

# INT21PR

4" Series

Project	
Notes	
Fixture Type	
Date	

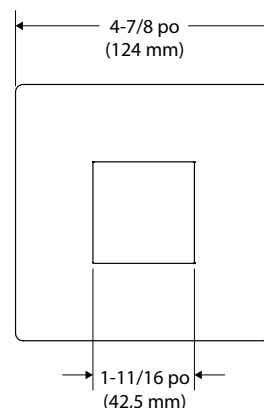
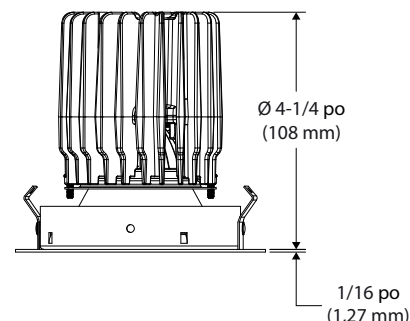
## Ultra-Thin Profile Square Fixed Regressed Trim with Pinhole Aperture

### SPECIFICATIONS

COLOR TEMPERATURE	2,700K / 3,000K / 3,500K / 4,000K		
CRI	90 +		
POWER SUPPLY	Several driver models available giving you 3 dimming options: ELV, 0-10V or Pulse Width Modulation (PWM).		
LED MODULE	Bridgelux Vero 18, delivers a lumen maintenance greater than 70% after 50,000 hours of operation (L <sub>70</sub> ). Provides a high quality true color and a clean white light without hot spots. Binning within 3 steps on MacAdam ellipse. Surpasses ANSI binning requirements.		
HOT LUMENS (Determined by the choice of housing)	<b>Performance 1:</b> 875 lumens <b>Performance 2:</b> 1,225 lumens		
TRIM	Powder coated paint or plated die-formed steel.		
OPTIC SYSTEM	Protection lens covered with a high-performance film 98% effective. Lens of 1/8" (3 mm) thick and 1.9" (49 mm) Ø. <b>Lens:</b> Clear <b>Optical Reflector:</b> <b>M:</b> Narrow Flood → 35°		
HEAT SINK	High quality aluminum injected heat sink ensuring maximum heat dissipation.		
REFLECTOR	Painted Black <b>(02)</b>		
CEILING CUTOUT	Ø 4-1/4" (108 mm)		
COMPATIBLE HOUSINGS	<b>Remodel Housing</b>	<b>New Construction Housing</b>	<b>Insulated Housing</b>
(Trims work with either performance 1 and 2 housings.)	<b>Performance 1</b> (875 lumens)  <b>Performance 2</b> (1,225 lumens)	Not Available  Not Available	NWLD200LE1 NWLD200LD1 NWLD200LA1  NWLD200LE2 NWLD200LD2 NWLD200LA2
For dimming, please consult frequently our Web site to find our dimmer compatibility list: <a href="http://www.contrastlighting.com">www.contrastlighting.com</a>			
CERTIFICATION	cULus <b>E343977</b> for <b>damp locations</b>		
WARRANTY	1 year for standard finishes and 5 years on LED module.		



INT21PR-12BR (illustrated)



# CONTRASTE

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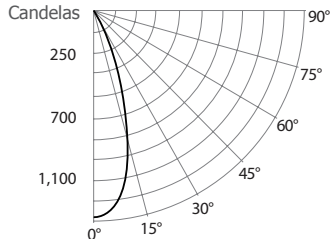
# INT21PR

## 4" Series

### PHOTOMETRIC DATA

#### 3,000K, 90 + of CRI, Narrow Flood with Performance 1 Housing

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	37.6	3.7
08'	21.2	4.9
10'	13.5	6.1
12'	9.4	7.4
14'	6.9	8.6
16'	5.3	9.8

Beam: 34°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 1 LED	3,000K	Narrow Flood
<b>CBCP / Lumens</b>	1,354	/ 546.1
<b>Watts</b>	120V	277V
	16W	16.5W
<b>Operating AMPS</b>	0.13A	0.059A
<b>Lumen Maintenance</b>	L70 @ 50,000 Hrs	
<b>CRI</b>	+ 90	
<b>Lumens/Watt</b>	34.1	
<b>Spacing Criteria</b>	0.58	

##### COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30		
Wall Reflect %	50	30	50	30	50	30	50	30	50
<b>RCR</b>	0	119	119	111	111	106	106	106	106
	2	100	96	95	91	92	89	89	89
	4	89	83	85	81	83	79	79	79
	6	80	75	78	73	76	72	72	72
	8	74	68	72	67	71	67	67	67
	10	68	63	67	63	66	62	62	62

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	428.3	78.4%
0-40	445.1	81.5%
0-60	479.2	87.7%
60-90	62	11.4%
0-180	546.1	100%

##### MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	26	0.71
6'	14	0.4
7'	10	0.28
8'	10	0.28
9'	6	0.18

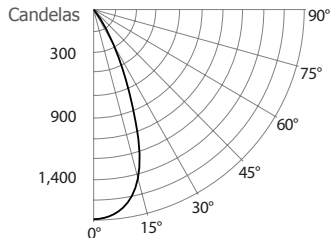
Local 38' x 38' x 10'. Workplan located 2-1/2' (30°).  
Reflection factor of 80%/50%/30%.

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	1,354	45	21
5	1,321	55	20
10	1,135	65	21
15	825	75	20
20	462	85	20
25	176	90	18
35	25		

#### 3,000K, 90 + of CRI, Narrow Flood with Performance 2 Housing

##### CANDLEPOWER DISTRIBUTION



##### LIGHT CONE

Distance	FC	DIA
06'	49.1	4.6
08'	27.6	6.1
10'	17.7	7.6
12'	12.3	9.1
14'	9.0	10.7
16'	6.9	12.2

Beam: 42°  
Beam Edge defined as 50% of Maximum Nadir Candle-power.

##### LUMINAIRE

Performance 2 LED	3,000K	Narrow Flood
<b>CBCP / Lumens</b>	1,767	/ 904.3
<b>Watts</b>	120V	277V
	23W	23.5W
<b>Operating AMPS</b>	0.19A	0.084A
<b>Lumen Maintenance</b>	L70 @ 50,000 Hrs	
<b>CRI</b>	+ 90	
<b>Lumens/Watt</b>	39.3	
<b>Spacing Criteria</b>	0.71	

##### COEFFICIENT OF UTILIZATION - %

Ceiling Reflect %	80			50			30		
Wall Reflect %	50	30	50	30	50	30	50	30	50
<b>RCR</b>	0	119	119	111	111	106	106	106	106
	2	100	96	95	92	92	89	89	89
	4	89	83	85	81	83	79	79	79
	6	80	74	77	73	76	72	72	72
	8	73	67	71	66	70	66	66	66
	10	67	62	66	61	65	61	61	61

Zonal Cavity Method  
Effective Floor Cavity Reflectance 20%

##### ZONAL LUMEN SUMMARY

ZONE	LUMENS	%LUMINAIRE
0-30	723.8	80%
0-40	753.3	83.3%
0-60	803.3	88.8%
60-90	93.7	10.4%
0-180	904.3	100%

##### MULTIPLE UNIT DATA - (RCR 2)

SPACING ON CENTER	INITIAL FOOTCANDLES	WATTS/SQ. FT.
5'	42	1.06
6'	24	0.6
7'	17	0.41
8'	17	0.41
9'	11	0.26

Local 38' x 38' x 10'. Workplan located 2-1/2' (30°).  
Reflection factor of 80%/50%/30%.

##### CANDELAS DISTRIBUTION

DEGREES/VERTICAL	CANDELAS	DEGREES/VERTICAL	CANDELAS
0	1,767	45	30
5	1,768	55	29
10	1,630	65	32
15	1,397	75	36
20	973	85	34
25	441	90	27
35	33		



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# INT21PR

4" Series

## INT21PR MODEL PHOTOMETRIC DATA

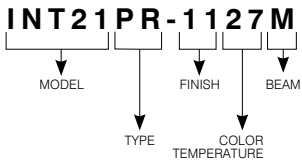
### With performance 1 housing

	Narrow Flood	
<b>2,700K with 90 CRI</b>	518 Lms	32 lm/W
<b>3,000K with 90 CRI</b>	546 Lms	34 lm/W
<b>3,500K with 90 CRI</b>	590 Lms	37 lm/W
<b>4,000K with 90 CRI</b>	590 Lms	37 lm/W

### With performance 2 housing

	Narrow Flood	
<b>2,700K with 90 CRI</b>	857 Lms	37 lm/W
<b>3,000K with 90 CRI</b>	904 Lms	39 lm/W
<b>3,500K with 90 CRI</b>	958 Lms	42 lm/W
<b>4,000K with 90 CRI</b>	976 Lms	42 lm/W

### CODIFICATION EXAMPLE



### ORDERING CODE

MODEL	TYPE	FINISH	COLOR TEMPERATURE	BEAM
<b>INT21</b>	<b>PR</b>			<b>M</b>
<b>INT21</b> Intermezzo Square	<b>PR</b> Fixed Pinhole	<b>-11</b> Matte White <b>-12BR</b> Brushed Nickel <b>-22</b> Matte Black	<b>27</b> 2,700K <b>30</b> 3,000K <b>35</b> 3,500K <b>40</b> 4,000K	<b>M</b> Narrow Flood (35°)

