

**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.

**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.

**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 listed below or specify RAL# for custom colors.

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



**catalog number**

direct

indirect

size	downlight beam spread	CCT	downlight lumens	uplight lumens	options
<b>P7606.up</b>		27 2700K			
<b>P7606.up.LV</b> <small>remote enclosure</small> 3.5"dia X 6"ht	<b>S</b> 20° spot <b>M</b> 30° med <b>W</b> 50° wide <b>XW</b> 90° extra wide	30 3000K 35 3500K 40 4000K	<b>L1</b> 395 lm <b>L2</b> 695 lm <b>L3</b> 995 lm <b>H1</b> 1390 lm <b>H2</b> 1985 lm	<b>L1</b> 340 lm <b>L2</b> 590 lm <b>L3</b> 845 lm	<b>3FT</b> 36" cables <b>6FT</b> 72" cables
<b>P7612.up</b>			<b>L1</b> 395 lm <b>L2</b> 695 lm <b>L3</b> 995 lm	<b>L1</b> 340 lm <b>L2</b> 590 lm <b>L3</b> 845 lm	
<b>P7612.up.LV</b> <small>remote enclosure</small> 3.5"dia X 12"ht			<b>H1</b> 1390 lm <b>H2</b> 1985 lm <b>H3</b> 2780 lm	<b>H1</b> 1185 lm	
<b>P7618.up</b>					
<b>P7618.up.LV</b> <small>remote enclosure</small> 3.5"dia X 18"ht					
<b>P7624.up</b>					
<b>P7624.up.LV</b> <small>remote enclosure</small> 3.5"dia X 24"ht					

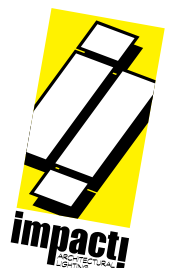
- painting finish**
- AP** anodized paint
  - BS** brass
  - BU** blue
  - BZ** bronze
  - CP** champagne
  - FB** flat black
  - GM** gun metal
  - MB** military blue
  - MW** matte white
  - OR** orange
  - RD** red
  - SB** satin black
  - SS** satin silver
  - TG** textured gray
  - YO** yellow

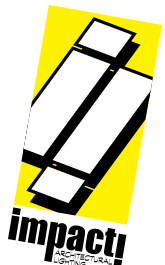
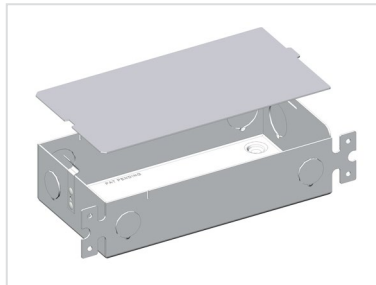
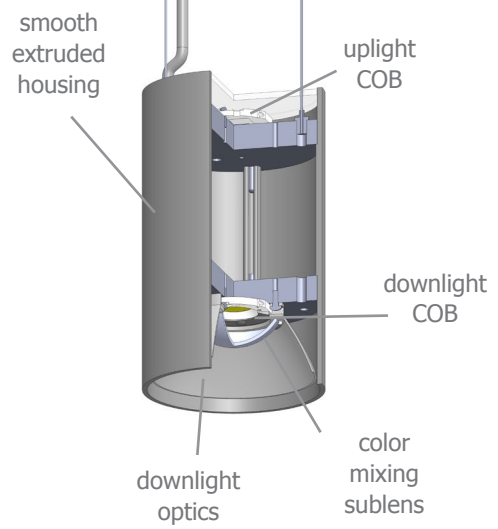
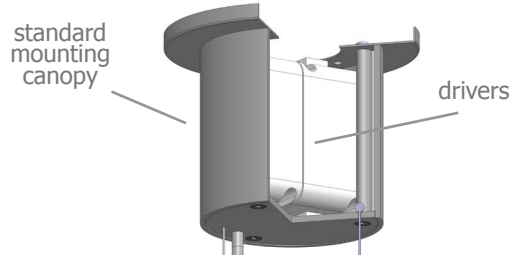
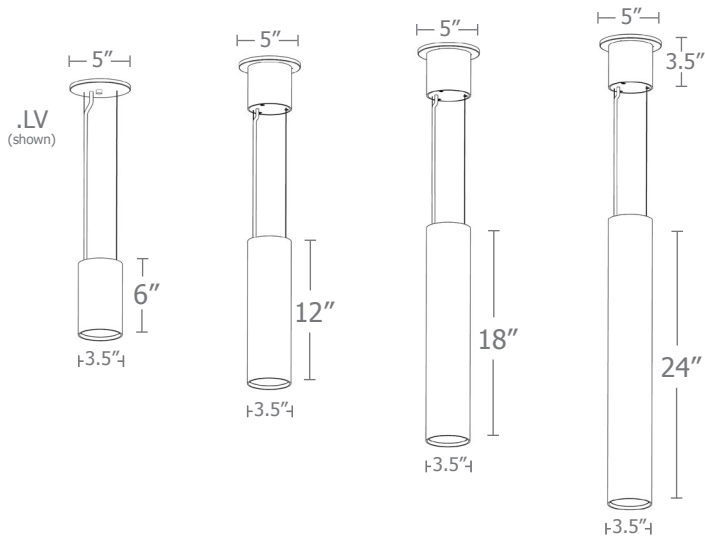
**premium finish**  
**RAL** specify RAL#



made in the usa!

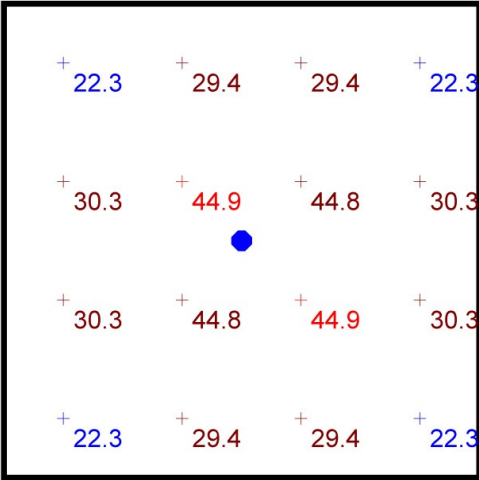
DRY / DAMP





## 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

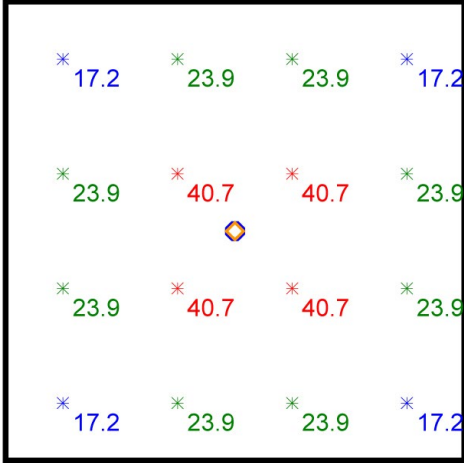
### Schedule

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



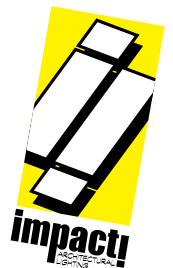
**Plan View**  
Scale - 1" = 2ft

### 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

### 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



# Quick Calc Table

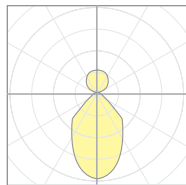
Tests indicated below are a combination of direct and indirect. LLFs are as close as possible. Downlight is given priority.

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
<b>P7606 L1 L1</b>	395	340	8	12201	.16
<b>P7606 L2 L2</b>	695	590	14	12201	.28
<b>P7606 L3 L3</b>	995	845	20	12201	.40
<b>P7606 H1 L3</b>	1390	845	24	12201	.56
<b>P7606 H2 L3</b>	1985	845	30	12201	.79
<b>P76XX L1 L1</b>	395	340	8	12203	.11
**					
<b>P76XX L2 L2</b>	695	590	14	12203	.20
<b>P76XX L3 L3</b>	995	845	20	12203	.29
<b>P76XX H1 H1</b>	1390	1185	28	12203	.40
<b>P76XX H2 H1</b>	1985	1185	34	12203	.57
<b>P76XX H3 H1</b>	2780	1185	43	12203	.80

\*delivered lumens based on 4000K, 90+ cri

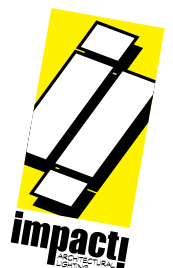
\*\* XX = 12", 18", or 24" length



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



# Advanced Calculation Table

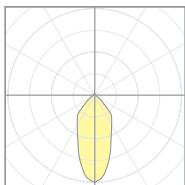
Tests are for each element separately and must be "stacked" to represent single fixture  
 Consult factory for applications assistance

## Direct

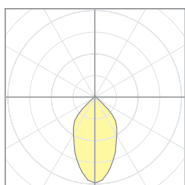
## Indirect

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

\*delivered lumens based on 4000K, 90+ cri



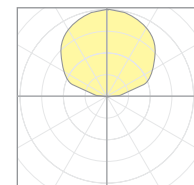
**20922**  
P7506-M-40H3  
M 30° med



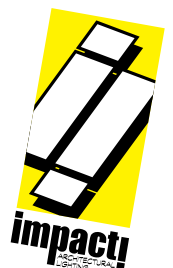
**20923**  
P7506-W-40H3  
W 50° wide

The application of a Light Loss Factor is required to:

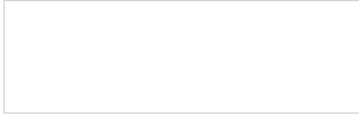
- match the lumen output for the power module specified
- incorporate the increased lumen output due to LED/Driver upgrades



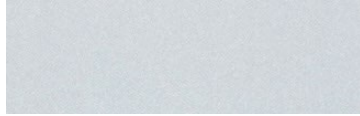
**12202**  
P7606-XXXX-UP



## Powder Coat Paint Finishes



**MW** matte white



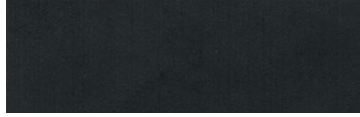
**AP** anodized paint



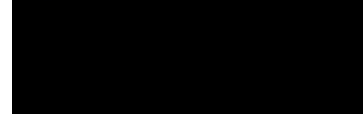
**SS** satin silver



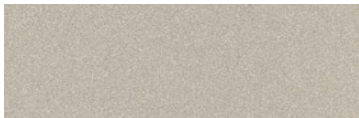
**TG** textured gray



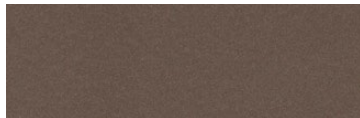
**FB** flat black



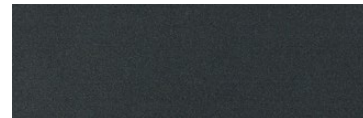
**SB** satin black



**CP** champagne



**BZ** bronze



**GM** gun metal



**OR** orange 2011



**BU** blue 5017



**BS** brass



**RD** red 3020



**YO** yellow 1018



**MB** military blue

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

## Premium Finishes\*



**RAL#**

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

