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## Q-RAY™

Not all LED bulbs are created equal



## MP-400 LED Desk Lamp

### Product Description

The environmentally friendly Q-RAY™ MP-400 Desk Lamp provides good color rendering and tunable white to suit individual reading preference. Q-RAY™ MP-400 Desk Lamp not only provides good quality light but also utilises 75% less power compared to conventional incandescent desk lamp. The 4-dimensional light sources provide user with flexibility to channel light for maximum reading comfort.

### Applications

Hotels, Offices, Show rooms, Homes, Study rooms and Libraries.

### Design Concept

Q-RAY™ MP 400 Desk Lamp, resolved safety hazards by utilizing 'heat proof' LED light source. This design allows young children to safely use the product as a study lamp. The light source won't burnt your skin. In fact, we've built it with aesthetic and practicality in mind.

### Certifications & Qualifications

This Award Winning Desk Lamp has obtained certifications from Underwriters Laboratory. It's UL and CUL listed and tested to UL153 and UL8750 standards. At the same time, it is an ENERGY STAR® qualified product.



Honorable Mention

An award winning desk lamp with tunable white light feature



Up to **75%** Energy Saving  
Long lasting, No mercury, No UV.  
Environmental Friendly



11555 Coley River Circle  
Fountain Valley, CA 92708

714.545.5560  
Fax: 714.545.6093

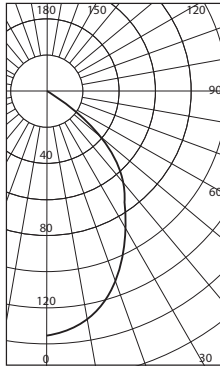
[www.wamcoinc.com](http://www.wamcoinc.com)  
[info@wamcoinc.com](mailto:info@wamcoinc.com)

## Performance Table

Digital Lighting - LED Desk Lamp With Adjustable Color Setting,cat# MP-400  
White Interior With Clear Flat Plastic Lens  
Four Of Eight LEDs Operating. Luminaire Lumen Output - 223 LMS.  
Fixture Operating At 120 Vac And 7.3 Watts - Selector Set To Inboard Position

### Intensity (Candlepower) Summary

| Angle | Mem C13 | Lumens |
|-------|---------|--------|
| 0     | 135     |        |
| 5     | 133     | 13     |
| 10    | 128     |        |
| 15    | 121     | 34     |
| 20    | 112     |        |
| 25    | 101     | 46     |
| 30    | 90      |        |
| 35    | 77      | 48     |
| 40    | 66      |        |
| 45    | 54      | 40     |
| 50    | 36      |        |
| 55    | 21      | 20     |
| 60    | 15      |        |
| 65    | 13      | 13     |
| 70    | 10      |        |
| 75    | 6       | 6      |
| 80    | 3       |        |
| 85    | 3       | 2      |
| 90    | 0       |        |



### Zonal Lumens And Percentages

| Zone   | Lumens | %Lamp  | %Luminaire |
|--------|--------|--------|------------|
| 0-30   | 92     | 41.76  | 41.75      |
| 0-40   | 141    | 63.43  | 63.42      |
| 0-60   | 201    | 90.58  | 90.57      |
| 0-90   | 222    | 100.01 | 100.00     |
| 40-90  | 81     | 36.58  | 36.58      |
| 60-90  | 20     | 9.43   | 9.43       |
| 90-180 | 0      | 0.00   | 0.00       |
| 0-180  | 222    | 100.01 | 100.00     |

### Spectral Measurements:

X = 0.4450 CRI = 84.7  
Y = 0.3982 CCT = 2818 K

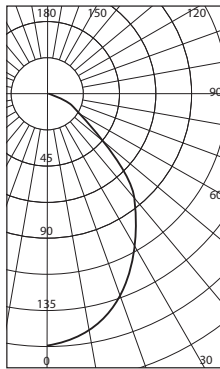
**\*\* Efficacy: 30.5 Lumens/watt \*\***

Fig:Independent Test Data at  
Nominal CCT 2700K (ANSI C78.377-2008)

Digital Lighting - LED Desk Lamp With Adjustable Color Setting,cat# MP-400  
White Interior With Clear Flat Plastic Lens  
Eight Of Eight LEDs Operating. Luminaire Lumen Output - 272 LMS.  
Fixture Operating At 120 Vac And 7.3 Watts - Selector Set To Outboard Position

### Intensity (Candlepower) Summary

| Angle | Mem C13 | Lumens |
|-------|---------|--------|
| 0     | 157     |        |
| 5     | 155     | 15     |
| 10    | 151     |        |
| 15    | 144     | 40     |
| 20    | 133     |        |
| 25    | 122     | 56     |
| 30    | 111     |        |
| 35    | 99      | 61     |
| 40    | 84      |        |
| 45    | 67      | 50     |
| 50    | 44      |        |
| 55    | 26      | 25     |
| 60    | 18      |        |
| 65    | 15      | 14     |
| 70    | 11      |        |
| 75    | 5       | 6      |
| 80    | 3       |        |
| 85    | 4       | 3      |
| 90    | 1       |        |



### Zonal Lumens And Percentages

| Zone   | Lumens | %Lamp | %Luminaire |
|--------|--------|-------|------------|
| 0-30   | 111    | 40.94 | 40.95      |
| 0-40   | 172    | 63.47 | 63.48      |
| 0-60   | 247    | 91.09 | 91.10      |
| 0-90   | 271    | 99.98 | 100.00     |
| 40-90  | 99     | 36.51 | 36.52      |
| 60-90  | 24     | 8.89  | 8.90       |
| 90-180 | 0      | 0.00  | 0.00       |
| 0-180  | 271    | 99.98 | 100.00     |

### Spectral Measurements:

X = 0.4070 CRI = 88.0  
Y = 0.3842 CCT = 3404 K

**\*\* Efficacy: 37.3 Lumens/watt \*\***

Fig:Independent Test Data at  
Nominal CCT 3500K (ANSI C78.377-2008)

## Ordering Information

| Part Number          | Product Description  |
|----------------------|--|
| Q MP40-IN W-TW RSV N | Q-RAY™ Multipurpose 400 series, with Wide Flood angle, Tunable White |

\*UL – Underwriters Laboratory, is an independent product safety certification organization.

\*CE – Conformity Mark for European Economic Area.

\*ENERGY STAR – This an organization backed by US government helping business and individuals protect the environment through superior energy efficiency.

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## Technical Specifications

|               |                |            |
|---------------|----------------|------------|
| Input Voltage | 90 to 250 VAC, | 50 – 60Hz  |
| Typical Power | 120 VAC        | 6.8 W      |
|               | 230 VAC        | 7.6 W      |
| Light Output  | Typical        | 239 lumens |
| Efficacy      | Typical        | 35 lm/W    |
| CCT (ANSI)    | Nominal        | 3000K      |
| CRI           |                | ~ 85       |
| Power Factor  | 120VAC         | 0.96       |

## Product Assurance

Q-RAY™ products go through stringent tests before they are released to the market. This ensures long term outstanding performance and reliability.

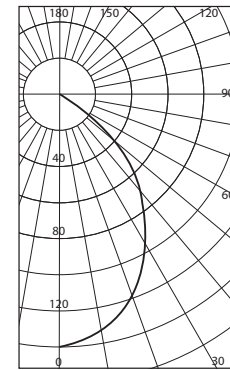
## Accreditation and Certification

Q-RAY™ MP 400 LED Desk Lamp is an award winning desk lamp in the 2008 Lighting for Tomorrow Competition organized by the US Department of Energy and American Lighting Association. Designed to comply to UL & CE safety standards, its performance standards are set to meet or exceed ENERGY STAR recommendations.

Digital Lighting - LED Desk Lamp With Adjustable Color Setting,cat# MP-400  
White Interior With Clear Flat Plastic Lens  
Eight Of Eight LEDs Operating. Luminaire Lumen Output - 239 LMS.  
Fixture Operating At 120 Vac And 6.8 Watts - Selector Set To Center Positionn

### Intensity (Candlepower) Summary

| Angle | Mem C13 | Lumens |
|-------|---------|--------|
| 0     | 135     |        |
| 5     | 133     | 13     |
| 10    | 128     |        |
| 15    | 121     | 34     |
| 20    | 112     |        |
| 25    | 101     | 46     |
| 30    | 90      |        |
| 35    | 77      | 48     |
| 40    | 66      |        |
| 45    | 54      | 40     |
| 50    | 36      |        |
| 55    | 21      | 20     |
| 60    | 15      |        |
| 65    | 13      | 13     |
| 70    | 10      |        |
| 75    | 6       | 6      |
| 80    | 3       |        |
| 85    | 3       | 2      |
| 90    | 0       |        |



### Zonal Lumens And Percentages

| Zone   | Lumens | %Lamp  | %Luminaire |
|--------|--------|--------|------------|
| 0-30   | 97     | 41.02  | 41.01      |
| 0-40   | 150    | 63.10  | 63.09      |
| 0-60   | 216    | 90.77  | 90.76      |
| 0-90   | 238    | 100.01 | 100.00     |
| 40-90  | 88     | 36.91  | 36.91      |
| 60-90  | 22     | 9.24   | 9.24       |
| 90-180 | 0      | 0.00   | 0.00       |
| 0-180  | 238    | 100.01 | 100.00     |

### Spectral Measurements:

X = 0.4239 CRI =86.9  
Y = 0.3917 CCT =3126 K

**\*\* Efficacy: 35.1 Lumens/watt \*\***

Fig:Independent Test Data at  
Nominal CCT 3000K (ANSI C78.377-2008)