

Photometric test report

Family
Linear Office VEGA®

Order number: 5MN238DLE0S
EAN: 4050737963747

LP number
56402_10



Version suspended luminaire, prismatic light guide, direct-/ indirect distribution, sensor Master

Lamps 1 x LED 4000K / CRI ≥ 80
(unbekannt LED 4000K / CRI = 83)

Controlgear ECG-DALI

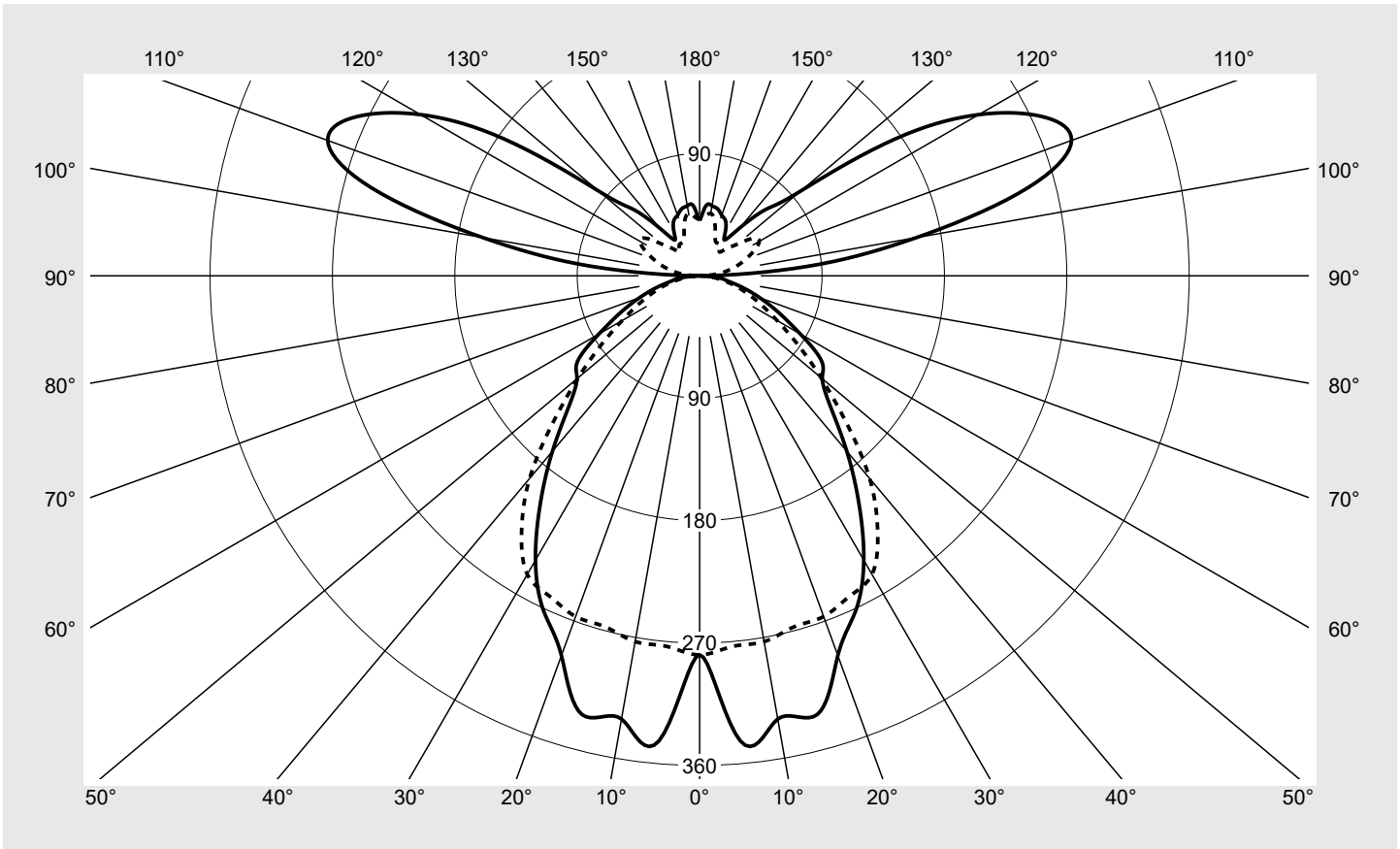
Rated values Net luminous flux = 8130 lm
Power consumption = 62.0 W
Luminous efficacy = 131.1 lm/W

serial
documentation
23.10.2015

sitEco

Luminous intensity in cd/klm C180-0 C270-90

Imax: 351 cd/klm



Classifications

DIN 5040 B 5 1
CIE N1=61 N2=86 N3=97
N4=62 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 62.1%
 ϕ_o 37.9%

Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

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|--|---|----------------------------|
| Family Linear Office VEGA® | Order number: 5MN238DLE0S EAN: 4050737963747 | LP number 56402_10 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Luminous intensity in cd/klm | | | | | | | Luminous flux in lm/klm | | |
| 0° | 278.8 | 278.8 | 278.8 | 278.8 | 278.8 | 278.8 | 278.8 | 1.7 | 1.7 |
| 5° | 343.3 | 343.5 | 338.4 | 318.5 | 284.5 | 268.8 | 273.6 | 14.8 | 16.5 |
| 10° | 330.9 | 326.3 | 321.9 | 332.6 | 350.5 | 309.7 | 273.1 | 30.8 | 47.3 |
| 15° | 334.0 | 331.7 | 326.6 | 312.5 | 330.5 | 320.2 | 267.3 | 45.4 | 92.8 |
| 20° | 297.1 | 294.5 | 293.5 | 294.2 | 296.6 | 322.7 | 266.6 | 55.7 | 148.5 |
| 25° | 271.6 | 264.8 | 254.5 | 254.0 | 262.3 | 298.8 | 260.2 | 61.8 | 210.3 |
| 30° | 241.4 | 232.0 | 223.8 | 212.7 | 211.5 | 262.1 | 253.5 | 63.5 | 273.7 |
| 35° | 204.2 | 196.1 | 184.3 | 178.7 | 164.6 | 220.7 | 228.2 | 60.8 | 334.6 |
| 40° | 168.4 | 160.3 | 151.6 | 142.9 | 129.1 | 174.6 | 194.5 | 55.2 | 389.8 |
| 45° | 136.1 | 129.8 | 119.2 | 109.5 | 101.7 | 132.4 | 152.4 | 47.6 | 437.4 |
| 50° | 117.7 | 113.1 | 97.7 | 85.9 | 81.5 | 102.2 | 116.5 | 41.8 | 479.2 |
| 55° | 109.6 | 102.7 | 82.9 | 66.8 | 66.8 | 81.6 | 88.1 | 37.4 | 516.6 |
| 60° | 85.5 | 82.3 | 66.2 | 51.8 | 55.1 | 66.1 | 65.8 | 31.4 | 548.0 |
| 65° | 64.3 | 62.7 | 51.0 | 40.2 | 45.6 | 53.7 | 49.6 | 25.7 | 573.7 |
| 70° | 47.0 | 44.9 | 37.5 | 29.9 | 36.0 | 41.5 | 36.7 | 19.9 | 593.6 |
| 75° | 32.1 | 30.2 | 25.6 | 20.9 | 26.1 | 29.7 | 25.6 | 14.2 | 607.8 |
| 80° | 20.2 | 18.4 | 15.3 | 12.9 | 16.3 | 17.9 | 15.4 | 8.9 | 616.7 |
| 85° | 10.2 | 9.2 | 7.8 | 6.6 | 8.3 | 8.4 | 7.2 | 4.5 | 621.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 621.1 |
| 95° | 79.6 | 60.8 | 31.9 | 12.7 | 11.1 | 11.3 | 11.0 | 15.8 | 636.9 |
| 100° | 162.0 | 121.1 | 61.0 | 24.5 | 22.8 | 22.3 | 20.1 | 30.8 | 667.7 |
| 105° | 249.8 | 181.9 | 95.3 | 36.5 | 33.2 | 33.0 | 28.5 | 45.8 | 713.5 |
| 110° | 291.0 | 210.6 | 109.0 | 44.5 | 40.7 | 41.4 | 36.3 | 52.4 | 765.9 |
| 115° | 277.3 | 215.3 | 106.2 | 48.7 | 46.5 | 46.4 | 44.5 | 51.7 | 817.6 |
| 120° | 237.0 | 195.8 | 87.1 | 49.6 | 48.5 | 47.3 | 50.6 | 45.3 | 862.8 |
| 125° | 175.3 | 123.0 | 63.5 | 50.1 | 49.8 | 48.4 | 48.1 | 33.4 | 896.2 |
| 130° | 96.8 | 78.3 | 56.6 | 50.2 | 49.2 | 45.2 | 36.2 | 24.2 | 920.4 |
| 135° | 69.2 | 63.0 | 55.0 | 48.9 | 39.6 | 35.3 | 28.5 | 18.8 | 939.2 |
| 140° | 45.9 | 43.1 | 34.1 | 28.7 | 25.1 | 25.6 | 22.8 | 11.2 | 950.4 |
| 145° | 32.2 | 33.9 | 31.0 | 29.9 | 23.9 | 26.8 | 26.3 | 9.2 | 959.6 |
| 150° | 38.0 | 39.1 | 37.8 | 34.8 | 31.3 | 32.5 | 27.6 | 9.5 | 969.1 |
| 155° | 44.9 | 44.5 | 41.0 | 35.8 | 37.8 | 38.5 | 27.8 | 9.0 | 978.1 |
| 160° | 47.5 | 44.1 | 38.0 | 40.3 | 42.9 | 43.2 | 33.4 | 7.8 | 985.9 |
| 165° | 51.0 | 49.2 | 47.3 | 47.1 | 47.9 | 47.3 | 42.2 | 6.7 | 992.7 |
| 170° | 52.3 | 51.6 | 50.9 | 51.0 | 51.3 | 48.5 | 46.5 | 4.8 | 997.5 |
| 175° | 51.5 | 51.4 | 50.5 | 49.0 | 46.3 | 44.4 | 43.7 | 2.3 | 999.8 |
| 180° | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 41.6 | 0.2 | 1000.0 |

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| UGR-Table | | Standard room | | | | | | | | | |
|------------------------------|-----|---------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 13.8 | 14.8 | 14.5 | 15.6 | 16.6 | 12.9 | 13.9 | 13.6 | 14.7 | 15.6 |
| | 3H | 15.0 | 15.9 | 15.8 | 16.7 | 17.7 | 14.1 | 15.0 | 14.9 | 15.8 | 16.8 |
| | 4H | 15.4 | 16.3 | 16.3 | 17.1 | 18.1 | 14.6 | 15.5 | 15.4 | 16.3 | 17.3 |
| | 6H | 15.8 | 16.6 | 16.7 | 17.5 | 18.5 | 15.1 | 15.9 | 15.9 | 16.7 | 17.7 |
| | 8H | 15.9 | 16.6 | 16.7 | 17.4 | 18.5 | 15.0 | 15.7 | 15.9 | 16.6 | 17.6 |
| | 12H | 16.0 | 16.6 | 16.9 | 17.5 | 18.6 | 15.2 | 15.8 | 16.0 | 16.7 | 17.7 |
| 4H | 2H | 13.9 | 14.7 | 14.7 | 15.6 | 16.6 | 13.0 | 13.8 | 13.8 | 14.6 | 15.7 |
| | 3H | 15.3 | 16.0 | 16.2 | 16.9 | 17.9 | 14.4 | 15.1 | 15.3 | 16.0 | 17.1 |
| | 4H | 15.8 | 16.5 | 16.7 | 17.4 | 18.4 | 15.1 | 15.7 | 16.0 | 16.6 | 17.7 |
| | 6H | 16.4 | 16.9 | 17.3 | 17.8 | 18.9 | 15.7 | 16.2 | 16.6 | 17.1 | 18.2 |
| | 8H | 16.5 | 17.0 | 17.4 | 17.9 | 19.0 | 15.8 | 16.3 | 16.7 | 17.2 | 18.3 |
| | 12H | 16.7 | 17.1 | 17.6 | 18.0 | 19.2 | 15.9 | 16.4 | 16.9 | 17.3 | 18.4 |
| 8H | 4H | 15.9 | 16.4 | 16.8 | 17.3 | 18.4 | 15.1 | 15.6 | 16.0 | 16.5 | 17.6 |
| | 6H | 16.4 | 16.9 | 17.4 | 17.8 | 19.0 | 15.7 | 16.1 | 16.6 | 17.0 | 18.2 |
| | 8H | 16.7 | 17.0 | 17.6 | 18.0 | 19.2 | 16.0 | 16.4 | 17.0 | 17.3 | 18.5 |
| | 12H | 17.0 | 17.3 | 17.9 | 18.2 | 19.4 | 16.3 | 16.6 | 17.3 | 17.6 | 18.7 |
| 12H | 4H | 15.9 | 16.3 | 16.8 | 17.3 | 18.4 | 15.1 | 15.5 | 16.0 | 16.5 | 17.6 |
| | 6H | 16.5 | 16.8 | 17.4 | 17.8 | 18.9 | 15.8 | 16.1 | 16.7 | 17.1 | 18.3 |
| | 8H | 16.8 | 17.1 | 17.7 | 18.0 | 19.2 | 16.1 | 16.4 | 17.1 | 17.4 | 18.6 |

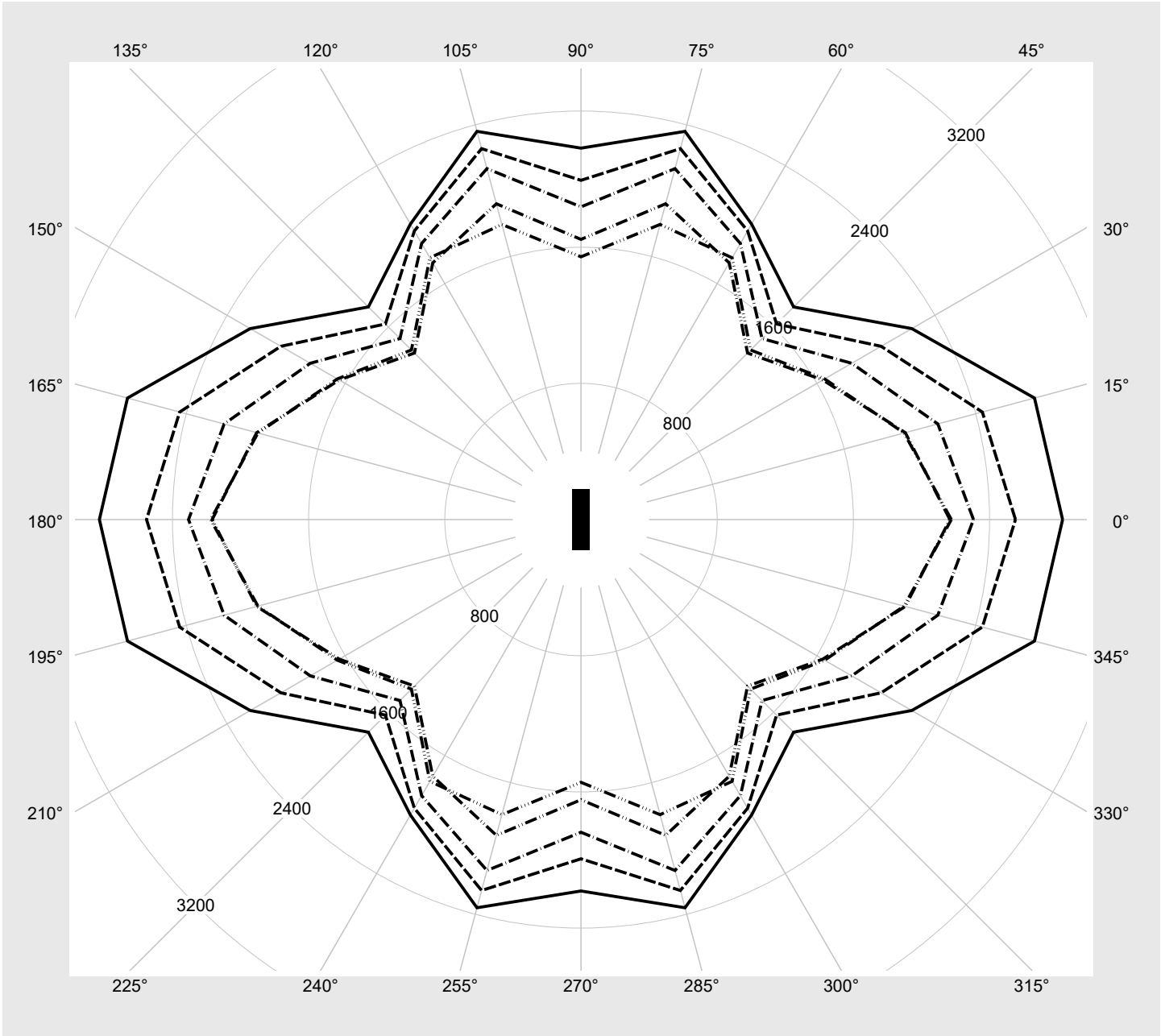
| Luminance table | | Max. for $\gamma \geq 65^\circ$ | | Photometric dimensions in mm: | | L = 1250 B = 350 | | |
|-----------------|----------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
| C-planes | γ | Luminance in cd/m ² | | | | | | |
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° |
| 45° | | 3576.5 | 3410.8 | 3132.1 | 2878.9 | 2672.3 | 3480.4 | 4005.4 |
| 50° | | 3404.0 | 3270.2 | 2823.0 | 2482.5 | 2355.5 | 2953.4 | 3367.9 |
| 55° | | 3549.8 | 3326.1 | 2686.8 | 2165.7 | 2164.8 | 2644.4 | 2853.9 |
| 60° | | 3176.7 | 3060.3 | 2460.3 | 1924.9 | 2049.0 | 2456.8 | 2444.6 |
| 65° | | 2829.2 | 2758.2 | 2243.7 | 1766.4 | 2004.3 | 2361.0 | 2182.1 |
| 70° | | 2552.3 | 2440.8 | 2035.8 | 1624.8 | 1957.9 | 2255.9 | 1993.0 |
| 75° | | 2305.7 | 2170.2 | 1836.4 | 1503.7 | 1872.7 | 2134.4 | 1837.1 |
| 80° | | 2166.9 | 1972.3 | 1640.1 | 1383.6 | 1741.4 | 1920.6 | 1646.1 |
| 85° | | 2175.6 | 1964.8 | 1652.6 | 1408.9 | 1775.6 | 1794.8 | 1543.7 |

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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|-----------------------------|---------------------------------|---------------|
| Dimming levels table | environmental temperature: 25°C | sITeco |
|-----------------------------|---------------------------------|---------------|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100 | 254 | 254 | 8130 | 62.0 |
| 95 | 241 | 252 | 7735 | 58.7 |
| 90 | 229 | 250 | 7333 | 55.5 |
| 85 | 216 | 248 | 6925 | 52.2 |
| 80 | 202 | 246 | 6517 | 48.9 |
| 75 | 188 | 243 | 6083 | 45.4 |
| 70 | 175 | 240 | 5677 | 42.0 |
| 65 | 162 | 238 | 5272 | 39.1 |
| 60 | 149 | 235 | 4866 | 36.1 |
| 55 | 137 | 232 | 4461 | 33.3 |
| 50 | 124 | 228 | 4055 | 30.4 |
| 45 | 111 | 224 | 3650 | 27.3 |
| 40 | 99 | 220 | 3244 | 24.2 |
| 35 | 86 | 215 | 2839 | 21.5 |
| 30 | 73 | 209 | 2433 | 18.5 |
| 25 | 61 | 202 | 2028 | 15.9 |
| 20 | 48 | 194 | 1622 | 13.2 |
| 15 | 36 | 183 | 1217 | 10.3 |
| 10 | 24 | 168 | 811 | 7.7 |
| 5 | 12 | 143 | 406 | 5.0 |