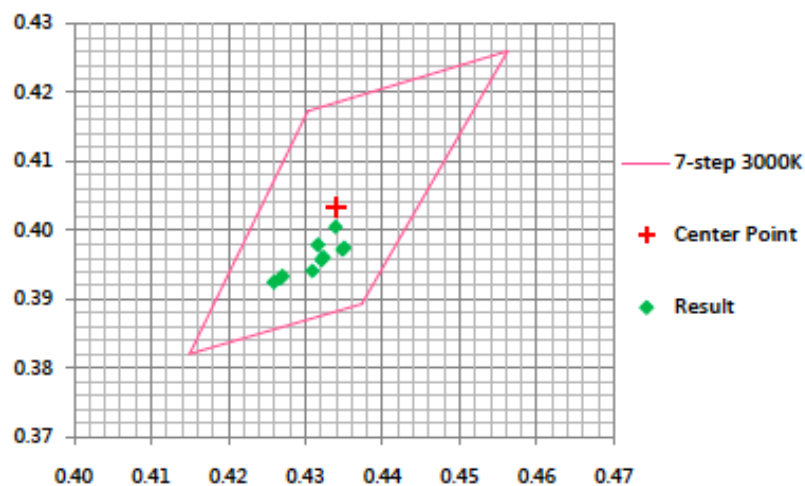


Company: RAB Lighting Inc.  
Model Name: PAR38-16-930-25D-DIM

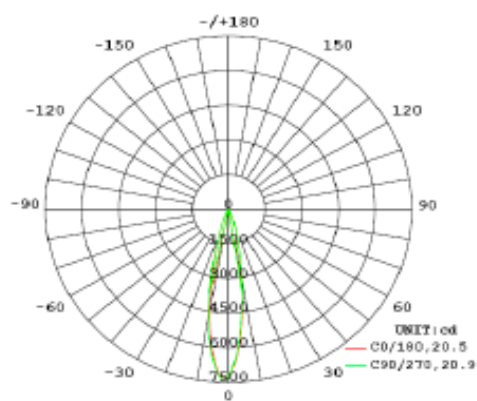
#### Initial Photometric and Electrical

| Model Name           | Voltage(V) | Current(A) | Power(W) | Power Factor | Luminous Flux(lm) | Efficacy(lm/W) | CCT(K)  |
|----------------------|------------|------------|----------|--------------|-------------------|----------------|---------|
| PAR38-16-930-25D-DIM | 120        | 0.1331     | 14.84    | 0.9295       | 1376.2            | 92.71          | 3098    |
|                      | Ra         | R9         | Rf       | Rg           | x                 | y              | Duv     |
|                      | 94.5       | 72         | 92       | 102          | 0.4259            | 0.3925         | -0.0031 |

#### 7-step chromaticity quadrangles per ANSI/ANSI C78.377-2015



#### Luminous Intensity Distribution Diagram



| Model Name           | Orientation | Beam Angle (Deg) | CBCP (cd) |
|----------------------|-------------|------------------|-----------|
| PAR38-16-930-25D-DIM | VBU         | 20.7             | 7491      |

# Zonal Lumen Density

| Deg  | Flux (lm) | %      | Deg   | Flux (lm) | %      |
|------|-----------|--------|-------|-----------|--------|
| 0-5  | 158.3     | 11.46  | 0-95  | 1381.6    | 100.00 |
| 0-10 | 505.3     | 36.57  | 0-100 | 1381.6    | 100.00 |
| 0-15 | 835.4     | 60.46  | 0-105 | 1381.6    | 100.00 |
| 0-20 | 1054.4    | 76.31  | 0-110 | 1381.6    | 100.00 |
| 0-25 | 1180.9    | 85.47  | 0-115 | 1381.6    | 100.00 |
| 0-30 | 1250.2    | 90.49  | 0-120 | 1381.6    | 100.00 |
| 0-35 | 1286.8    | 93.14  | 0-125 | 1381.6    | 100.00 |
| 0-40 | 1308.8    | 94.73  | 0-130 | 1381.6    | 100.00 |
| 0-45 | 1324.0    | 95.83  | 0-135 | 1381.6    | 100.00 |
| 0-50 | 1335.6    | 96.67  | 0-140 | 1381.6    | 100.00 |
| 0-55 | 1345.4    | 97.38  | 0-145 | 1381.6    | 100.00 |
| 0-60 | 1354.4    | 98.03  | 0-150 | 1381.6    | 100.00 |
| 0-65 | 1362.8    | 98.64  | 0-155 | 1381.6    | 100.00 |
| 0-70 | 1370.0    | 99.16  | 0-160 | 1381.6    | 100.00 |
| 0-75 | 1375.6    | 99.56  | 0-165 | 1381.6    | 100.00 |
| 0-80 | 1379.2    | 99.82  | 0-170 | 1381.6    | 100.00 |
| 0-85 | 1381.1    | 99.96  | 0-175 | 1381.6    | 100.00 |
| 0-90 | 1381.6    | 100.00 | 0-180 | 1381.6    | 100.00 |

| $\Phi$<br>θ | 0°     | 90°    | 180°   | 270°   |
|-------------|--------|--------|--------|--------|
| 0.0°        | 7225.4 | 7225.4 | 7225.4 | 7225.4 |
| 5.0°        | 6673.1 | 6790.0 | 5499.0 | 5311.9 |
| 10.0°       | 4438.2 | 4751.4 | 3124.3 | 3102.0 |
| 15.0°       | 2313.4 | 2551.7 | 1466.6 | 1473.7 |
| 20.0°       | 1056.8 | 1098.7 | 660.0  | 647.2  |
| 25.0°       | 495.1  | 528.1  | 288.9  | 299.8  |
| 30.0°       | 218.2  | 224.0  | 133.3  | 136.4  |
| 35.0°       | 102.4  | 102.8  | 69.3   | 69.2   |
| 40.0°       | 57.7   | 59.3   | 43.4   | 43.3   |
| 45.0°       | 36.9   | 37.0   | 30.2   | 29.9   |
| 50.0°       | 27.1   | 26.6   | 22.6   | 23.0   |
| 55.0°       | 22.3   | 21.7   | 19.0   | 19.6   |
| 60.0°       | 19.9   | 19.5   | 16.5   | 17.4   |
| 65.0°       | 17.7   | 17.0   | 13.9   | 14.7   |
| 70.0°       | 14.1   | 13.6   | 10.8   | 11.2   |
| 75.0°       | 9.8    | 9.8    | 7.5    | 7.5    |
| 80.0°       | 5.9    | 6.0    | 4.3    | 4.0    |
| 85.0°       | 2.5    | 2.6    | 1.4    | 1.3    |
| 90.0°       | 0.3    | 0.4    | 0.1    | 0.0    |
| 95.0°       | 0.0    | 0.0    | 0.0    | 0.0    |
| 100.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 105.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 110.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 115.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 120.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 125.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 130.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 135.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 140.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 145.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 150.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 155.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 160.0°      | 0.0    | 0.0    | 0.0    | 0.0    |
| 165.0°      | 0.1    | 0.1    | 0.0    | 0.0    |
| 170.0°      | 0.1    | 0.1    | 0.0    | 0.0    |
| 175.0°      | 0.1    | 0.1    | 0.0    | 0.0    |
| 180.0°      | 0.1    | 0.1    | 0.1    | 0.1    |

Average Weighted  
 $u': 0.2235$   $v': 0.5028$

| $\gamma \backslash C0-180$ | $u'$   | $v'$   | $Du'v'$ |
|----------------------------|--------|--------|---------|
| -20                        | 0.2229 | 0.5025 | 0.0007  |
| -15                        | 0.2229 | 0.5025 | 0.0007  |
| -10                        | 0.2232 | 0.5027 | 0.0003  |
| -5                         | 0.2235 | 0.5029 | 0.0001  |
| 0                          | 0.2240 | 0.5032 | 0.0006  |
| 5                          | 0.2242 | 0.5033 | 0.0009  |
| 10                         | 0.2241 | 0.5032 | 0.0007  |
| 15                         | 0.2240 | 0.5031 | 0.0006  |
| 20                         | 0.2241 | 0.5032 | 0.0007  |

| $\gamma \backslash C90-270$ | $u'$   | $v'$   | $Du'v'$ |
|-----------------------------|--------|--------|---------|
| -20                         | 0.2236 | 0.5034 | 0.0006  |
| -15                         | 0.2235 | 0.5033 | 0.0005  |
| -10                         | 0.2237 | 0.5032 | 0.0004  |
| -5                          | 0.2238 | 0.5032 | 0.0005  |
| 0                           | 0.2240 | 0.5032 | 0.0006  |
| 5                           | 0.2237 | 0.5028 | 0.0002  |
| 10                          | 0.2234 | 0.5025 | 0.0003  |
| 15                          | 0.2229 | 0.5020 | 0.0010  |
| 20                          | 0.2229 | 0.5020 | 0.0010  |