

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. satin black canopy and cord standard on wood finishes.

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 and cord standard on wood finishes.

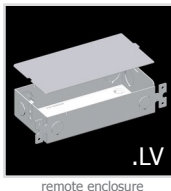
remote enclosure (.LV) (optional)
the standard driver can be remote mounted up to 33ft from the LED. suspension length should be considered in distance. remote enclosure supplied. for distances greater than 33ft consult factory. for Chicago Plenum installation consult factory.

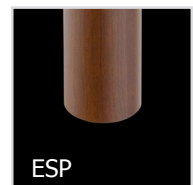
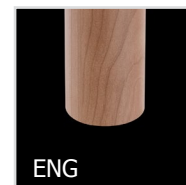
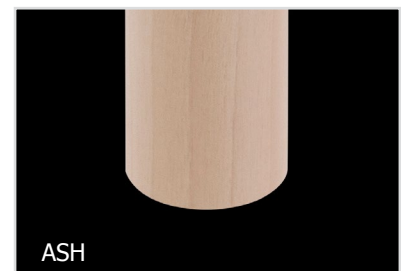
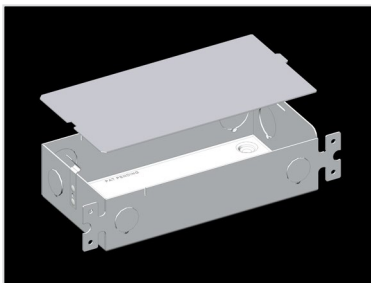
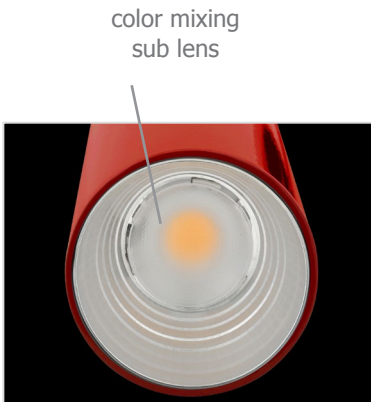
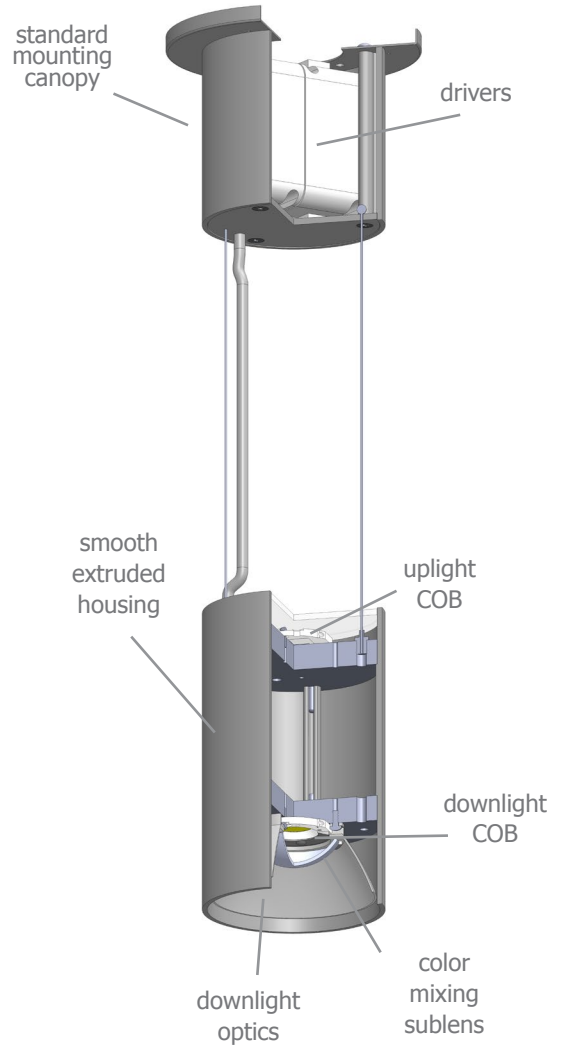
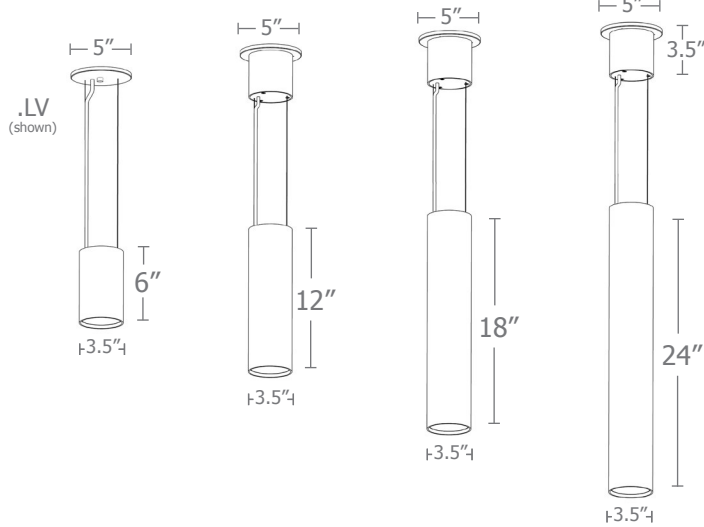
finish
select from 15 standard powder coat paint finishes or 3 wood finishes (listed below) or specify RAL# for custom colors. satin black canopy and cord standard on wood finishes.

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



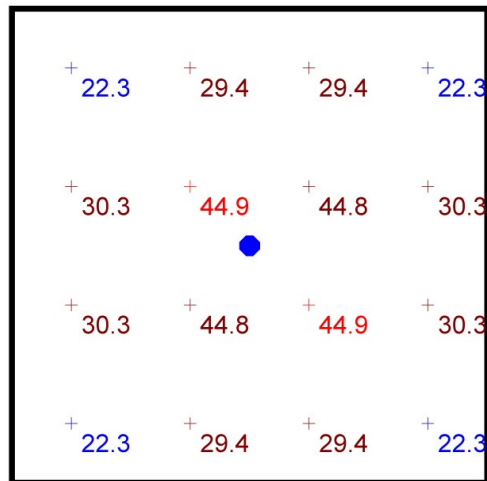
catalog number		direct		indirect		
size	downlight beam spread	CCT	downlight lumens	uplight lumens	painting finish	options
P7606.up		27 2700K	L1 410 lm	L1 350 lm	AP anodized paint	3FT 36" cables
P7606.up.LV	S 20° spot	30 3000K	L2 715 lm	L2 610 lm	BS brass	6FT 72" cables
remote enclosure	M 30° med	35 3500K	L3 1025 lm	L3 875 lm	BU blue	
3.5"dia X 6 "ht	W 50° wide	40 4000K	H1 1435 lm		BZ bronze	
	XW 90° extra wide				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	
					satin black canopy and cord standard on wood finishes	





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

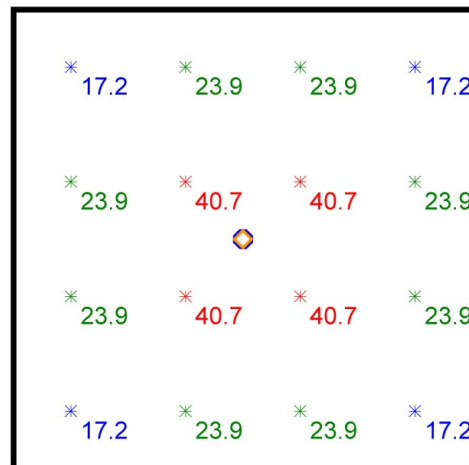
Schedule

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

Quick Calc Table

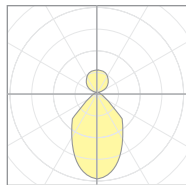
Tests indicated below are a combination of direct and indirect. LLFs are as close as possible. Downlight is given priority.

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	410	350	8	12201	.16
P7606 L2 L2	715	610	14	12201	.29
P7606 L3 L3	1025	875	20	12201	.41
P7606 H1 L3	1435	875	24	12201	.57
P7606 H2 L3	2025	875	30	12201	.87
P76XX L1 L1	410	350	8	12203	.12
**					
P76XX L2 L2	715	610	14	12203	.21
P76XX L3 L3	1025	875	20	12203	.30
P76XX H1 H1	1435	1220	28	12203	.41
P76XX H2 H1	2025	1220	34	12203	.59
P76XX H3 H1	2870	1220	42	12203	.83

*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

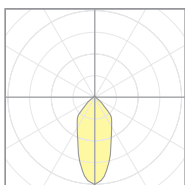
Tests are for each element separately and must be "stacked" to represent single fixture
Consult factory for applications assistance

Direct

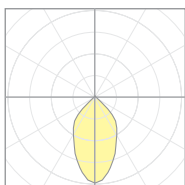
Indirect

Cat No	Delivered* Lumens	Watts 120V / 277V	IES File #	LLF to be applied	Delivered* Lumens	Watts 120V / 277V	IES File #	LLF to be applied
L1	410	4	20921 spot	.13	350	4	12202	.25
			20922 med	.13				
			20923 wide	.13				
			20924 x-wide	.13				
L2	715	7	20921 spot	.22	610	7	12202	.43
			20922 med	.23				
			20923 wide	.23				
			20924 x-wide	.22				
L3	1025	10	20921 spot	.32	875	10	12202	.62
			20922 med	.32				
			20923 wide	.32				
			20924 x-wide	.31				
					N/A P6606			
H1	1435	14	20921 spot	.45	1220	14	12202	.87
			20922 med	.45				
			20923 wide	.45				
			20924 x-wide	.44				
H2	2050	21	20921 spot	.64				
			20922 med	.65				
			20923 wide	.65				
			20924 x-wide	.63				
H3	2870	28	20921 spot	.89				
			20922 med	.90				
			20923 wide	.91				
			20924 x-wide	.88				

*delivered lumens based on 4000K, 90+ cri



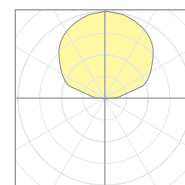
20922
P7506-M-40H3
M 30° med



20923
P7506-W-40H3
W 50° wide

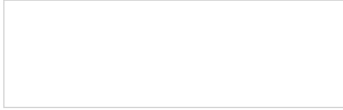
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- match the lumen output for the power module specified
- incorporate the increased lumen output due to LED/Driver upgrades

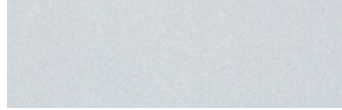


12202
P7606-XXXX-UP

Powder Coat Paint Finishes



MW matte white



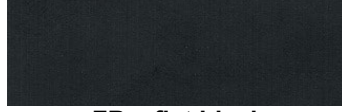
AP anodized paint



SS satin silver



TG textured gray



FB flat black



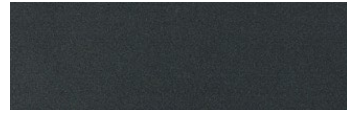
SB satin black



CP champagne



BZ bronze



GM gun metal



OR orange 2011



BU blue 5017



BS brass



RD red 3020



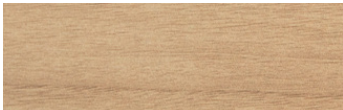
YO yellow 1018



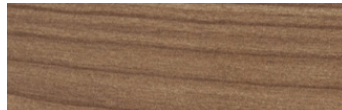
MB military blue

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.

