

**LUMENS PACKAGE :**  
**SYSTEM POWER :**

1000lm  
10W

1500lm  
18W

2000lm  
28W

**CH428UE-D10 - 2000lm - 4000K**

|                   |          |
|-------------------|----------|
| System Power      | :31W     |
| Test Date         | :12/2015 |
| Beam Angle 50%    | :69.8°   |
| Field Angle 10%   | :127.3°  |
| Color Temperature | :4000K   |
| CRI               | :84      |
| R9 Value          | :68      |
| Lumens Delivered  | :1942lm  |
| CBCP              | :1282cd  |
| Power Factor      | :1.00    |

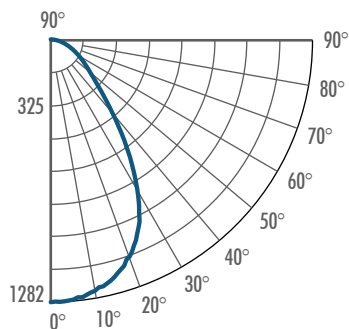
CCT Multipliers

|       |      |
|-------|------|
| 4000K | 1.00 |
| 3500K | 0.99 |
| 3000K | 0.97 |
| 2700K | 0.95 |

Lumen Multipliers

|        |      |
|--------|------|
| 1000lm | 0.51 |
| 1500lm | 0.77 |

**CANDELA TABULATION**



**FOOTCANDLE DISTRIBUTION**

| Height | Beam Diameter | FC   |
|--------|---------------|------|
| 8'     | 11.2'         | 20.0 |
| 9'     | 12.6'         | 15.8 |
| 10'    | 14.0'         | 12.8 |
| 12'    | 16.8'         | 8.9  |
| 15'    | 21.0'         | 5.7  |

**RECOMMENDED SPACING**

| Clg Ht | Spacing     | Max/Min Ratio | Fixture   | Dimming % |
|--------|-------------|---------------|-----------|-----------|
| 10 ft  | 7 ft o.c.   | 2.3:1         | CH410-D10 | 0.42 %    |
| 12 ft  | 4.5 ft o.c. | 1.8:1         | CH418-D10 | 0.37 %    |
| 15 ft  | 3 ft o.c.   | 1.5:1         | CH428-D10 | 15.38 %   |

**CONTROLLED DIMMING (%)**

**EFFECTIVE FLOOR CAVITY REFLECTANCE @ 20%**

| RC | 70  | 50  | 30  | 10  |
|----|-----|-----|-----|-----|
| RW | 70  | 50  | 30  | 10  |
| 0  | 119 | 119 | 119 | 119 |
| 1  | 111 | 107 | 104 | 101 |
| 2  | 103 | 97  | 91  | 87  |
| 3  | 96  | 88  | 81  | 76  |
| 4  | 89  | 80  | 72  | 67  |
| 5  | 83  | 73  | 65  | 60  |
| 6  | 78  | 67  | 59  | 54  |
| 7  | 73  | 61  | 54  | 49  |
| 8  | 69  | 57  | 49  | 44  |
| 9  | 65  | 53  | 46  | 41  |
| 10 | 61  | 49  | 42  | 37  |

| RC | 70  | 50  | 10  |
|----|-----|-----|-----|
| RW | 70  | 30  | 10  |
| 0  | 111 | 111 | 111 |
| 1  | 101 | 99  | 96  |
| 2  | 92  | 87  | 84  |
| 3  | 83  | 78  | 74  |
| 4  | 76  | 70  | 65  |
| 5  | 70  | 63  | 59  |
| 6  | 64  | 58  | 53  |
| 7  | 59  | 53  | 48  |
| 8  | 55  | 49  | 44  |
| 9  | 51  | 45  | 40  |
| 10 | 48  | 42  | 37  |

| RC | 70  | 50  | 30  | 10  |
|----|-----|-----|-----|-----|
| RW | 70  | 50  | 30  | 10  |
| 0  | 116 | 116 | 116 | 116 |
| 1  | 109 | 105 | 102 | 99  |
| 2  | 101 | 95  | 90  | 86  |
| 3  | 94  | 86  | 80  | 75  |
| 4  | 87  | 78  | 72  | 66  |
| 5  | 82  | 72  | 65  | 59  |
| 6  | 76  | 66  | 59  | 53  |
| 7  | 72  | 61  | 54  | 48  |
| 8  | 67  | 56  | 49  | 44  |
| 9  | 63  | 52  | 45  | 41  |
| 10 | 60  | 49  | 42  | 37  |