



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BX920LED4HTLOWT50120V-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] Fri May 28 10:58:09 2021

[TEST] 1

[MANUFAC]

[LUMCAT]

[LUMINAIRE] BX920LED4HTLOWT50120V-277V\_S

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

[LAMPCAT] L130-3580003000X21

[OTHER]

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 7317                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 146                 |
| Total Luminaire Watts           | 50                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.32                |
| Spacing Criterion (90-270)      | 1.32                |
| Spacing Criterion (Diagonal)    | 1.42                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 4.31 ft             |
| Luminous Width (90-270)         | 0.55 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                  | 10752            | 8102              | 7542              |
| 55                  | 9778             | 6721              | 6142              |
| 65                  | 8111             | 4903              | 4380              |
| 75                  | 5263             | 2578              | 2234              |
| 85                  | 1386             | 426               | 352               |

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CANDELA TABULATION

|       | <u>0</u> |
|-------|----------|
| 0.0   | 2544.39  |
| 2.5   | 2576.12  |
| 5.0   | 2561.00  |
| 7.5   | 2517.25  |
| 10.0  | 2509.44  |
| 12.5  | 2496.24  |
| 15.0  | 2493.15  |
| 17.5  | 2478.30  |
| 20.0  | 2440.43  |
| 22.5  | 2408.21  |
| 25.0  | 2357.04  |
| 27.5  | 2307.25  |
| 30.0  | 2260.05  |
| 32.5  | 2192.27  |
| 35.0  | 2125.01  |
| 37.5  | 2060.19  |
| 40.0  | 1983.71  |
| 42.5  | 1894.98  |
| 45.0  | 1801.94  |
| 47.5  | 1707.83  |
| 50.0  | 1602.34  |
| 52.5  | 1489.19  |
| 55.0  | 1365.10  |
| 57.5  | 1240.69  |
| 60.0  | 1123.38  |
| 62.5  | 992.07   |
| 65.0  | 870.90   |
| 67.5  | 750.35   |
| 70.0  | 625.30   |
| 72.5  | 499.04   |
| 75.0  | 378.37   |
| 77.5  | 274.85   |
| 80.0  | 182.34   |
| 82.5  | 104.50   |
| 85.0  | 47.42    |
| 87.5  | 13.72    |
| 90.0  | 0.45     |
| 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 | 0.01     |
| 122.5 | 0.00     |
| 125.0 | 0.00     |
| 127.5 | 0.00     |
| 130.0 | 0.00     |
| 132.5 | 0.01     |

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**CANDELA TABULATION - (Cont.)**

|              |      |
|--------------|------|
| <b>135.0</b> | 0.01 |
| <b>137.5</b> | 0.01 |
| <b>140.0</b> | 0.00 |
| <b>142.5</b> | 0.01 |
| <b>145.0</b> | 0.01 |
| <b>147.5</b> | 0.01 |
| <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    | 945.75  | N.A.  | 12.90  |
| 0-30    | 2033.56 | N.A.  | 27.80  |
| 0-40    | 3365.05 | N.A.  | 46.00  |
| 0-60    | 5974.6  | N.A.  | 81.70  |
| 0-80    | 7246.79 | N.A.  | 99.00  |
| 0-90    | 7316.65 | N.A.  | 100.00 |
| 10-90   | 7074.7  | N.A.  | 96.70  |
| 20-40   | 2419.3  | N.A.  | 33.10  |
| 20-50   | 3808.88 | N.A.  | 52.10  |
| 40-70   | 3471.92 | N.A.  | 47.50  |
| 60-80   | 1272.19 | N.A.  | 17.40  |
| 70-80   | 409.82  | N.A.  | 5.60   |
| 80-90   | 69.86   | N.A.  | 1.00   |
| 90-110  | 0.06    | N.A.  | 0.00   |
| 90-120  | 0.06    | N.A.  | 0.00   |
| 90-130  | 0.06    | N.A.  | 0.00   |
| 90-150  | 0.07    | N.A.  | 0.00   |
| 90-180  | 0.07    | N.A.  | 0.00   |
| 110-180 | 0.01    | N.A.  | 0.00   |
| 0-180   | 7316.73 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 241.95  |
| 10-20   | 703.80  |
| 20-30   | 1087.8  |
| 30-40   | 1331.5  |
| 40-50   | 1389.57 |
| 50-60   | 1219.97 |
| 60-70   | 862.37  |
| 70-80   | 409.82  |
| 80-90   | 69.86   |
| 90-100  | 0.06    |
| 100-110 | 0.00    |
| 110-120 | 0.00    |
| 120-130 | 0.00    |
| 130-140 | 0.01    |
| 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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 109 | 105 | 101 | 97  | 107 | 103 | 99  | 95  | 98  | 95  | 92  | 94  | 92  | 90  | 91  | 89  | 87  | 85  |
| 2  | 100 | 92  | 85  | 79  | 97  | 90  | 84  | 78  | 86  | 81  | 77  | 83  | 79  | 75  | 80  | 76  | 73  | 71  |
| 3  | 91  | 81  | 73  | 66  | 88  | 79  | 72  | 66  | 76  | 70  | 64  | 73  | 68  | 63  | 71  | 66  | 62  | 60  |
| 4  | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 61  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |
| 5  | 76  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 61  | 53  | 47  | 59  | 52  | 47  | 57  | 51  | 46  | 44  |
| 6  | 71  | 57  | 48  | 42  | 69  | 56  | 48  | 42  | 55  | 47  | 42  | 53  | 46  | 41  | 51  | 45  | 41  | 39  |
| 7  | 65  | 52  | 43  | 37  | 64  | 51  | 43  | 37  | 50  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 34  |
| 8  | 61  | 47  | 39  | 33  | 59  | 47  | 39  | 33  | 45  | 38  | 33  | 44  | 37  | 33  | 43  | 37  | 32  | 30  |
| 9  | 57  | 43  | 35  | 30  | 55  | 43  | 35  | 30  | 42  | 35  | 29  | 41  | 34  | 29  | 40  | 34  | 29  | 27  |
| 10 | 53  | 40  | 32  | 27  | 52  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 27  | 37  | 31  | 26  | 25  |

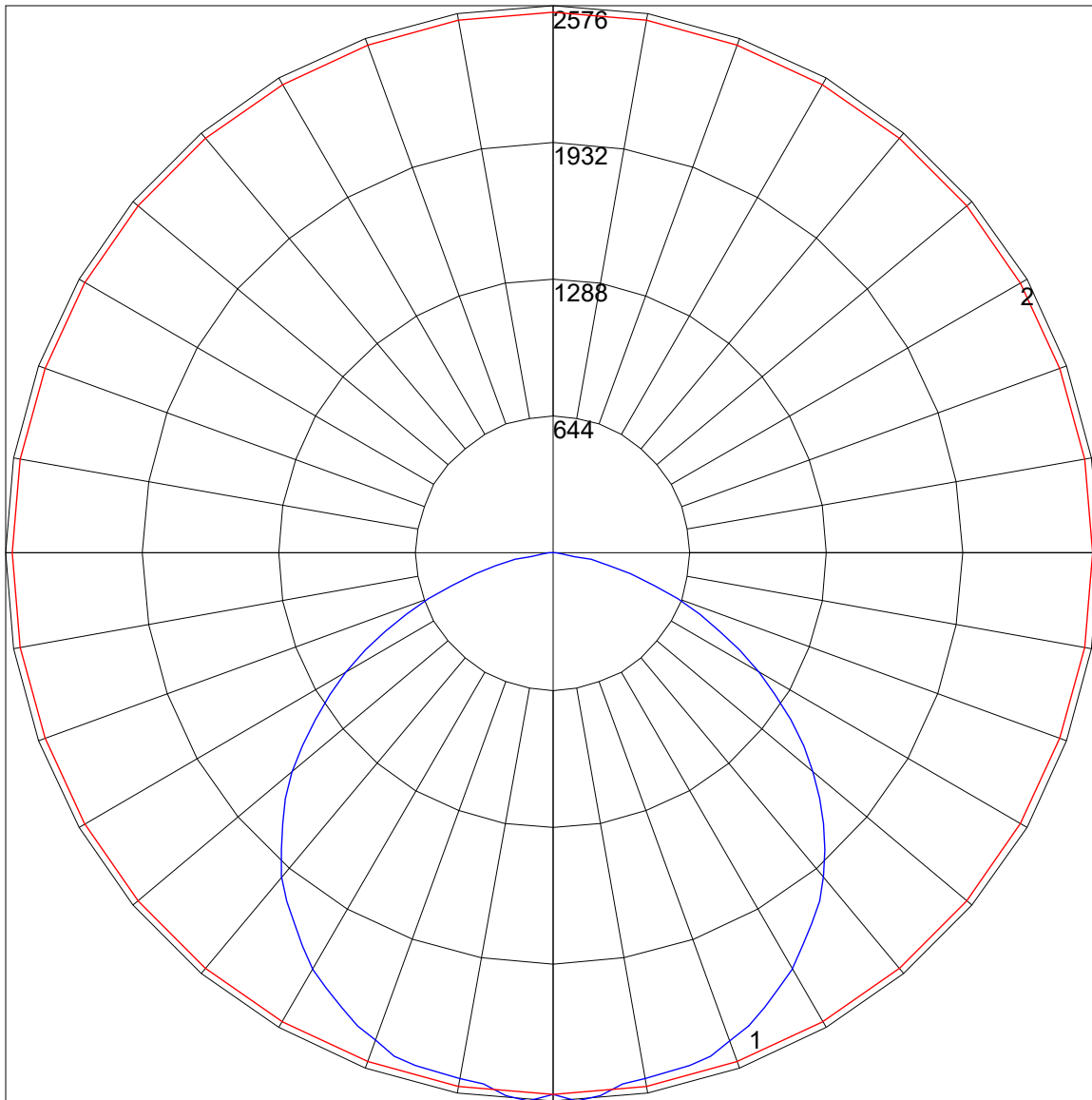
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**UGR TABLE - CORRECTED**

|                |      |                      |      |      |      |      |                    |      |      |      |      |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 19.3                 | 20.9 | 19.7 | 21.3 | 21.6 | 19.3               | 20.9 | 19.7 | 21.3 | 21.6 |
|                | 3H   | 20.8                 | 22.3 | 21.2 | 22.6 | 22.9 | 20.8               | 22.3 | 21.2 | 22.6 | 22.9 |
|                | 4H   | 21.2                 | 22.6 | 21.6 | 22.9 | 23.3 | 21.2               | 22.6 | 21.6 | 22.9 | 23.3 |
|                | 6H   | 21.4                 | 22.7 | 21.8 | 23.1 | 23.4 | 21.4               | 22.7 | 21.8 | 23.1 | 23.4 |
|                | 8H   | 21.5                 | 22.7 | 21.9 | 23.1 | 23.4 | 21.5               | 22.7 | 21.9 | 23.1 | 23.4 |
|                | 12H  | 21.5                 | 22.6 | 21.9 | 23.0 | 23.4 | 21.5               | 22.6 | 21.9 | 23.0 | 23.4 |
| 4H             | 2H   | 19.7                 | 21.1 | 20.1 | 21.4 | 21.8 | 19.7               | 21.1 | 20.1 | 21.4 | 21.8 |
|                | 3H   | 21.3                 | 22.5 | 21.7 | 22.9 | 23.3 | 21.3               | 22.5 | 21.7 | 22.9 | 23.3 |
|                | 4H   | 21.8                 | 22.8 | 22.2 | 23.2 | 23.7 | 21.8               | 22.8 | 22.2 | 23.2 | 23.7 |
|                | 6H   | 22.1                 | 23.0 | 22.5 | 23.4 | 23.9 | 22.1               | 23.0 | 22.5 | 23.4 | 23.9 |
|                | 8H   | 22.1                 | 23.0 | 22.6 | 23.4 | 23.9 | 22.1               | 23.0 | 22.6 | 23.4 | 23.9 |
|                | 12H  | 22.1                 | 22.9 | 22.6 | 23.4 | 23.8 | 22.1               | 22.9 | 22.6 | 23.4 | 23.8 |
| 8H             | 4H   | 21.9                 | 22.7 | 22.4 | 23.2 | 23.6 | 21.9               | 22.7 | 22.4 | 23.2 | 23.6 |
|                | 6H   | 22.2                 | 22.9 | 22.7 | 23.4 | 23.8 | 22.2               | 22.9 | 22.7 | 23.4 | 23.8 |
|                | 8H   | 22.2                 | 22.9 | 22.7 | 23.4 | 23.9 | 22.2               | 22.9 | 22.7 | 23.4 | 23.9 |
|                | 12H  | 22.3                 | 22.8 | 22.8 | 23.3 | 23.9 | 22.3               | 22.8 | 22.8 | 23.3 | 23.9 |
| 12H            | 4H   | 21.9                 | 22.6 | 22.4 | 23.1 | 23.6 | 21.9               | 22.6 | 22.4 | 23.1 | 23.6 |
|                | 6H   | 22.2                 | 22.8 | 22.7 | 23.3 | 23.8 | 22.2               | 22.8 | 22.7 | 23.3 | 23.8 |
|                | 8H   | 22.3                 | 22.8 | 22.8 | 23.3 | 23.8 | 22.3               | 22.8 | 22.8 | 23.3 | 23.8 |

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 2576.12 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)