job name:

type:

na.row.up™ spec sheet 90CRI direct/indirect

material
3.5" smooth extruded aluminum outer housing in four lengths available in 15 standard powder coat paint finishes listed below. premium RAL and wood finishes also available.

LED
COBs in 2700K, 3000K, 3500K, or 4000K (90+ cri standard) rated >36,000 hours L70 (6.8K) per LM-80 test data, and 71,000 hours projected life per IES TM-21.

downlight optics
LEDiL® Angelina 82mm dia 31mm high (RoHS compliant) available in 20° spot, 30° medium, 50° wide with specular anodized finish. 90° extra wide features matte white highly reflective finish. color mixing sublens standard. standard mounting clamp allows for easy replacement of reflector in field. the typical total beam angle is the full angle measured where the luminous intensity is half of the peak volume.

uplight diffuser
.118" thick laser cut optimum light diffusion acrylic. 72% light transmission with matte surface providing light scattering glare reduction. Colorless diffusion significantly reducing color shift of the LED's.

drivers
constant current, class P, class 2 power units, class A sound rating, universal input (120-277V) programmable driver, 5% minimum dimming level, PF >0.90. protections include short circuit, input/output isolation and surge protection (3KV). wired for 0-10v dimming from factory.

mounting
standard
driver in matching extruded aluminum canopy painted to match fixture. ultrathin vertical stainless steel cables and field adjustable grippers that allow for exact AFF mounting heights. silver braid power cord standard. 5"dia canopy painted to match fixture. satin black canopy standard on wood finishes.

remote enclosure (.LV) (optional)
the standard driver can be remote mounted up to 33ft from the LED. suspension length should be considered in distance. remote enclosure supplied. for distances greater than 33ft consult factory. for Chicago Plenum installation consult factory.

finish
select from 15 standard powder coat paint finishes or 3 wood finishes (listed below) or specify RAL# for custom colors.

emergency
if required, recommend use of inverter (by other).

catalog number

direct indirect

size

P7606.up

P7606.up.LV
remote enclosure
3.5"dia X 6 "ht

P7612.up

P7612.up.LV
remote enclosure
3.5"dia X 12"ht

P7618.up

P7618.up.LV
remote enclosure
3.5"dia X 18"ht

P7624.up

P7624.up.LV
remote enclosure
3.5"dia X 24"ht

downlight beam spread

S	20˚ spot
M	30˚ med
W	50˚ wide
XW	90˚ extra wide

CCT

27	2700K
30	3000K
35	3500K
40	4000K

downlight lumens

L1	395 lm
L2	695 lm
L3	995 lm
H1	1390 lm
H2	1985 lm

uplight lumens

L1	340 lm
L2	590 lm
L3	845 lm

downlight lumens

L1	395 lm
L2	695 lm
L3	995 lm
H1	1390 lm
H2	1985 lm
H3	2780 lm

uplight lumens

L1	340 lm
L2	590 lm
L3	845 lm
H1	1185 lm

painted finish

AP	anodized paint
BS	brass
BU	blue
BZ	bronze
CP	champagne
FB	flat black
GM	gun metal
MB	military blue
MW	matte white
OR	orange
RD	red
SB	satin black
SS	satin silver
TG	textured gray
YO	yellow

premium finish

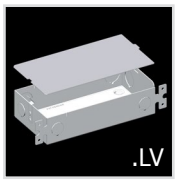
RAL	specify RAL#

wood finish

ASH	ashwood
ENG	english brown oak
ESP	espresso

options

3FT	36" cables
6FT	72" cables



remote enclosure

Intertek
DRY / DAMP

made in the USA!

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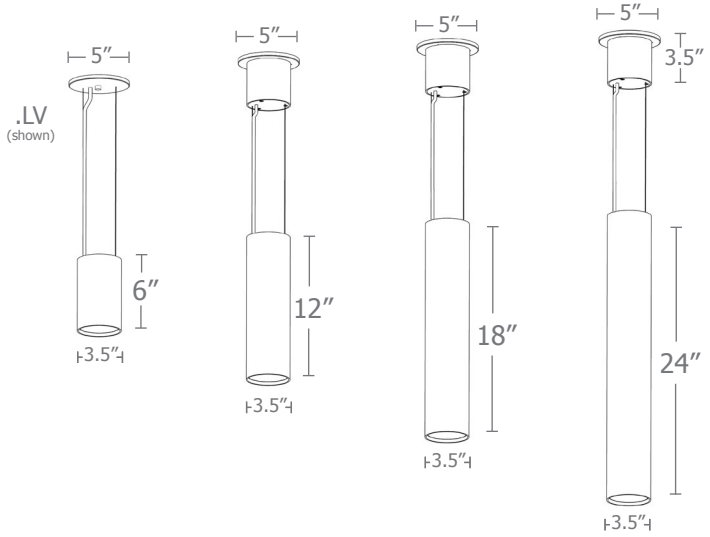
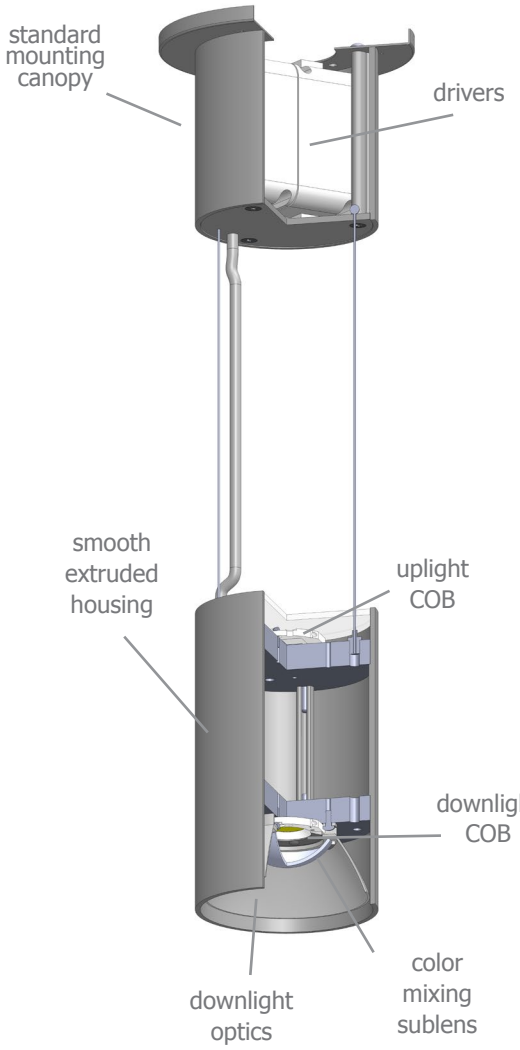
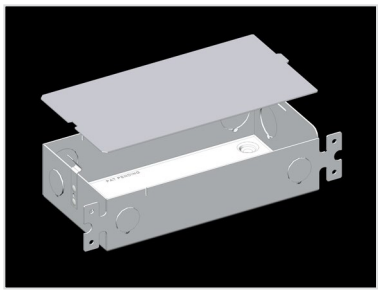




color mixing sub lens

uplight diffuser standard



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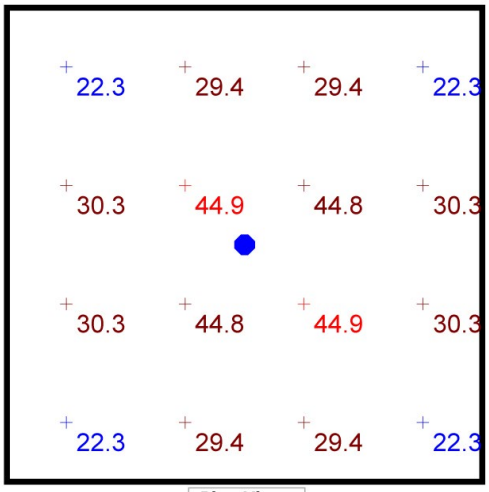
Quick Calc Typical Lighting Layout

- 8′ x 8′ x 10′H space
- 80/50/20 reflectances
- bottom of fixture at 8′ aff
- FC readings at 2.5′ aff
- layout conducted with P7612.up H2 1985 lumen 90 CRI downlight and L3 845 lumen uplight



Plan View
Scale - 1" = 2ft

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
na.row.up	+	31.7 fc	44.9 fc	22.3 fc	2.0:1	1.4:1

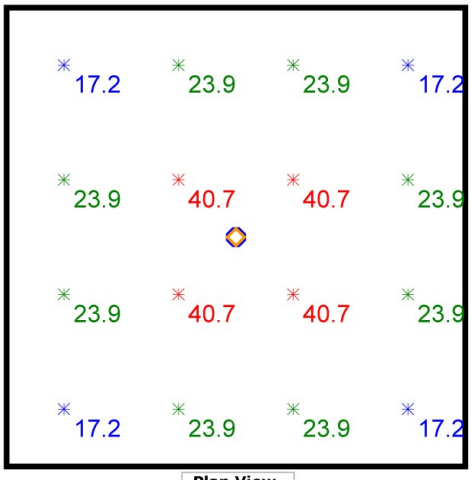
Schedule

Symbol	Quantity	Manufacturer	Catalog Number	Description	Lamp	Wattage
	1	Impact Architectural Lighting	P7612 M xx H3 H1	3.5" dia. na.row.up cylinder pendant with up/down light	4000k 90cri LED	43

Advanced Calculation Typical Lighting Layout

uses separate files to give designer ultimate flexibility and accuracy

- 8′ x 8′ x 12′H space
- 80/50/20 reflectances
- bottom of fixture at 9′ aff
- FC readings at 2.5′ aff
- layout conducted using P7606.up with H2 1985 lumen 90 CRI downlight package and L3 845 lumen uplight



Plan View
Scale - 1" = 2ft

Schedule

Symbol	QTY	Manufacturer	Catalog Number	Description	Lamp	Wattage
	1	Impact Architectural Lighting	P7606 W 40 H2 xx down only	3.5"dia. x 6"h na.row.up luminaire DOWNLIGHT ONLY	4000k 90cri LED	21
	1	Impact Architectural Lighting	P7606 x 40xx L3 uplight only	UPLIGHT ONLY	4000k 90cri LED	10

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
na.row.up	+	26.4 fc	40.7 fc	17.2 fc	2.4:1	1.5:1

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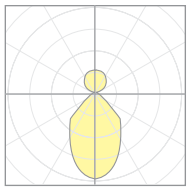
Quick Calc Table

Tests indicated below are a combination of direct and indirect. LLFs are as close as possible. Downlight is given priority.

for more detailed calculations see table on next page.

Cat No	Direct Delivered* Lumens	Indirect Delivered* Lumens	Watts 120V / 277V	IES File #	LLF to be applied
P7606 L1 L1	395	340	8	12201	.16
P7606 L2 L2	695	590	14	12201	.28
P7606 L3 L3	995	845	20	12201	.40
P7606 H1 L3	1390	845	24	12201	.56
P7606 H2 L3	1985	845	30	12201	.79
P76XX L1 L1	395	340	8	12203	.11
**					
P76XX L2 L2	695	590	14	12203	.20
P76XX L3 L3	995	845	20	12203	.29
P76XX H1 H1	1390	1185	28	12203	.40
P76XX H2 H1	1985	1185	34	12203	.57
P76XX H3 H1	2780	1185	43	12203	.80

*delivered lumens based on 4000K, 90+ cri
** XX = 12", 18", or 24" length



12201
P7606-40HX-UP/DN

The application of a Light Loss Factor is required to:

- match the lumen output for the power module specified
- incorporate the increased lumen output due to LED/Driver upgrades

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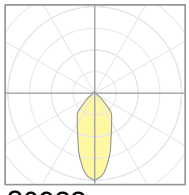
Advanced Calculation Table

Tests are for each element separately and
must be "stacked" to represent single fixture

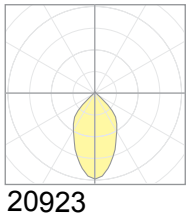
Consult factory for applications assistance

	Direct				Indirect			
Cat No	**Delivered* Lumens**	**Watts 120V / 277V**	**IES File #**	**LLF to be applied**	**Delivered* Lumens**	**Watts 120V / 277V**	**IES File #**	**LLF to be applied**
L1	395	4	**20921** spot	.12	340	4	**12202**	.24
			20922 med	.12				
			20923 wide	.12				
			20924 x-wide	.12				
L2	695	7	**20921** spot	.22	590	7	**12202**	.42
			20922 med	.22				
			20923 wide	.22				
			20924 x-wide	.22				
L3	995	10	**20921** spot	.31	845	10	**12202**	.60
			20922 med	.31				
			20923 wide	.31				
			20924 x-wide	.31				
					N/A P6606			
H1	1390	14	**20921** spot	.43	1185	14	**12202**	.84
			20922 med	.43				
			20923 wide	.43				
			20924 x-wide	.43				
H2	1985	21	**20921** spot	.62				
			20922 med	.62				
			20923 wide	.62				
			20924 x-wide	.62				
H3	2780	28	**20921** spot	.86				
			20922 med	.86				
			20923 wide	.86				
			20924 x-wide	.86				

*delivered lumens based on 4000K, 90+ cri



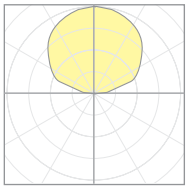
20922
P7506-M-40H3
M 30° med



20923
P7506-W-40H3
W 50° wide

The application of a Light Loss Factor is required to:

- match the lumen output for the power module specified
- incorporate the increased lumen output due to LED/Driver upgrades



12202
P7606-XXXX-UP

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Powder Coat Paint Finishes

MW matte white

AP anodized paint


SS satin silver


TG textured gray


FB flat black


SB satin black


CP champagne


BZ bronze


GM gun metal


OR orange 2011


BU blue 5017


BS brass


RD red 3020

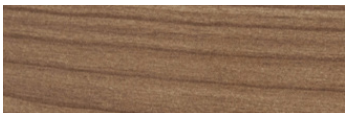
YO yellow 1018


MB military blue

Premium Finishes*

Wood Finishes


ASH ashwood


ENG english brown oak


ESP espresso

For accurate color verification, actual finish samples are available upon request.


RAL#

*Available on select series. Consult product submittal for availability.