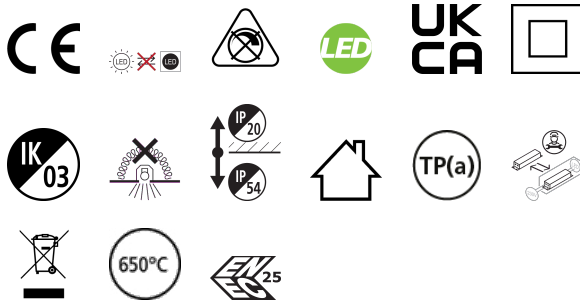


# Quantum IP54 1200x300 Multipower 4500lm 840

Item No: 0044641

**SYLVANIA**

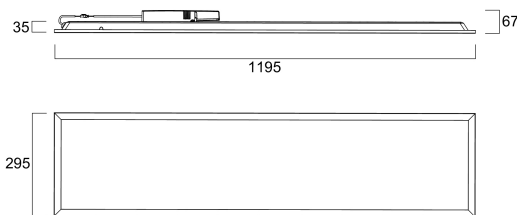
**PRO**<sup>TM</sup>



Quantum is a range of recessed integrated LED panels for general indoor lighting applications such as breakout areas, offices and meeting rooms. With the help of DIP Switch multiple lumen outputs can be set up in 4 steps (22W 3400lm, 24W 3750lm, 26W 4100lm, 28W 4500lm). Lumen output using EM kit: ~500lm. Max. drive current: 600mA; Lifespan: 120.000Hrs L70:B50; 4000K; CRI 80; Efficacy up to: 161Lm/W; Glare control <19; IK03; IP54 (from the front); Class II; Tp(a) rated diffuser that self-extinguishes within 5 sec when a flame has been removed.

## Technical Assets

### Dimensions (mm)



### Photometrics

| Distance [m] | Cone diameter [m] | Beam angle [°] | Beam diameter [m] | Beam area [m²] | Illuminance [lx] |
|--------------|-------------------|----------------|-------------------|----------------|------------------|
| 0.5          | 0.59              | 60°            | 0.59              | 1.13           | 650              |
| 1.0          | 1.18              | 60°            | 1.18              | 4.52           | 163              |
| 1.5          | 1.77              | 60°            | 1.77              | 10.0           | 65               |
| 2.0          | 2.36              | 60°            | 2.36              | 17.8           | 36               |
| 2.5          | 2.95              | 60°            | 2.95              | 27.2           | 24               |
| 3.0          | 3.54              | 60°            | 3.54              | 38.1           | 17               |
| 3.5          | 4.13              | 60°            | 4.13              | 50.5           | 12               |
| 4.0          | 4.72              | 60°            | 4.72              | 64.3           | 9                |
| 4.5          | 5.31              | 60°            | 5.31              | 79.5           | 7                |
| 5.0          | 5.90              | 60°            | 5.90              | 96.1           | 5                |
| 5.5          | 6.49              | 60°            | 6.49              | 114.1          | 4                |
| 6.0          | 7.08              | 60°            | 7.08              | 133.4          | 3                |
| 6.5          | 7.67              | 60°            | 7.67              | 154.0          | 2                |
| 7.0          | 8.26              | 60°            | 8.26              | 175.8          | 1                |
| 7.5          | 8.85              | 60°            | 8.85              | 200.0          | 1                |
| 8.0          | 9.44              | 60°            | 9.44              | 226.5          | 1                |
| 8.5          | 10.03             | 60°            | 10.03             | 255.4          | 1                |
| 9.0          | 10.62             | 60°            | 10.62             | 286.7          | 1                |
| 9.5          | 11.21             | 60°            | 11.21             | 320.4          | 1                |
| 10.0         | 11.80             | 60°            | 11.80             | 357.5          | 1                |
| 10.5         | 12.39             | 60°            | 12.39             | 400.0          | 1                |
| 11.0         | 12.98             | 60°            | 12.98             | 448.0          | 1                |
| 11.5         | 13.57             | 60°            | 13.57             | 502.5          | 1                |
| 12.0         | 14.16             | 60°            | 14.16             | 564.0          | 1                |
| 12.5         | 14.75             | 60°            | 14.75             | 632.5          | 1                |
| 13.0         | 15.34             | 60°            | 15.34             | 709.0          | 1                |
| 13.5         | 15.93             | 60°            | 15.93             | 794.0          | 1                |
| 14.0         | 16.52             | 60°            | 16.52             | 888.0          | 1                |
| 14.5         | 17.11             | 60°            | 17.11             | 991.0          | 1                |
| 15.0         | 17.70             | 60°            | 17.70             | 1104.0         | 1                |
| 15.5         | 18.29             | 60°            | 18.29             | 1228.0         | 1                |
| 16.0         | 18.88             | 60°            | 18.88             | 1364.0         | 1                |
| 16.5         | 19.47             | 60°            | 19.47             | 1513.0         | 1                |
| 17.0         | 20.06             | 60°            | 20.06             | 1675.0         | 1                |
| 17.5         | 20.65             | 60°            | 20.65             | 1851.0         | 1                |
| 18.0         | 21.24             | 60°            | 21.24             | 2042.0         | 1                |
| 18.5         | 21.83             | 60°            | 21.83             | 2250.0         | 1                |
| 19.0         | 22.42             | 60°            | 22.42             | 2475.0         | 1                |
| 19.5         | 23.01             | 60°            | 23.01             | 2719.0         | 1                |
| 20.0         | 23.60             | 60°            | 23.60             | 2992.0         | 1                |
| 20.5         | 24.19             | 60°            | 24.19             | 3286.0         | 1                |
| 21.0         | 24.78             | 60°            | 24.78             | 3603.0         | 1                |
| 21.5         | 25.37             | 60°            | 25.37             | 3945.0         | 1                |
| 22.0         | 25.96             | 60°            | 25.96             | 4314.0         | 1                |
| 22.5         | 26.55             | 60°            | 26.55             | 4714.0         | 1                |
| 23.0         | 27.14             | 60°            | 27.14             | 5147.0         | 1                |
| 23.5         | 27.73             | 60°            | 27.73             | 5616.0         | 1                |
| 24.0         | 28.32             | 60°            | 28.32             | 6124.0         | 1                |
| 24.5         | 28.91             | 60°            | 28.91             | 6674.0         | 1                |
| 25.0         | 29.50             | 60°            | 29.50             | 7269.0         | 1                |
| 25.5         | 30.09             | 60°            | 30.09             | 7913.0         | 1                |
| 26.0         | 30.68             | 60°            | 30.68             | 8609.0         | 1                |
| 26.5         | 31.27             | 60°            | 31.27             | 9361.0         | 1                |
| 27.0         | 31.86             | 60°            | 31.86             | 10174.0        | 1                |
| 27.5         | 32.45             | 60°            | 32.45             | 11053.0        | 1                |
| 28.0         | 33.04             | 60°            | 33.04             | 12004.0        | 1                |
| 28.5         | 33.63             | 60°            | 33.63             | 13034.0        | 1                |
| 29.0         | 34.22             | 60°            | 34.22             | 14150.0        | 1                |
| 29.5         | 34.81             | 60°            | 34.81             | 15359.0        | 1                |
| 30.0         | 35.40             | 60°            | 35.40             | 16668.0        | 1                |
| 30.5         | 35.99             | 60°            | 35.99             | 18085.0        | 1                |
| 31.0         | 36.58             | 60°            | 36.58             | 19617.0        | 1                |
| 31.5         | 37.17             | 60°            | 37.17             | 21272.0        | 1                |
| 32.0         | 37.76             | 60°            | 37.76             | 23059.0        | 1                |
| 32.5         | 38.35             | 60°            | 38.35             | 24987.0        | 1                |
| 33.0         | 38.94             | 60°            | 38.94             | 27065.0        | 1                |
| 33.5         | 39.53             | 60°            | 39.53             | 29303.0        | 1                |
| 34.0         | 40.12             | 60°            | 40.12             | 31712.0        | 1                |
| 34.5         | 40.71             | 60°            | 40.71             | 34303.0        | 1                |
| 35.0         | 41.30             | 60°            | 41.30             | 37087.0        | 1                |
| 35.5         | 41.89             | 60°            | 41.89             | 40076.0        | 1                |
| 36.0         | 42.48             | 60°            | 42.48             | 43282.0        | 1                |
| 36.5         | 43.07             | 60°            | 43.07             | 46718.0        | 1                |
| 37.0         | 43.66             | 60°            | 43.66             | 50398.0        | 1                |
| 37.5         | 44.25             | 60°            | 44.25             | 54337.0        | 1                |
| 38.0         | 44.84             | 60°            | 44.84             | 58551.0        | 1                |
| 38.5         | 45.43             | 60°            | 45.43             | 63056.0        | 1                |
| 39.0         | 46.02             | 60°            | 46.02             | 67870.0        | 1                |
| 39.5         | 46.61             | 60°            | 46.61             | 72999.0        | 1                |
| 40.0         | 47.20             | 60°            | 47.20             | 78451.0        | 1                |
| 40.5         | 47.79             | 60°            | 47.79             | 84244.0        | 1                |
| 41.0         | 48.38             | 60°            | 48.38             | 90388.0        | 1                |
| 41.5         | 48.97             | 60°            | 48.97             | 96893.0        | 1                |
| 42.0         | 49.56             | 60°            | 49.56             | 103770.0       | 1                |
| 42.5         | 50.15             | 60°            | 50.15             | 111031.0       | 1                |
| 43.0         | 50.74             | 60°            | 50.74             | 118689.0       | 1                |
| 43.5         | 51.33             | 60°            | 51.33             | 126767.0       | 1                |
| 44.0         | 51.92             | 60°            | 51.92             | 135289.0       | 1                |
| 44.5         | 52.51             | 60°            | 52.51             | 144270.0       | 1                |
| 45.0         | 53.10             | 60°            | 53.10             | 153735.0       | 1                |
| 45.5         | 53.69             | 60°            | 53.69             | 163700.0       | 1                |
| 46.0         | 54.28             | 60°            | 54.28             | 174183.0       | 1                |
| 46.5         | 54.87             | 60°            | 54.87             | 185201.0       | 1                |
| 47.0         | 55.46             | 60°            | 55.46             | 196772.0       | 1                |
| 47.5         | 56.05             | 60°            | 56.05             | 208915.0       | 1                |
| 48.0         | 56.64             | 60°            | 56.64             | 221650.0       | 1                |
| 48.5         | 57.23             | 60°            | 57.23             | 234996.0       | 1                |
| 49.0         | 57.82             | 60°            | 57.82             | 248973.0       | 1                |
| 49.5         | 58.41             | 60°            | 58.41             | 263602.0       | 1                |
| 50.0         | 59.00             | 60°            | 59.00             | 278905.0       | 1                |
| 50.5         | 59.59             | 60°            | 59.59             | 294904.0       | 1                |
| 51.0         | 60.18             | 60°            | 60.18             | 311631.0       | 1                |
| 51.5         | 60.77             | 60°            | 60.77             | 329109.0       | 1                |
| 52.0         | 61.36             | 60°            | 61.36             | 347371.0       | 1                |
| 52.5         | 61.95             | 60°            | 61.95             | 366441.0       | 1                |
| 53.0         | 62.54             | 60°            | 62.54             | 386344.0       | 1                |
| 53.5         | 63.13             | 60°            | 63.13             | 407106.0       | 1                |
| 54.0         | 63.72             | 60°            | 63.72             | 428754.0       | 1                |
| 54.5         | 64.31             | 60°            | 64.31             | 451315.0       | 1                |
| 55.0         | 64.90             | 60°            | 64.90             | 474817.0       | 1                |
| 55.5         | 65.49             | 60°            | 65.49             | 499290.0       | 1                |
| 56.0         | 66.08             | 60°            | 66.08             | 524763.0       | 1                |
| 56.5         | 66.67             | 60°            | 66.67             | 551267.0       | 1                |
| 57.0         | 67.26             | 60°            | 67.26             | 578833.0       | 1                |
| 57.5         | 67.85             | 60°            | 67.85             | 607492.0       | 1                |
| 58.0         | 68.44             | 60°            | 68.44             | 637277.0       | 1                |
| 58.5         | 69.03             | 60°            | 69.03             | 668229.0       | 1                |
| 59.0         | 69.62             | 60°            | 69.62             | 700391.0       | 1                |
| 59.5         | 70.21             | 60°            | 70.21             | 733796.0       | 1                |
| 60.0         | 70.80             | 60°            | 70.80             | 768487.0       | 1                |
| 60.5         | 71.39             | 60°            | 71.39             | 804500.0       | 1                |
| 61.0         | 71.98             | 60°            | 71.98             | 841869.0       | 1                |
| 61.5         | 72.57             | 60°            | 72.57             | 880630.0       | 1                |
| 62.0         | 73.16             | 60°            | 73.16             | 920820.0       | 1                |
| 62.5         | 73.75             | 60°            | 73.75             | 962475.0       | 1                |
| 63.0         | 74.34             | 60°            | 74.34             | 1005632.0      | 1                |
| 63.5         | 74.93             | 60°            | 74.93             | 1050330.0      | 1                |
| 64.0         | 75.52             | 60°            | 75.52             | 1096607.0      | 1                |
| 64.5         | 76.11             | 60°            | 76.11             | 1144503.0      | 1                |
| 65.0         | 76.70             | 60°            | 76.70             | 1194059.0      | 1                |
| 65.5         | 77.29             | 60°            | 77.29             | 1245325.0      | 1                |
| 66.0         | 77.88             | 60°            | 77.88             | 1298352.0      | 1                |
| 66.5         | 78.47             | 60°            | 78.47             | 1353189.0      | 1                |
| 67.0         | 79.06             | 60°            | 79.06             | 1409887.0      | 1                |
| 67.5         | 79.65             | 60°            | 79.65             | 1468406.0      | 1                |
| 68.0         | 80.24             | 60°            | 80.24             | 1528797.0      | 1                |
| 68.5         | 80.83             | 60°            | 80.83             | 1591021.0      | 1                |
| 69.0         | 81.42             | 60°            | 81.42             | 1655140.0      | 1                |
| 69.5         | 82.01             | 60°            | 82.01             | 1721115.0      | 1                |
| 70.0         | 82.60             | 60°            | 82.60             | 1789010.0      | 1                |
| 70.5         | 83.19             | 60°            | 83.19             | 1858889.0      | 1                |
| 71.0         | 83.78             | 60°            | 83.78             | 1930807.0      | 1                |
| 71.5         | 84.37             | 60°            | 84.37             | 2004830.0      | 1                |
| 72.0         | 84.96             | 60°            | 84.96             | 2080924.0      | 1                |
| 72.5         | 85.55             | 60°            | 85.55             | 2159155.0      | 1                |
| 73.0         | 86.14             | 60°            | 86.14             | 2239590.0      | 1                |
| 73.5         | 86.73             | 60°            | 86.73             | 2322307.0      | 1                |
| 74.0         | 87.32             | 60°            | 87.32             | 2407374.0      | 1                |
| 74.5         | 87.91             | 60°            | 87.91             | 2494869.0      | 1                |
| 75.0         | 88.50             | 60°            | 88.50             | 2584871.0      | 1                |
| 75.5         | 89.09             | 60°            | 89.09             | 2677450.0      | 1                |
| 76.0         | 89.68             | 60°            | 89.68             | 2772687.0      | 1                |
| 76.5         | 90.27             | 60°            | 90.27             | 2870664.0      | 1                |
| 77.0         | 90.86             | 60°            | 90.86             | 2971471.0      | 1                |
| 77.5         | 91.45             | 60°            | 91.45             | 3075090.0      | 1                |
| 78.0         | 92.04             | 60°            | 92.04             | 3181604.0      | 1                |
| 78.5         | 92.63             | 60°            | 92.63             | 3291107.0      | 1                |
| 79.0         | 93.22             | 60°            | 93.22             | 3403694.0      | 1                |
| 79.5         | 93.81             | 60°            | 93.81             | 3519450.0      | 1                |
| 80.0         | 94.40             | 60°            | 94.40             | 3638461.0      | 1                |
| 80.5         | 94.99             | 60°            | 94.99             | 3760814.0      | 1                |
| 81.0         | 95.58             | 60°            | 95.58             | 3886607.0      | 1                |
| 81.5         | 96.17             | 60°            | 96.17             | 4015937.0      | 1                |
| 82.0         | 96.76             | 60°            | 96.76             | 4148991.0      | 1                |
| 82.5         | 97.35             | 60°            | 97.35             | 4285867.0      | 1                |
| 83.0         | 97.94             | 60°            | 97.94             | 4426664.0      | 1                |
| 83.5         | 98.53             | 60°            | 98.53             | 4571481.0      | 1                |
| 84.0         | 99.12             | 60°            | 99.12             | 4720418.0      | 1                |
| 84.5         | 99.71             | 60°            | 99.71             | 4873584.0      | 1                |
| 85.0         | 100.30            | 60°            | 100.30            | 5031089.0      | 1                |
| 85.5         | 100.89            | 60°            | 100.89            | 5193034.0      | 1                |
| 86.0         | 101.48            | 60°            | 101.48            | 5359530.0      | 1                |
| 86.5         | 102.07            | 60°            | 102.07            | 5530677.0      | 1                |
| 87.0         | 102.66            | 60°            | 102.66            | 5706575.0      | 1                |
| 87.5         | 103.25            | 60°            | 103.25            | 5887324.0      | 1                |
| 88.0         | 103.84            | 60°            | 103.84            | 6072935.0      | 1                |
| 88.5         | 104.43            | 60°            | 104.43            | 6263510.0      | 1                |
| 89.0         | 105.02            | 60°            | 105.02            | 6459161.0      | 1                |
| 89.5         | 105.61            | 60°            | 105.61            | 6659990.0      | 1                |
| 90.0         | 106.20            | 60°            | 106.20            | 6866009.0      | 1                |
| 90.5         | 106.79            | 60°            | 106.79            | 7077330.0      | 1                |
| 91.0         | 107.38            | 60°            | 107.38            | 7293965.0      | 1                |
| 91.5         | 107.97            | 60°            | 107.97            | 7516017.0      | 1                |
| 92.0         | 108.56            | 60°            | 108.56            | 7743600.0      | 1                |
| 92.5         | 109.15            | 60°            | 109.15            | 7976827.0      | 1                |
| 93.0         | 109.74            | 60°            | 109.74            | 8215802.0      | 1                |
| 93.5         | 110.33            | 60°            | 110.33            | 8460639.0      | 1                |
| 94.0         | 110.92            | 60°            | 110.92            | 8711451.0      | 1                |
| 94.5         | 111.51            | 60°            | 111.51            | 8968351.0      | 1                |
| 95.0         | 112.10            | 60°            | 112.10            | 9231453.0      | 1                |
| 95.5         | 112.69            | 60°            | 112.69            | 9499870.0      | 1                |
| 96.0         | 113.28            | 60°            | 113.28            | 9773717.0      | 1                |
| 96.5         | 113.87            | 60°            | 113.87            | 10053108.0     | 1                |
| 97.0         | 114.46            | 60°            | 114.46            | 10338157.0     | 1                |
| 97.5         | 115.05</          |                |                   |                |                  |

# Quantum IP54 1200x300 Multipower 4500lm 840

Item No: 0044641

**SYLVANIA**

## General data

|                                  |                                                   |
|----------------------------------|---------------------------------------------------|
| Product name                     | Quantum IP54<br>1200x300 Multipower<br>4500lm 840 |
| Technology                       | LED                                               |
| Cap/Base                         | N/A                                               |
| Housing                          | Steel                                             |
| Mount                            | Ceiling recessed<br>mounting                      |
| Built in presence detector       | NONE                                              |
| General application              | Office, Education                                 |
| Operating temperature range (°C) | -20°C...+40°C                                     |
| Virtual assistant compatibility  | N/A                                               |
| ETIM Class                       | EC002892                                          |
| E-number FI                      | 4279427                                           |
| Warranty                         | 5 years                                           |

## Optical data

|                                   |               |
|-----------------------------------|---------------|
| Fixture luminous flux (lm)        | 4500          |
| Luminaire efficacy (lm/W)         | 161           |
| Correlated colour temperature (k) | 4000          |
| Light colour                      | Neutral White |
| CRI (Ra)                          | 80            |
| Colour Variation Initial (SDCM)   | SDCM3         |
| Beam Angle (°)                    | 85            |
| Distribution type                 | Symmetric     |
| Glare control                     | < 19          |
| Photobiological Risk Group        | RG0           |

## Electrical data

|                                                                  |                                |
|------------------------------------------------------------------|--------------------------------|
| Emergency type                                                   |                                |
| Total power consumption (W)                                      | 28                             |
| Primary Supply/Product voltage - min (V)                         | 220.0                          |
| Primary Supply/Product voltage - max (V)                         | 240.0                          |
| Lamp power factor                                                | 0.9                            |
| THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x % | 20.0                           |
| Electrical protection                                            | Class II                       |
| Control gear type                                                | LED driver constant<br>current |
| Dimmable                                                         | No                             |
| Dimming method                                                   | N/A                            |
| Drive current (mA)                                               | 600                            |
| Inrush Current (A)                                               | 11.9                           |
| Inrush Duration (µs)                                             | 390                            |
| Energy Efficiency Class (A->G) of contained light source         | A                              |
| Nominal Frequency (Hz)                                           | 50/60Hz                        |
| LED Flickering Rate                                              | Ultra low (5% or less)         |
| Max. products per 10A C Breaker                                  | 18                             |
| Max. products per 16A C Breaker                                  | 29                             |
| Max. products per 16A B Breaker                                  | 17                             |
| Connectable conductor cross section - Min (mm²)                  | 0.75                           |
| Connectable conductor cross section - Max (mm²)                  | 2.5                            |

# Quantum IP54 1200x300 Multipower 4500lm 840

Item No: 0044641



## Lifetime data

|                  |        |
|------------------|--------|
| Lifespan L70 B50 | 120000 |
| Lifespan L70 B20 | 120000 |
| Lifespan L70 B10 | 120000 |
| Lifespan L80 B50 | 105000 |
| Lifespan L80 B20 | 95000  |
| Lifespan L80 B10 | 85000  |
| Lifespan L90 B50 | 51000  |
| Lifespan L90 B20 | 47000  |
| Lifespan L90 B10 | 44000  |

## Physical data

|                             |                         |
|-----------------------------|-------------------------|
| Housing colour              | RAL 9003 - Signal white |
| IP rating                   | IP54/20                 |
| IK rating                   | IK03                    |
| Diffuser finish             | Diffuse                 |
| Diffuser material           | PS Polystyrene          |
| Nominal Product Length (mm) | 1195                    |
| Nominal Product Width (mm)  | 295                     |
| Nominal Product Height (mm) | 35                      |
| Weight (kg)                 | 2.24                    |

## Packaging

|                                       |                |
|---------------------------------------|----------------|
| Product EAN number                    | 5410288446417  |
| Packaging single length / height (cm) | 124.3          |
| Packaging single width (cm)           | 3.5            |
| Packaging single depth (cm)           | 29.8           |
| DUN14 (inner)                         | 15410288446414 |
| Units per outer package               | 4              |
| Packaging outer length / height (cm)  | 126.3          |
| Packaging outer width (cm)            | 16.2           |
| Packaging outer depth (cm)            | 32.8           |

## Safety data

|                                  |        |
|----------------------------------|--------|
| Glow Wire Test (°C)              | 650    |
| Optimal operating condition (°C) | -20-40 |