

## DLQ360 - PHOTOMETRY

### 6" SQUARE CEILING DOWNLIGHT

#### LUMEN PACKAGE :

1000lm

1500lm

2200lm

2600lm

#### SYSTEM POWER :

15W

22W

22W

30W

#### DLQ360WUE-DUN - 1000lm - Wide Flood - 4000K

|                   |         |
|-------------------|---------|
| System Power      | :15.1W  |
| Test Date         | :9/2016 |
| Beam Angle 50%    | :92.6°  |
| Field Angle 10%   | :111.1° |
| Color Temperature | :3903K  |
| CRI               | :84.0   |
| R9 Value          | :21.0   |
| Lumens Delivered  | :1113lm |
| CBCP              | :636cd  |
| Power Factor      | :0.99   |

#### Multipliers

|       |      |
|-------|------|
| 5600K | 1.21 |
| 5000K | 1.19 |
| 3500K | 0.99 |
| 3000K | 0.97 |
| 2700K | 0.95 |
| 2500K | 0.45 |
| 1700K | 0.42 |

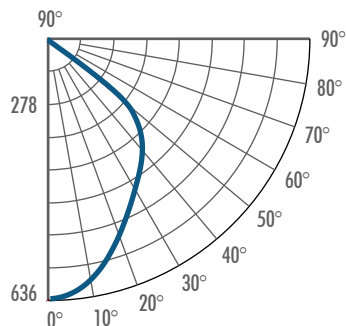
#### Lumen Multipliers

|        |      |
|--------|------|
| 1500lm | 0.80 |
| 2200lm | 0.54 |
| 2600lm | 0.46 |

#### CRI

|               |       |
|---------------|-------|
| 80CRI (Blank) | :1.00 |
| 90CRI (-C90)  | :0.71 |
| 97CRI (-C97)  | :0.73 |

#### CANDELA TABULATION



#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC   |
|--------|---------------|------|
| 6.0'   | 12.6'         | 17.7 |
| 8.0'   | 16.7'         | 9.9  |
| 10.0'  | 20.9'         | 6.4  |
| 12.0'  | 25.1'         | 4.4  |
| 14.0'  | 29.3'         | 3.2  |

#### ISO FOOTCANDLE PLOTS

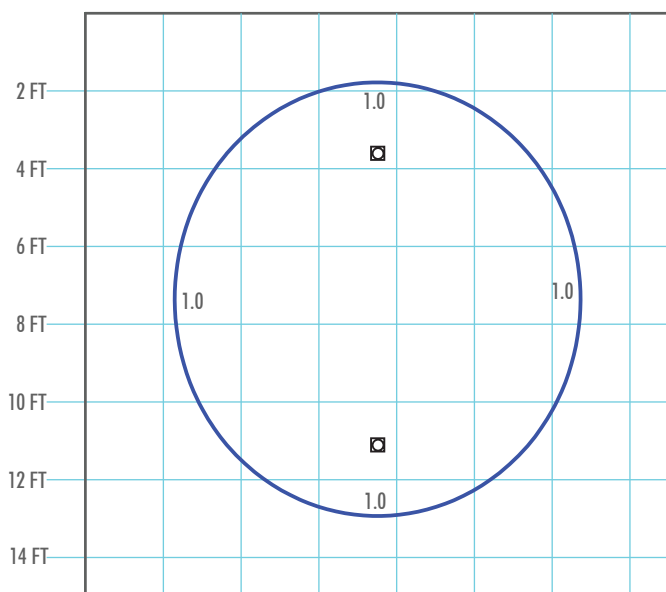
- Two Fixture

#### DLQ360BUE-DUN

32 Ft Mtg Hr. 8.0 Ft O.C. Spacing

#### DLQ360BUE-DUN

10 Ft Mtg Hr. 8 Ft O.C. Spacing

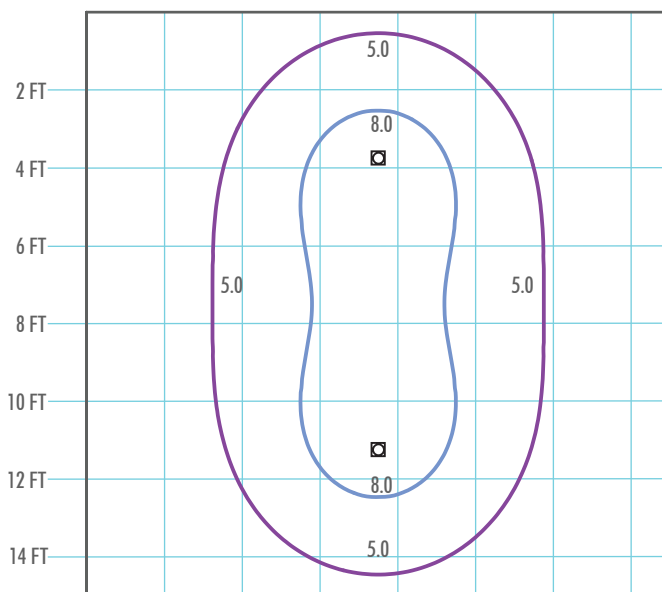


1 Grid = 2 FT

15 FT x 15 FT Surface Area to achieve (Avg) 1.0 FC

80% Reflectance Value on Ceiling

20% Reflectance Value on Surface



1 Grid = 2 FT

15 FT x 15 FT Surface Area to achieve (Avg) 4.9 FC

80% Reflectance Value on Ceiling

20% Reflectance Value on Surface

## DLQ360 - PHOTOMETRY

### 6" SQUARE CEILING DOWNLIGHT

#### LUMEN PACKAGE :

1000lm

1500lm

2200lm

2600lm

#### SYSTEM POWER :

15W

22W

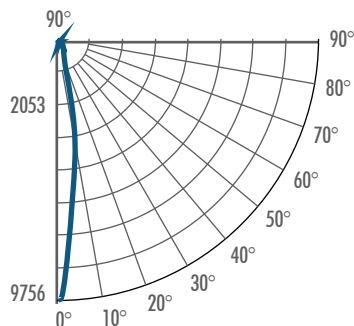
22W

30W

#### DLQ360-B10-T40 - 1000lm - Narrow Spot - 4000K

|                   |           |                   |        |
|-------------------|-----------|-------------------|--------|
| System Power      | : 15.3W   | Multipliers       |        |
| Test Date         | : 5/2017  | 5600K             | 1.21   |
| Beam Angle 50%    | : 12.6°   | 5000K             | 1.19   |
| Field Angle 10%   | : 28.9°   | 3500K             | 0.99   |
|                   |           | 3000K             | 0.97   |
| Color Temperature | : 4016K   | 2700K             | 0.95   |
| CRI               | : 85.3    | 2500K             | 0.45   |
| R9 Value          | : 26.6    | 1700K             | 0.42   |
| Lumens Delivered  | : 1038lm  | Lumen Multipliers |        |
| CBCP              | : 10651cd | 1500lm            | 0.80   |
| Power Factor      | : 0.99    | 2200lm            | 0.54   |
|                   |           | 2600lm            | 0.46   |
|                   |           | CRI               |        |
|                   |           | 80CRI (Blank)     | : 1.00 |
|                   |           | 90CRI (-C90)      | : 0.71 |
|                   |           | 97CRI (-C97)      | : 0.73 |

#### CANDELA TABULATION



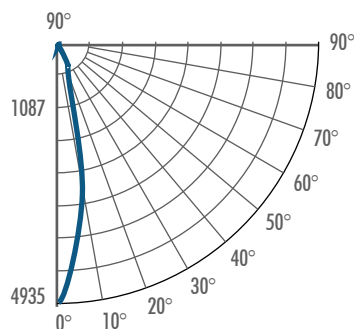
#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC    |
|--------|---------------|-------|
| 3.3'   | 0.7'          | 906.4 |
| 6.6'   | 1.4'          | 226.6 |
| 9.8'   | 2.2'          | 100.7 |
| 13.1'  | 2.9'          | 56.6  |
| 16.4'  | 3.6'          | 36.6  |

#### DLQ360-B20-T40 - 1000lm - Spot - 4000K

|                   |          |                   |        |
|-------------------|----------|-------------------|--------|
| System Power      | : 15.3W  | Multipliers       |        |
| Test Date         | : 5/2017 | 5600K             | 1.21   |
| Beam Angle 50%    | : 21.5°  | 5000K             | 1.19   |
| Field Angle 10%   | : 47.0°  | 3500K             | 0.99   |
|                   |          | 3000K             | 0.97   |
| Color Temperature | : 4021K  | 2700K             | 0.95   |
| CRI               | : 85.4   | 2500K             | 0.45   |
| R9 Value          | : 27.4   | 1700K             | 0.42   |
| Lumens Delivered  | : 1050lm | Lumen Multipliers |        |
| CBCP              | : 5062cd | 1500lm            | 0.80   |
| Power Factor      | : 0.99   | 2200lm            | 0.54   |
|                   |          | 2600lm            | 0.46   |
|                   |          | CRI               |        |
|                   |          | 80CRI (Blank)     | : 1.00 |
|                   |          | 90CRI (-C90)      | : 0.71 |
|                   |          | 97CRI (-C97)      | : 0.73 |

#### CANDELA TABULATION



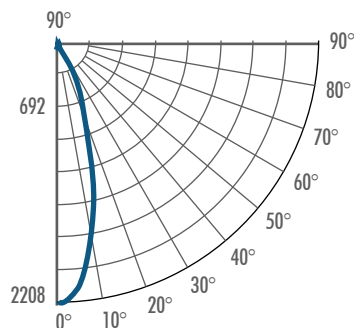
#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC    |
|--------|---------------|-------|
| 3.3'   | 1.2'          | 458.5 |
| 6.6'   | 2.5'          | 114.6 |
| 9.8'   | 3.7'          | 50.9  |
| 13.1'  | 5.0'          | 28.7  |
| 16.4'  | 6.2'          | 18.3  |

#### DLQ360-B45-T40 - 1000lm - Flood - 4000K

|                   |          |                   |        |
|-------------------|----------|-------------------|--------|
| System Power      | : 15.2W  | Multipliers       |        |
| Test Date         | : 5/2017 | 5600K             | 1.21   |
| Beam Angle 50%    | : 34.9°  | 5000K             | 1.19   |
| Field Angle 10%   | : 67.5°  | 3500K             | 0.99   |
|                   |          | 3000K             | 0.97   |
| Color Temperature | : 4048K  | 2700K             | 0.95   |
| CRI               | : 85.4   | 2500K             | 0.45   |
| R9 Value          | : 26.8   | 1700K             | 0.42   |
| Lumens Delivered  | : 980lm  | Lumen Multipliers |        |
| CBCP              | : 2215cd | 1500lm            | 0.80   |
| Power Factor      | : 0.99   | 2200lm            | 0.54   |
|                   |          | 2600lm            | 0.46   |
|                   |          | CRI               |        |
|                   |          | 80CRI (Blank)     | : 1.00 |
|                   |          | 90CRI (-C90)      | : 0.71 |
|                   |          | 97CRI (-C97)      | : 0.73 |

#### CANDELA TABULATION



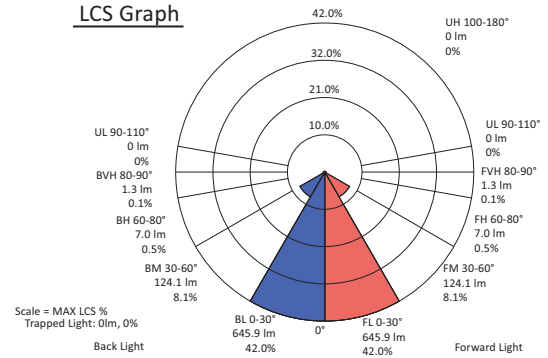
#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC    |
|--------|---------------|-------|
| 3.3'   | 2.1'          | 205.2 |
| 6.6'   | 4.1'          | 51.3  |
| 9.8'   | 6.2'          | 22.8  |
| 13.1'  | 8.3'          | 12.8  |
| 16.4'  | 10.3'         | 8.2   |

Fixture: DLQ360B-B10UE-D10

| LCS Table                |        |          |
|--------------------------|--------|----------|
| BUG Rating: B2 - U0 - G0 |        |          |
| Forward light            | Lumens | Lumens % |
| Low (0-30):              | 645.9  | 42.0%    |
| Medium (30-60):          | 124.1  | 8.1%     |
| High (60-80):            | 7.0    | 0.5%     |
| Very high (80-90):       | 1.3    | 0.1%     |
| Back light               |        |          |
| Low (0-30):              | 645.9  | 42.0%    |
| Medium (30-60):          | 124.1  | 8.1%     |
| High (60-80):            | 7.0    | 0.5%     |
| Very high (80-90):       | 1.3    | 0.1%     |
| Uplight                  |        |          |
| Low (90-100):            | 0.0    | 0.0%     |
| High (100-180):          | 0.0    | 0.0%     |
| Trapped light            | 0.0    | 0.0%     |

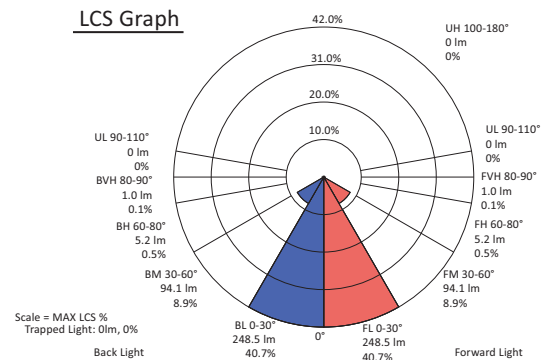
LCS Graph



Fixture: DLQ360B-B20UE-DUN

| LCS Table                |        |          |
|--------------------------|--------|----------|
| BUG Rating: B1 - U0 - G0 |        |          |
| Forward light            | Lumens | Lumens % |
| Low (0-30):              | 428.5  | 40.7%    |
| Medium (30-60):          | 94.1   | 8.9%     |
| High (60-80):            | 5.2    | 0.5%     |
| Very high (80-90):       | 1.0    | 0.1%     |
| Back light               |        |          |
| Low (0-30):              | 428.5  | 40.7%    |
| Medium (30-60):          | 94.1   | 8.9%     |
| High (60-80):            | 5.2    | 0.5%     |
| Very high (80-90):       | 1.0    | 0.1%     |
| Uplight                  |        |          |
| Low (90-100):            | 0.0    | 0.0%     |
| High (100-180):          | 0.0    | 0.0%     |
| Trapped light            | 0.0    | 0.0%     |

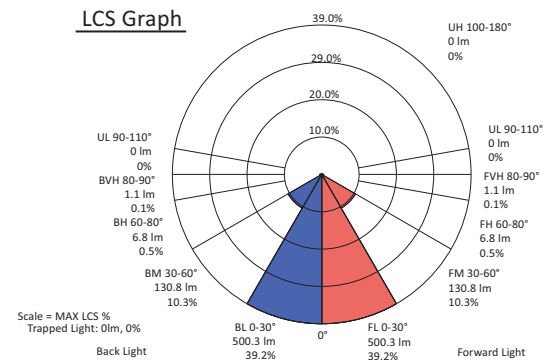
LCS Graph



Fixture: DLQ360B-B45UE-DUN

| LCS Table                |        |          |
|--------------------------|--------|----------|
| BUG Rating: B2 - U0 - G0 |        |          |
| Forward light            | Lumens | Lumens % |
| Low (0-30):              | 500.3  | 39.2%    |
| Medium (30-60):          | 130.8  | 10.3%    |
| High (60-80):            | 6.8    | 0.5%     |
| Very high (80-90):       | 1.1    | 0.1%     |
| Back light               |        |          |
| Low (0-30):              | 500.3  | 39.2%    |
| Medium (30-60):          | 130.8  | 10.3%    |
| High (60-80):            | 6.8    | 0.5%     |
| Very high (80-90):       | 1.1    | 0.1%     |
| Uplight                  |        |          |
| Low (90-100):            | 0.0    | 0.0%     |
| High (100-180):          | 0.0    | 0.0%     |
| Trapped light            | 0.0    | 0.0%     |

LCS Graph



Fixture: DLQ360B-B60UE-DUN

| LCS Table                |        |          |
|--------------------------|--------|----------|
| BUG Rating: B1 - U0 - G0 |        |          |
| Forward light            | Lumens | Lumens % |
| Low (0-30):              | 270.7  | 19.6%    |
| Medium (30-60):          | 396.3  | 28.7%    |
| High (60-80):            | 22.8   | 1.6%     |
| Very high (80-90):       | 1.7    | 0.1%     |
| Back light               |        |          |
| Low (0-30):              | 270.7  | 19.6%    |
| Medium (30-60):          | 396.3  | 28.7%    |
| High (60-80):            | 22.8   | 1.6%     |
| Very high (80-90):       | 1.7    | 0.1%     |
| Uplight                  |        |          |
| Low (90-100):            | 0.0    | 0.0%     |
| High (100-180):          | 0.0    | 0.0%     |
| Trapped light            | 0.0    | 0.0%     |

LCS Graph

