



# GO FIGURE

**RPD07 | SUSPENDED, SURFACE**

DESIGN BY  
**NEIDHARDT**

## STANDARD SIZES

2" Aperture  
Nominal lengths from 0.5ft. to 8ft. in 0.5ft. increments  
Customizable 3D design, tailor-made to illuminate any space

## LAMPING

LED - Single-Sided Illumination  
90+ CRI - 2700K/3000K/3500K/4000K  
White, RGB and RGB+W Options  
Dimming down to 0%

## FINISH

Brushed Aluminum, Black, Brass, Silver, White, RAL Classic Colors

## CONSTRUCTION

Industrial Strength Extruded Aluminum

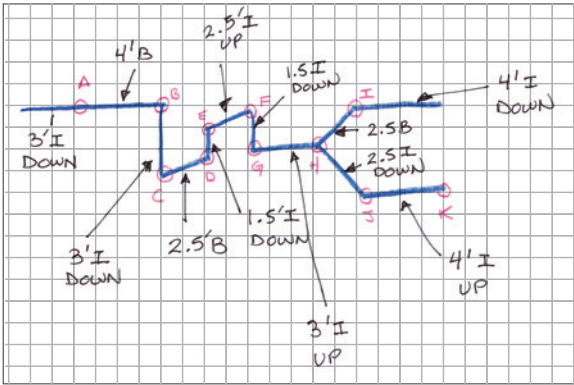




## HOW TO SUBMIT YOUR RPD07 CONFIGURATION

### 1. CREATE YOUR DESIGN USING THE CAD-READY STEP FILES.

Alternatively, you can sketch your design on the configuration graph on page 4. Save your CAD assembly as a .STEP AP214 file and submit to ALW.



### 2. CALCULATE TOTAL BAR LENGTH IN FEET WITH THE BAR LENGTH CALCULATOR (PG. 5).

**BAR LENGTH WORKSHEET**

Use the tool below to determine component quantities

1. Add up the total RPD07 lengths (feet): Blank Unilluminated (B), Single-Side Illuminated (S), & Hubs (H).  
2. Copy the totals into Step 3 of the WORKSHEET (pg. 2).

BLANK (B) UNILLUMINATED			SINGLE-SIDE (S) ILLUMINATED			HUBS (H)		
BAR LENGTH	QTY	TOTAL (FT.)	BAR LENGTH	QTY	TOTAL (FT.)	TYPE	QTY	TOTAL
0.5 ft.	x	=	0.5 ft.	x	=	ID	x	=
1 ft.	x	=	1 ft.	x	=	H90	x	=
1.5 ft.	x	=	1.5 ft.	x	=	HW120T	x	=
2 ft.	x	=	2 ft.	x	=	HW120D	x	=
2.5 ft.	x	=	2.5 ft.	x	=	HW950	x	=
3 ft.	x	=	3 ft.	x	=	HW60	x	=
3.5 ft.	x	=	3.5 ft.	x	=	HW120	x	=
4 ft.	x	=	4 ft.	x	=	HW950	x	=
4.5 ft.	x	=	4.5 ft.	x	=	HW60	x	=
5 ft.	x	=	5 ft.	x	=			
5.5 ft.	x	=	5.5 ft.	x	=			
6 ft.	x	=	6 ft.	x	=			
6.5 ft.	x	=	6.5 ft.	x	=			
7 ft.	x	=	7 ft.	x	=			
7.5 ft.	x	=	7.5 ft.	x	=			
8 ft.	x	=	8 ft.	x	=			
TOTAL (B):			TOTAL (S):			TOTAL (H):		

### 3. COMPLETE THE PRODUCT SUBMITTAL WORKSHEET (PGS. 6-7).

**PRODUCT SUBMITTAL WORKSHEET**

**SAMPLE PRODUCT CODE**  
RPL/3D - MUD/TRIM - 0/40/8 - STD/90/3000 - 0/20V/8 - EXT - 7 - AL - BK - UNV - EMC - OS

**1. BASE MODEL (CHOOSE ONE)**

RPD07 Suspension/Pendant Mount  
 RPD07C Surface Mount (for wall or ceiling)

**2. BAR LENGTH & HUB COUNT (USE CHART ON PAGE 5 TO CALCULATE TOTAL LINEAR LENGTH OF BARS IN FEET)**

TOTAL LINEAR LENGTH (FEET) OF BARS			COMPLETE CODE
Blank Unilluminated (B)	Single Illuminated (S)	Quantity of Hubs (H)	Separate each value, dash and under in box below. ex: 5 - 6 - 10

**3. LED LAMPING (CHOOSE ONE)**

	LUMENS (LM) <sup>1</sup>	WATTS (W)	EFFICACY (LM/W)
<input type="checkbox"/> 2700 90+ CRI, 2700K			
<input type="checkbox"/> 3000 90+ CRI, 3000K			
<input type="checkbox"/> 3500 90+ CRI, 3500K			
<input type="checkbox"/> 4000 90+ CRI, 4000K	470	4.64	100
<input type="checkbox"/> RGB Red, Green, and Blue LED			
<input type="checkbox"/> RGBW Red, Green, Blue, and 4000K White			

**4. REMOTE DRIVER (CHOOSE ONE)**

0/10V/5 0-10V dimming down to 10% (Standard Dimming)  
 0/10V/1% 0-10V dimming down to 1%  
 0/10V/0% 0-10V premium dimming down to 0%  
 DMX DMX flicker free dimming down to 0% (Select for RGB or RGBW lamping)  
 ECO505V5 Lutron Hi-lume 5% EcoSystem, constant voltage  
 LTEA Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward phase only), constant voltage

<sup>1</sup>LM or more are nominal. <sup>2</sup>Picture is ETL listed and conforms to UL Standard 2205. Driver specifications provided upon request to assist with control system integration.

### 4. SUBMIT FORMS BELOW TO ALW FOR REVIEW.

1. CONFIGURATION GRAPH (PG. 4) or STEP AP214 FILE
2. PRODUCT CODE WORKSHEET (PGS. 5-7)



## CONFIGURATION GRAPH EXAMPLE

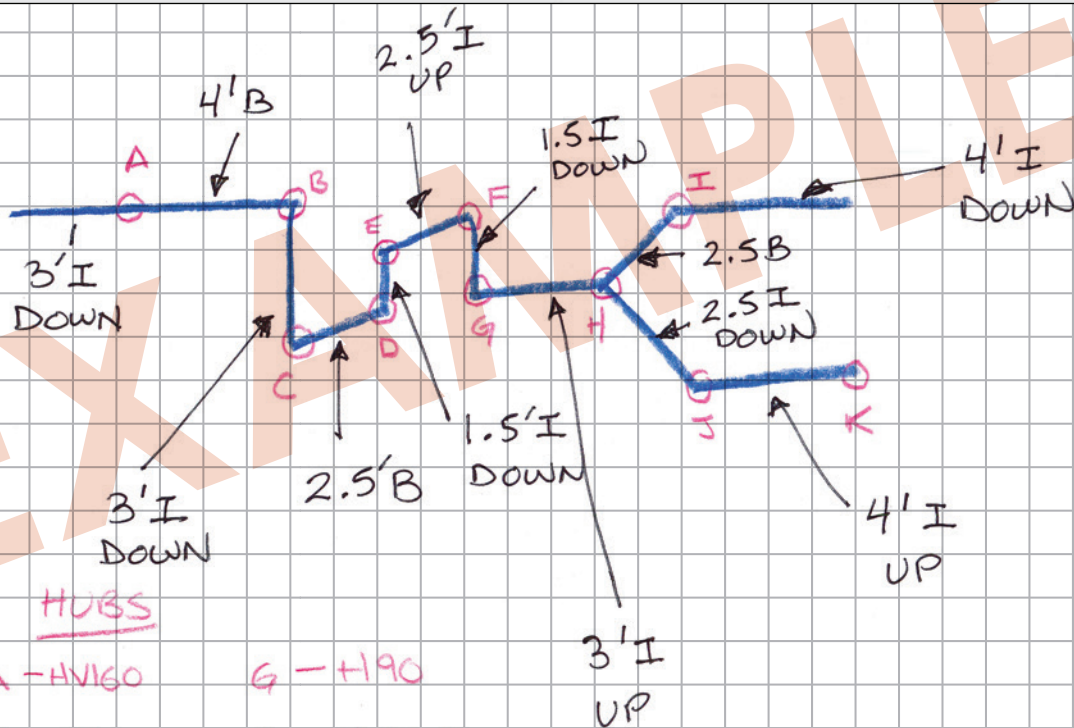
### HOW TO SUBMIT YOUR REQUIRED CONFIGURATION DRAWING

**PREFERRED:** Configure your Go Figure design using the CAD-ready STEP files provided for all light bar section lengths and joiner hubs. The STEP files are available for download at [alwusa.com/go-figure](http://alwusa.com/go-figure). Save final, full-assembly CAD configuration as a STEP AP214 file and submit to ALW along with completed worksheet (pgs. 5-7).

*\*Drawings submitted digitally in the preferred format reduce production cycle time and enable us to ship orders sooner.*

**ALTERNATIVE:** Following the example shown below, use the following page to sketch out and label a plan view of your intended configuration and submit to ALW along with completed worksheet (pgs. 5-7). Make sure to include the following call-outs:

- Nominal length of each light bar (ex: 2.5')
- Illuminated or blank designation for each light bar (I for Illuminated, B for blank)
- The direction of each illuminated light bar (up or down)
- The name of each hub type (ex: HV160)



#### HUBS

A - HV160	G - H90
B - H90	H - HH120-T
C - HH160	I - HH120-D
D - HH60	J - HH120-D
E - HH160	K - ID
F - HH60	

LIGHT BARS  
 I = ILLUMINATED  
 B = BLANK





## BAR LENGTH WORKSHEET

**Use the tool below to determine component quantities**

1. Add up the total RPD07 lengths (feet): Blank Unilluminated (B), Single-Side Illuminated (S), & Hubs (H).
2. Copy the totals into Step 2 of the WORKSHEET (pg. 6).

### BLANK (B) UNILLUMINATED

BAR LENGTH	QTY	TOTAL (ft.)
0.5 ft.	x	=
1 ft.	x	=
1.5 ft.	x	=
2 ft.	x	=
2.5 ft.	x	=
3 ft.	x	=
3.5 ft.	x	=
4 ft.	x	=
4.5 ft.	x	=
5 ft.	x	=
5.5 ft.	x	=
6 ft.	x	=
6.5 ft.	x	=
7 ft.	x	=
7.5 ft.	x	=
8 ft.	x	=
<b>TOTAL (B):</b>		

### SINGLE-SIDE (S) ILLUMINATED

BAR LENGTH	QTY	TOTAL (ft.)
0.5 ft.	x	=
1 ft.	x	=
1.5 ft.	x	=
2 ft.	x	=
2.5 ft.	x	=
3 ft.	x	=
3.5 ft.	x	=
4 ft.	x	=
4.5 ft.	x	=
5 ft.	x	=
5.5 ft.	x	=
6 ft.	x	=
6.5 ft.	x	=
7 ft.	x	=
7.5 ft.	x	=
8 ft.	x	=
<b>TOTAL (S):</b>		

### HUBS (H)

TYPE	QTY
ID	x
H90	x
HH120-T	x
HH120-D	x
HH160	x
HH60	x
HV120	x
HV160	x
HV60	x
<b>TOTAL (H):</b>	

Add up nominal lengths and round total to the nearest whole foot.



# PRODUCT SUBMITTAL WORKSHEET

## SAMPLE PRODUCT CODE

**RPD07 – 35 – 8 – 5 – 3500 – 0/10V/S – BAL – UNV – EMB – COMBO**  
1            2            3            4            5            6            7A            7B

### 1. BASE MODEL (CHOOSE ONE)

- RPD07**            Suspension/Pendant Mount
- RPD07-C**        Surface Mount (for wall or ceiling)

### 2. BAR LENGTH & HUB COUNT (USE CHART ON PAGE 5 TO CALCULATE TOTAL LINEAR LENGTH OF BARS IN FEET)

TOTAL LINEAR LENGTH (FEET) OF BARS QUANTITY OF HUBS			COMPLETE CODE  Separate each with a dash and enter in box below.  ex: 5 - 6 - 10
Blank Unilluminated (B)	Single Illuminated (S)	Quantity of Hubs (H)	
_____	_____	_____	- -

### 3. LED LAMPING (CHOOSE ONE)

- 2700**            90+ CRI, 2700K (very warm)
- 3000**            90+ CRI, 3000K (warm)
- 3500**            90+ CRI, 3500K (slightly warm)
- 4000**            90+ CRI, 4000K (neutral)
- RGB**             Red, Green, and Blue LED
- RGBW**          Red, Green, Blue, and 4000K White

LUMENS (LM/FT)	WATTS (W/FT)	EFFICACY (LM/W)
686	9.0	~100

### 4. REMOTE DRIVER (CHOOSE ONE)


- 0/10V/S**        0-10V dimming down to 10% (Standard Dimming)
- 0/10V/1%**      0-10V dimming down to 1%
- 0/10V/0%**      0-10V premium dimming down to 0%
- DMX**            DMX flicker-free dimming down to 0% (Recommended for RGB or RGBW lamping)
- ECOSYS1**        Lutron Hi-lume 1% EcoSystem, constant voltage
- LTEA**            Lutron Hi-lume 1% 2-wire TRIAC dimming (120V forward-phase only), constant voltage

\*All drivers are remote. Fixture is ETL listed and conforms to UL Standard 2108. Driver specifications provided upon request to assist with control system integration.



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## 5. FINISH (CHOOSE ONE)

- BAL** Brushed Aluminum
- BK** Black Powder Coat
- BRS** Brass Metallic Powder Coat
- SV** Silver Powder Coat
- WH** White Powder Coat
- WH/AM**  White Antimicrobial Powder Coat (for healthcare environments)
- RAL\_\_\_\_\_** Specify RAL Classic Color code (ex: RAL3003) [ralcolorchart.com/ral-classic](http://ralcolorchart.com/ral-classic)

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## 6. VOLTAGE

- UNV** Universal Voltage (120VAC-277VAC)

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## 7. ADDITIONAL OPTIONS (OPTIONAL – CHOOSE ONE UNDER A & B, IF DESIRED)

### A. EMERGENCY OPTIONS

- EMB<sup>1</sup>** Emergency Battery
- EMC<sup>1</sup>** Emergency Circuit

<sup>1</sup>Consult ALW for more details.

### B. ADDITIONAL OPTIONS

- COMBO** Combination 4.5" canopy at power feed locations to accommodate both power cord & suspension mounting hardware.



## FIXTURE LENGTHS

### FIXTURE SECTIONS

0.5 ft nominal (4.06 inch actual)

NOTE: 0.125 inch tolerance applies to "actual" measurements



1.0 ft nominal (10.625 inch actual)



1.5 ft nominal (17.188 inch actual)



2.0 ft nominal (23.75 inch actual)



2.5 ft nominal (30.313 inch actual)



3.0 ft nominal (36.875 inch actual)



3.5 ft nominal (43.438 inch actual)



4.0 ft nominal (46.688 inch actual)



4.5 ft nominal (53.25 inch actual)



5.0 ft nominal (59.813 inch actual)



5.5 ft nominal (66.375 inch actual)



6.0 ft nominal (72.938 inch actual)



6.5 ft nominal (79.5 inch actual)



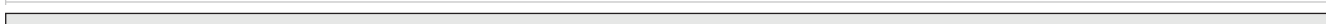
7.0 ft nominal (82.75 inch actual)



7.5 ft nominal (89.313 inch actual)



8.0 ft nominal (95.875 inch actual)

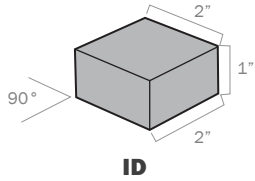




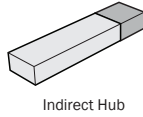


## MECHANICAL DIAGRAMS – HUBS

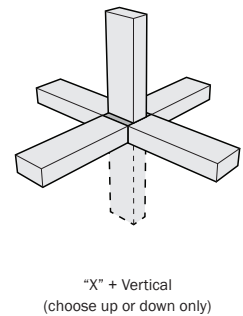
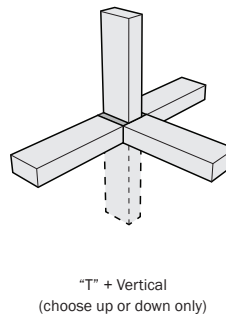
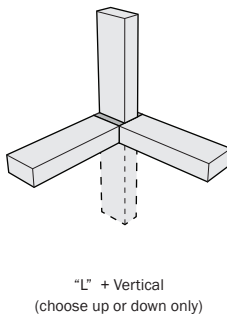
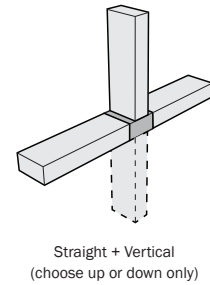
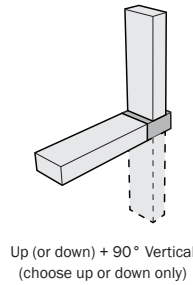
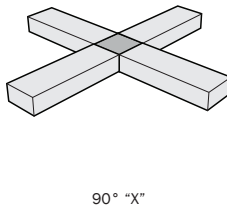
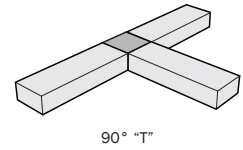
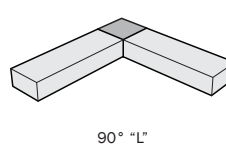
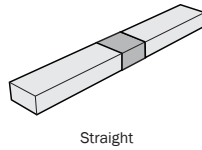
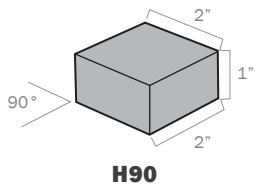
### DIMENSIONS



### CONNECTION(S)

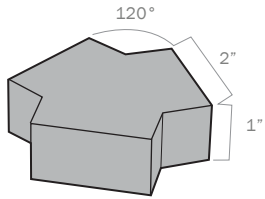


NOTE: Any Illuminated (L) sections that will be set as indirect up-lighting AND do not connect to another section on one end will have an ID Hub placed at the end of that section; please account for these when completing the worksheet on page 2.



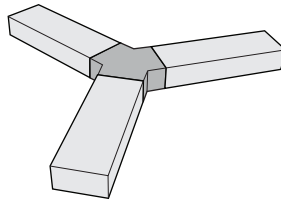
**MECHANICAL DIAGRAMS – HUBS (CONT.)**

**DIMENSIONS**

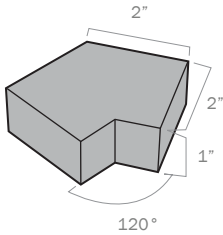


**HH120-T**

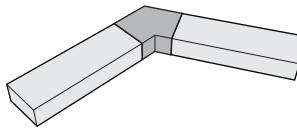
**CONNECTION(S)**



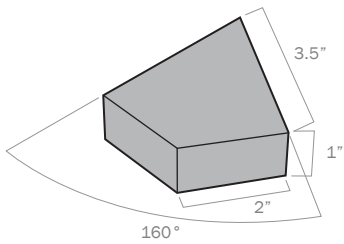
Triple 120° Hub



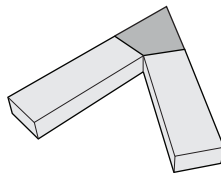
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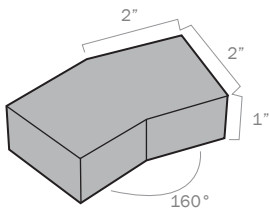
Double 120° Hub



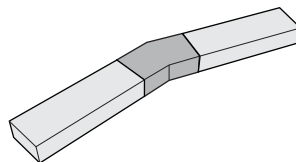
**HH60**



Horizontal 60° Hub



**HH160**

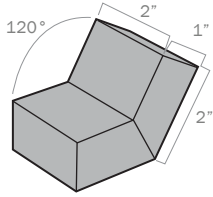


Horizontal 160° Hub



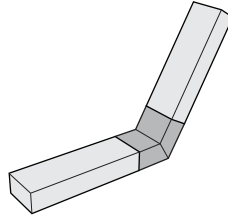
## MECHANICAL DIAGRAMS – HUBS (CONT.)

### DIMENSIONS

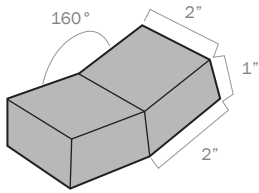


**HV120**

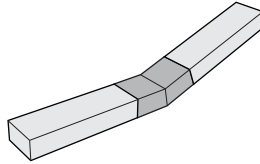
### CONNECTION(S)



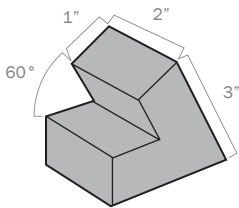
Vertical 120° Hub



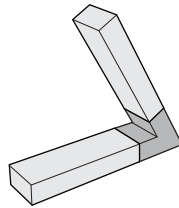
**HV160**



Vertical 160° Hub



**HV60**



Vertical 60° Hub

## REMOTE DRIVER VOLTAGE DROP INFORMATION

The below table should be used as a general guide to calculate the maximum run length between the luminaire and the remote driver for 0-10V drivers. See [alwusa.com/voltage-drop-calculator/](http://alwusa.com/voltage-drop-calculator/) to calculate maximum recommended run length for specific configurations. Please note that the provided values are estimates only, and may vary depending on various factors such as temperature, wire/connector quality, etc.

WIRE GAUGE	20W 0.83A	30W 1.25A	40W 1.67A	50W 2.08A	60W 2.50A	70W 2.92A	80W 3.33A	90W 3.75A	100W 4.17A
18 AWG	59 ft.	37 ft.	25 ft.	19 ft.	14 ft.	11 ft.	8 ft.	7 ft.	5 ft.
16 AWG	99 ft.	63 ft.	45 ft.	35 ft.	27 ft.	22 ft.	18 ft.	15 ft.	13 ft.
14 AWG	163 ft.	106 ft.	77 ft.	60 ft.	49 ft.	40 ft.	34 ft.	30 ft.	26 ft.
12 AWG	264 ft.	173 ft.	128 ft.	100 ft.	82 ft.	69 ft.	60 ft.	52 ft.	46 ft.
10 AWG	424 ft.	280 ft.	208 ft.	164 ft.	136 ft.	115 ft.	100 ft.	88 ft.	78 ft.

SS110618-A.0



## ADDITIONAL OPTIONS & SPECIFICATIONS

### ELECTRICAL

Remote LED Drivers are Class 2.  
90+ CRI. Luminous flux +/- 5%.

### LENS

Extruded, twin-layered, high-impact acrylic. EXT is white, extra diffuse, with minimal to no-source visibility.

### HOUSING

100% recyclable, extruded architectural grade aluminum.

### SAFETY & REGULATORY

ETL Listed (U.S. & Canada). Suitable for dry locations only.  
Conforms to UL std. 2108, Low Voltage Luminaires / Low Voltage Lighting Systems  
Certified to CSA std. C22.2#250.0:2008 Ed. 3+G1;G2.

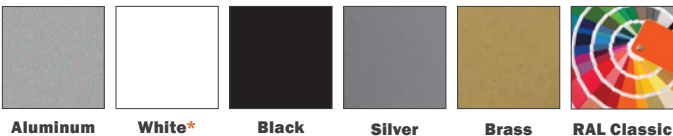
### OPERATING TEMPERATURE

Luminaire should be installed and operated ONLY in environments where the ambient temperature ranges from -4 °F to 122 °F (-20 °C to 50 °C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

### WARRANTY

Limited 5-year warranty. Details: [alwusa.com/warranty](http://alwusa.com/warranty)

### FINISH



\*For healthcare environments, a white antimicrobial finish (WH/AM) is also available.