



VMU095034RD9TWA

7.83" ROUND DC MODULE, 950mA MAX CURRENT, CCT SELECTABLE

- CCT Selectable: 2700K, 3000K, 3500K, 4000K, 4500K, 5000K
- CRI90 standard
- Potassium Fluorosilicate (PFS) phosphor LEDs to achieve as high efficacy as today's CRI80 LEDs
- For use in UL Class 2 lighting systems
- Suitable for open or fully enclosed luminaires
- Suitable for luminaires with plastic and glass lenses
- Suitable for Energy Star and DLC applications
- Meets UL8750 recognized
- RoHS compliant

General Specifications

| | |
|---|---|
| Nominal Input Voltage @ Max. Input Current ^① | 36.3VDC |
| Max. Input Current ^① | 950mA |
| Nominal Input Power @ Max. Input Current ^① | 34.5W |
| Initial Lumens @ Max. Input Current, 4000K/90CRI | 5134 lumens |
| Initial Efficacy @ Max. Input Current, 4000K/90CRI | 149 lm/W |
| Beam Angle | 120° |
| Color Rendering Index | CRI (Ra) >=90 / R9 >=50 / TM-30 R _f >=85 / TM-30 R _g >=100 |
| Storage Temperature Range | -35°C to 100°C / -31°F to 212°F |
| Operating Temperature Range (ta) | -35°C to 60°C / -31°F to 140°F |
| Maximum Case Temperature (Tc) | Safety: 105°C(221°F) L70(>60Khrs): 105°C(221°F) L90(36Khrs): 96°C(204.8°F) |
| Estimated Lumen Maintenance ^② | L70= >60,000 hours @ Tc max 105°C L90= 36,000 hours @ Tc max 96°C |
| Color Consistency | Binning per ANSI C78.377-2015 @ 25°C; Typ. 3 SDCM, Max. 5 SDCM |
| Overall Size | 7.83" Dia. x 0.22" H (199mm Dia. x 5.6mm H) |
| PCB Material / Thermal Conductivity | CEM1 / 1.0W/mK |
| LED Quantity | 72pcs. CW + 72pcs. WW |
| Module Weight | 62g / 0.137lb |
| PCB Part Number | PTL007CxxC1 |
| Maximum Screw Installation Torque | 25 inch - ounces |
| Connector Type | Wago 2060-452 (2 pin connector) |
| Packaging: Master Carton | 20pcs. |
| Thermal Feedback | Not Available |
| Safety/Compliance | cURus (File # E351548) Suitable for UL Class 2 Lighting Systems RoHS Compliant Dry and Damp Location |
| Energy Efficiency Class per (EU) 2019/2015 | E, @max. input current |
| Warranty | 5 years @ Max. Tc from the date of manufacture |

^① Measured electrical data per UL file

^② TM-21 Reported Numbers

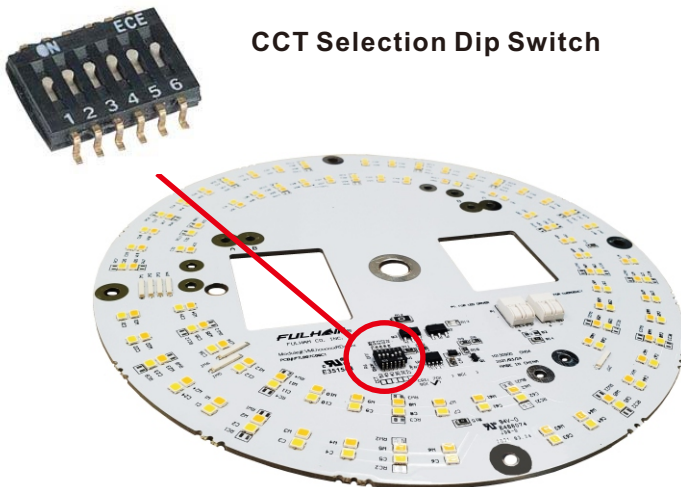


VMU095034RD9TWA

CCT Selection Indication

1. The VividHorse DC Engine Retrofit Kit is a dual-channel LED product, that allows for CCT selection via the dip switch on the PCB. Available CCTs include 2700K, 3000K, 3500K, 4000K, 4500K and 5000K.
2. A pre-set CCT will come from the factory. Check the product label or packaging to see the pre-set CCT level.
3. Change the dip switch position to “ON” (1~6) to set the desired CCT level; Mark the set CCT level on the retrofit kit warning label provided inside the accessory bag.

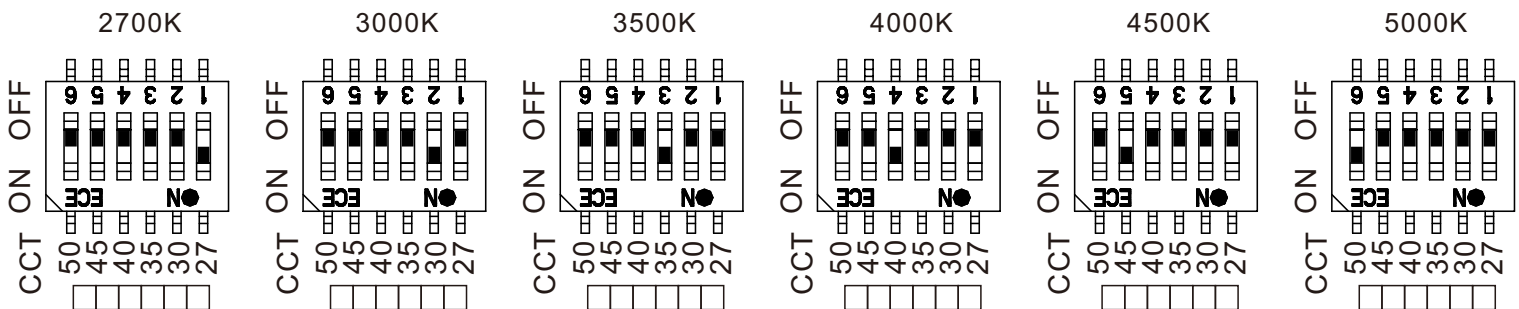
NOTE: ONLY keep one dip switch in the “ON” position, not doing so may result in an undesired CCT.



CCT Selection Dip Switch

CCT Indication Table

| | 1 | 2 | 3 | 4 | 5 | 6 |
|-------|-----|-----|-----|-----|-----|-----|
| 2700K | ON | OFF | OFF | OFF | OFF | OFF |
| 3000K | OFF | ON | OFF | OFF | OFF | OFF |
| 3500K | OFF | OFF | ON | OFF | OFF | OFF |
| 4000K | OFF | OFF | OFF | ON | OFF | OFF |
| 4500K | OFF | OFF | OFF | OFF | ON | OFF |
| 5000K | OFF | OFF | OFF | OFF | OFF | ON |



① Measured electrical data per UL file

② TM-21 Reported Numbers



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Electrical and Optical Specifications

2700K

| LED Module Part Number | Number of LED | Input Current | Nom. Forward Voltage | Nom. Rated Power | Max. Fwd. Voltage | Max. Rated Power | Nom. Lum. Flux @2700K/90 CRI | Nom. Efficacy @2700K/90 CRI |
|------------------------|---------------|---------------|----------------------|------------------|-------------------|------------------|------------------------------|-----------------------------|
| VMU095034RD9TWA | 72 WW + 72 CW | 100 mA | 32.1 V | 3.2 W | 34 V | 3 W | 546 lm | 170 lm/W |
| | | 150 mA | 32.4 V | 4.9 W | 35 V | 5 W | 866 lm | 178 lm/W |
| | | 200 mA | 32.7 V | 6.5 W | 35 V | 7 W | 1179 lm | 180 lm/W |
| | | 250 mA | 33.1 V | 8.3 W | 35 V | 9 W | 1484 lm | 180 lm/W |
| | | 300 mA | 33.4 V | 10.0 W | 36 V | 11 W | 1781 lm | 178 lm/W |
| | | 350 mA | 33.6 V | 11.8 W | 36 V | 13 W | 2072 lm | 176 lm/W |
| | | 400 mA | 33.9 V | 13.6 W | 36 V | 14 W | 2355 lm | 174 lm/W |
| | | 450 mA | 34.2 V | 15.4 W | 37 V | 17 W | 2632 lm | 171 lm/W |
| | | 500 mA | 34.4 V | 17.2 W | 37 V | 19 W | 2901 lm | 169 lm/W |
| | | 550 mA | 34.6 V | 19.1 W | 37 V | 20 W | 3163 lm | 166 lm/W |
| | | 600 mA | 34.9 V | 20.9 W | 37 V | 22 W | 3417 lm | 163 lm/W |
| | | 650 mA | 35.1 V | 22.8 W | 38 V | 25 W | 3665 lm | 161 lm/W |
| | | 700 mA | 35.3 V | 24.7 W | 38 V | 27 W | 3906 lm | 158 lm/W |
| | | 750 mA | 35.5 V | 26.6 W | 38 V | 29 W | 4140 lm | 155 lm/W |
| | | 800 mA | 35.7 V | 28.6 W | 38 V | 30 W | 4367 lm | 153 lm/W |
| | | 850 mA | 35.9 V | 30.5 W | 38 V | 32 W | 4587 lm | 150 lm/W |
| | | 900 mA | 36.1 V | 32.5 W | 39 V | 35 W | 4800 lm | 148 lm/W |
| 950 mA | 36.3 V | 34.5 W | 39 V | 37 W | 5006 lm | 145 lm/W | | |

3000K

| LED Module Part Number | Number of LED | Input Current | Nom. Forward Voltage | Nom. Rated Power | Max. Fwd. Voltage | Max. Rated Power | Nom. Lum. Flux @3000K/90 CRI | Nom. Efficacy @3000K/90 CRI |
|------------------------|---------------|---------------|----------------------|------------------|-------------------|------------------|------------------------------|-----------------------------|
| VMU095034RD9TWA | 72 WW + 72 CW | 100 mA | 32.1 V | 3.2 W | 34 V | 3 W | 551 lm | 172 lm/W |
| | | 150 mA | 32.4 V | 4.9 W | 35 V | 5 W | 874 lm | 180 lm/W |
| | | 200 mA | 32.7 V | 6.5 W | 35 V | 7 W | 1189 lm | 181 lm/W |
| | | 250 mA | 33.1 V | 8.3 W | 35 V | 9 W | 1497 lm | 181 lm/W |
| | | 300 mA | 33.4 V | 10.0 W | 36 V | 11 W | 1797 lm | 180 lm/W |
| | | 350 mA | 33.6 V | 11.8 W | 36 V | 13 W | 2090 lm | 178 lm/W |
| | | 400 mA | 33.9 V | 13.6 W | 36 V | 14 W | 2376 lm | 175 lm/W |
| | | 450 mA | 34.2 V | 15.4 W | 37 V | 17 W | 2654 lm | 173 lm/W |
| | | 500 mA | 34.4 V | 17.2 W | 37 V | 19 W | 2926 lm | 170 lm/W |
| | | 550 mA | 34.6 V | 19.1 W | 37 V | 20 W | 3190 lm | 167 lm/W |
| | | 600 mA | 34.9 V | 20.9 W | 37 V | 22 W | 3447 lm | 165 lm/W |
| | | 650 mA | 35.1 V | 22.8 W | 38 V | 25 W | 3697 lm | 162 lm/W |
| | | 700 mA | 35.3 V | 24.7 W | 38 V | 27 W | 3940 lm | 159 lm/W |
| | | 750 mA | 35.5 V | 26.6 W | 38 V | 29 W | 4176 lm | 157 lm/W |
| | | 800 mA | 35.7 V | 28.6 W | 38 V | 30 W | 4404 lm | 154 lm/W |
| | | 850 mA | 35.9 V | 30.5 W | 38 V | 32 W | 4626 lm | 152 lm/W |
| | | 900 mA | 36.1 V | 32.5 W | 39 V | 35 W | 4841 lm | 149 lm/W |
| 950 mA | 36.3 V | 34.5 W | 39 V | 37 W | 5049 lm | 146 lm/W | | |



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Electrical and Optical Specifications

3500K

| LED Module Part Number | Number of LED | Input Current | Nom. Forward Voltage | Nom. Rated Power | Max. Fwd. Voltage | Max. Rated Power | Nom. Lum. Flux @3500K/90 CRI | Nom. Efficacy @3500K/90 CRI |
|------------------------|---------------|---------------|----------------------|------------------|-------------------|------------------|------------------------------|-----------------------------|
| VMU095034RD9TWA | 72 WW + 72 CW | 100 mA | 32.1 V | 3.2 W | 34 V | 3 W | 556 lm | 173 lm/W |
| | | 150 mA | 32.4 V | 4.9 W | 35 V | 5 W | 881 lm | 181 lm/W |
| | | 200 mA | 32.7 V | 6.5 W | 35 V | 7 W | 1199 lm | 183 lm/W |
| | | 250 mA | 33.1 V | 8.3 W | 35 V | 9 W | 1509 lm | 183 lm/W |
| | | 300 mA | 33.4 V | 10.0 W | 36 V | 11 W | 1812 lm | 181 lm/W |
| | | 350 mA | 33.6 V | 11.8 W | 36 V | 13 W | 2108 lm | 179 lm/W |
| | | 400 mA | 33.9 V | 13.6 W | 36 V | 14 W | 2396 lm | 177 lm/W |
| | | 450 mA | 34.2 V | 15.4 W | 37 V | 17 W | 2677 lm | 174 lm/W |
| | | 500 mA | 34.4 V | 17.2 W | 37 V | 19 W | 2951 lm | 172 lm/W |
| | | 550 mA | 34.6 V | 19.1 W | 37 V | 20 W | 3217 lm | 169 lm/W |
| | | 600 mA | 34.9 V | 20.9 W | 37 V | 22 W | 3477 lm | 166 lm/W |
| | | 650 mA | 35.1 V | 22.8 W | 38 V | 25 W | 3729 lm | 163 lm/W |
| | | 700 mA | 35.3 V | 24.7 W | 38 V | 27 W | 3974 lm | 161 lm/W |
| | | 750 mA | 35.5 V | 26.6 W | 38 V | 29 W | 4211 lm | 158 lm/W |
| | | 800 mA | 35.7 V | 28.6 W | 38 V | 30 W | 4442 lm | 155 lm/W |
| | | 850 mA | 35.9 V | 30.5 W | 38 V | 32 W | 4666 lm | 153 lm/W |
| 900 mA | 36.1 V | 32.5 W | 39 V | 35 W | 4883 lm | 150 lm/W | | |
| 950 mA | 36.3 V | 34.5 W | 39 V | 37 W | 5092 lm | 148 lm/W | | |

4000K

| LED Module Part Number | Number of LED | Input Current | Nom. Forward Voltage | Nom. Rated Power | Max. Fwd. Voltage | Max. Rated Power | Nom. Lum. Flux @4000K/90 CRI | Nom. Efficacy @4000K/90 CRI |
|------------------------|---------------|---------------|----------------------|------------------|-------------------|------------------|------------------------------|-----------------------------|
| VMU095034RD9TWA | 72 WW + 72 CW | 100 mA | 32.1 V | 3.2 W | 34 V | 3 W | 560 lm | 175 lm/W |
| | | 150 mA | 32.4 V | 4.9 W | 35 V | 5 W | 888 lm | 183 lm/W |
| | | 200 mA | 32.7 V | 6.5 W | 35 V | 7 W | 1209 lm | 185 lm/W |
| | | 250 mA | 33.1 V | 8.3 W | 35 V | 9 W | 1522 lm | 184 lm/W |
| | | 300 mA | 33.4 V | 10.0 W | 36 V | 11 W | 1827 lm | 183 lm/W |
| | | 350 mA | 33.6 V | 11.8 W | 36 V | 13 W | 2125 lm | 181 lm/W |
| | | 400 mA | 33.9 V | 13.6 W | 36 V | 14 W | 2416 lm | 178 lm/W |
| | | 450 mA | 34.2 V | 15.4 W | 37 V | 17 W | 2699 lm | 176 lm/W |
| | | 500 mA | 34.4 V | 17.2 W | 37 V | 19 W | 2975 lm | 173 lm/W |
| | | 550 mA | 34.6 V | 19.1 W | 37 V | 20 W | 3243 lm | 170 lm/W |
| | | 600 mA | 34.9 V | 20.9 W | 37 V | 22 W | 3505 lm | 168 lm/W |
| | | 650 mA | 35.1 V | 22.8 W | 38 V | 25 W | 3759 lm | 165 lm/W |
| | | 700 mA | 35.3 V | 24.7 W | 38 V | 27 W | 4006 lm | 162 lm/W |
| | | 750 mA | 35.5 V | 26.6 W | 38 V | 29 W | 4246 lm | 159 lm/W |
| | | 800 mA | 35.7 V | 28.6 W | 38 V | 30 W | 4478 lm | 157 lm/W |
| | | 850 mA | 35.9 V | 30.5 W | 38 V | 32 W | 4704 lm | 154 lm/W |
| 900 mA | 36.1 V | 32.5 W | 39 V | 35 W | 4922 lm | 151 lm/W | | |
| 950 mA | 36.3 V | 34.5 W | 39 V | 37 W | 5134 lm | 149 lm/W | | |



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Electrical and Optical Specifications

4500K

| LED Module Part Number | Number of LED | Input Current | Nom. Forward Voltage | Nom. Rated Power | Max. Fwd. Voltage | Max. Rated Power | Nom. Lum. Flux @4500K/90 CRI | Nom. Efficacy @4500K/90 CRI |
|------------------------|---------------|---------------|----------------------|------------------|-------------------|------------------|------------------------------|-----------------------------|
| VMU095034RD9TWA | 72 WW + 72 CW | 100 mA | 32.1 V | 3.2 W | 34 V | 3 W | 564 lm | 176 lm/W |
| | | 150 mA | 32.4 V | 4.9 W | 35 V | 5 W | 894 lm | 184 lm/W |
| | | 200 mA | 32.7 V | 6.5 W | 35 V | 7 W | 1217 lm | 186 lm/W |
| | | 250 mA | 33.1 V | 8.3 W | 35 V | 9 W | 1531 lm | 185 lm/W |
| | | 300 mA | 33.4 V | 10.0 W | 36 V | 11 W | 1839 lm | 184 lm/W |
| | | 350 mA | 33.6 V | 11.8 W | 36 V | 13 W | 2139 lm | 182 lm/W |
| | | 400 mA | 33.9 V | 13.6 W | 36 V | 14 W | 2431 lm | 179 lm/W |
| | | 450 mA | 34.2 V | 15.4 W | 37 V | 17 W | 2716 lm | 177 lm/W |
| | | 500 mA | 34.4 V | 17.2 W | 37 V | 19 W | 2994 lm | 174 lm/W |
| | | 550 mA | 34.6 V | 19.1 W | 37 V | 20 W | 3264 lm | 171 lm/W |
| | | 600 mA | 34.9 V | 20.9 W | 37 V | 22 W | 3527 lm | 169 lm/W |
| | | 650 mA | 35.1 V | 22.8 W | 38 V | 25 W | 3783 lm | 166 lm/W |
| | | 700 mA | 35.3 V | 24.7 W | 38 V | 27 W | 4032 lm | 163 lm/W |
| | | 750 mA | 35.5 V | 26.6 W | 38 V | 29 W | 4273 lm | 160 lm/W |
| | | 800 mA | 35.7 V | 28.6 W | 38 V | 30 W | 4507 lm | 158 lm/W |
| | | 850 mA | 35.9 V | 30.5 W | 38 V | 32 W | 4734 lm | 155 lm/W |
| 900 mA | 36.1 V | 32.5 W | 39 V | 35 W | 4954 lm | 152 lm/W | | |
| 950 mA | 36.3 V | 34.5 W | 39 V | 37 W | 5167 lm | 150 lm/W | | |

5000K

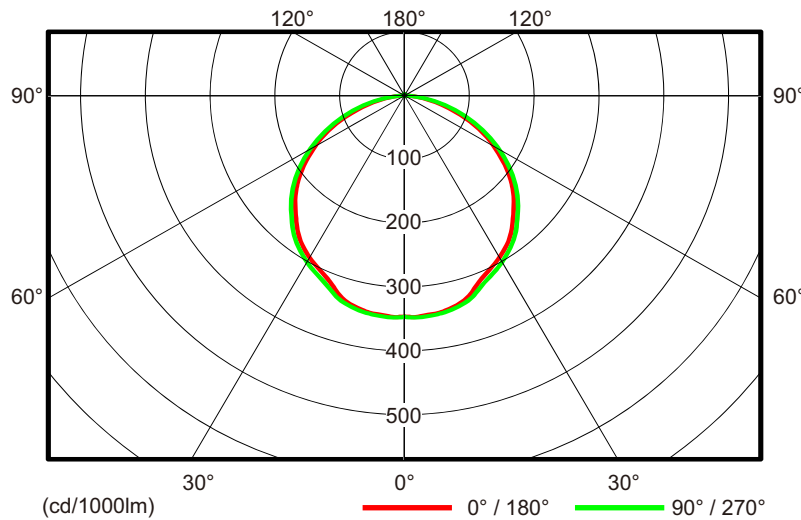
| LED Module Part Number | Number of LED | Input Current | Nom. Forward Voltage | Nom. Rated Power | Max. Fwd. Voltage | Max. Rated Power | Nom. Lum. Flux @5000K/90 CRI | Nom. Efficacy @5000K/90 CRI |
|------------------------|---------------|---------------|----------------------|------------------|-------------------|------------------|------------------------------|-----------------------------|
| VMU095034RD9TWA | 72 WW + 72 CW | 100 mA | 32.1 V | 3.2 W | 34 V | 3 W | 567 lm | 177 lm/W |
| | | 150 mA | 32.4 V | 4.9 W | 35 V | 5 W | 899 lm | 185 lm/W |
| | | 200 mA | 32.7 V | 6.5 W | 35 V | 7 W | 1223 lm | 187 lm/W |
| | | 250 mA | 33.1 V | 8.3 W | 35 V | 9 W | 1539 lm | 186 lm/W |
| | | 300 mA | 33.4 V | 10.0 W | 36 V | 11 W | 1848 lm | 185 lm/W |
| | | 350 mA | 33.6 V | 11.8 W | 36 V | 13 W | 2150 lm | 183 lm/W |
| | | 400 mA | 33.9 V | 13.6 W | 36 V | 14 W | 2444 lm | 180 lm/W |
| | | 450 mA | 34.2 V | 15.4 W | 37 V | 17 W | 2731 lm | 178 lm/W |
| | | 500 mA | 34.4 V | 17.2 W | 37 V | 19 W | 3010 lm | 175 lm/W |
| | | 550 mA | 34.6 V | 19.1 W | 37 V | 20 W | 3281 lm | 172 lm/W |
| | | 600 mA | 34.9 V | 20.9 W | 37 V | 22 W | 3546 lm | 169 lm/W |
| | | 650 mA | 35.1 V | 22.8 W | 38 V | 25 W | 3803 lm | 167 lm/W |
| | | 700 mA | 35.3 V | 24.7 W | 38 V | 27 W | 4053 lm | 164 lm/W |
| | | 750 mA | 35.5 V | 26.6 W | 38 V | 29 W | 4295 lm | 161 lm/W |
| | | 800 mA | 35.7 V | 28.6 W | 38 V | 30 W | 4531 lm | 159 lm/W |
| | | 850 mA | 35.9 V | 30.5 W | 38 V | 32 W | 4759 lm | 156 lm/W |
| 900 mA | 36.1 V | 32.5 W | 39 V | 35 W | 4980 lm | 153 lm/W | | |
| 950 mA | 36.3 V | 34.5 W | 39 V | 37 W | 5194 lm | 151 lm/W | | |



VMU095034RD9TWA

Light Distribution

| Zone | Zone Flux | Zone Flux% | Sum Zone Flux | Sum Zone Flux% |
|----------|-----------|------------|---------------|----------------|
| 0 ~ 10 | 117.4 | 3.3% | 117.4 | 3.3% |
| 10 ~ 20 | 339.6 | 9.5% | 457.0 | 12.7% |
| 20 ~ 30 | 514.7 | 14.4% | 971.7 | 27.1% |
| 30 ~ 40 | 629.1 | 17.5% | 1600.8 | 44.6% |
| 40 ~ 50 | 645.3 | 18.0% | 2246.1 | 62.6% |
| 50 ~ 60 | 576.0 | 16.1% | 2822.1 | 78.7% |
| 60 ~ 70 | 425.7 | 11.9% | 3247.8 | 90.6% |
| 70 ~ 80 | 235.0 | 6.6% | 3482.8 | 97.1% |
| 80 ~ 90 | 69.0 | 1.9% | 3551.8 | 99.0% |
| 90 ~ 180 | 34.3 | 1.0% | 3586.1 | 100.0% |



NOTES:

- 1) Performance data (pg. 3~5) based on Tc mod = 25°C. See thermal de-rating chart (pg. 7) for higher temperature operation.
- 2) Zone Flux and light distribution data (pg. 6) based on Input Current 700mA, 2700K sample, thermal stable (Ts_LED ~ 80°C).
- 3) Specifications are subject to change without notice.
- 4) The LED DC Module can be configured with different LED chip quantities, series and parallel design configurations to meet a specific design requirement. Contact Fulham for further assistance.
- 5) Modules need to be operated at a current less than the max. 950mA, below the Tc rating.
- 6) 90CRI standard.



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Thermal Specifications

DC Module

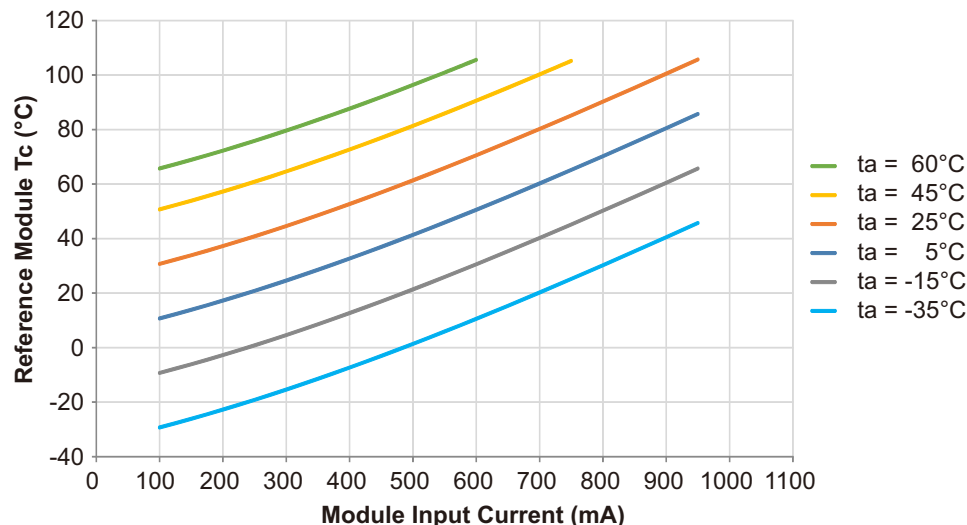
| | |
|--|---|
| Storage Temperature Range | -35 to 100°C / -31 to 212°F |
| Operating Ambient Temperature Range (ta) | -35 to 60°C / -31 to 140°F |
| Maximum Case Temperature (Tc) | Safety: 105°C(221°F) / L70(>60Khrs): 85°C(221°F) / L90(36Khrs): 96°C(204.8°F) |

Thermal De-Rating

Module Tc vs. Luminous Flux vs. Forward Voltage

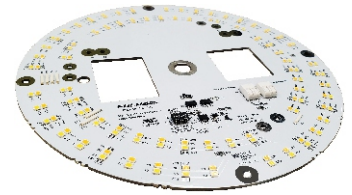
| Module Case Temperature (Tc) | Total Vf Multiplier | Luminous Flux Multiplier |
|------------------------------|---------------------|--------------------------|
| 25°C | 1.000 | 1.000 |
| 30°C | 0.998 | 0.992 |
| 35°C | 0.995 | 0.984 |
| 40°C | 0.993 | 0.976 |
| 45°C | 0.990 | 0.967 |
| 50°C | 0.988 | 0.958 |
| 55°C | 0.986 | 0.949 |
| 60°C | 0.984 | 0.940 |
| 65°C | 0.982 | 0.931 |
| 70°C | 0.980 | 0.922 |
| 75°C | 0.978 | 0.913 |
| 80°C | 0.977 | 0.904 |
| 85°C | 0.976 | 0.895 |
| 90°C | 0.974 | 0.886 |
| 95°C | 0.973 | 0.877 |
| 100°C | 0.971 | 0.867 |
| 105°C | 0.969 | 0.858 |

Module Tc vs. Ambient (ta) vs. Module Input Current (mA)



Note:

Chart "Module Tc vs. Ambient (ta) vs. Module Input Current (mA)" for reference only in an open ambient. The performance with in a luminaire will vary depending on the size and material of luminaire.



VMU095034RD9TWA

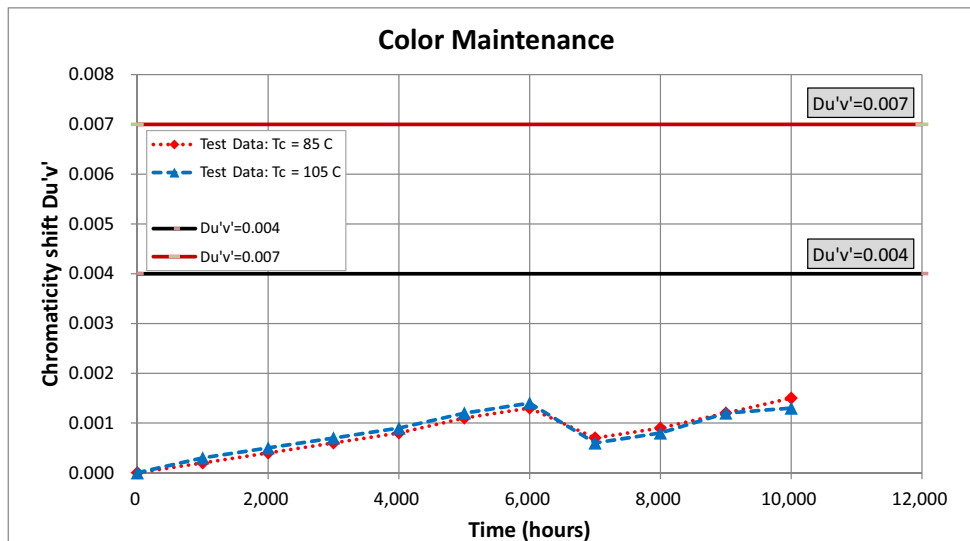
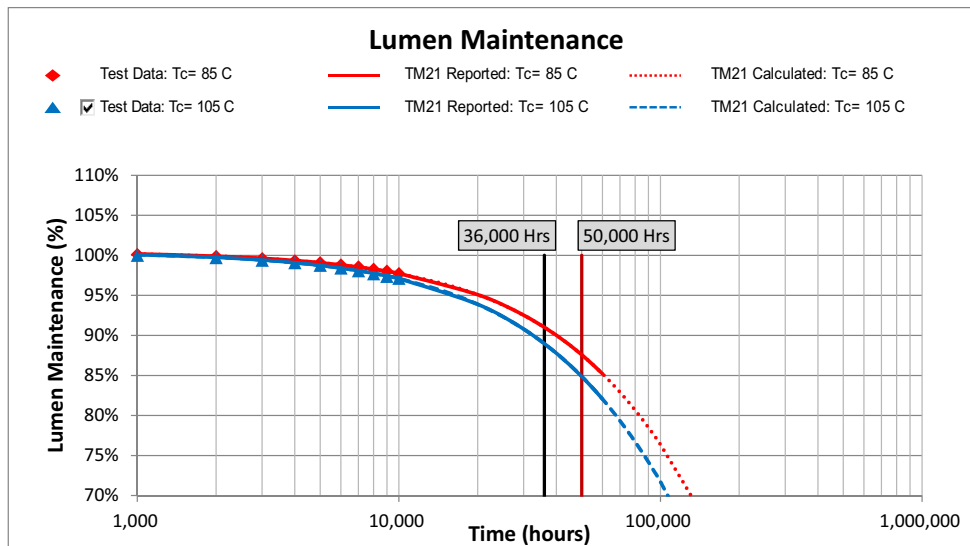
Certification Chart

| Classification | Model | VMU095034RD9TWA |
|--|-------|-----------------|
| | | YES |
| | | YES |
| Energy Efficiency Class per (EU) 2019/2015 | | E |
| Suitable for UL Class 2 Lighting System | | YES |

Energy Star™ TM-21 Calculator Data

| Tc Module | Reported L70 | Reported L90 |
|-----------|----------------|----------------|
| 85°C | >60,000 Hrs | 40,000 Hrs |
| 96°C | >60,000 Hrs | 36,000 Hrs |
| 105°C | >60,000 Hrs | 33,000 Hrs |
| Tc Module | Calculated L70 | Calculated L90 |
| 85°C | 131,000 Hrs | 40,000 Hrs |
| 96°C | 117,000 Hrs | 36,000 Hrs |
| 105°C | 106,000 Hrs | 33,000 Hrs |

LED Lumen & Color Maintenance Data per LM-80 report and TM-21 Calculator





VMU095034RD9TWA

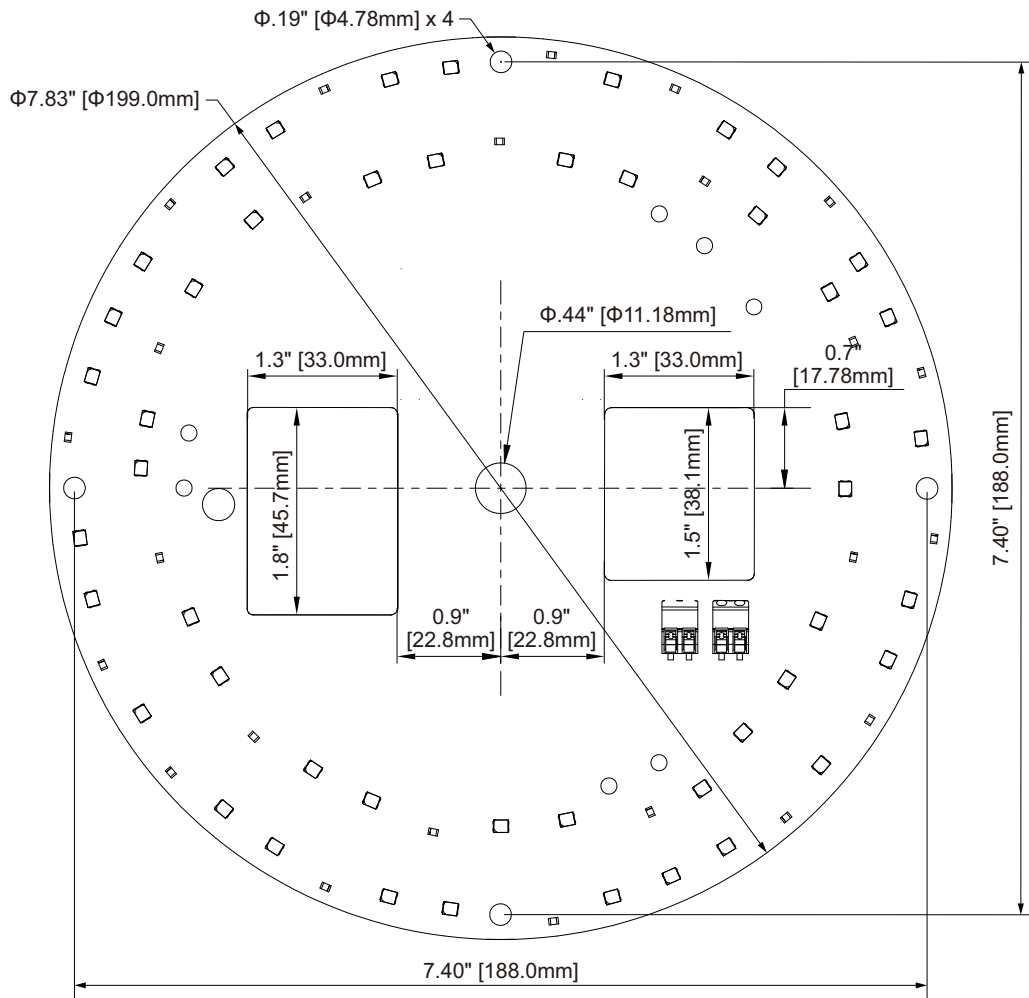
Mechanical Drawings

(Scale 3:5)

7.83" Diameter

[199mm]

| Overall Dimensions | |
|--------------------|---------------|
| Diameter | 7.83" [199mm] |
| Height | 0.22" [5.6mm] |



TOP VIEW



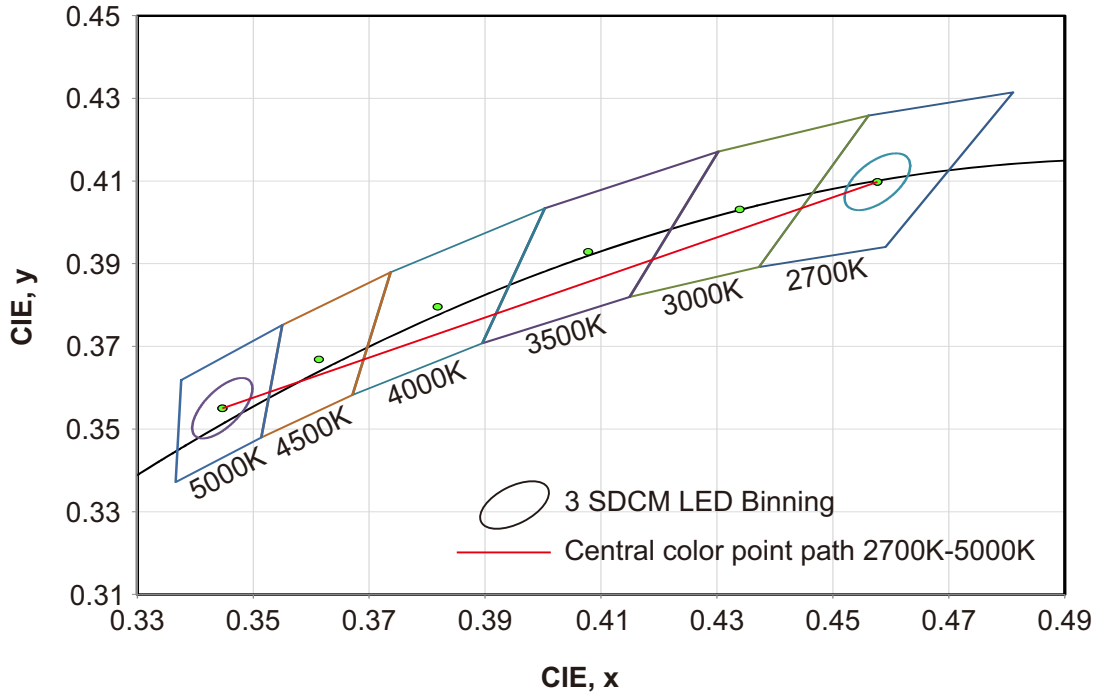
SIDE VIEW



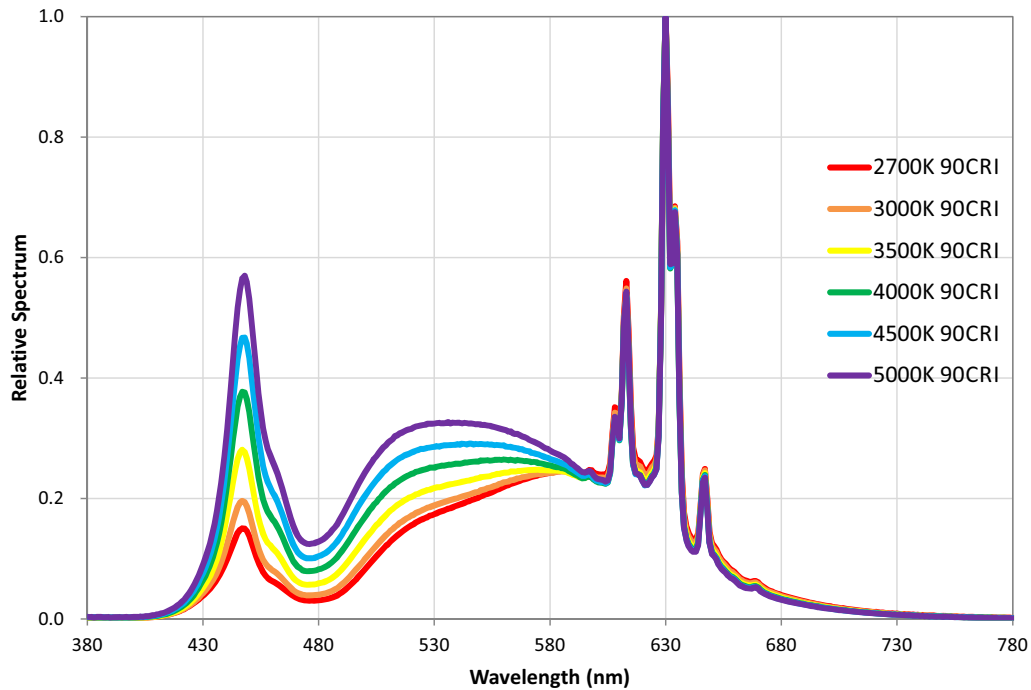
VMU095034RD9TWA



Color and Binning

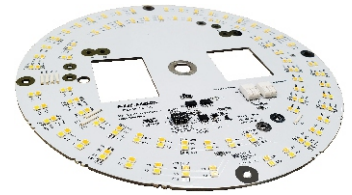


Optical Spectrum



NOTES:

- 1) The Color and Binning and Optical Spectrum charts are for reference only. For more detailed info, contact factory.
- 2) Reference Samsung Chromaticity Diagram for Color and Binning. Binning per ANSI C78.377-2015 @ 25°C; 3 SDCM.
- 3) The Optical Spectrum values vary depending on product type and color rank.

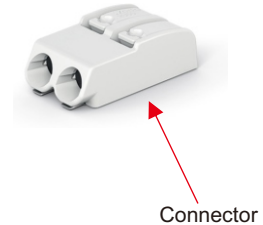


VMU095034RD9TWA

Guidelines

Termination Notes

- Connector Type: WAGO #2060-452 / 998-404 (2 pin push wire connector)
 - AWG: 24...18 solid wire
 - Strip length: 7...9mm / 0.28...0.35in
 - Connector Max amp. rating: 9 Amps.



For more detail information, please visit Wago's website: <http://www.wago.com/infomaterial/pdf/51300133.pdf>

Fastening Notes

- If fastening by screw hole a recommended screw size: 6-20 x 5/8" flat head drilling screws. Use all available screw holes to ensure good contact between back side of module and mounting surface. Refer to max specified torque for installation.
- BJB P2F (Push-to-Fix) fixing elements for PCBs can be used to fasten LED modules to mounting surface. Reference BJB's website for ordering information and specific model to use: <http://www.bjb.com/index.php?pid=376706&lid=10>.

Environmental Rating

- The DC Modules have been evaluated for use in dry or damp locations only. If used in wet locations, acceptability and the need for additional evaluation shall be determined in the end product.

Electrostatic Sensitive Product (ESD)

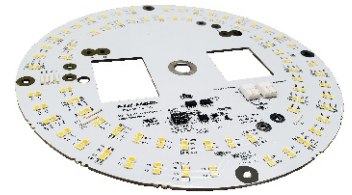
- Fulham LED products should be handled with proper measures to protect against any potential ESD damage.
- When servicing, personnel should be ground and direct contact with LED should be avoided.

Thermal Management

- Proper thermal management should be employed to ensure life and reliability of product. Max Tc of module should not be exceeded.
- Use of thermal grease, paste, pad, or other material interface is highly recommended.

Polarity Notes

- DC Modules are polarity sensitive.
- Ensure that "positive" from LED Driver is connected to "positive" of LED modules and that "negative" from LED Driver is connected to "negative" of LED modules.
- Polarities of modules are marked with "+" for positive and "-" for negative.



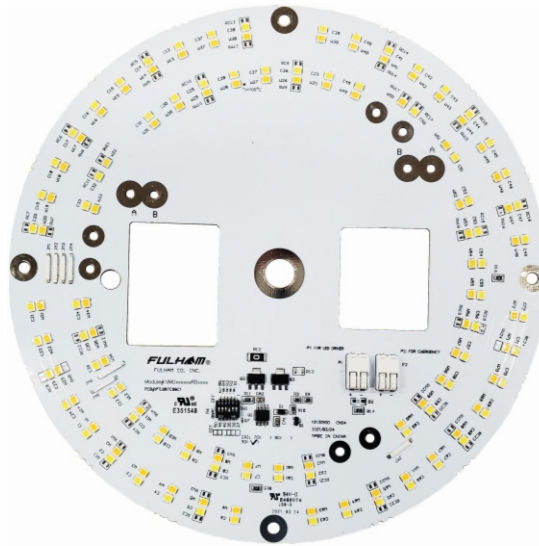
VMU095034RD9TWA

Part Number Matrix

V M U 095 034 RD 9 TWA

| Product Line | Type | Control Type | Input Current | Max. Power | Shape | CRI | Color Temperature | Option |
|--------------|----------------------------|--------------|---------------|------------|------------|--------|--------------------------------|--------------|
| V = Vizion | M = Module (UL Class 2) | U = None | 095 = 950mA | 034 = 34W | RD = Round | 9 = 90 | TW = 2700K-5000K Selectable | A = Standard |

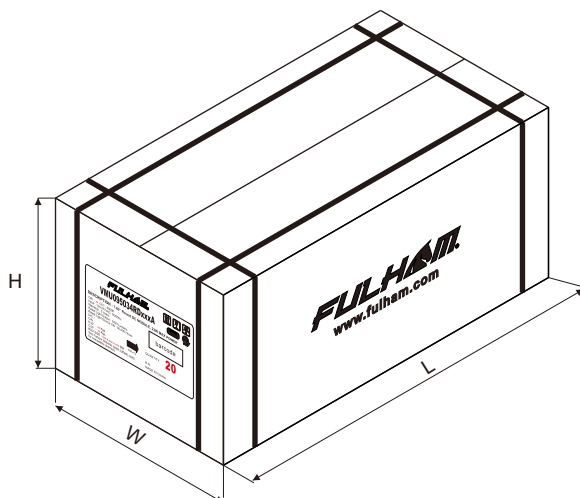
Product Image: DC Module



TOP VIEW

Packaging

Master Carton



| OUTER DIMENSION | | |
|------------------------|-----------------------|--------------|
| L | W | H |
| 11.14"(283mm) | 11.14"(283mm) | 9.76"(248mm) |
| Net Weight | Gross Weight | QUANTITY |
| 2.74 lbs. (1.24 kg) | 7.28 lbs. (3.3 kg) | 20pcs. |