

4DS tunable WHITE 4.5" Downlight – Square

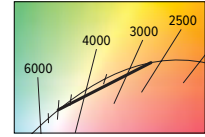
FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

| LED PACKAGE | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-------------|--------------|------------------|---------|-----------------|
| L11 | W | 965 | 14.6 | 66.3 |
| | M | 1065 | 14.6 | 73.2 |
| | N | 1088 | 14.6 | 74.8 |
| L20 | W | 1680 | 24.0 | 69.8 |
| | M | 1853 | 24.0 | 77.2 |
| | N | 1782 | 24.0 | 74.1 |

FLUSH LENS TRIM TYPE

| LED PACKAGE | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-------------|--------------|------------------|---------|-----------------|
| L11 | W | 1045 | 14.6 | 71.8 |
| | M | 1152 | 14.6 | 79.2 |
| | N | 1165 | 14.6 | 80.0 |
| L20 | W | 1820 | 24.0 | 75.8 |
| | M | 1973 | 24.0 | 82.2 |
| | N | 1908 | 24.0 | 79.5 |



REGRESSED LENS TRIM TYPE

| LED PACKAGE | DISTRIBUTION | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-------------|--------------|------------------|---------|-----------------|
| L11 | W | 1004 | 14.6 | 69.0 |
| | M | 1132 | 14.6 | 77.8 |
| | N | 1152 | 14.6 | 79.2 |
| L20 | W | 1749 | 24.0 | 72.7 |
| | M | 1945 | 24.0 | 81.0 |
| | N | 1887 | 24.0 | 78.5 |

MULTIPLIER TABLES

| COLOR TEMPERATURE | | |
|-------------------|--------|-------|
| CCT | LUMENS | WATTS |
| 2700K | 0.83 | 1.03 |
| 3000K | 1.00 | 1.00 |
| 3500K | 0.99 | 0.99 |
| 4000K | 1.00 | 1.00 |
| 5000K | 0.98 | 1.03 |

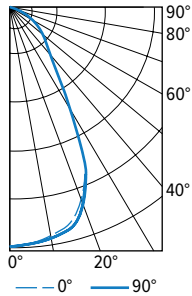
| OPEN REFLECTOR FINISH | | |
|-----------------------|---------------------|-------------------|
| CATALOG NUMBER | REFLECTOR FINISH | CONVERSION FACTOR |
| CS | Clear semi-specular | 1.00 |
| SG | Satin-glow | 0.92 |
| GD | Gold | 0.93 |
| CG | Champagne Gold | 0.96 |
| PW | Pewter | 0.86 |
| SPC | Specular | 1.02 |
| RG | Rose Gold | 0.88 |
| WH | White, textured | 0.89 |
| BL | Black, textured | 0.79 |

| TRIM | |
|----------------|-------------------|
| CATALOG NUMBER | CONVERSION FACTOR |
| AD | 0.85 |
| PD | 0.85 |

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 4000K, 80 CRI, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

PHOTOMETRY

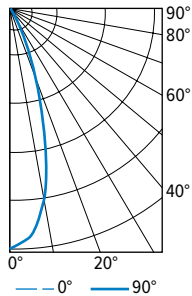
4DS-L20/8TW-DIM-UNV-LW-OF-WH Total Luminaire Output: 1820 lumens; 24 Watts | Efficacy: 75.8 lm/W | 80 CRI; 4051K CCT



| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
|--------------------------|----------------|------------------|------|------|--------------|
| | | 0° | 45° | 90° | |
| | 0 | 1354 | 1354 | 1354 | |
| | 5 | 1341 | 1341 | 1342 | 127 |
| | 15 | 1265 | 1283 | 1291 | 359 |
| | 25 | 982 | 1111 | 985 | 467 |
| | 35 | 444 | 676 | 436 | 343 |
| | 45 | 281 | 305 | 279 | 229 |
| | 55 | 170 | 175 | 169 | 157 |
| | 65 | 90 | 87 | 88 | 90 |
| | 75 | 37 | 36 | 37 | 40 |
| | 85 | 4 | 4 | 5 | 8 |
| | 90 | 0 | 0 | 0 | |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 30 | 954 | 52 |
| | 0 - 40 | 1296 | 71 |
| | 0 - 60 | 1682 | 92 |
| | 0 - 90 | 1820 | 100 |
| | 0 - 180 | 1820 | 100 |

4DS-L20/8TW-DIM-UNV-LM-OF-WH Total Luminaire Output: 1973 lumens; 24 Watts | Efficacy: 82.2 lm/W | 80 CRI; 4051K CCT



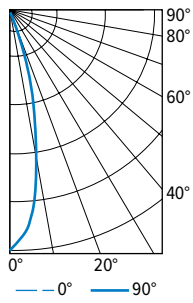
| CANDLEPOWER DISTRIBUTION | VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
|--------------------------|----------------|------------------|------|------|--------------|
| | | 0° | 45° | 90° | |
| | 0 | 5297 | 5297 | 5297 | |
| | 5 | 5104 | 5072 | 5048 | 461 |
| | 15 | 3059 | 3077 | 300 | 833 |
| | 25 | 830 | 865 | 750 | 420 |
| | 35 | 187 | 215 | 166 | 137 |
| | 45 | 67 | 74 | 63 | 56 |
| | 55 | 35 | 37 | 35 | 33 |
| | 65 | 22 | 21 | 22 | 21 |
| | 75 | 9 | 9 | 8 | 10 |
| | 85 | 2 | 1 | 2 | 2 |
| | 90 | 0 | 0 | 0 | |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 30 | 1714 | 87 |
| | 0 - 40 | 1851 | 94 |
| | 0 - 60 | 1941 | 98 |
| | 0 - 90 | 1973 | 100 |
| | 0 - 180 | 1973 | 100 |



4DS tunable WHITE 4.5" Downlight – Square

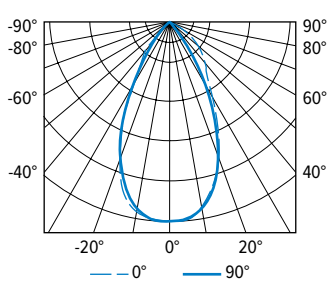
4DS-L20/8TW-DIM-UNV-LN-OF-WH Total Luminaire Output: 1908 lumens; 24 Watts | Efficacy: 79.5 lm/W | 80 CRI; 4051K CCT



| VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
|----------------|------------------|------|------|--------------|
| | 0° | 45° | 90° | |
| 0 | 7979 | 7979 | 7979 | |
| 5 | 7232 | 7111 | 7166 | 621 |
| 15 | 3001 | 2797 | 2681 | 818 |
| 25 | 630 | 552 | 487 | 299 |
| 35 | 132 | 124 | 102 | 85 |
| 45 | 49 | 52 | 44 | 39 |
| 55 | 27 | 27 | 25 | 24 |
| 65 | 15 | 14 | 14 | 15 |
| 75 | 8 | 7 | 7 | 7 |
| 85 | 0 | 0 | 0 | 1 |
| 90 | 0 | 0 | 0 | |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 30 | 1738 | 91 |
| | 0 - 40 | 1822 | 96 |
| | 0 - 60 | 1886 | 99 |
| | 0 - 90 | 1908 | 100 |
| | 0 - 180 | 1908 | 100 |

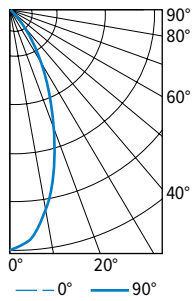
4DS-L20/8TW-DIM-UNV-OWW-OF-CS Total Luminaire Output: 1561 lumens; 24 Watts | Efficacy: 65.0 lm/W | 80 CRI; 4051K CCT



| VERTICAL ANGLE | HORIZONTAL ANGLE | | | | | ZONAL LUMENS |
|----------------|------------------|------|------|------|------|--------------|
| | 0° | 45° | 90° | 135° | 180° | |
| 0 | 1652 | 1652 | 1652 | 1652 | 1652 | |
| 5 | 1651 | 1643 | 1644 | 1645 | 1644 | 155 |
| 15 | 1408 | 1422 | 1416 | 1485 | 1475 | 400 |
| 25 | 962 | 1006 | 921 | 1049 | 930 | 444 |
| 35 | 550 | 514 | 363 | 499 | 426 | 301 |
| 45 | 403 | 237 | 119 | 171 | 159 | 161 |
| 55 | 243 | 75 | 17 | 27 | 19 | 66 |
| 65 | 147 | 16 | 0 | 0 | 0 | 26 |
| 75 | 50 | 0 | 0 | 0 | 0 | 8 |
| 85 | 0 | 0 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | 0 | 0 | |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 30 | 999 | 64 |
| | 0 - 40 | 1300 | 83 |
| | 0 - 60 | 1527 | 98 |
| | 0 - 90 | 1561 | 100 |
| | 0 - 180 | 1561 | 100 |

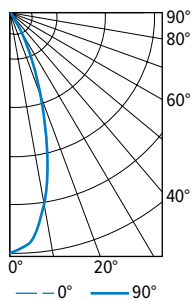
4DS-L20/8TW-DIM-UNV-OM-OF-CS Total Luminaire Output: 1853 lumens; 24 Watts | Efficacy: 77.2 lm/W | 80 CRI; 4051K CCT



| VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
|----------------|------------------|------|------|--------------|
| | 0° | 45° | 90° | |
| 0 | 3305 | 3305 | 3305 | |
| 5 | 3175 | 3142 | 3142 | 290 |
| 15 | 2293 | 2271 | 2267 | 630 |
| 25 | 1222 | 1210 | 1214 | 564 |
| 35 | 396 | 494 | 384 | 286 |
| 45 | 56 | 115 | 53 | 74 |
| 55 | 5 | 9 | 5 | 9 |
| 65 | 0 | 0 | 0 | 0 |
| 75 | 0 | 0 | 0 | 0 |
| 85 | 0 | 0 | 0 | 0 |
| 90 | 0 | 0 | 0 | |

| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 30 | 1484 | 80 |
| | 0 - 40 | 1771 | 96 |
| | 0 - 60 | 1853 | 100 |
| | 0 - 90 | 1853 | 100 |
| | 0 - 180 | 1853 | 100 |

4DS-L20/8TW-DIM-UNV-RM-OF-WH Total Luminaire Output: 1945 lumens; 24 Watts | Efficacy: 81 lm/W | 80 CRI; 4051K CCT



| VERTICAL ANGLE | HORIZONTAL ANGLE | | | ZONAL LUMENS |
|----------------|------------------|------|------|--------------|
| | 0° | 45° | 90° | |
| 0 | 5198 | 5198 | 5198 | |
| 5 | 5013 | 4955 | 4927 | 450 |
| 15 | 3055 | 3038 | 2977 | 825 |
| 25 | 826 | 883 | 844 | 434 |
| 35 | 165 | 223 | 183 | 140 |
| 45 | 53 | 69 | 55 | 51 |
| 55 | 30 | 31 | 28 | 27 |
| 65 | 15 | 14 | 15 | 14 |
| 75 | 4 | 3 | 3 | 4 |
| 85 | 0 | 0 | 0 | 1 |
| 90 | 0 | 0 | 0 | |

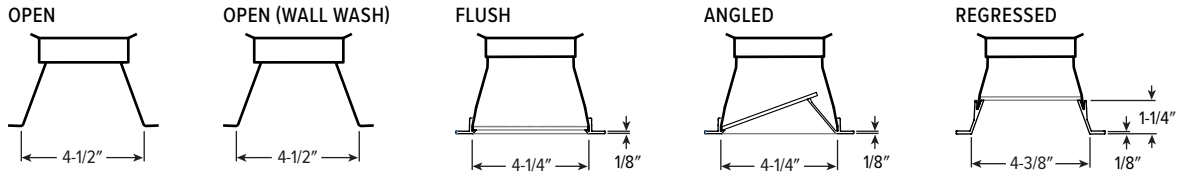
| LUMEN SUMMARY | ZONE | LUMENS | % FIXTURE |
|---------------|---------|--------|-----------|
| | 0 - 30 | 1709 | 88 |
| | 0 - 40 | 1849 | 95 |
| | 0 - 60 | 1927 | 99 |
| | 0 - 90 | 1945 | 100 |
| | 0 - 180 | 1945 | 100 |



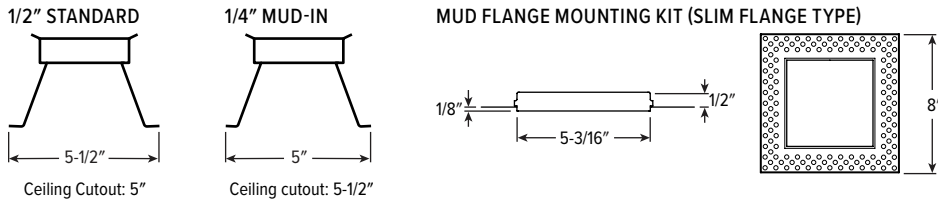
4DS tunable WHITE

4.5" Downlight – Square

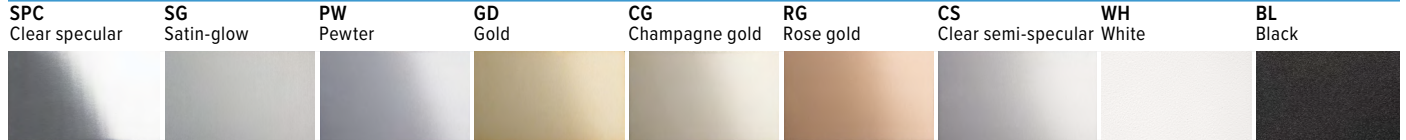
TRIM TYPE DETAILS



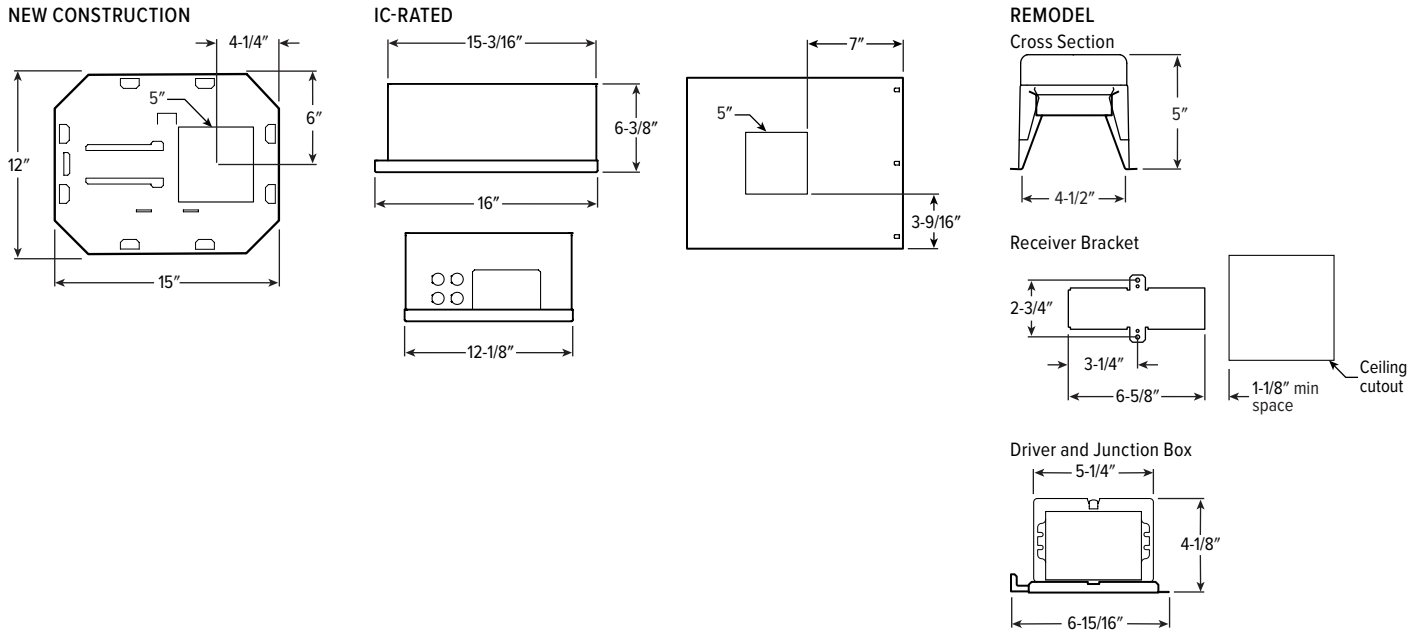
FLANGE TYPE DETAILS



REFLECTOR FINISH DETAILS



MOUNTING TYPE DETAILS



4DS tunable WHITE 4.5" Downlight – Square

CONTROL DETAILS

DIM



DALI



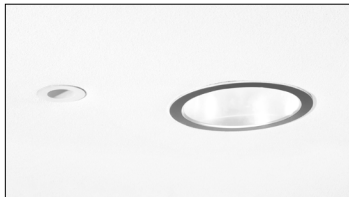
DMX



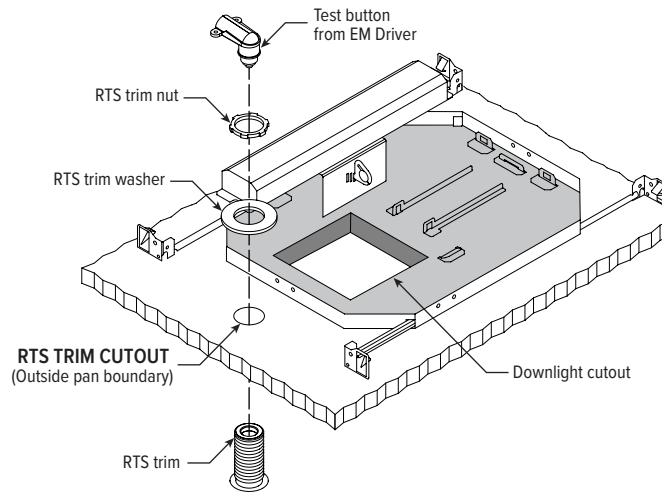
LUTRON T-SERIES



EM/10W/RTS DETAILS



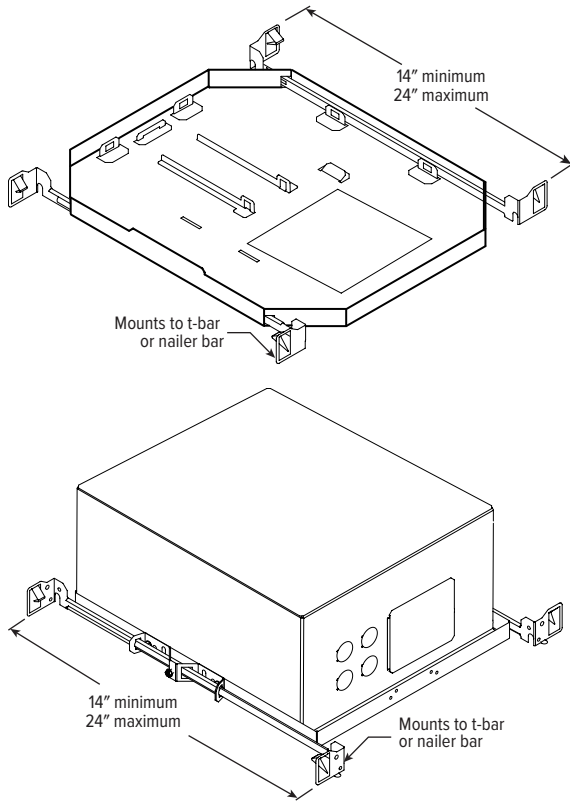
Shown Installed



4DS tunable WHITE 4.5" Downlight – Square

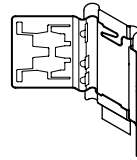
MOUNTING HARDWARE DETAILS

F1 Integral 2-position fixed pan bracket, universal bar hanger included

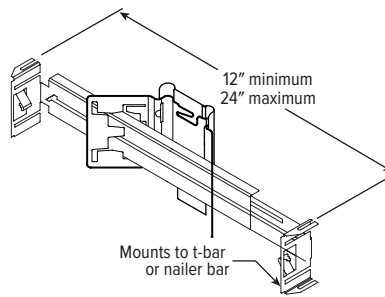


F1 with I Mounting Type

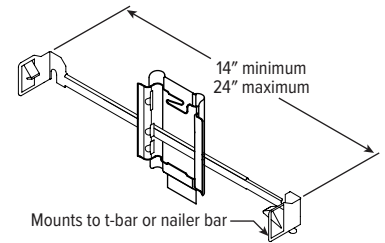
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included (N Mounting Type only)



CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)

