



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100LED2HTHOWT50120-277V\_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)  
 [ISSUE DATE]  
 [TEST DATE] Mon Apr 12 11:17:41 2021  
 [TEST] 1  
 [MANUFACTURER] BEGHELLI  
 [LUMEN CATEGORY]  
 [LUMINAIRE] BS100LED2HTHOWT50120-277V\_S  
 [LAMP] LED 0.915W DURIS S5 (150mA)  
 [LAMP CATEGORY] GW PSLRS1.PC-LRLT-5L7N-1  
 [OTHER]

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 7716                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 154                 |
| Total Luminaire Watts           | 50                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.20                |
| Spacing Criterion (90-270)      | 1.20                |
| Spacing Criterion (Diagonal)    | 1.36                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 2.28 ft             |
| Luminous Width (90-270)         | 0.55 ft             |
| Luminous Height                 | 0.32 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 18316            | 13894             | 13285             |
| 55                  | 16677            | 11646             | 11015             |
| 65                  | 14463            | 9045              | 8444              |
| 75                  | 11633            | 6151              | 5645              |
| 85                  | 8378             | 3219              | 2882              |

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CANDELA TABULATION

|       | <u>0</u> |
|-------|----------|
| 0.0   | 2739.89  |
| 2.5   | 2575.65  |
| 5.0   | 2587.19  |
| 7.5   | 2581.70  |
| 10.0  | 2530.29  |
| 12.5  | 2510.14  |
| 15.0  | 2461.93  |
| 17.5  | 2414.57  |
| 20.0  | 2380.36  |
| 22.5  | 2333.43  |
| 25.0  | 2293.10  |
| 27.5  | 2242.12  |
| 30.0  | 2187.72  |
| 32.5  | 2115.75  |
| 35.0  | 2049.80  |
| 37.5  | 1978.26  |
| 40.0  | 1903.89  |
| 42.5  | 1829.41  |
| 45.0  | 1735.64  |
| 47.5  | 1641.59  |
| 50.0  | 1558.81  |
| 52.5  | 1451.28  |
| 55.0  | 1348.75  |
| 57.5  | 1247.09  |
| 60.0  | 1145.87  |
| 62.5  | 1036.09  |
| 65.0  | 933.32   |
| 67.5  | 836.07   |
| 70.0  | 731.09   |
| 72.5  | 634.03   |
| 75.0  | 537.73   |
| 77.5  | 439.81   |
| 80.0  | 359.11   |
| 82.5  | 283.96   |
| 85.0  | 222.16   |
| 87.5  | 171.08   |
| 90.0  | 130.06   |
| 92.5  | 99.76    |
| 95.0  | 74.79    |
| 97.5  | 57.20    |
| 100.0 | 44.98    |
| 102.5 | 37.42    |
| 105.0 | 30.03    |
| 107.5 | 25.34    |
| 110.0 | 21.29    |
| 112.5 | 17.17    |
| 115.0 | 14.06    |
| 117.5 | 11.26    |
| 120.0 | 9.03     |
| 122.5 | 7.30     |
| 125.0 | 5.62     |
| 127.5 | 4.28     |
| 130.0 | 3.09     |
| 132.5 | 2.08     |

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**CANDELA TABULATION - (Cont.)**

|              |      |
|--------------|------|
| <b>135.0</b> | 1.60 |
| <b>137.5</b> | 0.97 |
| <b>140.0</b> | 0.53 |
| <b>142.5</b> | 0.27 |
| <b>145.0</b> | 0.22 |
| <b>147.5</b> | 0.17 |
| <b>150.0</b> | 0.20 |
| <b>152.5</b> | 0.34 |
| <b>155.0</b> | 0.54 |
| <b>157.5</b> | 0.55 |
| <b>160.0</b> | 0.79 |
| <b>162.5</b> | 0.96 |
| <b>165.0</b> | 0.75 |
| <b>167.5</b> | 1.38 |
| <b>170.0</b> | 1.02 |
| <b>172.5</b> | 1.17 |
| <b>175.0</b> | 0.58 |
| <b>177.5</b> | 1.22 |
| <b>180.0</b> | 1.04 |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 940.96  | N.A.  | 12.20  |
| 0-30    | 1997.52 | N.A.  | 25.90  |
| 0-40    | 3280.27 | N.A.  | 42.50  |
| 0-60    | 5827.29 | N.A.  | 75.50  |
| 0-80    | 7322.72 | N.A.  | 94.90  |
| 0-90    | 7573.84 | N.A.  | 98.20  |
| 10-90   | 7327.95 | N.A.  | 95.00  |
| 20-40   | 2339.31 | N.A.  | 30.30  |
| 20-50   | 3678.81 | N.A.  | 47.70  |
| 40-70   | 3473.52 | N.A.  | 45.00  |
| 60-80   | 1495.42 | N.A.  | 19.40  |
| 70-80   | 568.93  | N.A.  | 7.40   |
| 80-90   | 251.13  | N.A.  | 3.30   |
| 90-110  | 120.59  | N.A.  | 1.60   |
| 90-120  | 134.97  | N.A.  | 1.70   |
| 90-130  | 140.24  | N.A.  | 1.80   |
| 90-150  | 141.68  | N.A.  | 1.80   |
| 90-180  | 142.27  | N.A.  | 1.80   |
| 110-180 | 21.68   | N.A.  | 0.30   |
| 0-180   | 7716.11 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 245.90  |
| 10-20   | 695.07  |
| 20-30   | 1056.56 |
| 30-40   | 1282.75 |
| 40-50   | 1339.5  |
| 50-60   | 1207.52 |
| 60-70   | 926.50  |
| 70-80   | 568.93  |
| 80-90   | 251.13  |
| 90-100  | 87.19   |
| 100-110 | 33.40   |
| 110-120 | 14.38   |
| 120-130 | 5.27    |
| 130-140 | 1.28    |
| 140-150 | 0.16    |
| 150-160 | 0.22    |
| 160-170 | 0.28    |
| 170-180 | 0.09    |

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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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1  | 108 | 103 | 98  | 94  | 105 | 100 | 96  | 92  | 96  | 92  | 89  | 91  | 88  | 86  | 87  | 85  | 83  | 81 |
| 2  | 98  | 89  | 82  | 76  | 95  | 87  | 81  | 75  | 83  | 78  | 73  | 80  | 75  | 71  | 76  | 73  | 69  | 67 |
| 3  | 89  | 78  | 70  | 63  | 86  | 76  | 69  | 62  | 73  | 66  | 61  | 70  | 64  | 60  | 67  | 62  | 58  | 56 |
| 4  | 81  | 69  | 60  | 53  | 79  | 68  | 59  | 53  | 65  | 58  | 52  | 62  | 56  | 51  | 60  | 54  | 50  | 48 |
| 5  | 75  | 62  | 52  | 46  | 72  | 60  | 52  | 45  | 58  | 51  | 45  | 56  | 49  | 44  | 54  | 48  | 43  | 41 |
| 6  | 69  | 55  | 46  | 40  | 67  | 54  | 46  | 40  | 52  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 36 |
| 7  | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 48  | 40  | 35  | 46  | 39  | 34  | 44  | 38  | 34  | 32 |
| 8  | 59  | 46  | 37  | 31  | 58  | 45  | 37  | 31  | 44  | 36  | 31  | 42  | 35  | 31  | 41  | 35  | 30  | 28 |
| 9  | 56  | 42  | 34  | 28  | 54  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 38  | 32  | 27  | 25 |
| 10 | 52  | 39  | 31  | 25  | 51  | 38  | 31  | 25  | 37  | 30  | 25  | 36  | 30  | 25  | 35  | 29  | 25  | 23 |

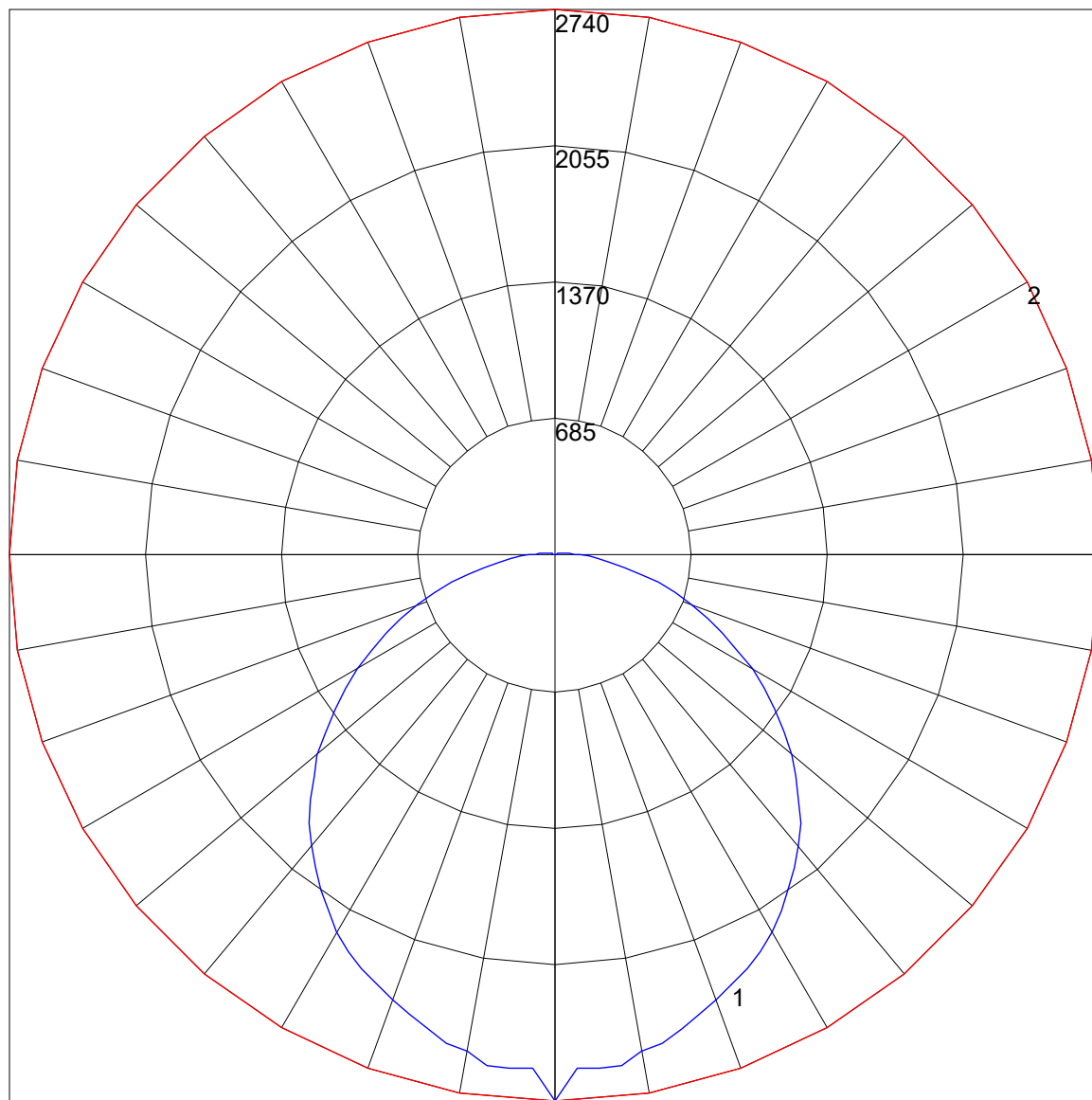
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**UGR TABLE - CORRECTED**

|                |      |                      |      |      |      |      |                    |      |      |      |      |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 20.9                 | 22.6 | 21.3 | 22.9 | 23.3 | 20.9               | 22.6 | 21.3 | 22.9 | 23.3 |
|                | 3H   | 22.7                 | 24.2 | 23.1 | 24.5 | 24.9 | 22.7               | 24.2 | 23.1 | 24.5 | 24.9 |
|                | 4H   | 23.4                 | 24.7 | 23.8 | 25.1 | 25.6 | 23.4               | 24.7 | 23.8 | 25.1 | 25.6 |
|                | 6H   | 23.9                 | 25.1 | 24.3 | 25.5 | 26.0 | 23.9               | 25.1 | 24.3 | 25.5 | 26.0 |
|                | 8H   | 24.1                 | 25.3 | 24.5 | 25.7 | 26.1 | 24.1               | 25.3 | 24.5 | 25.7 | 26.1 |
|                | 12H  | 24.2                 | 25.4 | 24.7 | 25.8 | 26.3 | 24.2               | 25.4 | 24.7 | 25.8 | 26.3 |
| 4H             | 2H   | 21.4                 | 22.8 | 21.8 | 23.2 | 23.6 | 21.4               | 22.8 | 21.8 | 23.2 | 23.6 |
|                | 3H   | 23.3                 | 24.5 | 23.8 | 24.9 | 25.4 | 23.3               | 24.5 | 23.8 | 24.9 | 25.4 |
|                | 4H   | 24.1                 | 25.1 | 24.5 | 25.6 | 26.1 | 24.1               | 25.1 | 24.5 | 25.6 | 26.1 |
|                | 6H   | 24.7                 | 25.6 | 25.2 | 26.1 | 26.6 | 24.7               | 25.6 | 25.2 | 26.1 | 26.6 |
|                | 8H   | 24.9                 | 25.8 | 25.4 | 26.3 | 26.8 | 24.9               | 25.8 | 25.4 | 26.3 | 26.8 |
|                | 12H  | 25.1                 | 25.9 | 25.6 | 26.4 | 27.0 | 25.1               | 25.9 | 25.6 | 26.4 | 27.0 |
| 8H             | 4H   | 24.3                 | 25.1 | 24.7 | 25.6 | 26.1 | 24.3               | 25.1 | 24.7 | 25.6 | 26.1 |
|                | 6H   | 25.0                 | 25.7 | 25.5 | 26.2 | 26.7 | 25.0               | 25.7 | 25.5 | 26.2 | 26.7 |
|                | 8H   | 25.3                 | 25.9 | 25.8 | 26.5 | 27.0 | 25.3               | 25.9 | 25.8 | 26.5 | 27.0 |
|                | 12H  | 25.6                 | 26.1 | 26.1 | 26.7 | 27.3 | 25.6               | 26.1 | 26.1 | 26.7 | 27.3 |
| 12H            | 4H   | 24.3                 | 25.1 | 24.8 | 25.6 | 26.1 | 24.3               | 25.1 | 24.8 | 25.6 | 26.1 |
|                | 6H   | 25.0                 | 25.7 | 25.5 | 26.2 | 26.7 | 25.0               | 25.7 | 25.5 | 26.2 | 26.7 |
|                | 8H   | 25.3                 | 25.9 | 25.9 | 26.4 | 27.0 | 25.3               | 25.9 | 25.9 | 26.4 | 27.0 |

Maximum UGR = 27.3

POLAR GRAPH



Maximum Candela = 2739.89 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)