

## DL340 - PHOTOMETRY

### 4" ROUND CEILING DOWNLIGHT

#### LUMEN PACKAGE :

1000lm

1500lm

#### SYSTEM POWER :

15W

22W

#### DL340BUE-DUN

- 1000lm - Wide Flood - 4000K

#### CANDELA TABULATION

#### FOOTCANDLE DISTRIBUTION

System Power : 14.5W

Test Date : 11/15/2017

Beam Angle 50% : 62.7°

Field Angle 10% : 83.4°

Color Temperature : 3997K

CRI : 85.4

R9 Value : 28.5

Lumens Delivered : 863lm

CBCP : 971cd

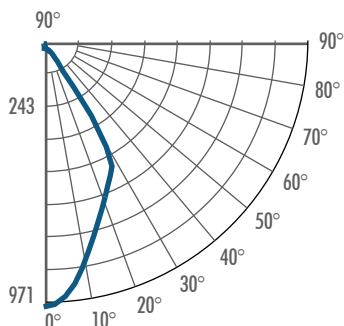
Power Factor : 0.98

#### Multipliers

|       |      |
|-------|------|
| 5600K | 1.40 |
| 5000K | 1.25 |
| 3500K | 0.87 |
| 3000K | 0.75 |
| 2700K | 0.67 |
| 2500K | 0.62 |
| 1700K | 0.42 |

#### CRI

|               |       |
|---------------|-------|
| 80CRI (Blank) | :0.94 |
| 90CRI (-C90)  | :1.05 |
| 97CRI (-C97)  | :1.14 |



| Height | Beam Diameter | FC   |
|--------|---------------|------|
| 8.0'   | 9.7'          | 15.2 |
| 12.0'  | 14.6'         | 6.7  |
| 14.0'  | 17.1'         | 5.0  |
| 16.0'  | 19.5'         | 3.8  |
| 18.0'  | 21.9'         | 3.0  |

#### ISO FOOTCANDLE PLOTS

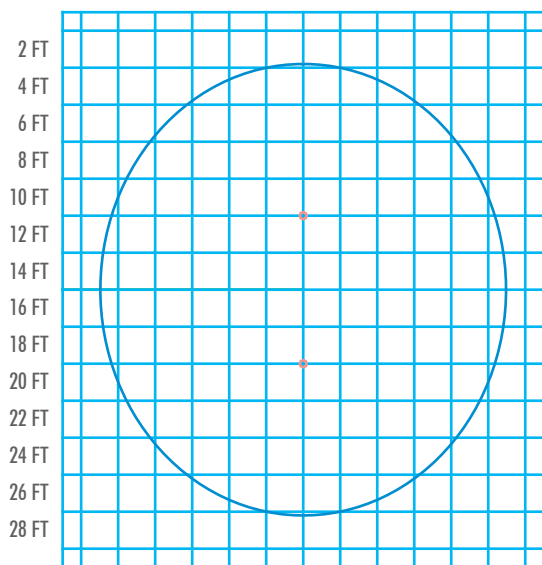
- Two Fixture

#### DL340BUE-DUN

33 Ft Mtg Ht. 8 Ft O.C. Spacing

#### DL340BUE-DUN

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

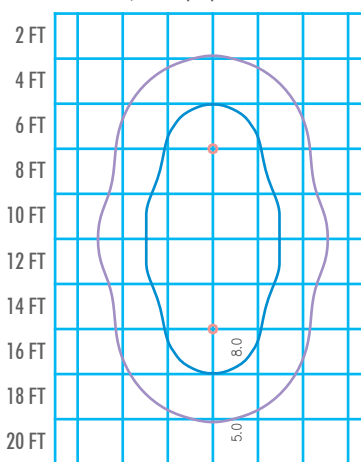


1 Grid = 2 FT

26 FT x 30 FT Surface Area to achieve (Avg) 1.1 FC 20% Reflectance Value on Surface

80% Reflectance Value on Ceiling

8fc = blue, 5fc = purple



1 Grid = 2 FT

14 FT x 20 FT Surface Area to achieve (Avg) 5.6 FC 20% Reflectance Value on Surface

80% Reflectance Value on Ceiling

#### DL340B-B10UE-DUN

- 1000lm - Narrow Spot - 4000K

#### CANDELA TABULATION

#### FOOTCANDLE DISTRIBUTION

System Power : 14.5W

Test Date : 11/15/2017

Beam Angle 50% : 11.7°

Field Angle 10% : 23.4°

Color Temperature : 4012K

CRI : 85.4

R9 Value : 28.7

Lumens Delivered : 1079lm

CBCP : 12610cd

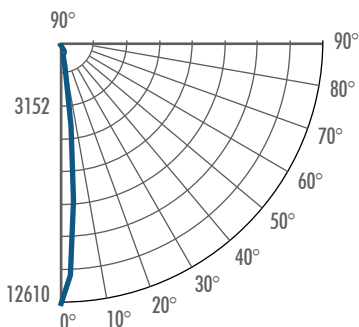
Power Factor : 0.98

#### Multipliers

|       |      |
|-------|------|
| 5600K | 1.37 |
| 5000K | 1.23 |
| 3500K | 0.86 |
| 3000K | 0.73 |
| 2700K | 0.66 |
| 2500K | 0.61 |
| 1700K | 0.42 |

#### CRI

|               |       |
|---------------|-------|
| 80CRI (Blank) | :0.94 |
| 90CRI (-C90)  | :1.05 |
| 97CRI (-C97)  | :1.14 |



| Height | Beam Diameter | FC    |
|--------|---------------|-------|
| 10.0'  | 2.0'          | 126.1 |
| 20.0'  | 4.1'          | 31.5  |
| 30.0'  | 6.1'          | 14.0  |
| 40.0'  | 8.2'          | 7.9   |
| 50.0'  | 10.2'         | 5.0   |

## DL340 - PHOTOMETRY

### 4" ROUND CEILING DOWNLIGHT

#### LUMEN PACKAGE :

1000lm

#### SYSTEM POWER :

15W

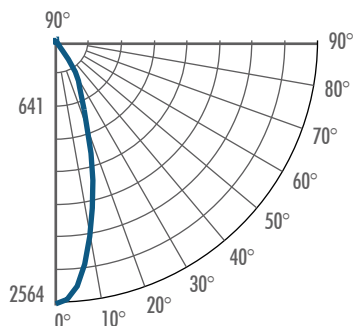
1500lm

22W

#### DL340B-L15-B45UE-DUN - 1000lm - Flood - 4000K

|                   |              |               |        |
|-------------------|--------------|---------------|--------|
| System Power      | : 14.5W      | Multipliers   |        |
| Test Date         | : 11/15/2017 | 5600K         | : 1.37 |
| Beam Angle 50%    | : 32.4°      | 5000K         | : 1.22 |
| Field Angle 10%   | : 68.7°      | 3500K         | : 0.85 |
| Color Temperature | : 4016K      | 3000K         | : 0.73 |
| CRI               | : 85.4       | 2700K         | : 0.66 |
| R9 Value          | : 28.4       | 2500K         | : 0.61 |
| Lumens Delivered  | : 1068lm     | 1700K         | : 0.42 |
| CBCP              | : 2564cd     | CRI           |        |
| Power Factor      | : 0.98       | 80CRI (Blank) | : 0.94 |
|                   |              | 90CRI (-C90)  | : 1.05 |
|                   |              | 97CRI (-C97)  | : 1.14 |

#### CANDELA TABULATION



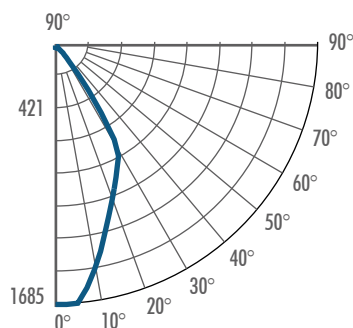
#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC   |
|--------|---------------|------|
| 8.0'   | 4.6'          | 40.1 |
| 12.0'  | 7.0'          | 17.8 |
| 16.0'  | 9.3'          | 10.0 |
| 20.0'  | 11.6'         | 6.4  |
| 25.0'  | 14.5'         | 4.1  |

#### DL340B-L15UE-DUN - 1500lm - Wide Flood - 4000K

|                   |              |               |        |
|-------------------|--------------|---------------|--------|
| System Power      | : 20.1W      | Multipliers   |        |
| Test Date         | : 11/15/2017 | 5600K         | : 1.38 |
| Beam Angle 50%    | : 58.5°      | 5000K         | : 1.23 |
| Field Angle 10%   | : 82.7°      | 3500K         | : 0.86 |
| Color Temperature | : 4061K      | 3000K         | : 0.74 |
| CRI               | : 85.4       | 2700K         | : 0.66 |
| R9 Value          | : 24.8       | 2500K         | : 0.62 |
| Lumens Delivered  | : 1418lm     | 1700K         | : 0.42 |
| CBCP              | : 1685cd     | CRI           |        |
| Power Factor      | : 1.00       | 80CRI (Blank) | : 0.94 |
|                   |              | 90CRI (-C90)  | : 1.05 |
|                   |              | 97CRI (-C97)  | : 1.14 |

#### CANDELA TABULATION



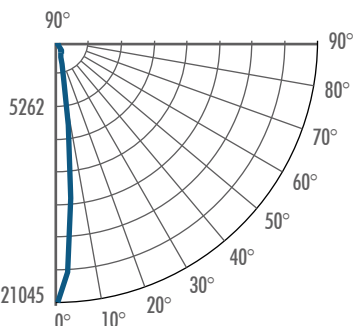
#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC   |
|--------|---------------|------|
| 8.0'   | 9.0'          | 26.3 |
| 10.0'  | 13.4'         | 11.7 |
| 20.0'  | 15.7'         | 8.6  |
| 40.0'  | 17.9'         | 6.6  |
| 60.0'  | 20.2'         | 5.2  |

#### DL340B-L15-B10UE-DUN - 1500lm - Narrow Spot - 4000K

|                   |              |               |        |
|-------------------|--------------|---------------|--------|
| System Power      | : 20.1W      | Multipliers   |        |
| Test Date         | : 11/15/2017 | 5600K         | : 1.37 |
| Beam Angle 50%    | : 11.7°      | 5000K         | : 1.23 |
| Field Angle 10%   | : 23.4°      | 3500K         | : 0.86 |
| Color Temperature | : 4076K      | 3000K         | : 0.73 |
| CRI               | : 85.4       | 2700K         | : 0.66 |
| R9 Value          | : 28.7       | 2500K         | : 0.61 |
| Lumens Delivered  | : 1730lm     | 1700K         | : 0.42 |
| CBCP              | : 20228cd    | CRI           |        |
| Power Factor      | : 1.00       | 80CRI (Blank) | : 0.94 |
|                   |              | 90CRI (-C90)  | : 1.05 |
|                   |              | 97CRI (-C97)  | : 1.14 |

#### CANDELA TABULATION



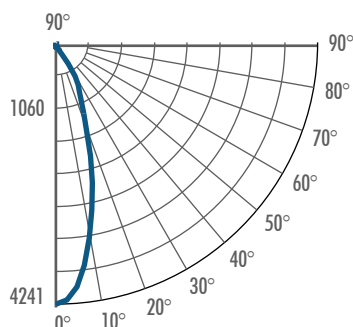
#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC    |
|--------|---------------|-------|
| 8.0'   | 1.6'          | 316.1 |
| 10.0'  | 2.0'          | 202.3 |
| 20.0'  | 4.1'          | 50.6  |
| 40.0'  | 8.2'          | 12.6  |
| 60.0'  | 12.3'         | 5.6   |

#### DL340B-L15-B45UE-DUN - 1500lm - Flood - 4000K

|                   |              |               |        |
|-------------------|--------------|---------------|--------|
| System Power      | : 20.1W      | Multipliers   |        |
| Test Date         | : 11/15/2017 | 5600K         | : 1.37 |
| Beam Angle 50%    | : 32.4°      | 5000K         | : 1.22 |
| Field Angle 10%   | : 68.7°      | 3500K         | : 0.85 |
| Color Temperature | : 4080K      | 3000K         | : 0.73 |
| CRI               | : 85.4       | 2700K         | : 0.66 |
| R9 Value          | : 28.4       | 2500K         | : 0.61 |
| Lumens Delivered  | : 1714lm     | 1700K         | : 0.42 |
| CBCP              | : 4115cd     | CRI           |        |
| Power Factor      | : 1.00       | 80CRI (Blank) | : 0.94 |
|                   |              | 90CRI (-C90)  | : 1.05 |
|                   |              | 97CRI (-C97)  | : 1.14 |

#### CANDELA TABULATION

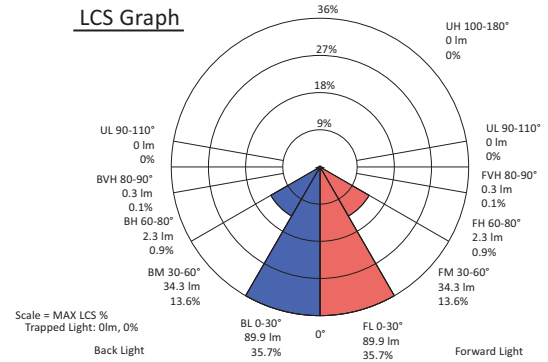


#### FOOTCANDLE DISTRIBUTION

| Height | Beam Diameter | FC   |
|--------|---------------|------|
| 8.0'   | 4.6'          | 64.3 |
| 10.0'  | 7.0'          | 28.6 |
| 20.0'  | 9.3'          | 16.1 |
| 40.0'  | 11.6'         | 10.3 |
| 60.0'  | 14.5'         | 6.6  |

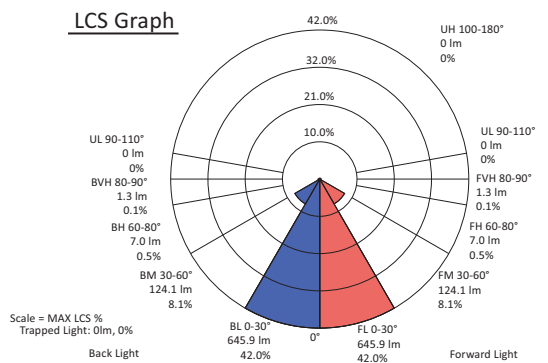
Fixture: DL340B-B02UE-DUN

| LCS Table                |        |          |
|--------------------------|--------|----------|
| BUG Rating: B0 - U0 - G0 |        |          |
| Forward light            | Lumens | Lumens % |
| Low (0-30):              | 89.9   | 35.7%    |
| Medium (30-60):          | 34.3   | 13.6%    |
| High (60-80):            | 2.3    | 0.9%     |
| Very high (80-90):       | 0.3    | 0.1%     |
| Back light               |        |          |
| Low (0-30):              | 89.9   | 35.7%    |
| Medium (30-60):          | 34.3   | 13.6%    |
| High (60-80):            | 2.3    | 0.9%     |
| Very high (80-90):       | 0.3    | 0.1%     |
| Uplight                  |        |          |
| Low (90-100):            | 0.0    | 0.0%     |
| High (100-180):          | 0.0    | 0.0%     |
| Trapped light            | 0.0    | 0.0%     |



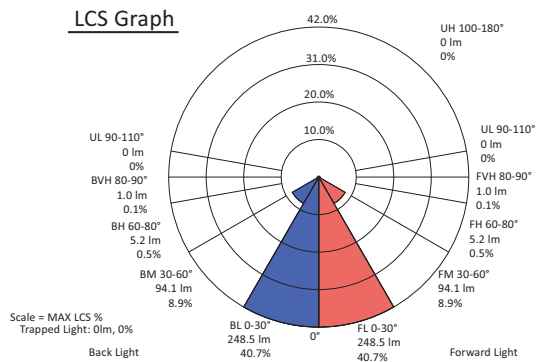
Fixture: DL340B-B10UE-D10

| 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%     |



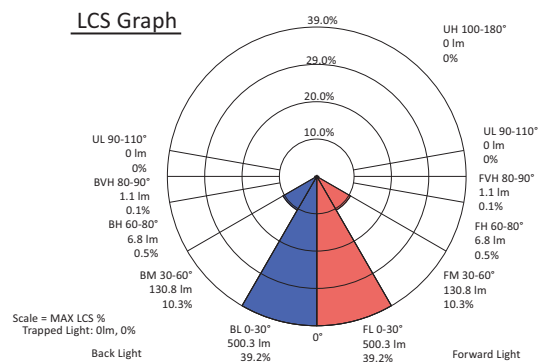
Fixture: DL340B-B20UE-DUN

| 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%     |



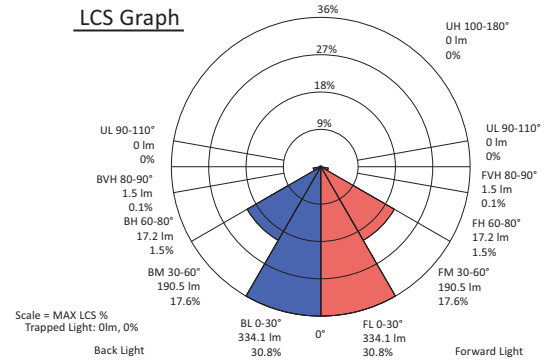
Fixture: DL340B-B45UE-DUN

| 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%     |



Fixture: DLQ340B-B60UE-DUN

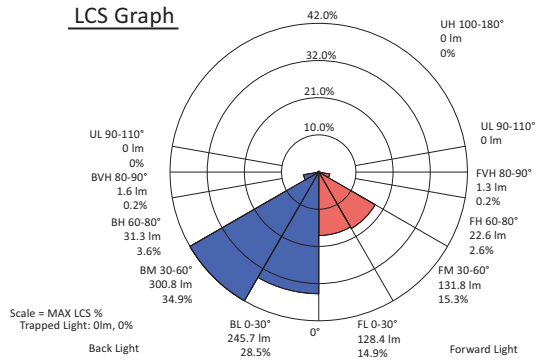
| LCS Table          |              |          |
|--------------------|--------------|----------|
| BUG Rating:        | B1 - U0 - G0 |          |
| Forward light      | Lumens       | Lumens % |
| Low (0-30):        | 334.1        | 30.8%    |
| Medium (30-60):    | 190.5        | 17.6%    |
| High (60-80):      | 17.2         | 1.6%     |
| Very high (80-90): | 1.5          | 0.1%     |
| Back light         |              |          |
| Low (0-30):        | 334.1        | 30.8%    |
| Medium (30-60):    | 190.5        | 17.6%    |
| High (60-80):      | 17.2         | 1.6%     |
| Very high (80-90): | 1.5          | 0.1%     |
| Uplight            |              |          |
| Low (90-100):      | 0.0          | 0.0%     |
| High (100-180):    | 0.0          | 0.0%     |
| Trapped light      | 0.0          | 0.0%     |



Fixture: DLQ340B-BWWUE-DUN

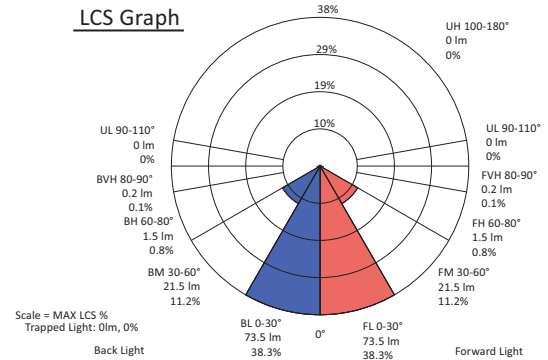
4" SQUARE Ceiling Downlight (IP65) - 1000lm

| LCS Table          |              |          |
|--------------------|--------------|----------|
| BUG Rating:        | B1 - U0 - G0 |          |
| Forward light      | Lumens       | Lumens % |
| Low (0-30):        | 128.4        | 14.9%    |
| Medium (30-60):    | 131.8        | 15.3%    |
| High (60-80):      | 22.6         | 2.6%     |
| Very high (80-90): | 1.3          | 0.2%     |
| Back light         |              |          |
| Low (0-30):        | 245.7        | 28.5%    |
| Medium (30-60):    | 300.8        | 34.9%    |
| High (60-80):      | 31.3         | 3.6%     |
| Very high (80-90): | 1.6          | 0.2%     |
| Uplight            |              |          |
| Low (90-100):      | 0.0          | 0.0%     |
| High (100-180):    | 0.0          | 0.0%     |
| Trapped light      | 0.0          | 0.0%     |



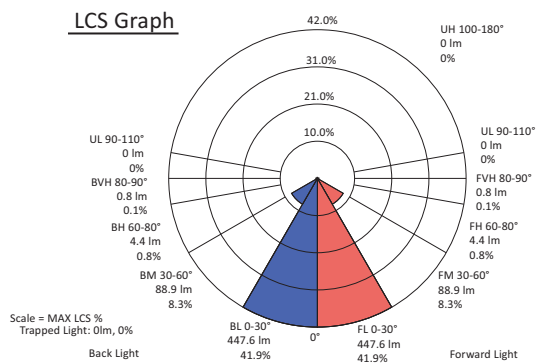
Fixture: DL340B-L15-B02UE-DUN

| LCS Table                |        |          |
|--------------------------|--------|----------|
| BUG Rating: B0 - U0 - G0 |        |          |
| Forward light            | Lumens | Lumens % |
| Low (0-30):              | 73.5   | 38.3%    |
| Medium (30-60):          | 21.5   | 11.2%    |
| High (60-80):            | 1.5    | 0.8%     |
| Very high (80-90):       | 0.2    | 0.1%     |
| Back light               |        |          |
| Low (0-30):              | 73.5   | 38.3%    |
| Medium (30-60):          | 21.5   | 11.2%    |
| High (60-80):            | 1.5    | 0.8%     |
| Very high (80-90):       | 0.2    | 0.1%     |
| Uplight                  |        |          |
| Low (90-100):            | 0.0    | 0.0%     |
| High (100-180):          | 0.0    | 0.0%     |
| Trapped light            | 0.0    | 0.0%     |



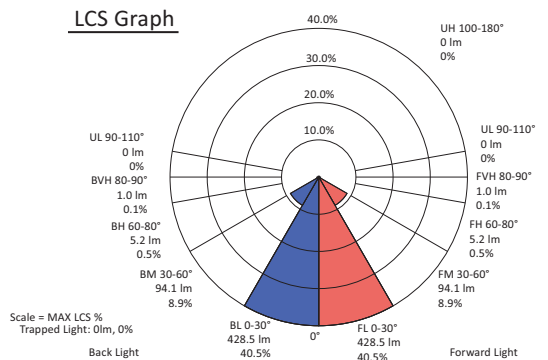
Fixture: DL340B-L15-B10UE-DUN

| LCS Table                |        |          |
|--------------------------|--------|----------|
| BUG Rating: B1 - U0 - G0 |        |          |
| Forward light            | Lumens | Lumens % |
| Low (0-30):              | 447.6  | 41.9%    |
| Medium (30-60):          | 88.9   | 8.3%     |
| High (60-80):            | 4.4    | 0.4%     |
| Very high (80-90):       | 0.8    | 0.1%     |
| Back light               |        |          |
| Low (0-30):              | 447.6  | 41.9%    |
| Medium (30-60):          | 88.9   | 8.3%     |
| High (60-80):            | 4.4    | 0.4%     |
| Very high (80-90):       | 0.8    | 0.1%     |
| Uplight                  |        |          |
| Low (90-100):            | 0.0    | 0.0%     |
| High (100-180):          | 0.0    | 0.0%     |
| Trapped light            | 0.0    | 0.0%     |



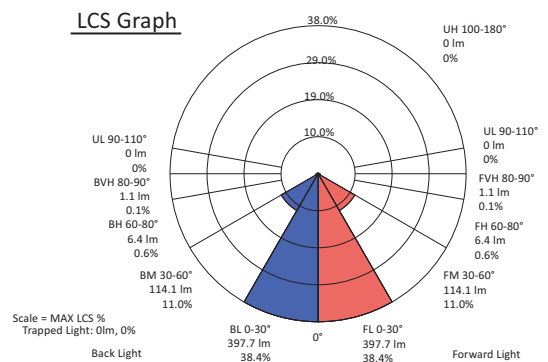
Fixture: DL340B-L15-B20UE-DUN

| LCS Table                |        |          |
|--------------------------|--------|----------|
| BUG Rating: B0 - U0 - G0 |        |          |
| Forward light            | Lumens | Lumens % |
| Low (0-30):              | 428.5  | 40.5%    |
| 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  | 40.5%    |
| 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%     |



Fixture: DL340B-L15-B45UE-DUN

| LCS Table                |        |          |
|--------------------------|--------|----------|
| BUG Rating: B1 - U0 - G0 |        |          |
| Forward light            | Lumens | Lumens % |
| Low (0-30):              | 397.7  | 38.4%    |
| Medium (30-60):          | 114.1  | 11.0%    |
| High (60-80):            | 6.4    | 0.6%     |
| Very high (80-90):       | 1.1    | 0.1%     |
| Back light               |        |          |
| Low (0-30):              | 397.7  | 38.4%    |
| Medium (30-60):          | 114.1  | 11.0%    |
| High (60-80):            | 6.4    | 0.6%     |
| 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%     |



Fixture: DL340B-L15-B60UE-DUN

| LCS Table                |        |          |
|--------------------------|--------|----------|
| BUG Rating: B1 - U0 - G0 |        |          |
| Forward light            | Lumens | Lumens % |
| Low (0-30):              | 273.7  | 32.2%    |
| Medium (30-60):          | 140.2  | 16.5%    |
| High (60-80):            | 10.8   | 1.3%     |
| Very high (80-90):       | 1.0    | 0.1%     |
| Back light               |        |          |
| Low (0-30):              | 273.7  | 32.2%    |
| Medium (30-60):          | 140.2  | 16.5%    |
| High (60-80):            | 10.8   | 1.3%     |
| 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%     |

