

# RAN18L

## 18W Dimmable LED New Construction Concealed Adjustable Illumination

### Specifications/Features

#### Housing

New construction housings available in single lamp through four lamp models. Designed for installation into accessible and non-accessible ceilings. Heavy duty, 18-gauge steel housing; powder coat painted in matte black, white or silver. The fixture may be installed with the included white metal trim ring or trimless by finishing the ceiling to the edge of the luminaire. (Black trim available on special order. Consult Con-Tech to order as component parts.)

#### Trim

Steel, powder coat trim. Can be finished as a trimless installation. Adjustable lamp holders in black, white or silver. Aluminum cross blade louvers and retaining rings supplied with holder. Front loading lamp replacement and lockable aiming. (Small tool provided) Maximum aiming angles: 75° Length, 40° Width. Snoot will accept (1) LF20 lens.

#### Mounting

Wing type mounting brackets allow for 3-1/8" vertical adjustments. Brackets will accept optional HB-24 Flat Hanger Bars or HBC-24 "C" Channel Hangers.

#### Lamp

Low wattage, eco-friendly, LED fixture provides high lumen output with no infrared or ultraviolet radiation. (7) LEDs, 700mA constant current input; 18W/1200Lm total. Select from 11°, 25° and 35° beam distributions. Color Temperature: 2700K (2725 ± 145)  
3000K (3045 ± 175)  
3500K (3465 ± 245)

#### Electrical

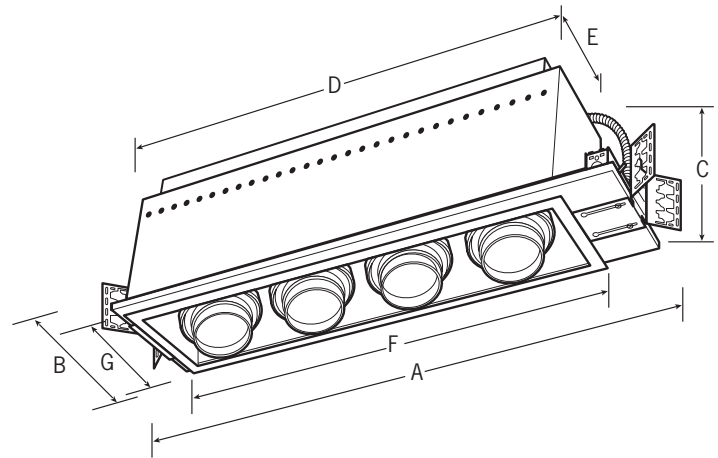
Electronic driver: 120V AC primary and 700mA secondary, 60Hz. Input current: 0.20A max. Approved for through wiring: max 12 AWG No. 8, 4-in, 4-out. Wire rating: 90° C, thermally protected. Junction box has (5) 1/2" knockouts.

#### Warranty

This complete fixture is covered by ConTech's full five (5) year replacement guarantee after date of purchase.

#### Listing

cCSAus Certified to UL Standards. Suitable for damp locations.



Model	Overall			Housing		Trim Edge = 1"		Ceiling Cut-Out		
	L (Min-Max *)	Width	Height	Length	Width	Length	Width	Length	Width	
	A	B	C	D	E	F	G			
<b>X1</b>	18.34"	20.84"	8.50"	9.75"	8.81"	7.10"	9.76"	8.50"	9.32"	7.25"
<b>X2</b>	25.43"	27.93"	8.50"	9.75"	15.90"	7.10"	16.85"	8.50"	16.41"	7.25"
<b>X3</b>	32.53"	35.03"	8.50"	9.75"	23.00"	7.10"	23.94"	8.50"	23.51"	7.25"
<b>X4</b>	39.53"	42.03"	8.50"	9.75"	30.00"	7.10"	31.00"	8.50"	30.51"	7.25"

\*Minimum and maximum extension (J-box or RL-KIT)

### Ordering Information

Example Order:  -

Fixture	Beam Dist.	Color Temp.	Electrical	Dimming	Lamps	Finish	Accessories
<b>RAN18L</b>	<b>S</b> - 11° Beam <b>M</b> - 25° Beam <b>F</b> - 35° Beam	<b>27</b> - 2700K <b>3</b> - 3000K <b>35</b> - 3500K	<b>12</b> - 120V <b>27</b> - 277V	<b>N</b> - No Dimming <b>D</b> - Triac Dimming <b>120V ONLY</b> <b>D2</b> - 0-10V Dimming <b>120V/277V</b>	<b>X1</b> - One <b>X2</b> - Two <b>X3</b> - Three <b>X4</b> - Four	<b>B</b> - Black <b>P</b> - White <b>S</b> - Silver	<b>HB-24</b> - 27" Flat Hanger Bars <b>HBC-24</b> - 25" C-Channel Hanger Bars <b>LA-37-(B,P)</b> - Eggcrate Louver* <b>LF20</b> - (A, B, CL, DPE, G, LB, R, RO, Y, 73, LS, SL, UV) 3-3/4" Dia. tempered glass lenses *Note: Replace lower snoot with LA-37 Eggcrate Louver

#### Color/Pattern Legend

-A (Amber), -B (Blue), -CL (Clear), -G (Green), -LB (Light Blue), -R (Red), -RO (Rose), -Y (Yellow), -73 (Spread Lens), -LS (Linear Spread Lens), -SL (Soft Light), -UV (Optivex UV Filter)

# RAN18L

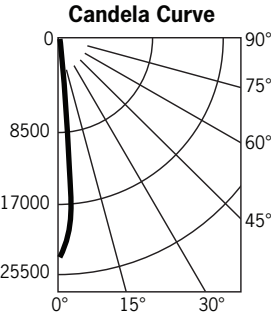
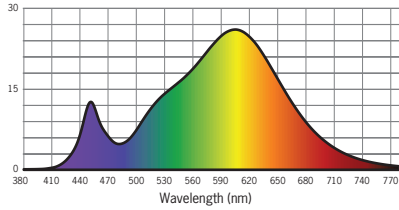
## 18W Dimmable LED New Construction Concealed Adjustable Illumination

### Photometrics

#### RAN18LS312X1

Designed for 50,000 Hour Lamp Life\*; LM-63Test No. 81023

Light Output (Fixture Lumens): 1061  
Total Watts@120V: 17  
Lumens Per Watt: 75  
Color Rendering Index (CRI)<sup>1</sup>: 83  
Color Temperature (CCT)<sup>2</sup>: 3003K Warm White  
Spectral Power Distribution Chart<sup>3</sup>  
LM-79 Test No. 81024



FROM 0	CANDELA	LUMENS
0	25413	979
5	15247	216
15	695	31
25	59	6
35	25	10
45	12	2
55	6	1
65	2	0
75	1	0
85	0	0
95	0	0

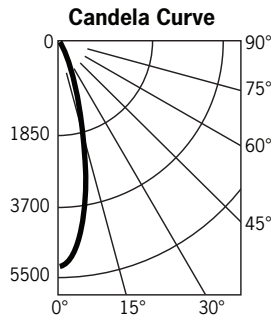
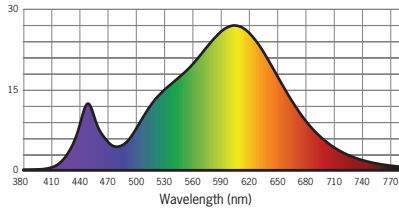
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	705.9	1.2
8'	397.1	1.6
10'	254.1	2.0
12'	176.5	2.4
14'	129.7	2.8
16'	99.3	3.2

Beam Distribution: 11°  
Spacing Criterion: 0.19

#### RAN18LM312X1

Designed for 50,000 Hour Lamp Life\*; LM-63Test No. 80828

Light Output (Fixture Lumens): 1319  
Total Watts@120V: 17  
Lumens Per Watt: 78  
Color Rendering Index (CRI)<sup>1</sup>: 82  
Color Temperature (CCT)<sup>2</sup>: 3022K Warm White  
Spectral Power Distribution Chart<sup>3</sup>  
LM-79 Test No. 80840



FROM 0	CANDELA	LUMENS
0	5452	420
5	4862	574
15	2099	227
25	454	58
35	82	23
45	29	12
55	13	3
65	3	1
75	1	1
85	1	1
95	0	0

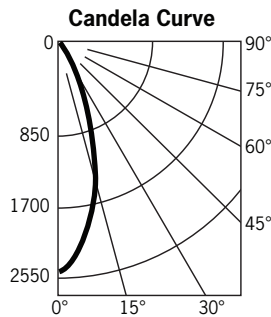
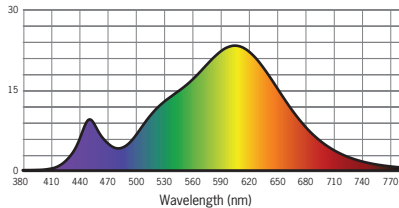
DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	151.4	2.5
8'	85.2	3.4
10'	54.5	4.2
12'	37.9	5.1
14'	27.8	5.9
16'	21.3	6.8

Beam Distribution: 25°  
Spacing Criterion: 0.42

#### RAN18LF312X1

Designed for 50,000 Hour Lamp Life\*; LM-63Test No. 80829

Light Output (Fixture Lumens): 1120  
Total Watts@120V: 17.5  
Lumens Per Watt: 64  
Color Rendering Index (CRI)<sup>1</sup>: 82  
Color Temperature (CCT)<sup>2</sup>: 2997K Warm White  
Spectral Power Distribution Chart<sup>3</sup>  
LM-79 Test No. 80841



FROM 0	CANDELA	LUMENS
0	2476	211
5	2328	409
15	1492	291
25	623	128
35	194	50
45	62	6
55	22	2
65	6	2
75	2	2
85	2	2
95	0	0

DISTANCE (FT.)	FOOTCANDLES (FC)	BEAM DIAMETER (FT.)
6'	68.8	3.4
8'	38.7	4.6
10'	24.8	5.7
12'	17.2	6.9
14'	12.6	8.0
16'	9.7	9.2

Beam Distribution: 35°  
Spacing Criterion: 0.57

1. Accuracy of rendering colors  
2. Color appearance of light source  
3. Colors present within the light source

\*Dependent on surrounding temperatures