	.50	.49
3	.59	.54	.50	.47	.58	.53	.50	.47	.52	.49	.46	.50	.47	.45	.49	.46	.45	.43
4	.55	.49	.44	.41	.54	.48	.44	.41	.47	.43	.40	.45	.42	.40	.44	.42	.39	.38
5	.51	.44	.39	.36	.49	.43	.39	.36	.42	.38	.35	.41	.37	.35	.40	.37	.35	.33
6	.47	.40	.35	.31	.46	.39	.34	.31	.38	.34	.31	.37	.33	.31	.36	.33	.30	.29
7	.43	.36	.31	.28	.42	.35	.31	.27	.34	.30	.27	.33	.30	.27	.33	.29	.27	.26
8	.40	.32	.27	.24	.39	.31	.27	.24	.31	.27	.24	.30	.26	.23	.29	.26	.23	.22
9	.36	.29	.24	.21	.35	.28	.24	.21	.27	.23	.20	.27	.23	.20	.26	.23	.20	.19
10	.34	.26	.21	.18	.33	.26	.21	.18	.25	.21	.18	.24	.21	.18	.24	.20	.18	.17

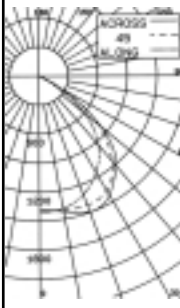
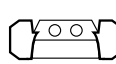
Floor Cavity Reflectance 20

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	.00	.00
90-0°	3528	60.84	100
180-0°	3528	60.84	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1883	2327	2485
55°	1431	1800	1473
65°	438	610	282
75°	22	26	34
85°	11	7	33

UPLIGHT 0%
DOWNLIGHT 100%

CANDLEPOWER SUMMARY										
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS				
90	0	0	0	0	0	0				2
85	0	0	1	1	0	2				
80	3	2	3	3	2	2				
75	4	5	7	8	6	8				8
70	9	10	11	28	15	15				
65	15	17	70	100	73	84				
60	68	136	269	261	237	237				
55	319	442	534	524	500	429				
50	586	714	782	809	816	816				
45	782	911	983	1045	1061	737				
40	929	1055	1156	1202	1221	1221				
35	1055	1159	1285	1328	1320	775				
30	1154	1232	1368	1439	1426	1426				
25	1236	1288	1410	1490	1486	639				
20	1302	1335	1420	1493	1496	1496				
15	1356	1369	1418	1463	1464	401				
10	1392	1392	1410	1429	1423	1423				
5	1405	1398	1399	1406	1396	1396				134
0	1397	1397	1397	1397	1397	1397				

P-ID9024T8 - PARSS30-CV 55.3% Efficiency																		
Litecontrol Certified Test Report #24021990																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	0	.66	.66	.66	.66	.64	.64	.64	.61	.61	.61	.59	.59	.59	.56	.56	.56	.55
1	.62	.60	.58	.57	.61	.59	.57	.56	.57	.55	.54	.55	.54	.53	.53	.52	.51	.50
2	.58	.55	.52	.50	.57	.54	.51	.49	.52	.50	.48	.50	.49	.47	.49	.47	.46	.45
3	.54	.50	.46	.44	.53	.49	.46	.43	.47	.45	.43	.46	.44	.42	.45	.43	.41	.40
4	.50	.45	.41	.38	.49	.44	.41	.38	.43	.40	.38	.42	.39	.37	.41	.39	.37	.36
5	.47	.41	.37	.34	.45	.40	.36	.34	.39	.36	.33	.38	.35	.33	.37	.35	.33	.32
6	.43	.37	.33	.30	.42	.36	.32	.30	.36	.32	.29	.35	.32	.29	.34	.31	.29	.28
7	.40	.33	.29	.26	.39	.33	.29	.26	.32	.28	.26	.31	.28	.26	.31	.28	.26	.25
8	.37	.30	.26	.23	.36	.30	.26	.23	.29	.25	.23	.28	.25	.22	.28	.25	.22	.21
9	.34	.27	.23	.20	.33	.27	.23	.20	.26	.22	.20	.25	.22	.20	.25	.22	.19	.18
10	.31	.24	.20	.17	.31	.24	.20	.17	.24	.20	.17	.23	.20	.17	.23	.19	.17	.16

Floor Cavity Reflectance 20

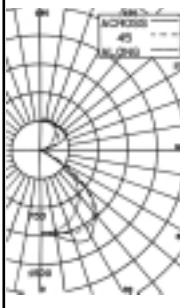
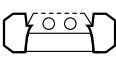
ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	0	.00	.00
90-0°	3204	55.26	100
180-0°	3204	55.26	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1706	2152	2323
55°	857	1441	1351
65°	55	257	269
75°	26	40	34
85°	0	15	2

UPLIGHT 0%
DOWNLIGHT 100%

35/65 DOWNLIGHT: PARSS

CANDLEPOWER SUMMARY										
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS				
180	388	388	388	388	388	388				152
170	397	398	400	405	402	402				
160	380	387	401	412	406	406				
150	342	358	372	386	387	402				
140	292	316	328	374	392	392				
130	231	254	298	364	400	512				
120	169	188	264	356	387	387				
110	103	132	204	241	259	371				
100	40	60	74	84	90	90				
90	0	0	1	1	1	35				
80	2	2	3	4	3	3				
70	9	18	24	18	11	122				
60	227	327	323	189	137	137				
50	551	712	756	748	740	1113				
40	762	909	1056	1093	1128	1128				
30	910	1008	1180	1302	1304	1215				
20	1012	1051	1157	1253	1276	1276				
10	1075	1076	1098	1133	1140	425				
0	1085	1085	1085	1085	1085	1085				

P-ID-9024T8 - PARSS-PFCV 74.8% Efficiency																		
Litecontrol Certified Test Report #24421360																		
RCC	80			70			50			30			10			0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	0	.83	.83	.83	.83	.78	.78	.78	.69	.69	.69	.61	.61	.61	.53	.53	.53	.50
1	.77	.75	.72	.70	.73	.71	.68	.66	.63	.61	.60	.56	.55	.54	.49	.48	.48	.45
2	.72	.67	.63	.60	.68	.63	.60	.57	.57	.54	.52	.51	.49	.47	.45	.44	.43	.40
3	.66	.60	.55	.51	.62	.57	.53	.49	.51	.48	.45	.46	.44	.42	.41	.39	.38	.35
4	.61	.54	.48	.44	.58	.51	.47	.43	.46	.43	.40	.42	.39	.36	.37	.35	.33	.31
5	.56	.48	.43	.38	.53	.46	.41	.37	.42	.37	.34	.38	.34	.32	.34	.31	.29	.27
6	.52	.43	.38	.34	.49	.41	.36	.32	.37	.33	.30	.34	.31	.28	.31	.28	.26	.24
7	.48	.39	.33	.29	.45	.37	.32	.28	.34	.29	.26	.31	.27	.24	.28	.25	.23	.21
8	.44	.35	.29	.25	.41	.33	.28	.24	.30	.26	.23	.27	.24	.21	.25	.22	.20	.18
9	.40	.31	.26	.22	.38	.30	.25	.21	.27	.23	.20	.25	.21	.18	.22	.19	.17	.15
10	.37	.28	.23	.19	.35	.27	.22	.18	.25	.20	.17	.22	.19	.16	.20	.17	.15	.14

Floor Cavity Reflectance 20

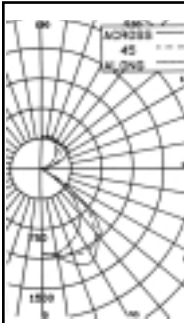
ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	1465	25.27	33.78
90-0°	2873	49.54	66.22
180-0°	4339	74.81	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	1460	1994	2135
55°	1103	1498	1123
65°	308	431	155
75°	24	36	36
85°	18	36	36

UPLIGHT 34%
DOWNLIGHT 66%

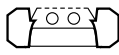
CANDLEPOWER SUMMARY										
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS				
180	644	644	644	644						

35/65 DOWNLIGHT: PARSS30



CANDLEPOWER SUMMARY

ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	392	392	392	392	392	
170	402	402	407	411	410	155
160	385	394	409	418	411	
150	346	366	380	390	392	409
140	297	324	335	378	398	
130	236	262	306	371	408	523
120	171	192	273	358	390	
110	105	134	206	240	257	373
100	41	60	73	84	90	
90	0	0	2	2	2	35
80	2	2	3	3	4	
70	5	6	7	17	11	57
60	36	78	197	174	130	
50	429	594	675	730	753	986
40	726	875	1035	1072	1113	
30	896	992	1175	1295	1303	1202
20	1003	1039	1146	1244	1269	
10	1069	1069	1089	1117	1126	420
0	1055	1055	1055	1055	1055	



P-ID-9024T8 - PARSS30-PFCV 71.6 % Efficiency
Litecontrol Certified Test Report #24421990

RCC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCC																					
RW																					
0	.79	.79	.79	.79	.74	.74	.74	.74	.65	.65	.65	.57	.57	.57	.49	.49	.49	.46			
1	.74	.71	.69	.67	.69	.67	.65	.63	.59	.58	.57	.52	.52	.51	.46	.45	.45	.42			
2	.68	.64	.60	.57	.64	.61	.57	.55	.54	.52	.50	.48	.46	.45	.43	.41	.40	.38			
3	.63	.58	.53	.50	.60	.55	.51	.48	.49	.46	.44	.44	.42	.40	.39	.37	.36	.34			
4	.59	.52	.47	.43	.55	.49	.45	.41	.44	.41	.38	.40	.37	.35	.36	.34	.32	.30			
5	.54	.46	.41	.37	.51	.44	.40	.36	.40	.36	.33	.36	.33	.31	.32	.30	.28	.26			
6	.50	.42	.37	.33	.47	.40	.35	.32	.36	.32	.29	.33	.30	.27	.29	.27	.25	.23			
7	.46	.38	.32	.29	.43	.36	.31	.28	.33	.29	.26	.29	.26	.24	.27	.24	.22	.20			
8	.42	.34	.29	.25	.40	.32	.27	.24	.29	.25	.22	.27	.23	.21	.24	.21	.19	.18			
9	.39	.30	.25	.21	.37	.29	.24	.21	.26	.22	.19	.24	.20	.18	.21	.19	.17	.15			
10	.36	.28	.22	.19	.34	.26	.22	.18	.24	.20	.17	.22	.18	.16	.20	.17	.15	.13			

Floor Cavity Reflectance 20

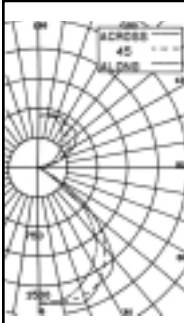
ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	1487	25.65	35.83
90-0°	2664	45.93	64.17
180-0°	4151	71.58	100

LUMINANCE SUMMARY (fL)

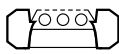
ANGLE	0°	45°	90°
45°	1324	1910	2194
55°	508	1218	1107
65°	33	136	133
75°	18	24	30
85°	0	36	36

UPLIGHT 36%
DOWNLIGHT 64%



CANDLEPOWER SUMMARY

ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	652	652	652	652	652	
170	666	665	669	677	677	255
160	642	651	677	699	695	
150	581	608	646	672	672	689
140	497	537	580	630	653	
130	397	440	505	608	635	847
120	285	324	428	505	521	
110	174	217	281	325	343	540
100	61	83	105	125	132	
90	0	0	2	3	3	50
80	3	3	3	6	5	
70	8	8	10	22	13	76
60	53	104	242	245	203	
50	659	782	874	852	872	1285
40	1125	1241	1318	1446	1469	
30	1407	1490	1601	1635	1643	1676
20	1587	1626	1714	1792	1796	
10	1699	1700	1722	1750	1753	653
0	1714	1714	1714	1714	1714	



P-ID-9034T8 - PARSS30-PFCV 69.7% Efficiency
Litecontrol Certified Test Report #24431990

RCC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCC																					
RW																					
0	.76	.76	.76	.76	.72	.72	.72	.72	.62	.62	.62	.54	.54	.54	.46	.46	.46	.42			
1	.71	.69	.67	.65	.67	.65	.63	.61	.57	.55	.54	.50	.49	.48	.43	.42	.42	.39			
2	.66	.62	.58	.55	.62	.58	.55	.52	.52	.49	.47	.45	.44	.42	.40	.39	.38	.35			
3	.61	.56	.51	.48	.57	.53	.49	.46	.47	.44	.42	.41	.39	.38	.37	.35	.34	.31			
4	.57	.50	.45	.42	.53	.47	.43	.40	.42	.39	.37	.38	.35	.33	.33	.32	.30	.28			
5	.52	.45	.40	.36	.49	.43	.38	.35	.38	.35	.32	.34	.31	.29	.30	.28	.27	.25			
6	.48	.41	.36	.32	.45	.39	.34	.31	.35	.31	.28	.31	.28	.26	.28	.26	.24	.22			
7	.45	.37	.32	.28	.42	.35	.30	.27	.31	.28	.25	.28	.25	.23	.25	.23	.21	.19			
8	.41	.33	.28	.24	.39	.31	.27	.24	.28	.25	.22	.26	.22	.20	.23	.20	.18	.17			
9	.38	.30	.25	.21	.36	.28	.24	.21	.26	.22	.19	.23	.20	.18	.21	.18	.16	.15			
10	.35	.27	.22	.19	.33	.26	.21	.18	.23	.19	.17	.21	.18	.16	.19	.16	.14	.13			

Floor Cavity Reflectance 20

ZONAL LUMEN SUMMARY

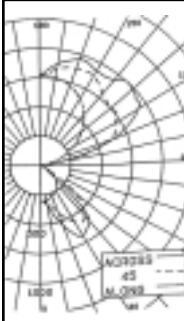
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	2374	27.29	39.16
90-0°	3688	42.39	60.84
180-0°	6062	69.68	100

LUMINANCE SUMMARY (fL)

ANGLE	0°	45°	90°
45°	2035	2502	2604
55°	784	1473	1492
65°	44	191	166
75°	18	30	42
85°	0	18	36

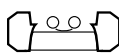
UPLIGHT 39%
DOWNLIGHT 61%

75/25 UPLIGHT: PARSS



CANDLEPOWER SUMMARY

ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	768	768	768	768	768	
170	762	793	834	870	880	318
160	721	805	878	940	961	
150	655	779	880	914	928	910
140	560	720	796	897	951	
130	443	622	755	935	986	1251
120	319	483	719	888	927	
110	191	403	591	625	624	971
100	72	243	223	178	161	
90	1	3	4	4	4	81
80	2	4	5	6	6	
70	4	8	14	13	10	47
60	65	156	54	43	39	
50	151	351	366	132	99	433
40	210	390	556	600	619	
30	250	359	552	682	692	538
20	279	314	427	519	542	
10	299	303	318	340	346	134
0	302	302	302	302	302	



P-ID9024T8 - PARSS75 80.6 % Efficiency
Litecontrol Certified Test Report #24521990

RCC	80				70				50				30				10				0
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCC																					
RW																					
0	.81	.81	.81	.81	.73	.73	.73	.73	.56	.56	.56	.41	.41	.41	.26	.26	.26	.20			
1	.75	.72	.69	.66	.67	.64	.62	.59	.50	.48	.47	.36	.36	.35	.24	.24	.23	.18			
2	.68	.63	.59	.55	.61	.57	.53	.50	.44	.42	.40	.33	.31	.30	.22	.21	.21	.16			
3	.63	.56	.51	.47	.56	.50	.46	.42	.39	.36	.34	.29	.28	.26	.20	.19	.18	.14			
4	.58	.50	.44	.40	.51	.45	.40	.36	.35	.32	.29	.26	.24	.22	.18	.17	.16	.12			
5	.53	.44	.38	.34	.47	.40	.35	.31	.31	.28	.25	.24	.21	.19	.16	.15	.14	.11			
6	.49	.40	.33	.29	.43	.36	.30	.27	.28	.25	.22	.21	.19	.17	.15	.13	.12	.10			
7	.45	.35	.29	.25	.40	.32	.27	.23	.25	.21	.19	.19	.17	.15	.13	.12	.11	.08			
8	.41	.32	.26	.22	.37	.28	.23	.20	.23	.19	.16	.17	.15	.13	.12	.10	.09	.07			
9	.38	.28	.23	.19	.34	.26	.21	.17	.20	.17	.14	.15	.13	.11	.11	.09	.08	.06			
10	.35	.26	.20	.16	.31	.23	.18	.15	.18	.15	.12	.14	.11	.10	.10	.08	.07	.05			

Floor Cavity Reflectance .20

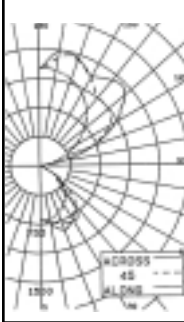
ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3521	60.72	75.34
90-0°	1152	19.87	24.66
180-0°	4671	80.59	100

LUMINANCE SUMMARY (fL)

ANGLE	0°	45°	90°
45°	401	1043	805
55°	308	396	184
65°	92	110	92
75°	18	36	42
85°	36	71	71

UPLIGHT 75%
DOWNLIGHT 25%

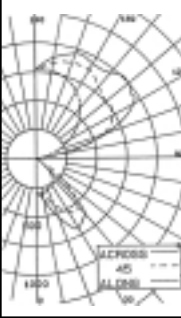
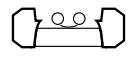


CANDLEPOWER SUMMARY

ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	1247	1247	1247	1247	1247	
170	1238	1300	1399	1476	1489	522
160	1172	1349	1427	1447	1447	
150	1062	1288	1299	1294	1319	1386
140	909	1118	1132	1339	1418	
130	723	885	1118	1348	1389	1795

75/25 UPLIGHT: PARSS30

CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	774	774	774	774	774	
170	768	795	839	874	884	319
160	730	805	877	939	962	
150	662	778	883	925	941	916
140	567	717	803	910	964	
130	448	625	756	944	998	1258
120	322	489	723	892	929	
110	194	397	590	622	619	967
100	73	239	217	174	157	
90	0	2	3	3	3	78
80	2	3	5	5	5	
70	4	4	5	12	9	23
60	12	35	32	38	31	
50	103	267	299	112	85	360
40	204	353	531	577	617	
30	250	343	529	672	690	523
20	280	312	417	508	536	
10	300	303	319	344	354	134
0	303	303	303	303	303	

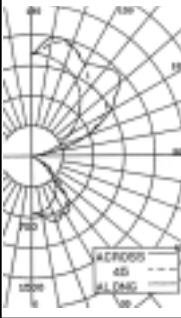
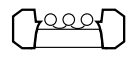
P-ID9024T8 - PARSS3075 78.8 % Efficiency Litecontrol Certified Test Report #24521991																		
RCC	80				70				50			30		10		0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	.79	.79	.79	.79	.70	.70	.70	.70	.54	.54	.54	.38	.38	.38	.25	.25	.25	.18
1	.73	.70	.67	.65	.65	.62	.60	.57	.48	.46	.45	.35	.34	.33	.23	.22	.22	.16
2	.67	.62	.57	.54	.59	.55	.51	.48	.43	.40	.38	.31	.30	.29	.21	.20	.19	.15
3	.61	.55	.50	.45	.54	.49	.45	.41	.38	.35	.33	.28	.26	.25	.19	.18	.17	.13
4	.56	.49	.43	.39	.50	.44	.39	.35	.34	.31	.28	.25	.23	.22	.17	.16	.15	.12
5	.52	.43	.37	.33	.46	.39	.34	.30	.30	.27	.24	.23	.20	.19	.15	.14	.13	.10
6	.47	.39	.33	.29	.42	.35	.30	.26	.27	.24	.21	.20	.18	.16	.14	.13	.12	.09
7	.44	.35	.29	.25	.39	.31	.26	.23	.25	.21	.18	.18	.16	.14	.13	.11	.10	.08
8	.40	.31	.25	.21	.36	.28	.23	.20	.22	.19	.16	.17	.14	.12	.11	.10	.09	.07
9	.37	.28	.22	.19	.33	.25	.20	.17	.20	.16	.14	.15	.12	.11	.10	.09	.08	.06
10	.34	.25	.20	.16	.30	.23	.18	.15	.18	.15	.12	.13	.11	.09	.09	.08	.07	.05
Floor Cavity Reflectance .20																		

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	3529	60.86	77.25
90-0°	1039	17.93	22.75
180-0°	4569	78.78	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	360	942	698
55°	127	336	152
65°	18	44	81
75°	18	30	42
85°	36	54	71

UPLIGHT 77%
DOWNLIGHT 23%

CANDLEPOWER SUMMARY						
ANGLE	0	22.5	45	67.5	90	OUTPUT LUMENS
180	1258	1258	1258	1258	1258	
170	1249	1311	1407	1480	1492	524
160	1184	1358	1431	1454	1452	
150	1075	1295	1302	1295	1321	1392
140	922	1126	1134	1338	1423	
130	734	892	1120	1358	1394	1803
120	530	691	1009	1087	1101	
110	323	575	688	701	698	1213
100	125	277	265	233	221	
90	0	3	1	2	2	108
80	0	3	5	5	6	
70	3	5	7	17	12	46
60	22	47	91	159	129	
50	232	364	350	245	245	524
40	450	579	635	668	643	
30	563	651	773	794	801	774
20	643	681	774	848	856	
10	689	696	716	743	750	279
0	696	696	696	696	696	

P-ID9034T8 - PARSS3075 76.5 % Efficiency Litecontrol Certified Test Report #24531991																		
RCC	80				70				50			30		10		0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																		
0	.77	.77	.77	.77	.69	.69	.69	.69	.53	.53	.53	.38	.38	.38	.25	.25	.25	.19
1	.71	.68	.65	.63	.63	.61	.59	.56	.47	.46	.44	.35	.34	.33	.23	.23	.22	.17
2	.65	.60	.56	.52	.58	.54	.50	.47	.42	.40	.38	.31	.30	.29	.21	.20	.20	.15
3	.60	.53	.49	.45	.53	.48	.44	.41	.38	.35	.33	.28	.26	.25	.19	.18	.18	.14
4	.55	.48	.42	.38	.49	.43	.38	.35	.34	.31	.28	.25	.23	.22	.17	.16	.16	.12
5	.50	.42	.37	.33	.45	.38	.33	.30	.30	.27	.24	.23	.21	.19	.16	.15	.14	.11
6	.46	.38	.32	.28	.41	.34	.29	.26	.27	.24	.21	.21	.18	.17	.14	.13	.12	.10
7	.43	.34	.29	.25	.38	.31	.26	.23	.25	.21	.19	.19	.16	.15	.13	.12	.11	.09
8	.39	.31	.25	.21	.35	.28	.23	.20	.22	.19	.16	.17	.15	.13	.12	.10	.09	.08
9	.36	.28	.22	.19	.32	.25	.20	.17	.20	.17	.14	.15	.13	.11	.11	.09	.08	.07
10	.34	.25	.20	.16	.30	.23	.18	.15	.18	.15	.12	.14	.12	.10	.10	.08	.07	.06
Floor Cavity Reflectance .20																		

ZONAL LUMEN SUMMARY			
ZONE	LUMENS	% LAMP	% LUMINAIRE
180-90°	5032	57.84	75.64
90-0°	1620	18.63	24.36
180-0°	6652	76.47	100

LUMINANCE SUMMARY (fL)			
ANGLE	0°	45°	90°
45°	802	1133	781
55°	292	510	741
65°	18	118	129
75°	12	36	48
85°	18	54	54

UPLIGHT 76%
DOWNLIGHT 24%

PLANNING FOR INSTALLATION

SUSPENSION ASSEMBLIES

Provided with P6S (5/8" dia., 3/8" NPT) stems, or 3/32" diameter aircraft cable assemblies. Stems with 0-45° swivel joints are available. Aircraft cable is provided at fixed lengths (with 1/4-20 stud adjustment for leveling purposes), or may be ordered with "field-adjustable" fittings that allow unlimited vertical positioning and adjustment. See *Stems & Aircraft Cables* sheet for further details.

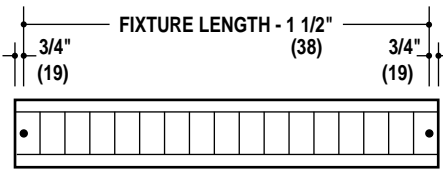
STEM LENGTHS

P6S stems are available in eight standard lengths from 6" to 36" (nominal). The ceiling-to-top-of-fixture dimensions for each of the standard lengths are: 6", 9", 12", 15", 18", 24", 28", and 36". Refer to *Standard Length Stem Assemblies* sheet for dimensional information on sloped ceiling (SC/P6) and earthquake (EQ/P6) stem assemblies.

SUSPENSION MOUNTING LOCATIONS

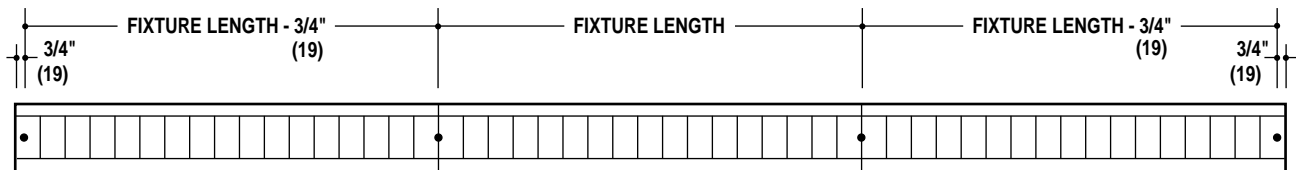
Pendant locations at ends of rows (or individual fixtures) are 3/4" from fixture end. Pendant locations at in-row joints are at the joint. All pendant types (cable or stem) attach to universal flat strap for mounting either at fixture end or across two fixtures at a row joint. Strap attachment allows for horizontal adjustment to "fine-tune" side-to-side leveling.

INDIVIDUAL FIXTURE



Fixture Lengths: 4' 3", 8' 6"
• Indicates pendant locations

ROW DIAGRAM



QUESTIONS TO ASK:

1. 120 or 277 volt?
2. Row information, including desired fixture lengths?
3. Tandem wiring?
4. White, LiteColor, or special color?
5. Cables or stems, what length?
6. Other options?