



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX910LEDECO4HTLOWT50120-277V\_S.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2020.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Tue May 25 14:28:28 2021

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BX910LEDECO4HTLOWT50120-277V\_S

[LAMP] LED 0.72W LUXEON 3030 2D Line (120mA)

[LAMPCAT] L130-3580003000X21

[OTHER]

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | 33.9 (144 lamps)    |
| Total Lamp Lumens               | 4881.6              |
| Luminaire Lumens                | 4295                |
| Total Luminaire Efficiency      | 88 %                |
| Luminaire Efficacy Rating (LER) | 143                 |
| Total Luminaire Watts           | 30                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.30                |
| Spacing Criterion (90-270)      | 1.30                |
| Spacing Criterion (Diagonal)    | 1.40                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 3.96 ft             |
| Luminous Width (90-270)         | 0.35 ft             |
| Luminous Height                 | 0.29 ft             |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 11798            | 7785              | 6984              |
| 55                  | 9181             | 5352              | 4692              |
| 65                  | 5075             | 2505              | 2139              |
| 75                  | 2148             | 819               | 677               |
| 85                  | 401              | 90                | 71                |

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CANDELA TABULATION

|       | <u>0</u> |
|-------|----------|
| 0.0   | 1727.17  |
| 2.5   | 1761.93  |
| 5.0   | 1725.57  |
| 7.5   | 1730.06  |
| 10.0  | 1720.29  |
| 12.5  | 1721.69  |
| 15.0  | 1717.45  |
| 17.5  | 1698.61  |
| 20.0  | 1675.40  |
| 22.5  | 1639.20  |
| 25.0  | 1603.91  |
| 27.5  | 1563.85  |
| 30.0  | 1523.86  |
| 32.5  | 1475.22  |
| 35.0  | 1420.75  |
| 37.5  | 1365.35  |
| 40.0  | 1309.22  |
| 42.5  | 1244.28  |
| 45.0  | 1167.98  |
| 47.5  | 1088.97  |
| 50.0  | 988.94   |
| 52.5  | 874.98   |
| 55.0  | 758.65   |
| 57.5  | 635.66   |
| 60.0  | 517.87   |
| 62.5  | 412.11   |
| 65.0  | 323.53   |
| 67.5  | 247.38   |
| 70.0  | 186.24   |
| 72.5  | 133.53   |
| 75.0  | 92.23    |
| 77.5  | 60.27    |
| 80.0  | 35.78    |
| 82.5  | 19.40    |
| 85.0  | 8.35     |
| 87.5  | 2.12     |
| 90.0  | 0.13     |
| 92.5  | 0.00     |
| 95.0  | 0.00     |
| 97.5  | 0.00     |
| 100.0 | 0.00     |
| 102.5 | 0.00     |
| 105.0 | 0.00     |
| 107.5 | 0.00     |
| 110.0 | 0.00     |
| 112.5 | 0.00     |
| 115.0 | 0.00     |
| 117.5 | 0.00     |
| 120.0 | 0.00     |
| 122.5 | 0.00     |
| 125.0 | 0.00     |
| 127.5 | 0.00     |
| 130.0 | 0.00     |
| 132.5 | 0.00     |

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**CANDELA TABULATION - (Cont.)**

|              |      |
|--------------|------|
| <b>135.0</b> | 0.00 |
| <b>137.5</b> | 0.00 |
| <b>140.0</b> | 0.00 |
| <b>142.5</b> | 0.00 |
| <b>145.0</b> | 0.00 |
| <b>147.5</b> | 0.00 |
| <b>150.0</b> | 0.00 |
| <b>152.5</b> | 0.00 |
| <b>155.0</b> | 0.00 |
| <b>157.5</b> | 0.00 |
| <b>160.0</b> | 0.00 |
| <b>162.5</b> | 0.00 |
| <b>165.0</b> | 0.00 |
| <b>167.5</b> | 0.00 |
| <b>170.0</b> | 0.00 |
| <b>172.5</b> | 0.00 |
| <b>175.0</b> | 0.00 |
| <b>177.5</b> | 0.00 |
| <b>180.0</b> | 0.00 |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 648.97  | 13.30 | 15.10  |
| 0-30    | 1388.27 | 28.40 | 32.30  |
| 0-40    | 2277.32 | 46.70 | 53.00  |
| 0-60    | 3848.23 | 78.80 | 89.60  |
| 0-80    | 4281.87 | 87.70 | 99.70  |
| 0-90    | 4294.87 | 88.00 | 100.00 |
| 10-90   | 4129.66 | 84.60 | 96.20  |
| 20-40   | 1628.35 | 33.40 | 37.90  |
| 20-50   | 2525.37 | 51.70 | 58.80  |
| 40-70   | 1900.12 | 38.90 | 44.20  |
| 60-80   | 433.64  | 8.90  | 10.10  |
| 70-80   | 104.43  | 2.10  | 2.40   |
| 80-90   | 13.00   | 0.30  | 0.30   |
| 90-110  | 0.02    | 0.00  | 0.00   |
| 90-120  | 0.02    | 0.00  | 0.00   |
| 90-130  | 0.02    | 0.00  | 0.00   |
| 90-150  | 0.02    | 0.00  | 0.00   |
| 90-180  | 0.02    | 0.00  | 0.00   |
| 110-180 | 0.00    | 0.00  | 0.00   |
| 0-180   | 4294.89 | 88.00 | 100.00 |

Total Luminaire Efficiency = 88.00%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 165.21 |
| 10-20   | 483.76 |
| 20-30   | 739.30 |
| 30-40   | 889.05 |
| 40-50   | 897.01 |
| 50-60   | 673.90 |
| 60-70   | 329.21 |
| 70-80   | 104.43 |
| 80-90   | 13.00  |
| 90-100  | 0.02   |
| 100-110 | 0.00   |
| 110-120 | 0.00   |
| 120-130 | 0.00   |
| 130-140 | 0.00   |
| 140-150 | 0.00   |
| 150-160 | 0.00   |
| 160-170 | 0.00   |
| 170-180 | 0.00   |

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

| RC | 80  |     |     |     | 70  |     |     |     | 50 |    |    | 30 |    |    | 10 |    |    | 0  |
|----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|
| RW | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0  |
| 0  | 105 | 105 | 105 | 105 | 102 | 102 | 102 | 102 | 98 | 98 | 98 | 94 | 94 | 94 | 90 | 90 | 90 | 88 |
| 1  | 97  | 94  | 91  | 88  | 95  | 92  | 89  | 86  | 88 | 86 | 84 | 85 | 83 | 81 | 82 | 80 | 79 | 77 |
| 2  | 90  | 83  | 78  | 74  | 87  | 82  | 77  | 73  | 79 | 75 | 71 | 76 | 72 | 70 | 73 | 70 | 68 | 66 |
| 3  | 82  | 74  | 68  | 63  | 80  | 73  | 67  | 62  | 70 | 65 | 61 | 68 | 64 | 60 | 66 | 62 | 59 | 57 |
| 4  | 76  | 66  | 59  | 54  | 74  | 65  | 59  | 53  | 63 | 57 | 53 | 61 | 56 | 52 | 59 | 55 | 51 | 50 |
| 5  | 70  | 60  | 52  | 47  | 68  | 59  | 52  | 47  | 57 | 51 | 46 | 55 | 50 | 46 | 54 | 49 | 45 | 43 |
| 6  | 65  | 54  | 46  | 41  | 63  | 53  | 46  | 41  | 51 | 45 | 41 | 50 | 45 | 40 | 49 | 44 | 40 | 38 |
| 7  | 60  | 49  | 42  | 37  | 59  | 48  | 41  | 36  | 47 | 41 | 36 | 46 | 40 | 36 | 45 | 40 | 36 | 34 |
| 8  | 56  | 45  | 38  | 33  | 55  | 44  | 37  | 33  | 43 | 37 | 32 | 42 | 36 | 32 | 41 | 36 | 32 | 30 |
| 9  | 52  | 41  | 34  | 30  | 51  | 41  | 34  | 29  | 40 | 34 | 29 | 39 | 33 | 29 | 38 | 33 | 29 | 27 |
| 10 | 49  | 38  | 31  | 27  | 48  | 38  | 31  | 27  | 37 | 31 | 27 | 36 | 30 | 27 | 35 | 30 | 26 | 25 |

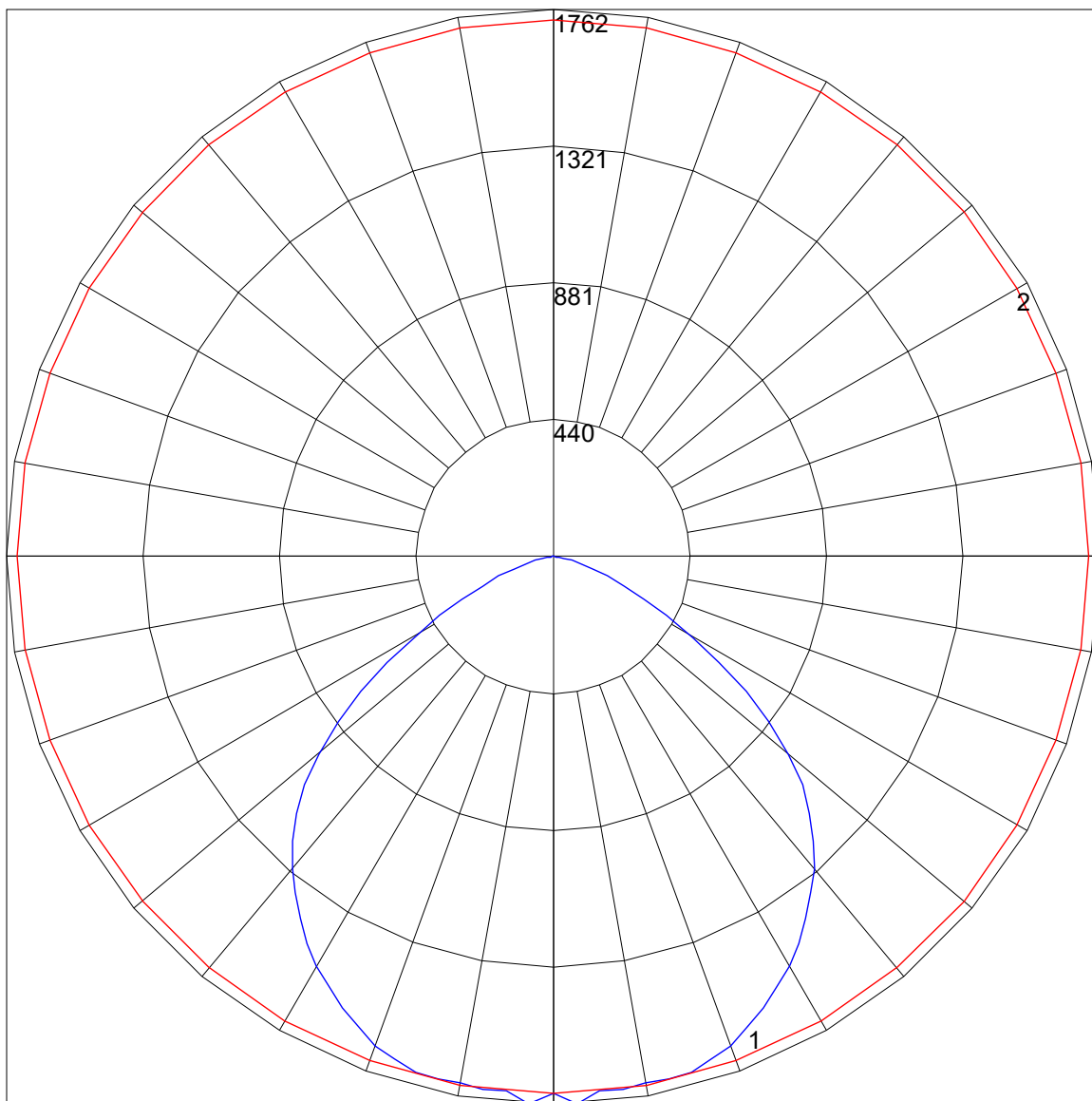
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**UGR TABLE - CORRECTED**

|                |      |                      |      |      |      |      |                    |      |      |      |      |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| Reflectances   |      |                      |      |      |      |      |                    |      |      |      |      |
| Ceiling Cavity | 70   | 70                   | 50   | 50   | 30   | 70   | 70                 | 50   | 50   | 30   |      |
| Walls          | 50   | 30                   | 50   | 30   | 30   | 50   | 30                 | 50   | 30   | 30   |      |
| Floor Cavity   | 20   | 20                   | 20   | 20   | 20   | 20   | 20                 | 20   | 20   | 20   |      |
| Room Size      |      | UGR Viewed Crosswise |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
| X=2H           | Y=2H | 18.1                 | 19.6 | 18.5 | 19.9 | 20.2 | 18.1               | 19.6 | 18.5 | 19.9 | 20.2 |
|                | 3H   | 18.7                 | 20.0 | 19.1 | 20.4 | 20.7 | 18.7               | 20.0 | 19.1 | 20.4 | 20.7 |
|                | 4H   | 18.8                 | 20.0 | 19.2 | 20.4 | 20.8 | 18.8               | 20.0 | 19.2 | 20.4 | 20.8 |
|                | 6H   | 18.8                 | 20.0 | 19.2 | 20.3 | 20.7 | 18.8               | 20.0 | 19.2 | 20.3 | 20.7 |
|                | 8H   | 18.8                 | 19.9 | 19.2 | 20.3 | 20.7 | 18.8               | 19.9 | 19.2 | 20.3 | 20.7 |
|                | 12H  | 18.8                 | 19.8 | 19.2 | 20.2 | 20.6 | 18.8               | 19.8 | 19.2 | 20.2 | 20.6 |
| 4H             | 2H   | 18.2                 | 19.5 | 18.6 | 19.8 | 20.2 | 18.2               | 19.5 | 18.6 | 19.8 | 20.2 |
|                | 3H   | 18.9                 | 19.9 | 19.3 | 20.3 | 20.7 | 18.9               | 19.9 | 19.3 | 20.3 | 20.7 |
|                | 4H   | 19.0                 | 19.9 | 19.4 | 20.3 | 20.8 | 19.0               | 19.9 | 19.4 | 20.3 | 20.8 |
|                | 6H   | 19.0                 | 19.8 | 19.5 | 20.3 | 20.7 | 19.0               | 19.8 | 19.5 | 20.3 | 20.7 |
|                | 8H   | 19.0                 | 19.7 | 19.5 | 20.2 | 20.7 | 19.0               | 19.7 | 19.5 | 20.2 | 20.7 |
|                | 12H  | 19.0                 | 19.6 | 19.5 | 20.1 | 20.6 | 19.0               | 19.6 | 19.5 | 20.1 | 20.6 |
| 8H             | 4H   | 19.0                 | 19.7 | 19.4 | 20.1 | 20.6 | 19.0               | 19.7 | 19.4 | 20.1 | 20.6 |
|                | 6H   | 19.0                 | 19.6 | 19.5 | 20.1 | 20.5 | 19.0               | 19.6 | 19.5 | 20.1 | 20.5 |
|                | 8H   | 18.9                 | 19.5 | 19.5 | 20.0 | 20.5 | 18.9               | 19.5 | 19.5 | 20.0 | 20.5 |
|                | 12H  | 18.9                 | 19.4 | 19.4 | 19.9 | 20.5 | 18.9               | 19.4 | 19.4 | 19.9 | 20.5 |
| 12H            | 4H   | 18.9                 | 19.6 | 19.4 | 20.1 | 20.5 | 18.9               | 19.6 | 19.4 | 20.1 | 20.5 |
|                | 6H   | 18.9                 | 19.5 | 19.5 | 19.9 | 20.5 | 18.9               | 19.5 | 19.5 | 19.9 | 20.5 |
|                | 8H   | 18.9                 | 19.4 | 19.4 | 19.9 | 20.5 | 18.9               | 19.4 | 19.4 | 19.9 | 20.5 |

Maximum UGR = 20.8

POLAR GRAPH



Maximum Candela = 1761.93 Located At Horizontal Angle = 0, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)