

Photometric test report

Family  
Silica® 21



Order number: 51MX20DA32BB  
EAN: 4058352898505

Version

Lamps

Controlgear

Rated values

surface-mounted luminaire, with homogeneous illumination, cover, opal, direct distribution, extremely wide distribution

LED 3000 K | CRI ≥ 80

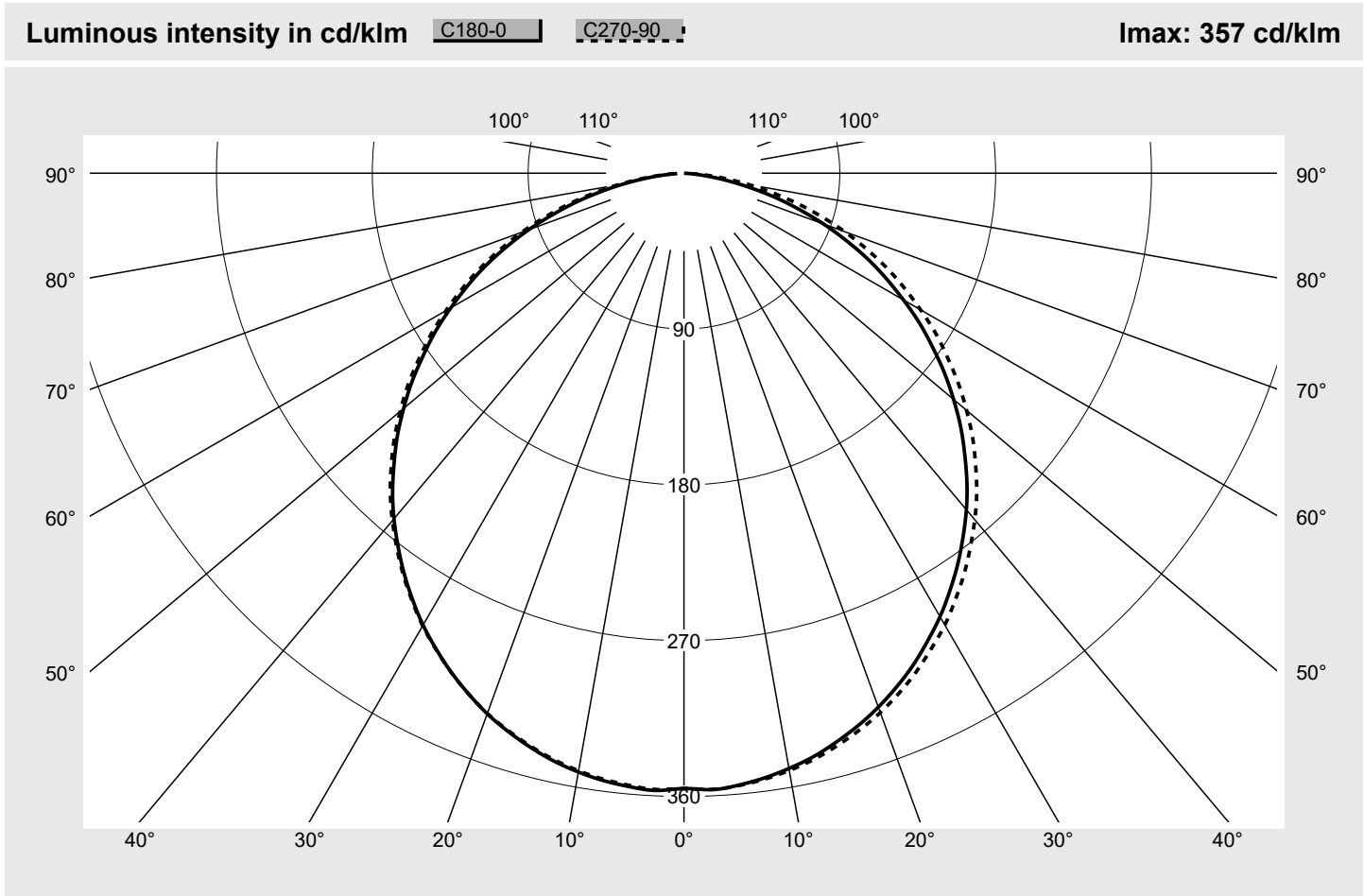
ECG-DALI

Net luminous flux = 2400 lm  
Power consumption = 16.1 W  
Luminous efficacy = 149.1 lm/W

LP number  
59411\_337

serial  
documentation  
17.12.2024

siteco



| Classifications |                   | Luminaire light output ratios |        |
|-----------------|-------------------|-------------------------------|--------|
| DIN 5040        | A 4 0             | $\eta_{LB}$                   | 100.0% |
| CIE             | N1=48 N2=79 N3=96 | $\phi_u$                      | 100.0% |
|                 | N4=100 N5=100     | $\phi_o$                      | 0.0%   |

| Measurement conditions    |  |
|---------------------------|--|
| DIN EN 13032 and DIN 5032 |  |

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Silica® 21                     | Order number: 51MX20DA32BB<br>EAN: 4058352898505 | LP number<br>59411_337     |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |

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| C-<br>planes | 0,0°                         | 7,5°  | 15,0° | 22,5° | 30,0° | 37,5° | 45,0° | 52,5° | 60,0° | 67,5° | 75,0° | 82,5° | 90,0° | 97,5° |
|--------------|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| γ            | Luminous intensity in cd/klm |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 0,0°         | 355.4                        | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 | 355.4 |
| 2,5°         | 356.4                        | 355.8 | 356.2 | 353.4 | 352.1 | 352.5 | 353.4 | 355.3 | 355.9 | 356.2 | 355.9 | 356.5 | 356.3 | 355.3 |
| 5,0°         | 355.0                        | 354.3 | 354.7 | 351.9 | 350.7 | 351.1 | 352.1 | 354.0 | 354.7 | 354.8 | 354.6 | 355.3 | 355.2 | 354.2 |
| 7,5°         | 352.5                        | 351.9 | 352.3 | 349.8 | 348.5 | 348.9 | 349.9 | 351.8 | 352.6 | 352.6 | 352.7 | 353.3 | 353.2 | 352.1 |
| 10,0°        | 349.1                        | 348.7 | 349.1 | 346.5 | 345.3 | 345.7 | 346.8 | 348.6 | 349.7 | 349.5 | 349.8 | 350.5 | 350.3 | 349.4 |
| 12,5°        | 345.2                        | 344.9 | 345.2 | 342.8 | 341.6 | 342.0 | 343.0 | 344.9 | 346.1 | 345.7 | 346.1 | 346.8 | 346.8 | 345.8 |
| 15,0°        | 340.1                        | 339.9 | 340.4 | 337.9 | 336.8 | 337.2 | 338.2 | 340.0 | 341.2 | 341.1 | 341.4 | 342.4 | 342.3 | 341.4 |
| 17,5°        | 334.5                        | 334.3 | 334.8 | 332.6 | 331.3 | 331.9 | 332.9 | 334.5 | 336.0 | 335.8 | 336.3 | 337.1 | 337.2 | 336.4 |
| 20,0°        | 328.2                        | 328.1 | 328.8 | 326.4 | 325.4 | 325.6 | 327.1 | 328.3 | 330.1 | 329.6 | 330.4 | 331.1 | 331.5 | 330.4 |
| 22,5°        | 321.1                        | 321.1 | 321.7 | 319.6 | 318.6 | 318.8 | 320.0 | 321.5 | 323.3 | 322.7 | 323.5 | 324.7 | 324.9 | 324.0 |
| 25,0°        | 313.4                        | 313.3 | 314.2 | 311.9 | 311.2 | 311.1 | 312.6 | 313.6 | 315.7 | 315.2 | 316.3 | 317.1 | 317.6 | 316.5 |
| 27,5°        | 304.7                        | 305.2 | 305.7 | 303.9 | 302.8 | 303.1 | 304.2 | 305.6 | 307.3 | 307.2 | 308.1 | 309.4 | 309.5 | 308.8 |
| 30,0°        | 295.8                        | 296.4 | 297.0 | 295.3 | 294.5 | 294.3 | 295.8 | 296.8 | 298.7 | 298.5 | 299.5 | 300.8 | 301.3 | 300.4 |
| 32,5°        | 285.9                        | 286.6 | 287.3 | 285.9 | 284.9 | 284.6 | 286.1 | 287.2 | 288.7 | 288.9 | 290.0 | 291.3 | 291.9 | 291.2 |
| 35,0°        | 275.7                        | 276.7 | 277.2 | 276.3 | 275.1 | 274.8 | 276.4 | 277.4 | 278.8 | 279.1 | 280.1 | 281.7 | 282.2 | 281.6 |
| 37,5°        | 264.8                        | 265.6 | 266.5 | 265.5 | 264.6 | 264.2 | 265.9 | 266.7 | 268.2 | 268.5 | 269.5 | 271.0 | 271.8 | 271.2 |
| 40,0°        | 253.7                        | 254.7 | 255.4 | 254.7 | 253.9 | 253.4 | 255.1 | 256.0 | 257.2 | 257.7 | 258.7 | 260.5 | 261.3 | 260.7 |
| 42,5°        | 241.9                        | 242.6 | 243.6 | 242.7 | 242.4 | 241.5 | 243.6 | 244.3 | 245.6 | 245.8 | 247.3 | 248.9 | 250.3 | 249.1 |
| 45,0°        | 229.3                        | 230.7 | 231.1 | 230.9 | 230.3 | 229.9 | 231.3 | 232.4 | 233.3 | 234.0 | 235.1 | 237.1 | 238.2 | 237.5 |
| 47,5°        | 216.7                        | 217.6 | 218.4 | 217.9 | 218.3 | 217.3 | 219.1 | 219.7 | 221.2 | 221.1 | 222.7 | 224.3 | 226.1 | 224.7 |
| 50,0°        | 203.2                        | 204.6 | 204.8 | 204.9 | 205.3 | 204.6 | 206.0 | 206.9 | 208.2 | 208.3 | 209.7 | 211.6 | 213.0 | 211.9 |
| 52,5°        | 189.7                        | 191.2 | 191.1 | 191.7 | 192.2 | 191.5 | 192.7 | 193.9 | 195.2 | 195.2 | 196.5 | 198.5 | 199.9 | 198.9 |
| 55,0°        | 175.3                        | 176.9 | 176.8 | 177.5 | 178.1 | 177.7 | 178.9 | 180.0 | 181.4 | 181.4 | 182.7 | 184.4 | 185.9 | 184.9 |
| 57,5°        | 161.4                        | 162.7 | 162.8 | 163.6 | 164.4 | 164.3 | 165.3 | 166.2 | 167.8 | 167.7 | 169.2 | 170.7 | 172.5 | 171.3 |
| 60,0°        | 146.3                        | 147.5 | 148.0 | 148.5 | 149.8 | 149.5 | 150.8 | 151.6 | 153.3 | 153.3 | 154.9 | 156.1 | 157.7 | 156.6 |
| 62,5°        | 131.7                        | 132.9 | 133.4 | 133.6 | 135.5 | 135.2 | 136.7 | 137.5 | 139.2 | 139.3 | 141.0 | 142.0 | 143.4 | 142.8 |
| 65,0°        | 116.9                        | 117.2 | 118.6 | 118.0 | 120.8 | 120.2 | 122.4 | 122.6 | 125.1 | 124.7 | 126.7 | 127.0 | 129.0 | 127.9 |
| 67,5°        | 101.3                        | 102.1 | 103.0 | 102.7 | 105.1 | 105.5 | 107.0 | 107.8 | 110.1 | 110.3 | 111.8 | 112.6 | 113.9 | 113.5 |
| 70,0°        | 85.9                         | 86.2  | 87.6  | 86.9  | 89.4  | 90.0  | 92.0  | 92.0  | 94.8  | 94.9  | 96.9  | 97.1  | 98.8  | 98.2  |
| 72,5°        | 70.0                         | 70.9  | 71.6  | 71.7  | 73.2  | 74.4  | 76.5  | 77.1  | 78.8  | 79.8  | 81.4  | 82.3  | 83.2  | 83.4  |
| 75,0°        | 55.2                         | 55.6  | 56.6  | 56.6  | 58.1  | 58.9  | 61.1  | 62.0  | 63.9  | 64.5  | 66.2  | 67.0  | 68.0  | 68.2  |
| 77,5°        | 40.2                         | 40.5  | 41.5  | 41.5  | 43.0  | 43.5  | 45.6  | 46.4  | 48.3  | 49.1  | 51.0  | 51.6  | 52.7  | 52.8  |
| 80,0°        | 26.9                         | 27.0  | 28.0  | 28.1  | 29.3  | 29.8  | 31.3  | 32.4  | 34.0  | 34.9  | 36.4  | 37.1  | 38.2  | 38.3  |
| 82,5°        | 14.9                         | 14.9  | 15.6  | 15.8  | 16.7  | 17.2  | 18.4  | 19.2  | 20.6  | 21.4  | 22.8  | 23.5  | 24.4  | 24.5  |
| 85,0°        | 5.9                          | 5.8   | 6.3   | 6.5   | 7.1   | 7.5   | 8.3   | 8.8   | 9.9   | 10.5  | 11.7  | 12.2  | 13.0  | 13.0  |
| 87,5°        | 1.0                          | 0.9   | 1.1   | 1.1   | 1.5   | 1.6   | 2.1   | 2.3   | 3.0   | 3.3   | 4.1   | 4.4   | 5.0   | 4.8   |

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Silica® 21                     | Order number: 51MX20DA32BB<br>EAN: 4058352898505 | LP number<br>59411_337     |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |
|                                          |                                                  | siteco                     |

| C-<br>planes | 105,0°                       | 112,5° | 120,0° | 127,5° | 135,0° | 142,5° | 150,0° | 157,5° | 165,0° | 172,5° | 180,0° | 187,5° | 195,0° | 202,5° |
|--------------|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| γ            | Luminous intensity in cd/klm |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 0,0°         | 355.4                        | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  |
| 2,5°         | 356.3                        | 356.7  | 356.4  | 355.9  | 355.7  | 354.4  | 354.2  | 354.2  | 354.9  | 355.0  | 356.9  | 355.8  | 356.4  | 353.7  |
| 5,0°         | 355.2                        | 355.4  | 355.3  | 355.0  | 354.6  | 353.3  | 353.2  | 353.1  | 353.8  | 354.1  | 355.8  | 355.1  | 355.6  | 352.8  |
| 7,5°         | 353.2                        | 353.6  | 353.4  | 353.0  | 352.8  | 351.5  | 351.4  | 351.4  | 352.0  | 352.3  | 354.0  | 353.2  | 353.7  | 350.9  |
| 10,0°        | 350.4                        | 350.7  | 350.6  | 350.4  | 350.0  | 348.7  | 348.7  | 348.9  | 349.3  | 349.7  | 351.2  | 350.5  | 351.0  | 348.3  |
| 12,5°        | 346.9                        | 347.3  | 347.1  | 346.9  | 346.6  | 345.1  | 345.2  | 345.4  | 346.1  | 346.3  | 347.7  | 347.1  | 347.6  | 345.0  |
| 15,0°        | 342.5                        | 342.8  | 342.7  | 342.4  | 342.1  | 340.5  | 340.7  | 341.1  | 341.8  | 342.0  | 343.2  | 342.6  | 343.2  | 340.7  |
| 17,5°        | 337.5                        | 337.8  | 337.6  | 337.4  | 337.0  | 335.6  | 335.7  | 336.1  | 336.8  | 337.2  | 338.0  | 337.7  | 338.2  | 335.9  |
| 20,0°        | 331.9                        | 331.7  | 332.0  | 331.5  | 331.2  | 329.6  | 330.2  | 330.1  | 331.4  | 331.3  | 332.3  | 331.8  | 332.6  | 330.0  |
| 22,5°        | 325.3                        | 325.2  | 325.1  | 324.8  | 324.4  | 323.0  | 323.4  | 323.9  | 324.8  | 325.0  | 325.4  | 325.3  | 326.0  | 323.7  |
| 25,0°        | 318.1                        | 317.8  | 318.0  | 317.2  | 317.2  | 315.7  | 316.2  | 316.4  | 317.6  | 317.7  | 318.0  | 317.9  | 318.8  | 316.6  |
| 27,5°        | 310.1                        | 310.1  | 309.9  | 309.5  | 309.1  | 307.8  | 307.9  | 308.6  | 309.6  | 310.1  | 309.9  | 310.1  | 310.8  | 309.0  |
| 30,0°        | 301.7                        | 301.5  | 301.7  | 300.9  | 300.7  | 299.4  | 299.6  | 300.3  | 301.3  | 301.6  | 301.4  | 301.6  | 302.3  | 300.8  |
| 32,5°        | 292.4                        | 292.2  | 292.2  | 291.4  | 291.0  | 290.0  | 290.4  | 290.9  | 292.0  | 292.3  | 291.9  | 292.4  | 293.1  | 291.6  |
| 35,0°        | 282.5                        | 282.7  | 282.5  | 281.6  | 281.3  | 280.5  | 280.9  | 281.3  | 282.1  | 282.9  | 281.9  | 282.7  | 283.3  | 282.3  |
| 37,5°        | 272.3                        | 272.2  | 272.0  | 271.1  | 270.7  | 270.2  | 270.8  | 270.8  | 271.6  | 272.4  | 271.3  | 272.2  | 273.0  | 271.9  |
| 40,0°        | 261.8                        | 261.3  | 261.4  | 260.5  | 259.7  | 259.7  | 260.4  | 260.1  | 260.8  | 261.8  | 260.6  | 261.7  | 262.3  | 261.4  |
| 42,5°        | 250.4                        | 249.5  | 250.1  | 248.9  | 248.5  | 248.0  | 249.1  | 248.5  | 249.4  | 250.2  | 249.1  | 249.9  | 250.8  | 249.8  |
| 45,0°        | 238.0                        | 237.8  | 237.8  | 237.0  | 236.4  | 236.1  | 237.0  | 237.0  | 237.0  | 238.6  | 236.8  | 238.1  | 238.5  | 238.1  |
| 47,5°        | 225.8                        | 225.2  | 225.7  | 224.3  | 224.6  | 223.8  | 225.0  | 224.4  | 224.6  | 226.0  | 224.5  | 225.4  | 226.2  | 225.4  |
| 50,0°        | 212.7                        | 212.5  | 212.5  | 211.6  | 212.0  | 211.6  | 212.1  | 211.7  | 211.5  | 213.1  | 211.3  | 212.8  | 212.8  | 212.8  |
| 52,5°        | 199.4                        | 199.3  | 199.5  | 198.8  | 199.1  | 198.8  | 199.1  | 198.9  | 198.3  | 200.1  | 198.1  | 199.7  | 199.3  | 199.9  |
| 55,0°        | 185.4                        | 185.6  | 185.7  | 185.0  | 185.3  | 184.9  | 185.2  | 185.0  | 184.2  | 185.8  | 183.9  | 185.7  | 185.4  | 186.0  |
| 57,5°        | 171.9                        | 171.9  | 172.5  | 171.4  | 171.9  | 171.2  | 171.5  | 170.9  | 170.7  | 171.5  | 170.2  | 171.8  | 171.6  | 172.3  |
| 60,0°        | 157.5                        | 157.5  | 158.0  | 157.0  | 157.5  | 156.4  | 157.0  | 155.9  | 156.2  | 156.0  | 155.5  | 156.9  | 156.9  | 157.3  |
| 62,5°        | 143.6                        | 143.4  | 143.9  | 143.4  | 143.5  | 142.5  | 142.8  | 141.6  | 142.0  | 141.2  | 141.0  | 142.4  | 142.6  | 142.7  |
| 65,0°        | 129.4                        | 128.5  | 129.8  | 128.3  | 128.9  | 127.4  | 128.2  | 126.0  | 127.7  | 125.4  | 126.3  | 126.9  | 128.0  | 127.1  |
| 67,5°        | 114.6                        | 114.0  | 114.7  | 113.5  | 113.7  | 112.3  | 112.4  | 110.8  | 112.5  | 110.2  | 110.7  | 111.7  | 112.5  | 111.9  |
| 70,0°        | 99.8                         | 98.7   | 99.5   | 97.9   | 98.4   | 96.7   | 96.9   | 95.2   | 97.3   | 94.4   | 95.3   | 96.0   | 97.0   | 96.1   |
| 72,5°        | 84.2                         | 83.6   | 83.7   | 82.7   | 82.4   | 81.1   | 80.8   | 80.2   | 81.1   | 79.1   | 79.4   | 80.5   | 81.0   | 80.9   |
| 75,0°        | 69.0                         | 68.1   | 68.5   | 67.2   | 66.9   | 65.7   | 65.5   | 65.1   | 65.3   | 63.8   | 64.3   | 65.0   | 65.8   | 65.5   |
| 77,5°        | 53.4                         | 52.6   | 52.6   | 51.3   | 51.1   | 50.0   | 50.2   | 49.9   | 49.4   | 48.4   | 49.0   | 49.4   | 50.2   | 50.0   |
| 80,0°        | 38.6                         | 38.0   | 37.8   | 36.9   | 36.8   | 35.9   | 36.1   | 35.3   | 35.1   | 34.5   | 34.9   | 35.1   | 36.0   | 35.9   |
| 82,5°        | 24.7                         | 24.2   | 24.2   | 23.3   | 23.2   | 22.7   | 22.6   | 21.9   | 21.9   | 21.4   | 21.8   | 21.9   | 22.4   | 22.5   |
| 85,0°        | 13.2                         | 12.6   | 12.6   | 12.1   | 12.2   | 11.6   | 11.6   | 11.1   | 11.2   | 10.9   | 11.2   | 11.1   | 11.6   | 11.6   |
| 87,5°        | 5.1                          | 4.7    | 4.8    | 4.4    | 4.5    | 4.1    | 4.2    | 3.8    | 4.0    | 3.7    | 3.9    | 3.7    | 4.1    | 4.0    |

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Silica® 21                     | Order number: 51MX20DA32BB<br>EAN: 4058352898505 | LP number<br>59411_337     |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |
|                                          |                                                  | siteco                     |

| C-<br>planes | 210,0°                       | 217,5° | 225,0° | 232,5° | 240,0° | 247,5° | 255,0° | 262,5° | 270,0° | 277,5° | 285,0° | 292,5° | 300,0° | 307,5° |
|--------------|------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| γ            | Luminous intensity in cd/klm |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 0,0°         | 355.4                        | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  |
| 2,5°         | 352.3                        | 352.8  | 353.8  | 355.7  | 356.1  | 356.3  | 356.1  | 356.5  | 356.3  | 355.3  | 356.0  | 356.3  | 356.1  | 355.6  |
| 5,0°         | 351.4                        | 351.8  | 352.8  | 354.5  | 355.1  | 355.2  | 355.1  | 355.6  | 355.1  | 354.0  | 354.7  | 355.1  | 354.7  | 354.2  |
| 7,5°         | 349.5                        | 350.0  | 351.0  | 352.7  | 353.4  | 353.3  | 353.1  | 353.7  | 353.2  | 352.0  | 352.8  | 353.0  | 352.6  | 352.1  |
| 10,0°        | 347.1                        | 347.4  | 348.5  | 350.0  | 350.7  | 350.5  | 350.4  | 350.8  | 350.5  | 349.3  | 349.9  | 350.1  | 349.6  | 349.1  |
| 12,5°        | 343.8                        | 344.0  | 345.0  | 346.5  | 347.3  | 346.9  | 346.9  | 347.4  | 346.9  | 345.7  | 346.6  | 346.6  | 346.0  | 345.5  |
| 15,0°        | 339.4                        | 339.7  | 340.6  | 342.0  | 342.9  | 342.5  | 342.5  | 343.1  | 342.6  | 341.2  | 342.0  | 341.9  | 341.3  | 340.7  |
| 17,5°        | 334.5                        | 334.9  | 335.7  | 337.1  | 338.0  | 337.5  | 337.5  | 338.1  | 337.6  | 336.2  | 337.0  | 336.8  | 336.0  | 335.5  |
| 20,0°        | 329.0                        | 329.0  | 330.2  | 331.0  | 332.4  | 331.5  | 331.9  | 332.2  | 332.1  | 330.4  | 331.2  | 330.7  | 330.2  | 329.2  |
| 22,5°        | 322.4                        | 322.6  | 323.4  | 324.5  | 325.6  | 325.1  | 325.3  | 325.9  | 325.4  | 323.8  | 324.6  | 324.0  | 323.4  | 322.5  |
| 25,0°        | 315.4                        | 315.2  | 316.3  | 317.0  | 318.4  | 317.6  | 318.1  | 318.6  | 318.2  | 316.5  | 317.4  | 316.4  | 316.1  | 314.8  |
| 27,5°        | 307.6                        | 307.6  | 308.2  | 309.2  | 310.4  | 309.8  | 310.0  | 310.7  | 310.1  | 308.6  | 309.2  | 308.5  | 307.7  | 306.6  |
| 30,0°        | 299.5                        | 299.2  | 300.1  | 300.7  | 301.9  | 301.3  | 301.6  | 302.2  | 301.9  | 300.2  | 300.9  | 299.9  | 299.6  | 297.9  |
| 32,5°        | 290.2                        | 289.8  | 290.7  | 291.3  | 292.4  | 291.8  | 292.2  | 292.9  | 292.5  | 291.0  | 291.3  | 290.5  | 289.8  | 288.3  |
| 35,0°        | 280.7                        | 280.3  | 281.4  | 281.8  | 282.5  | 282.3  | 282.5  | 283.2  | 282.8  | 281.5  | 281.5  | 281.0  | 279.9  | 278.4  |
| 37,5°        | 270.6                        | 269.8  | 271.0  | 271.4  | 272.1  | 271.7  | 272.1  | 272.6  | 272.5  | 270.9  | 271.2  | 270.3  | 269.2  | 267.6  |
| 40,0°        | 260.2                        | 259.2  | 260.5  | 260.7  | 261.4  | 261.1  | 261.4  | 262.0  | 262.0  | 260.4  | 260.5  | 259.4  | 258.4  | 256.7  |
| 42,5°        | 249.0                        | 247.7  | 249.3  | 249.1  | 249.8  | 249.3  | 250.1  | 250.6  | 251.0  | 248.8  | 249.3  | 247.3  | 247.0  | 244.8  |
| 45,0°        | 237.0                        | 236.2  | 237.1  | 237.7  | 237.8  | 237.7  | 237.8  | 239.1  | 239.1  | 237.3  | 236.8  | 235.6  | 234.8  | 232.9  |
| 47,5°        | 225.4                        | 223.9  | 225.2  | 225.1  | 225.8  | 225.0  | 225.7  | 226.3  | 226.9  | 224.5  | 224.5  | 222.9  | 222.4  | 220.1  |
| 50,0°        | 212.8                        | 211.6  | 212.3  | 212.4  | 212.9  | 212.2  | 212.6  | 213.6  | 213.9  | 211.7  | 211.3  | 210.0  | 209.3  | 207.3  |
| 52,5°        | 199.9                        | 198.6  | 199.2  | 199.7  | 200.0  | 199.1  | 199.7  | 200.5  | 200.9  | 198.6  | 198.0  | 197.0  | 196.1  | 194.3  |
| 55,0°        | 186.1                        | 185.0  | 185.5  | 185.9  | 186.4  | 185.4  | 185.7  | 186.5  | 186.8  | 184.5  | 183.9  | 183.0  | 182.1  | 180.4  |
| 57,5°        | 172.5                        | 171.8  | 172.2  | 172.2  | 172.9  | 171.9  | 172.4  | 172.7  | 173.2  | 170.9  | 170.5  | 169.3  | 168.7  | 166.8  |
| 60,0°        | 158.1                        | 157.2  | 157.9  | 157.7  | 158.4  | 157.5  | 158.2  | 158.2  | 158.6  | 156.4  | 155.9  | 154.8  | 154.2  | 152.2  |
| 62,5°        | 144.0                        | 143.0  | 143.9  | 143.7  | 144.4  | 143.7  | 144.3  | 144.2  | 144.3  | 142.3  | 142.1  | 140.8  | 140.0  | 138.4  |
| 65,0°        | 129.5                        | 128.1  | 129.6  | 129.0  | 130.5  | 128.9  | 130.0  | 129.1  | 129.9  | 127.5  | 127.8  | 125.7  | 125.8  | 123.2  |
| 67,5°        | 113.9                        | 113.6  | 114.3  | 114.2  | 115.4  | 114.6  | 115.2  | 114.6  | 114.7  | 113.0  | 113.0  | 111.2  | 110.7  | 108.4  |
| 70,0°        | 98.1                         | 98.1   | 99.2   | 98.6   | 100.2  | 99.2   | 100.2  | 99.3   | 99.6   | 97.8   | 98.1   | 95.7   | 95.5   | 92.7   |
| 72,5°        | 81.9                         | 82.6   | 83.8   | 83.6   | 84.2   | 84.2   | 84.6   | 84.4   | 83.9   | 82.9   | 82.5   | 80.6   | 79.5   | 77.4   |
| 75,0°        | 66.5                         | 66.9   | 68.4   | 68.5   | 69.2   | 68.9   | 69.5   | 69.1   | 68.8   | 67.7   | 67.3   | 65.3   | 64.5   | 62.0   |
| 77,5°        | 51.0                         | 51.0   | 52.5   | 52.6   | 53.6   | 53.3   | 54.1   | 53.5   | 53.4   | 52.3   | 51.7   | 49.7   | 48.6   | 46.3   |
| 80,0°        | 36.7                         | 36.8   | 37.7   | 38.1   | 38.9   | 38.8   | 39.4   | 39.0   | 38.9   | 37.8   | 37.1   | 35.2   | 34.0   | 32.2   |
| 82,5°        | 23.1                         | 23.2   | 23.9   | 24.1   | 25.0   | 24.9   | 25.3   | 25.0   | 24.9   | 24.1   | 23.3   | 21.8   | 20.8   | 19.3   |
| 85,0°        | 12.1                         | 12.1   | 12.7   | 12.7   | 13.2   | 13.2   | 13.7   | 13.5   | 13.5   | 12.6   | 12.0   | 10.7   | 10.0   | 9.0    |
| 87,5°        | 4.4                          | 4.3    | 4.8    | 4.7    | 5.2    | 4.9    | 5.4    | 5.2    | 5.3    | 4.6    | 4.3    | 3.5    | 3.2    | 2.5    |

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Silica® 21                     | Order number: 51MX20DA32BB<br>EAN: 4058352898505 | LP number<br>59411_337     |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |

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| C-<br>planes | 315,0°                       | 322,5° | 330,0° | 337,5° | 345,0° | 352,5° | Phi-zone                | Total<br>Phi-zone |
|--------------|------------------------------|--------|--------|--------|--------|--------|-------------------------|-------------------|
| γ            | Luminous intensity in cd/klm |        |        |        |        |        | Luminous flux in lm/klm |                   |
| 0,0°         | 355.4                        | 355.4  | 355.4  | 355.4  | 355.4  | 355.4  | 0.5                     | 0.5               |
| 2,5°         | 355.3                        | 353.9  | 353.8  | 353.7  | 354.3  | 354.5  | 4.2                     | 4.8               |
| 5,0°         | 353.9                        | 352.3  | 352.1  | 352.3  | 352.8  | 353.2  | 8.5                     | 13.2              |
| 7,5°         | 351.7                        | 350.2  | 350.0  | 350.1  | 350.6  | 350.8  | 12.6                    | 25.8              |
| 10,0°        | 348.7                        | 346.8  | 346.9  | 347.0  | 347.6  | 347.6  | 16.6                    | 42.4              |
| 12,5°        | 344.9                        | 343.0  | 343.1  | 343.1  | 343.7  | 343.8  | 20.5                    | 62.9              |
| 15,0°        | 340.1                        | 338.2  | 338.2  | 338.4  | 338.9  | 338.9  | 24.2                    | 87.1              |
| 17,5°        | 334.7                        | 332.9  | 332.7  | 332.9  | 333.6  | 333.7  | 27.7                    | 114.8             |
| 20,0°        | 328.7                        | 326.6  | 326.8  | 326.7  | 327.6  | 327.4  | 30.9                    | 145.7             |
| 22,5°        | 321.5                        | 319.8  | 319.8  | 319.9  | 320.6  | 320.6  | 33.9                    | 179.6             |
| 25,0°        | 314.1                        | 312.1  | 312.1  | 312.1  | 313.1  | 312.9  | 36.6                    | 216.2             |
| 27,5°        | 305.7                        | 303.8  | 303.7  | 304.1  | 304.7  | 304.8  | 38.9                    | 255.2             |
| 30,0°        | 297.0                        | 295.1  | 295.1  | 295.3  | 296.1  | 296.1  | 41.0                    | 296.2             |
| 32,5°        | 287.3                        | 285.6  | 285.5  | 285.6  | 286.4  | 286.5  | 42.7                    | 338.9             |
| 35,0°        | 277.2                        | 275.8  | 275.7  | 275.7  | 276.3  | 276.7  | 44.0                    | 382.9             |
| 37,5°        | 266.4                        | 265.3  | 265.3  | 264.9  | 265.5  | 265.7  | 45.0                    | 427.8             |
| 40,0°        | 255.3                        | 254.5  | 254.6  | 254.1  | 254.3  | 254.9  | 45.6                    | 473.4             |
| 42,5°        | 243.9                        | 242.7  | 243.3  | 242.0  | 242.6  | 242.9  | 45.8                    | 519.2             |
| 45,0°        | 231.6                        | 230.8  | 230.8  | 230.1  | 230.0  | 231.1  | 45.6                    | 564.8             |
| 47,5°        | 219.6                        | 218.0  | 218.6  | 217.3  | 217.3  | 218.1  | 45.0                    | 609.8             |
| 50,0°        | 206.8                        | 205.5  | 205.4  | 204.3  | 203.7  | 205.1  | 44.1                    | 653.8             |
| 52,5°        | 193.7                        | 192.6  | 192.2  | 191.3  | 190.2  | 191.5  | 42.8                    | 696.6             |
| 55,0°        | 179.8                        | 178.5  | 178.1  | 177.3  | 176.0  | 177.1  | 41.0                    | 737.6             |
| 57,5°        | 166.2                        | 164.6  | 164.3  | 163.0  | 162.1  | 162.6  | 39.1                    | 776.7             |
| 60,0°        | 151.6                        | 149.8  | 149.4  | 147.8  | 147.5  | 147.0  | 36.6                    | 813.3             |
| 62,5°        | 137.4                        | 135.7  | 135.0  | 133.2  | 133.1  | 132.0  | 34.1                    | 847.4             |
| 65,0°        | 122.7                        | 120.4  | 120.4  | 117.5  | 118.6  | 116.0  | 31.1                    | 878.5             |
| 67,5°        | 107.5                        | 105.3  | 104.6  | 102.2  | 103.3  | 100.8  | 27.9                    | 906.5             |
| 70,0°        | 92.1                         | 89.6   | 89.0   | 86.5   | 88.0   | 85.0   | 24.4                    | 930.9             |
| 72,5°        | 76.1                         | 74.0   | 72.9   | 71.6   | 72.1   | 69.9   | 20.7                    | 951.6             |
| 75,0°        | 60.8                         | 58.7   | 57.7   | 56.7   | 56.5   | 54.8   | 17.0                    | 968.6             |
| 77,5°        | 45.2                         | 43.4   | 42.8   | 41.9   | 41.1   | 39.9   | 13.0                    | 981.6             |
| 80,0°        | 31.2                         | 29.8   | 29.3   | 28.2   | 27.6   | 26.7   | 9.3                     | 990.9             |
| 82,5°        | 18.4                         | 17.3   | 16.8   | 15.7   | 15.4   | 14.8   | 5.8                     | 996.7             |
| 85,0°        | 8.5                          | 7.5    | 7.1    | 6.5    | 6.3    | 5.8    | 2.9                     | 999.5             |
| 87,5°        | 2.2                          | 1.7    | 1.5    | 1.1    | 1.1    | 0.9    | 0.9                     | 1000.5            |

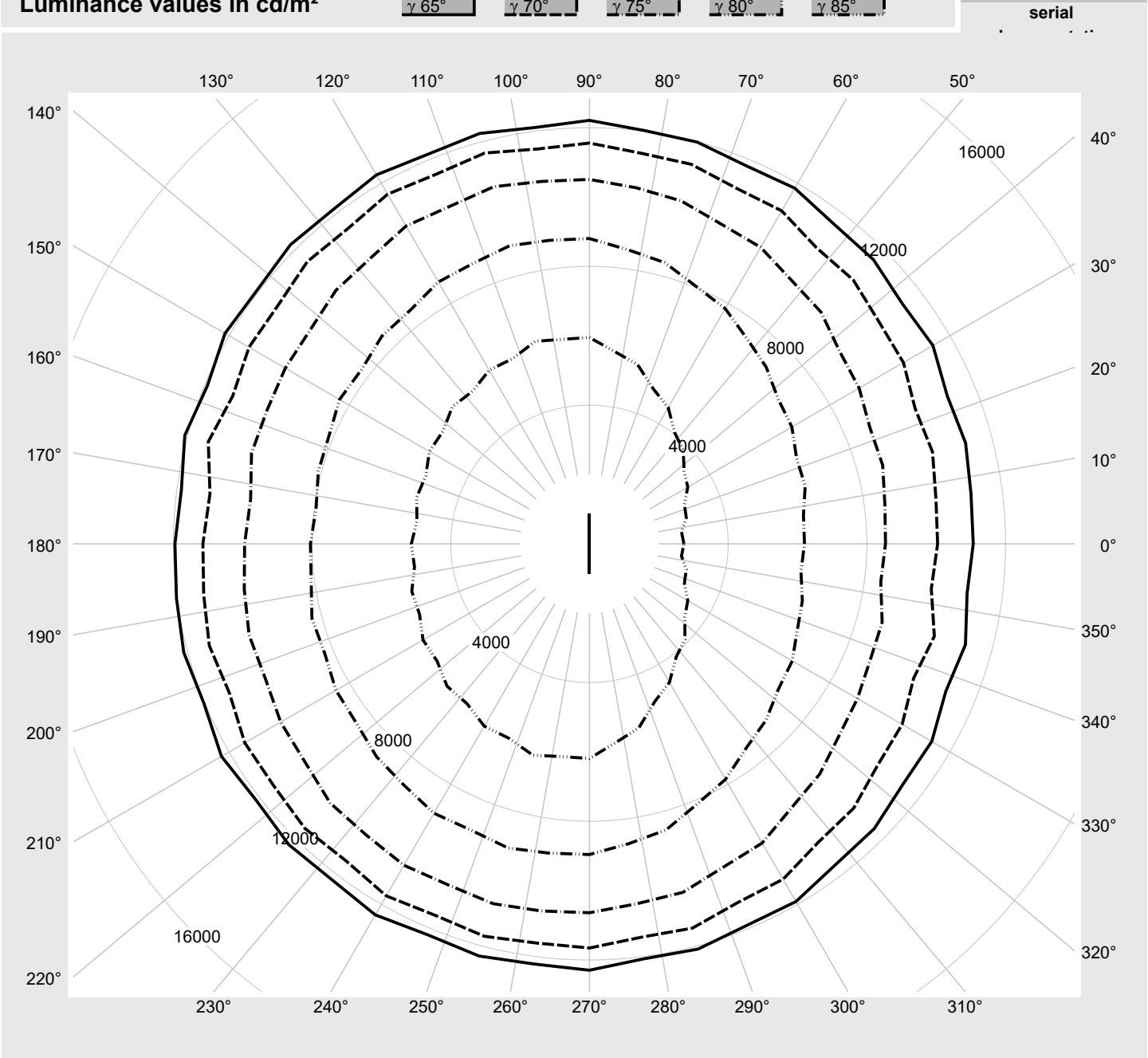
Photometric test report

| Family<br>Silica® 21         |     |                     | Order number: 51MX20DA32BB<br>EAN: 4058352898505 |      |      |      |                    |      |      | LP number<br>59411_337 |      |
|------------------------------|-----|---------------------|--------------------------------------------------|------|------|------|--------------------|------|------|------------------------|------|
| UGR-Table                    |     |                     | Standard room                                    |      |      |      |                    |      |      | siteco                 |      |
| Reflection factor of ceiling |     | 0.7                 | 0.7                                              | 0.5  | 0.5  | 0.3  | 0.7                | 0.7  | 0.5  | 0.5                    | 0.3  |
| Reflection factor of walls   |     | 0.5                 | 0.3                                              | 0.5  | 0.3  | 0.3  | 0.5                | 0.3  | 0.5  | 0.3                    | 0.3  |
| Reflection factor of floor   |     | 0.2                 | 0.2                                              | 0.2  | 0.2  | 0.2  | 0.2                | 0.2  | 0.2  | 0.2                    | 0.2  |
| Room dimensions              |     | View crosswise (C0) |                                                  |      |      |      | View endwise (C90) |      |      |                        |      |
| x                            | y   |                     |                                                  |      |      |      |                    |      |      |                        |      |
| 2H                           | 2H  | 21.0                | 22.7                                             | 21.4 | 23.0 | 23.3 | 21.3               | 23.0 | 21.7 | 23.3                   | 23.6 |
|                              | 3H  | 22.5                | 24.0                                             | 22.9 | 24.3 | 24.7 | 23.0               | 24.5 | 23.3 | 24.8                   | 25.2 |
|                              | 4H  | 23.0                | 24.4                                             | 23.4 | 24.8 | 25.1 | 23.6               | 25.0 | 24.0 | 25.4                   | 25.7 |
|                              | 6H  | 23.3                | 24.6                                             | 23.7 | 25.0 | 25.4 | 24.0               | 25.4 | 24.5 | 25.7                   | 26.1 |
|                              | 8H  | 23.3                | 24.6                                             | 23.8 | 25.0 | 25.4 | 24.2               | 25.4 | 24.6 | 25.8                   | 26.2 |
|                              | 12H | 23.4                | 24.6                                             | 23.8 | 24.9 | 25.4 | 24.3               | 25.4 | 24.7 | 25.8                   | 26.2 |
| 4H                           | 2H  | 21.8                | 23.2                                             | 22.2 | 23.6 | 23.9 | 22.1               | 23.5 | 22.4 | 23.8                   | 24.2 |
|                              | 3H  | 23.4                | 24.6                                             | 23.8 | 25.0 | 25.4 | 23.9               | 25.1 | 24.3 | 25.5                   | 25.9 |
|                              | 4H  | 24.0                | 25.1                                             | 24.5 | 25.5 | 26.0 | 24.6               | 25.7 | 25.1 | 26.1                   | 26.6 |
|                              | 6H  | 24.4                | 25.4                                             | 24.9 | 25.8 | 26.2 | 25.2               | 26.1 | 25.6 | 26.6                   | 27.0 |
|                              | 8H  | 24.5                | 25.4                                             | 25.0 | 25.8 | 26.3 | 25.3               | 26.2 | 25.8 | 26.7                   | 27.1 |
|                              | 12H | 24.5                | 25.3                                             | 25.0 | 25.8 | 26.2 | 25.5               | 26.2 | 25.9 | 26.7                   | 27.2 |
| 8H                           | 4H  | 24.4                | 25.2                                             | 24.8 | 25.7 | 26.1 | 24.9               | 25.8 | 25.4 | 26.2                   | 26.7 |
|                              | 6H  | 24.8                | 25.5                                             | 25.3 | 26.0 | 26.5 | 25.6               | 26.3 | 26.1 | 26.8                   | 27.3 |
|                              | 8H  | 24.9                | 25.6                                             | 25.4 | 26.0 | 26.5 | 25.8               | 26.4 | 26.3 | 26.9                   | 27.4 |
|                              | 12H | 25.0                | 25.5                                             | 25.5 | 26.0 | 26.5 | 25.9               | 26.5 | 26.4 | 26.9                   | 27.5 |
| 12H                          | 4H  | 24.4                | 25.2                                             | 24.9 | 25.6 | 26.1 | 25.0               | 25.7 | 25.4 | 26.2                   | 26.7 |
|                              | 6H  | 24.9                | 25.5                                             | 25.4 | 26.0 | 26.5 | 25.6               | 26.2 | 26.1 | 26.7                   | 27.2 |
|                              | 8H  | 25.0                | 25.5                                             | 25.5 | 26.0 | 26.6 | 25.9               | 26.4 | 26.4 | 26.9                   | 27.4 |

|                 |                    |                                 |         |         |         |         |         |         |                               |         |         |                    |        |
|-----------------|--------------------|---------------------------------|---------|---------|---------|---------|---------|---------|-------------------------------|---------|---------|--------------------|--------|
| Luminance table |                    | Max. for $\gamma \geq 65^\circ$ |         |         |         |         |         |         | Photometric dimensions in mm: |         |         | L = 1200<br>B = 50 |        |
| C-planes        |                    | 0,0°                            | 30,0°   | 60,0°   | 90,0°   | 120,0°  | 150,0°  | 180,0°  | 210,0°                        | 240,0°  | 270,0°  | 300,0°             | 330,0° |
| $\gamma$        | Luminance in cd/m² |                                 |         |         |         |         |         |         |                               |         |         |                    |        |
| 45,0°           | 12970.0            | 13026.0                         | 13199.8 | 13473.7 | 13450.1 | 13408.9 | 13394.1 | 13408.9 | 13450.1                       | 13523.7 | 13282.2 | 13058.4            |        |
| 50,0°           | 12648.0            | 12777.6                         | 12959.0 | 13257.1 | 13224.6 | 13198.8 | 13150.2 | 13244.1 | 13250.6                       | 13312.1 | 13023.8 | 12784.1            |        |
| 55,0°           | 12228.1            | 12420.6                         | 12649.3 | 12965.2 | 12947.0 | 12918.0 | 12827.2 | 12976.1 | 12997.8                       | 13026.9 | 12700.1 | 12416.9            |        |
| 60,0°           | 11707.7            | 11982.6                         | 12261.6 | 12619.8 | 12640.6 | 12557.3 | 12436.6 | 12644.8 | 12673.9                       | 12690.6 | 12336.6 | 11949.2            |        |
| 65,0°           | 11067.3            | 11436.9                         | 11840.9 | 12210.5 | 12284.4 | 12136.5 | 11954.2 | 12254.8 | 12353.4                       | 12294.2 | 11909.8 | 11397.4            |        |
| 70,0°           | 10040.3            | 10454.4                         | 11087.7 | 11556.4 | 11641.7 | 11337.2 | 11148.5 | 11477.3 | 11720.8                       | 11653.8 | 11166.7 | 10411.8            |        |
| 75,0°           | 8536.9             | 8979.4                          | 9872.5  | 10508.2 | 10580.5 | 10130.0 | 9944.9  | 10282.9 | 10701.2                       | 10636.9 | 9961.1  | 8923.1             |        |
| 80,0°           | 6200.1             | 6739.8                          | 7831.0  | 8802.4  | 8718.5  | 8322.8  | 8046.8  | 8442.8  | 8970.3                        | 8958.3  | 7843.0  | 6751.8             |        |
| 85,0°           | 2723.9             | 3273.2                          | 4539.9  | 5949.3  | 5782.3  | 5328.4  | 5137.0  | 5543.2  | 6069.1                        | 6188.5  | 4611.5  | 3273.2             |        |

Photometric test report

|                      |                                                  |                        |
|----------------------|--------------------------------------------------|------------------------|
| Family<br>Silica® 21 | Order number: 51MX20DA32BB<br>EAN: 4058352898505 | LP number<br>59411_337 |
|----------------------|--------------------------------------------------|------------------------|



Photometric test report

|                      |                                                  |                                 |
|----------------------|--------------------------------------------------|---------------------------------|
| Family<br>Silica® 21 | Order number: 51MX20DA32BB<br>EAN: 4058352898505 | LP number<br>59411_337          |
| Dimming levels table |                                                  | environmental temperature: 25°C |



| Luminous flux<br>% | Dimming level<br>linear | Dimming level<br>logarithmic | Luminous flux<br>[lm] | Power consumption<br>[W] |
|--------------------|-------------------------|------------------------------|-----------------------|--------------------------|
| 100                | 254                     | 254                          | 2400                  | 16.1                     |
| 95                 | 241                     | 252                          | 2281                  | 15.4                     |
| 90                 | 228                     | 250                          | 2162                  | 14.5                     |
| 85                 | 215                     | 248                          | 2042                  | 13.7                     |
| 80                 | 202                     | 246                          | 1922                  | 12.9                     |
| 75                 | 189                     | 243                          | 1801                  | 12.1                     |
| 70                 | 176                     | 241                          | 1679                  | 11.3                     |
| 65                 | 163                     | 238                          | 1558                  | 10.5                     |
| 60                 | 151                     | 235                          | 1444                  | 9.8                      |
| 55                 | 138                     | 232                          | 1322                  | 9.0                      |
| 50                 | 125                     | 228                          | 1199                  | 8.2                      |
| 45                 | 113                     | 224                          | 1084                  | 7.5                      |
| 40                 | 100                     | 220                          | 961                   | 6.8                      |
| 35                 | 87                      | 215                          | 836                   | 6.0                      |
| 30                 | 75                      | 209                          | 721                   | 5.3                      |
| 25                 | 63                      | 203                          | 604                   | 4.5                      |
| 20                 | 50                      | 194                          | 479                   | 3.8                      |
| 15                 | 38                      | 184                          | 363                   | 3.1                      |
| 10                 | 25                      | 169                          | 236                   | 2.3                      |
| 5                  | 13                      | 145                          | 119                   | 1.3                      |