

# YFR1rm/20

## LOW-MID OUTPUT 1-HEAD ROUND REMODEL

PROJECT \_\_\_\_\_

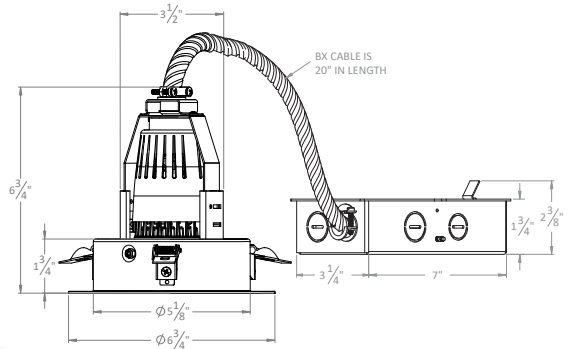
TYPE \_\_\_\_\_

SPECIFICATION \_\_\_\_\_

- Upgrade to modular Solais multiples without complicated re-installation
- 120 - 277 V standard
- 0-10, TRIAC and ELV dimming
- Emergency backup available
- Passively cooled fixtures
- 50,000 Hours (L70)
- UL Certified for dry locations
- RoHs-compliant
- Contains no lead or mercury
- Non-IC rated; insulation must be kept 3" from sides and 1" above housing
- \*MonoWhite color rendering enhancements available
- \*90+ High CRI available. To order, replace 'K' in CCT designation with 'h' in code below



- Modular Fixture Weight (w/out modules): 7.25 lb
- Ceiling Cut-Out:  $\varnothing$  6 1/4"



### Ordering Information

Example: YFR1rm/Ym20/25c/30K/1000/WH/WH/SL

| Fixture<br>YFR1rm | Module<br>Ym20 | Beam<br>Spread | CCT                         | Lumens | Options + Accessories  |
|-------------------|----------------|----------------|-----------------------------|--------|--|
|                   |                | 15c            | 22K - 2200K*                | 1000   | <b>Options + Accessories</b><br>Module Options<br>HL - Honeycomb Louver<br>SL - Linear Spread<br>SP - Prismatic Spread<br>More Accessories Available<br><br>Fixture Options<br>EM - Emergency Backup   |
|                   |                | 25c            | 25K - 2500K*                | 1400   |  |
|                   |                | 40c            | 27K - 2700K                 |        |  |
|                   |                | 60c            | 30K - 3000K                 |        |  |
|                   |                |                | 35K - 3500K*                |        |  |
|                   |                |                | 40K - 4000K*                |        |  |
|                   |                |                | <i>MonoWhite (90 CRI)</i>   |        |  |
|                   |                |                | 30m - 3000K                 |        |  |
|                   |                |                | 35m - 3500K*                |        |  |
|                   |                |                | <i>Dim-to-Warm (90 CRI)</i> |        |  |
|                   |                | 25c            | D27 - 2700K to 1800K        | 1200   | <b>Finish</b><br>Die-cast, Powder Coated<br>WH / WH - White Module, Interior + Flange<br>BK / BK - Black Module, Interior + Flange<br>BK / WH* - Black Module + Interior, White Flange<br>PW / PW* - Perfect White Module, Interior + Flange<br>BK / PW* - Black Module + Interior, Perfect White Flange |
|                   |                | 40c            |                             |        |  |

\*Consult factory for lead time and availability

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## LOW-MID OUTPUT

### 1-HEAD ROUND REMODEL

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SPECIFICATION

PHOTOMETRIC DETAILS | baseline X output multiplier X cri-cct multiplier = final output

Ym20 COB OPTIC: Baseline data shown below for 19 W, 1600 lumens, 80+ CRI , 3000K

#### Ym20/15c/30K/1600

Input Power: 19.0 W  
 Lumens: 1706 lm  
 Efficacy: 90 lm/W  
 CBCP: 15601  
 Beam Angle: 15.7°  
 Field Angle: 31.6°  
 Spacing Criteria: 0.27

| ∠   | 0°    | 45°   | 90°   |
|-----|-------|-------|-------|
| 0°  | 15423 | 15423 | 15423 |
| 5°  | 13235 | 11552 | 10525 |
| 10° | 5840  | 4430  | 3671  |
| 15° | 1892  | 1636  | 1542  |
| 20° | 868   | 718   | 645   |
| 25° | 370   | 308   | 286   |
| 30° | 187   | 156   | 155   |
| 35° | 108   | 89    | 91    |
| 40° | 80    | 75    | 71    |
| 45° | 75    | 71    | 61    |

#### Ym20/25c/30K/1600

Input Power: 19.1 W  
 Lumens: 1669 lm  
 Efficacy: 87 lm/W  
 CBCP: 7248  
 Beam Angle: 25.1°  
 Field Angle: 46.5°  
 Spacing Criteria: 0.45

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 7244 | 7244 | 7244 |
| 5°  | 6459 | 6400 | 6436 |
| 10° | 4534 | 4494 | 4597 |
| 15° | 2531 | 2521 | 2627 |
| 20° | 1138 | 1153 | 1225 |
| 25° | 465  | 473  | 524  |
| 30° | 208  | 210  | 241  |
| 35° | 103  | 104  | 120  |
| 40° | 50   | 51   | 58   |
| 45° | 25   | 25   | 29   |

#### Ym20/40c/30K/1600

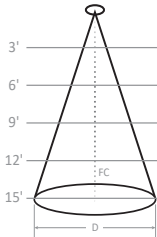
Input Power: 19.1 W  
 Lumens: 1619 lm  
 Efficacy: 85 lm/W  
 CBCP: 3539  
 Beam Angle: 36.2°  
 Field Angle: 66.7°  
 Spacing Criteria: 0.65

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3539 | 3539 | 3539 |
| 5°  | 3425 | 3421 | 3425 |
| 10° | 2967 | 2964 | 2983 |
| 15° | 2203 | 2205 | 2244 |
| 20° | 1440 | 1448 | 1488 |
| 25° | 850  | 855  | 890  |
| 30° | 485  | 488  | 510  |
| 35° | 271  | 269  | 283  |
| 40° | 142  | 139  | 151  |
| 45° | 73   | 72   | 79   |

#### Ym20/60c/30K/1600

Input Power: 17.5 W  
 Lumens: 1517 lm  
 Efficacy: 87 lm/W  
 CBCP: 1121  
 Beam Angle: 53.3°  
 Field Angle: 91.4°  
 Spacing Criteria: 1.00

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 1118 | 1118 | 1118 |
| 5°  | 1089 | 1085 | 1076 |
| 10° | 1030 | 1018 | 997  |
| 15° | 937  | 922  | 887  |
| 20° | 799  | 770  | 737  |
| 25° | 632  | 598  | 576  |
| 30° | 460  | 431  | 414  |
| 35° | 308  | 287  | 279  |
| 40° | 201  | 187  | 180  |
| 45° | 126  | 117  | 108  |



| Height | Ym20/15c/30K/1600 | Ym20/25c/30K/1600 | Ym20/40c/30K/1600 | Ym20/60c/30K/1600 |
|--------|-------------------|-------------------|-------------------|-------------------|
| 3'     | 0.82' D; 1200 FC  | 1.34' D; 563 FC   | 1.96' D; 275 FC   | 3.01' D; 87 FC    |
| 6'     | 1.65' D; 300 FC   | 2.67' D; 141 FC   | 3.92' D; 69 FC    | 6.02' D; 22 FC    |
| 9'     | 2.47' D; 133 FC   | 4.01' D; 63 FC    | 5.88' D; 31 FC    | 9.03' D; 10 FC    |
| 12'    | 3.30' D; 75 FC    | 5.34' D; 350 FC   | 7.84' D; 17 FC    | 12.04' D; 5 FC    |
| 15'    | 4.12' D; 48 FC    | 6.68' D; 23 FC    | 9.81' D; 11 FC    | 15.06' D; 4 FC    |

#### CRI-CCT MULTIPLIER

| CRI        | CCT   | Multiplier | CRI              | CCT   | Multiplier |
|------------|-------|------------|------------------|-------|------------|
| 8<br>(80+) | 2200K | 0.86       | H<br>(97+)       | 2700K | 0.66       |
|            | 2500K | 0.91       |                  | 3000K | 0.71       |
|            | 2700K | 0.96       |                  | 3500K | 0.75       |
|            | 3000K | 1.00       |                  | 4000K | 0.77       |
|            | 3500K | 1.03       | M<br>(MonoWhite) | 3000K | 0.86       |
|            | 4000K | 1.05       |                  | 3500K | 0.88       |
| 9<br>(90+) | 2200K | 0.70       |                  |       |            |
|            | 2500K | 0.77       |                  |       |            |
|            | 2700K | 0.83       |                  |       |            |
|            | 3000K | 0.86       |                  |       |            |
| 3500K      | 0.89  |            |                  |       |            |
| 4000K      | 0.91  |            |                  |       |            |

#### OUTPUT MULTIPLIER

| Package                              | Multiplier |
|--------------------------------------|------------|
| 13 W<br>1000 lm<br>Ym20<br>COB-optic | 0.65       |

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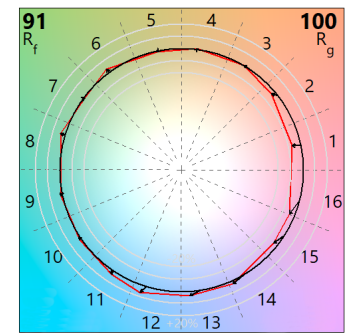
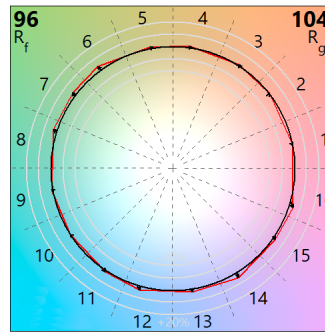
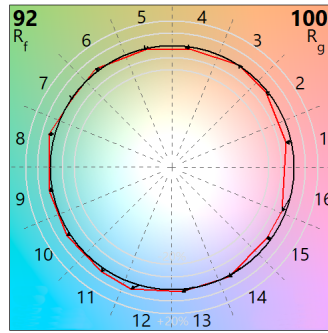
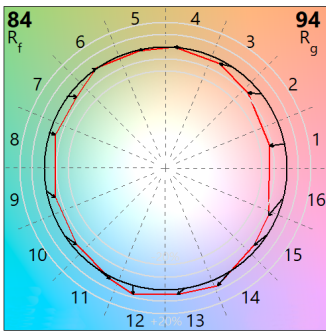
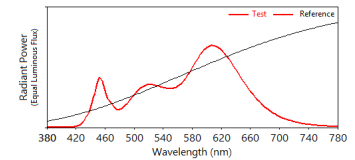
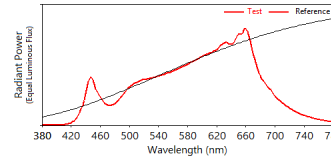
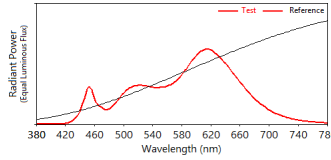
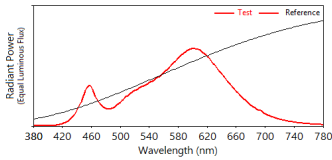
PROJECT

TYPE

SPECIFICATION

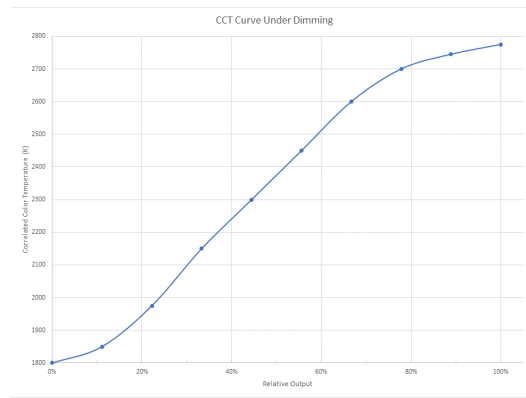
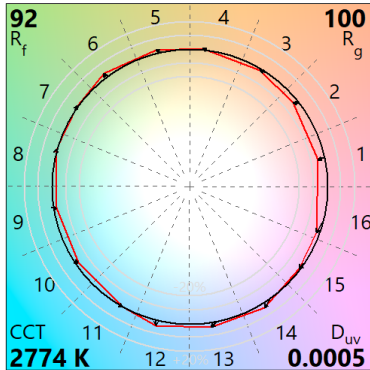
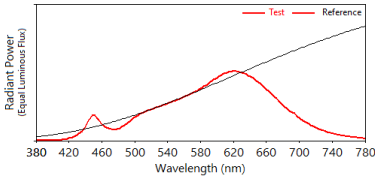
### TM30 COLOR REPORTS

- 3000K with 80+ CRI
  - $R_f = 84$ ;  $R_g = 94$
  - $R_A = 82$ ;  $R_9 = 11$
- 3000K with 90+ CRI
  - $R_f = 92$ ;  $R_g = 100$
  - $R_A = 93$ ;  $R_9 = 56$
- 3000K with 97+ CRI
  - $R_f = 96$ ;  $R_g = 104$
  - $R_A = 97$ ;  $R_9 = 98$
- 3000K with MonoWhite
  - $R_f = 91$ ;  $R_g = 100$
  - $R_A = 91$ ;  $R_9 = 42$



### DIM TO WARM DETAILS | Dim to warm only available with 25° and 40° beam spreads; 90+ CRI

- 2700K to 1800K with 90+ CRI
  - $R_f = 92$ ;  $R_g = 100$
  - $R_A = 93$ ;  $R_9 = 57$



#### Ym20/25c/30K/1000

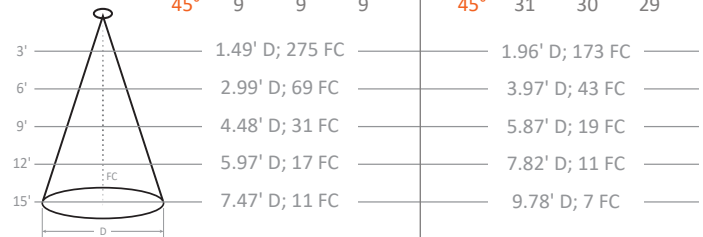
Input Power: 15.7 W  
Lumens: 1012 lm  
Efficacy: 65 lm/W  
CBCP: 3537  
Beam Angle: 28.0°  
Field Angle: 53.4°  
Spacing Criteria: 0.50

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 3530 | 3530 | 3530 |
| 5°  | 3328 | 3305 | 3281 |
| 10° | 2575 | 2546 | 2499 |
| 15° | 1630 | 1619 | 1592 |
| 20° | 894  | 890  | 874  |
| 25° | 441  | 435  | 433  |
| 30° | 222  | 216  | 217  |
| 35° | 106  | 102  | 100  |
| 40° | 43   | 40   | 40   |
| 45° | 9    | 9    | 9    |

#### Ym20/40c/30K/1000

Input Power: 15.6 W  
Lumens: 967 lm  
Efficacy: 62 lm/W  
CBCP: 2231  
Beam Angle: 36.1°  
Field Angle: 65.0°  
Spacing Criteria: 0.65

| ∠   | 0°   | 45°  | 90°  |
|-----|------|------|------|
| 0°  | 2225 | 2225 | 2225 |
| 5°  | 2148 | 2142 | 2128 |
| 10° | 1880 | 1850 | 1824 |
| 15° | 1434 | 1394 | 1366 |
| 20° | 953  | 920  | 896  |
| 25° | 563  | 540  | 527  |
| 30° | 310  | 296  | 290  |
| 35° | 157  | 152  | 149  |
| 40° | 75   | 72   | 70   |
| 45° | 31   | 30   | 29   |



**WARNING:** Not for use in fully enclosed luminaires. Risk of electric shock. Use in an indoor, dry location only. This device is not intended for use with emergency exit fixtures or emergency exit lights. May not be compatible with all dimmers; please visit [solais.com/dimming](http://solais.com/dimming) for up-to-date dimmer compatibility information.  
**NOTES:** This device complies with Part 15 of the FCC Rule. This product may cause interference with other devices. If interference occurs, change the locations of the products involved. **Compatible on 120v systems.**