

## Lichttechnischer Prüfbefund

**Familie**  
**Spot 31**

**Bestell-Nr.: 51SF33MAD4B**  
**EAN: 4058352721155**

**LP-Nummer**  
**59382\_4**



**Ausführung** Reflektor, Abdeckung, PC, medium strahlend  
**Bestückung** LED 4000 K | CRI ≥ 90  
**Betriebsgerät** EVG-Multilumen  
**Einstellung** Werkseinstellung: DIP-Stufe=14  
**Bemessungswerte** Nettolichtstrom = 4980 lm  
 Systemleistung = 39.4 W  
 Lichtausbeute = 126.4 lm/W

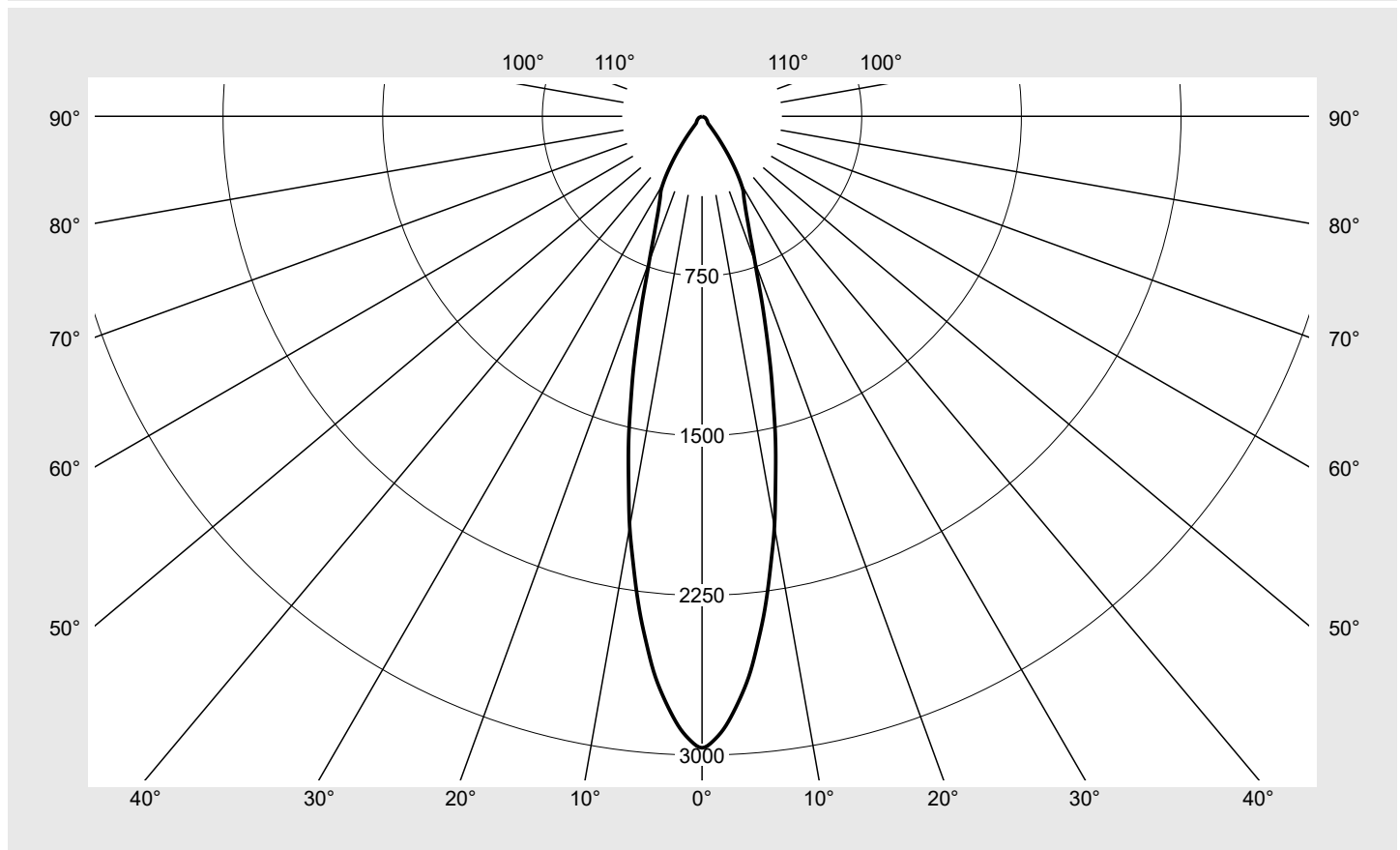
**Seriendokumentation**  
20.01.2023

**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**Imax: 2966 cd/klm**



**Klassifizierungen**

DIN 5040 A 7 0  
 CIE N1=92 N2=97 N3=99  
 N4=100 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

**Messbedingungen**

DIN EN 13032 und DIN 5032

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|                                  |                                                              |                                    |
|----------------------------------|--------------------------------------------------------------|------------------------------------|
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|                                        |                             |               |
|----------------------------------------|-----------------------------|---------------|
| <b>Wertetabelle Lichtstärkemessung</b> | <b>Maximale Lichtstärke</b> | <b>siteco</b> |
|----------------------------------------|-----------------------------|---------------|

| C-Ebenen | 0°                    | Phi-Zone             | Summe Phi-Zone | C-Ebenen | 0°                    | Phi-Zone             | Summe Phi-Zone |
|----------|-----------------------|----------------------|----------------|----------|-----------------------|----------------------|----------------|
| $\gamma$ | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                | $\gamma$ | Lichtstärke in cd/klm | Lichtstrom in lm/klm |                |
| 0°       | 2966.0                | 0.7                  | 0.7            | 47°      | 33.8                  | 2.7                  | 940.0          |
| 1°       | 2935.3                | 5.6                  | 6.3            | 48°      | 32.6                  | 2.7                  | 942.7          |
| 2°       | 2880.8                | 11.0                 | 17.4           | 49°      | 31.6                  | 2.6                  | 945.3          |
| 3°       | 2803.7                | 16.1                 | 33.4           | 50°      | 30.5                  | 2.6                  | 947.8          |
| 4°       | 2715.9                | 20.8                 | 54.2           | 51°      | 29.3                  | 2.5                  | 950.3          |
| 5°       | 2615.6                | 25.0                 | 79.2           | 52°      | 28.6                  | 2.5                  | 952.8          |
| 6°       | 2492.2                | 28.6                 | 107.8          | 53°      | 27.2                  | 2.4                  | 955.2          |
| 7°       | 2367.9                | 31.6                 | 139.4          | 54°      | 26.0                  | 2.3                  | 957.5          |
| 8°       | 2231.3                | 34.1                 | 173.5          | 55°      | 25.2                  | 2.3                  | 959.7          |
| 9°       | 2091.5                | 35.9                 | 209.4          | 56°      | 24.0                  | 2.2                  | 961.9          |
| 10°      | 1957.8                | 37.3                 | 246.6          | 57°      | 22.7                  | 2.1                  | 964.0          |
| 11°      | 1804.9                | 37.8                 | 284.4          | 58°      | 22.0                  | 2.0                  | 966.1          |
| 12°      | 1664.3                | 37.9                 | 322.4          | 59°      | 20.9                  | 2.0                  | 968.0          |
| 13°      | 1528.2                | 37.7                 | 360.1          | 60°      | 20.3                  | 1.9                  | 970.0          |
| 14°      | 1383.5                | 36.7                 | 396.8          | 61°      | 19.0                  | 1.8                  | 971.8          |
| 15°      | 1255.3                | 35.6                 | 432.4          | 62°      | 18.6                  | 1.8                  | 973.6          |
| 16°      | 1127.0                | 34.1                 | 466.5          | 63°      | 17.5                  | 1.7                  | 975.3          |
| 17°      | 1009.5                | 32.4                 | 498.8          | 64°      | 16.9                  | 1.7                  | 977.0          |
| 18°      | 903.9                 | 30.6                 | 529.4          | 65°      | 16.1                  | 1.6                  | 978.6          |
| 19°      | 802.9                 | 28.7                 | 558.1          | 66°      | 15.7                  | 1.6                  | 980.1          |
| 20°      | 726.0                 | 27.2                 | 585.3          | 67°      | 14.9                  | 1.5                  | 981.6          |
| 21°      | 660.5                 | 26.0                 | 611.3          | 68°      | 14.5                  | 1.5                  | 983.1          |
| 22°      | 603.1                 | 24.8                 | 636.1          | 69°      | 13.8                  | 1.4                  | 984.5          |
| 23°      | 558.2                 | 23.9                 | 660.0          | 70°      | 13.7                  | 1.4                  | 985.9          |
| 24°      | 518.6                 | 23.1                 | 683.1          | 71°      | 12.9                  | 1.3                  | 987.3          |
| 25°      | 485.6                 | 22.5                 | 705.6          | 72°      | 12.3                  | 1.3                  | 988.6          |
| 26°      | 458.6                 | 22.0                 | 727.7          | 73°      | 11.8                  | 1.2                  | 989.8          |
| 27°      | 434.7                 | 21.6                 | 749.3          | 74°      | 11.2                  | 1.2                  | 991.0          |
| 28°      | 416.1                 | 21.4                 | 770.7          | 75°      | 10.5                  | 1.1                  | 992.1          |
| 29°      | 397.5                 | 21.1                 | 791.9          | 76°      | 9.7                   | 1.0                  | 993.1          |
| 30°      | 368.6                 | 20.2                 | 812.1          | 77°      | 8.3                   | 0.9                  | 994.0          |
| 31°      | 335.4                 | 18.9                 | 831.0          | 78°      | 7.2                   | 0.8                  | 994.8          |
| 32°      | 298.6                 | 17.4                 | 848.4          | 79°      | 6.7                   | 0.7                  | 995.5          |
| 33°      | 261.5                 | 15.6                 | 864.0          | 80°      | 6.4                   | 0.7                  | 996.2          |
| 34°      | 225.0                 | 13.8                 | 877.8          | 81°      | 5.7                   | 0.6                  | 996.8          |
| 35°      | 185.8                 | 11.7                 | 889.5          | 82°      | 5.0                   | 0.5                  | 997.3          |
| 36°      | 149.8                 | 9.7                  | 899.1          | 83°      | 4.7                   | 0.5                  | 997.9          |
| 37°      | 117.2                 | 7.7                  | 906.9          | 84°      | 4.0                   | 0.4                  | 998.3          |
| 38°      | 85.2                  | 5.8                  | 912.6          | 85°      | 3.5                   | 0.4                  | 998.7          |
| 39°      | 61.6                  | 4.2                  | 916.9          | 86°      | 3.2                   | 0.4                  | 999.0          |
| 40°      | 45.9                  | 3.2                  | 920.1          | 87°      | 2.7                   | 0.3                  | 999.3          |
| 41°      | 41.9                  | 3.0                  | 923.1          | 88°      | 2.6                   | 0.3                  | 999.6          |
| 42°      | 40.0                  | 2.9                  | 926.1          | 89°      | 2.4                   | 0.3                  | 999.9          |
| 43°      | 37.9                  | 2.8                  | 928.9          | 90°      | 2.4                   | 0.3                  | 1000.1         |
| 44°      | 37.0                  | 2.8                  | 931.7          |          |                       |                      |                |
| 45°      | 36.2                  | 2.8                  | 934.5          |          |                       |                      |                |
| 46°      | 35.1                  | 2.8                  | 937.3          |          |                       |                      |                |

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| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen |     | Blickrichtung quer zur Leuchte (C0) |      |      |      |      | Blickrichtung längs zur Leuchte (C90) |      |      |      |      |
| x               | y   |                                     |      |      |      |      |                                       |      |      |      |      |
| 2H              | 2H  | 22,2                                | 23,3 | 22,5 | 23,6 | 23,9 | 22,2                                  | 23,3 | 22,5 | 23,6 | 23,9 |
|                 | 3H  | 22,9                                | 23,8 | 23,3 | 24,2 | 24,5 | 22,9                                  | 23,8 | 23,3 | 24,2 | 24,5 |
|                 | 4H  | 23,3                                | 24,2 | 23,7 | 24,5 | 24,9 | 23,3                                  | 24,2 | 23,7 | 24,5 | 24,9 |
|                 | 6H  | 23,7                                | 24,4 | 24,1 | 24,8 | 25,2 | 23,7                                  | 24,4 | 24,1 | 24,8 | 25,2 |
|                 | 8H  | 23,9                                | 24,5 | 24,3 | 24,9 | 25,3 | 23,9                                  | 24,5 | 24,3 | 24,9 | 25,3 |
|                 | 12H | 24,0                                | 24,6 | 24,4 | 25,0 | 25,4 | 24,0                                  | 24,6 | 24,4 | 25,0 | 25,4 |
| 4H              | 2H  | 22,3                                | 23,2 | 22,7 | 23,6 | 23,9 | 22,3                                  | 23,2 | 22,7 | 23,6 | 23,9 |
|                 | 3H  | 23,3                                | 24,0 | 23,7 | 24,4 | 24,8 | 23,3                                  | 24,0 | 23,7 | 24,4 | 24,8 |
|                 | 4H  | 23,9                                | 24,5 | 24,3 | 24,9 | 25,4 | 23,9                                  | 24,5 | 24,3 | 24,9 | 25,4 |
|                 | 6H  | 24,3                                | 24,8 | 24,8 | 25,3 | 25,8 | 24,3                                  | 24,8 | 24,8 | 25,3 | 25,8 |
|                 | 8H  | 24,5                                | 25,0 | 25,0 | 25,4 | 25,9 | 24,5                                  | 25,0 | 25,0 | 25,4 | 25,9 |
|                 | 12H | 24,7                                | 25,1 | 25,2 | 25,6 | 26,1 | 24,7                                  | 25,1 | 25,2 | 25,6 | 26,1 |
| 8H              | 4H  | 24,1                                | 24,5 | 24,5 | 25,0 | 25,5 | 24,1                                  | 24,5 | 24,5 | 25,0 | 25,5 |
|                 | 6H  | 24,6                                | 25,0 | 25,1 | 25,5 | 26,0 | 24,6                                  | 25,0 | 25,1 | 25,5 | 26,0 |
|                 | 8H  | 24,9                                | 25,2 | 25,4 | 25,7 | 26,2 | 24,9                                  | 25,2 | 25,4 | 25,7 | 26,2 |
|                 | 12H | 25,2                                | 25,4 | 25,7 | 25,9 | 26,5 | 25,2                                  | 25,4 | 25,7 | 25,9 | 26,5 |
| 12H             | 4H  | 24,1                                | 24,5 | 24,6 | 24,9 | 25,4 | 24,1                                  | 24,5 | 24,6 | 24,9 | 25,4 |
|                 | 6H  | 24,7                                | 25,0 | 25,2 | 25,5 | 26,0 | 24,7                                  | 25,0 | 25,2 | 25,5 | 26,0 |
|                 | 8H  | 25,0                                | 25,2 | 25,5 | 25,8 | 26,3 | 25,0                                  | 25,2 | 25,5 | 25,8 | 26,3 |

## Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ Lichttechnische Abmessungen in mm: D = 79

| C-Ebenen | 0°                                |
|----------|-----------------------------------|
| $\gamma$ | Leuchtdichte in cd/m <sup>2</sup> |
| 45°      | 51989.6                           |
| 50°      | 48141.4                           |
| 55°      | 44596.2                           |
| 60°      | 41259.0                           |
| 65°      | 38735.9                           |
| 70°      | 40633.8                           |
| 75°      | 41185.8                           |
| 80°      | 37187.7                           |
| 85°      | 40893.0                           |

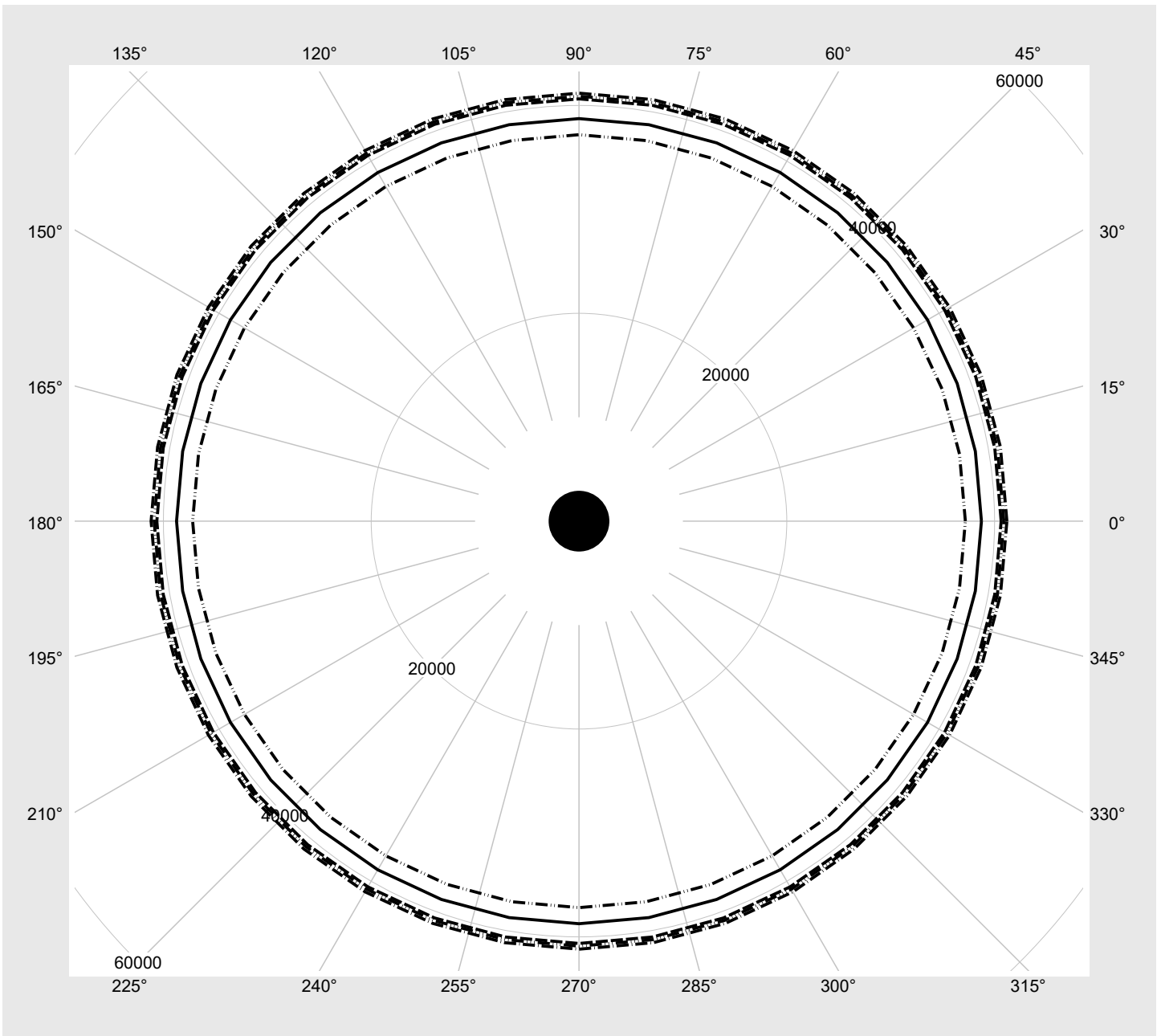
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|                           |                                                              |                             |
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**Leuchtdichten in cd/m<sup>2</sup>**

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| $\gamma$ 65° | $\gamma$ 70° | $\gamma$ 75° | $\gamma$ 80° | $\gamma$ 85° |
|--------------|--------------|--------------|--------------|--------------|

**siteco**



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## Multilumen-Tabelle

Umgebungstemperatur: 25°C



| DIP-Stufe | Schalterstellung |     |     |     | Lichtstrom<br>[lm] | Systemleistung<br>[W] |
|-----------|------------------|-----|-----|-----|--------------------|-----------------------|
|           | 1                | 2   | 3   | 4   |                    |                       |
| 15        | ON               | ON  | ON  | ON  | 5190               | 41.5                  |
| 14        | ON               | ON  | ON  | OFF | 4980               | 39.4                  |
| 13        | ON               | ON  | OFF | ON  | 4780               | 37.4                  |
| 12        | ON               | ON  | OFF | OFF | 4540               | 35.3                  |
| 11        | ON               | OFF | ON  | ON  | 4360               | 33.4                  |
| 10        | ON               | OFF | ON  | OFF | 4130               | 31.4                  |
| 9         | ON               | OFF | OFF | ON  | 3880               | 29.4                  |
| 8         | ON               | OFF | OFF | OFF | 3680               | 27.3                  |
| 7         | OFF              | ON  | ON  | ON  | 3470               | 25.8                  |
| 6         | OFF              | ON  | ON  | OFF | 3220               | 23.9                  |
| 5         | OFF              | ON  | OFF | ON  | 2990               | 21.8                  |
| 4         | OFF              | ON  | OFF | OFF | 2740               | 19.9                  |
| 3         | OFF              | OFF | ON  | ON  | 2470               | 17.7                  |
| 2         | OFF              | OFF | ON  | OFF | 2210               | 15.9                  |
| 1         | OFF              | OFF | OFF | ON  | 1860               | 13.8                  |
| 0         | OFF              | OFF | OFF | OFF | 1600               | 11.9                  |