

Distribution Photometry Report

Report Number:

Date: 03-12-2020

Catalog Number:

Description:

Z3U-V05

Test Distance: 5.430m

Test Electrical Parameters: Voltage: 12V, Current: 0.094A, Power: 1.128W

Filename:

Z3U-V05.ies

Results For:

Test Details

Luminous Intensity Distribution

LID (Lowest 10%)

Luminous Intensity Data

Luminous Flux Data

Luminaire Luminance

IsoCandela Diagram

IsoLux Diagram

IsoLux 3D

Illuminance Grid

IESNA CoU Table

TM5 UF Table

TM5 UF Table (Variation)

Roadway UF Graph

Zonal Flux Diagram

Luminance Limiting Curve

CIBSE LG3 Rating

Photometric Solid

Report Number:

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Luminaire Details

Luminaire Test Details:

Photometry Type: *Type C/Gamma*

Number of Lamps: *1*

Lumens per Lamp: *N/A*

Luminous Dimensions:

Base Area: *N/A*

Side Area: *N/A*

End Area: *N/A*

Luminous Shape: *Point*

Report Number:

Catalog Number:

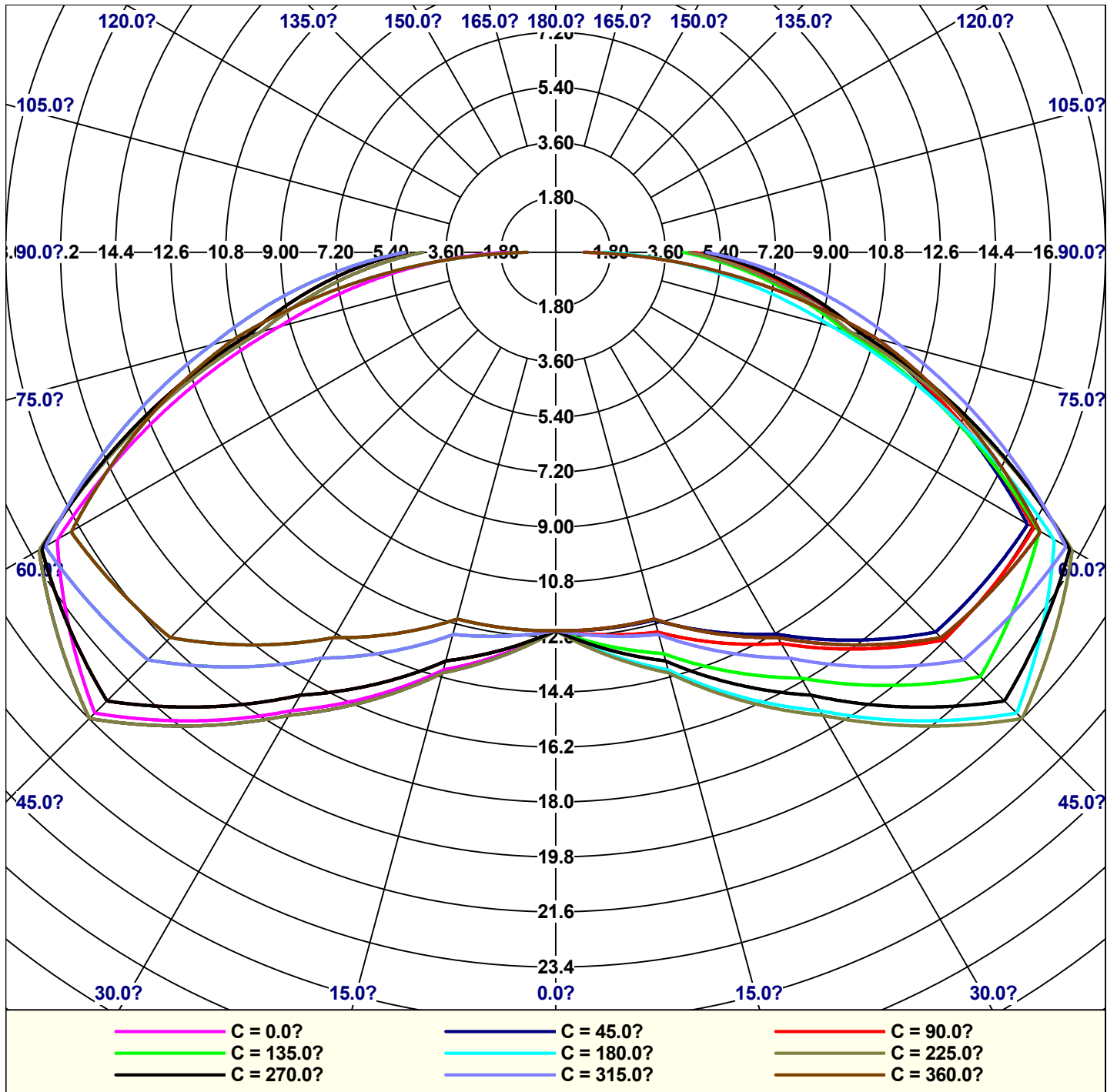
Description: Z3U-V05

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Luminous Intensity Distribution



Report Number:

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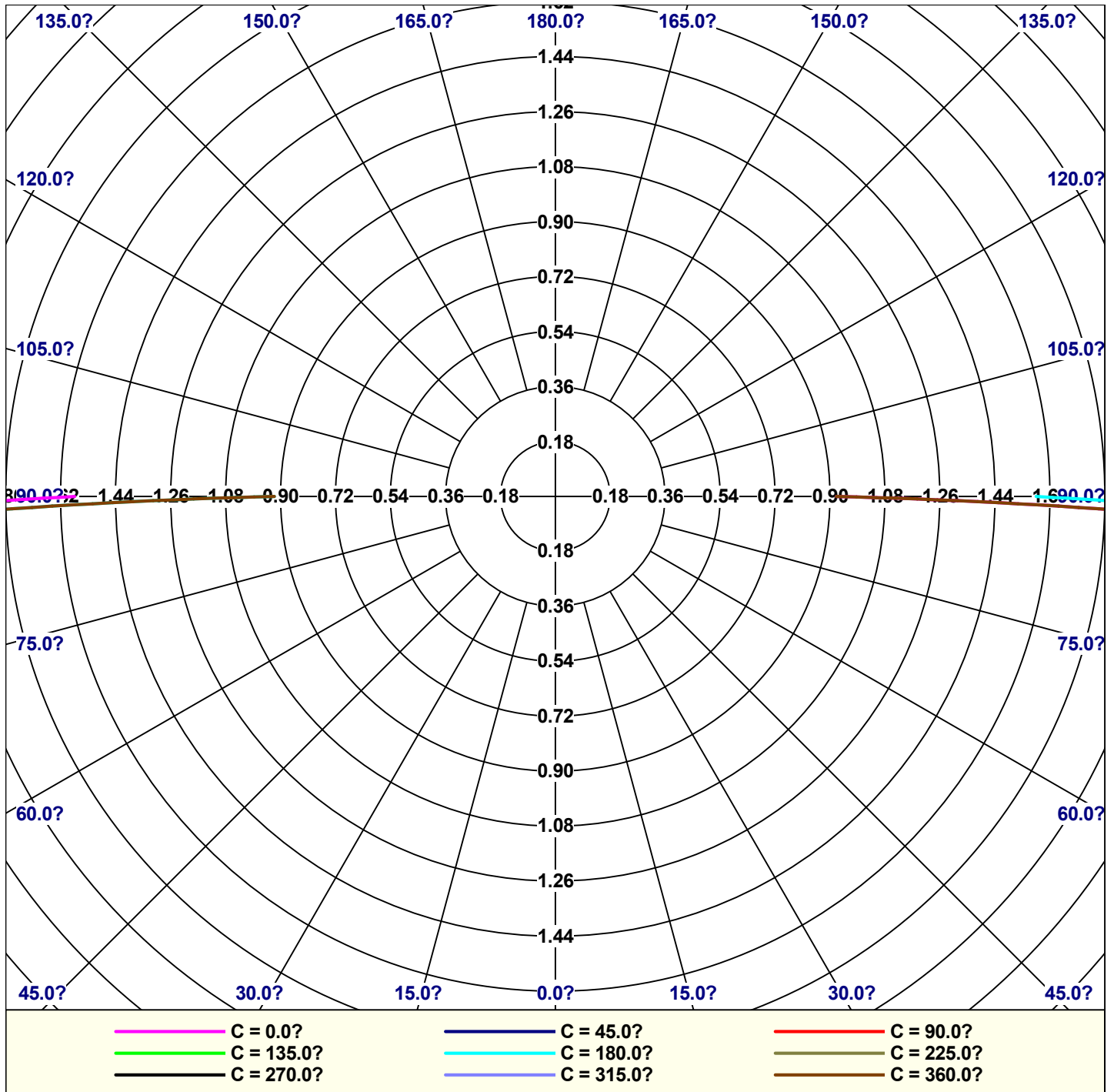
Description: **Z3U-V05**

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Luminous Intensity Distribution (Lowest 10%)



Report Number:

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Description: **Z3U-V05**

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Test Electrical Parameters: Voltage: 12V, Current: 0.094A, Power: 1.128W



Luminous Intensity Table (cd)

| $\gamma \setminus C$ | 0.0 | 15.0 | 30.0 | 45.0 | 60.0 | 75.0 | 90.0 | 105.0 | 120.0 | 135.0 | 150.0 | 165.0 | 180.0 | 195.0 |
|----------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 |
| 15.0 | 12.4 | 12.4 | 12.4 | 12.5 | 12.5 | 12.7 | 12.9 | 13.1 | 13.3 | 13.6 | 13.7 | 13.9 | 14.1 | 14.2 |
| 30.0 | 14.6 | 14.5 | 14.4 | 14.4 | 14.4 | 14.6 | 14.8 | 15.2 | 15.6 | 16.1 | 16.4 | 16.8 | 17.3 | 17.5 |
| 45.0 | 17.8 | 17.7 | 17.5 | 17.6 | 17.5 | 17.8 | 17.9 | 18.5 | 19.0 | 19.6 | 20.1 | 20.8 | 21.3 | 21.6 |
| 60.0 | 18.3 | 18.0 | 18.0 | 17.8 | 17.9 | 17.9 | 18.1 | 18.1 | 18.3 | 18.3 | 18.5 | 18.8 | 18.8 | 19.3 |
| 75.0 | 10.8 | 10.8 | 10.7 | 10.4 | 10.6 | 10.3 | 10.4 | 10.0 | 10.1 | 9.7 | 9.8 | 9.7 | 9.3 | 9.8 |
| 90.0 | 0.9 | 3.7 | 4.3 | 4.4 | 4.5 | 4.6 | 4.5 | 4.4 | 4.3 | 4.2 | 4.0 | 2.8 | 1.6 | 3.4 |

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Luminous Intensity Table (cd) (Continued)

| $\gamma \setminus C$ | 210.0 | 225.0 | 240.0 | 255.0 | 270.0 | 285.0 | 300.0 | 315.0 | 330.0 | 345.0 | 360.0 |
|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0.0 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 | 12.4 |
| 15.0 | 14.3 | 14.3 | 14.2 | 14.0 | 13.8 | 13.5 | 13.2 | 12.9 | 12.8 | 12.6 | 12.4 |
| 30.0 | 17.7 | 17.5 | 17.4 | 17.1 | 16.7 | 16.2 | 15.8 | 15.3 | 15.1 | 14.8 | 14.6 |
| 45.0 | 21.7 | 21.6 | 21.5 | 21.1 | 20.8 | 20.0 | 19.5 | 18.9 | 18.6 | 18.0 | 17.8 |
| 60.0 | 19.2 | 19.5 | 19.4 | 19.6 | 19.4 | 19.6 | 19.4 | 19.3 | 18.9 | 18.7 | 18.3 |
| 75.0 | 9.6 | 9.9 | 9.9 | 10.4 | 10.4 | 11.0 | 11.2 | 11.6 | 11.4 | 11.5 | 10.8 |
| 90.0 | 4.2 | 4.4 | 4.5 | 4.7 | 4.9 | 5.0 | 5.1 | 4.9 | 4.7 | 3.2 | 0.9 |

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Luminous Flux Table

| Elevation | Cone | Lumens | Cumulative | Luminaire % |
|-----------|----------------|--------|------------|-------------|
| 0° | 0.00°- 7.50° | 0.7 | 0.7 | 0.8 |
| 15° | 7.50°- 22.50° | 5.7 | 6.3 | 7.2 |
| 30° | 22.50°- 37.50° | 13.0 | 19.3 | 21.9 |
| 45° | 37.50°- 52.50° | 22.5 | 41.9 | 47.4 |
| 60° | 52.50°- 67.50° | 26.6 | 68.4 | 77.6 |
| 75° | 67.50°- 82.50° | 16.5 | 84.9 | 96.2 |
| 90° | 82.50°- 90.00° | 3.3 | 88.2 | 100.0 |

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Average Luminance Table

Erroneous luminous dimensions!

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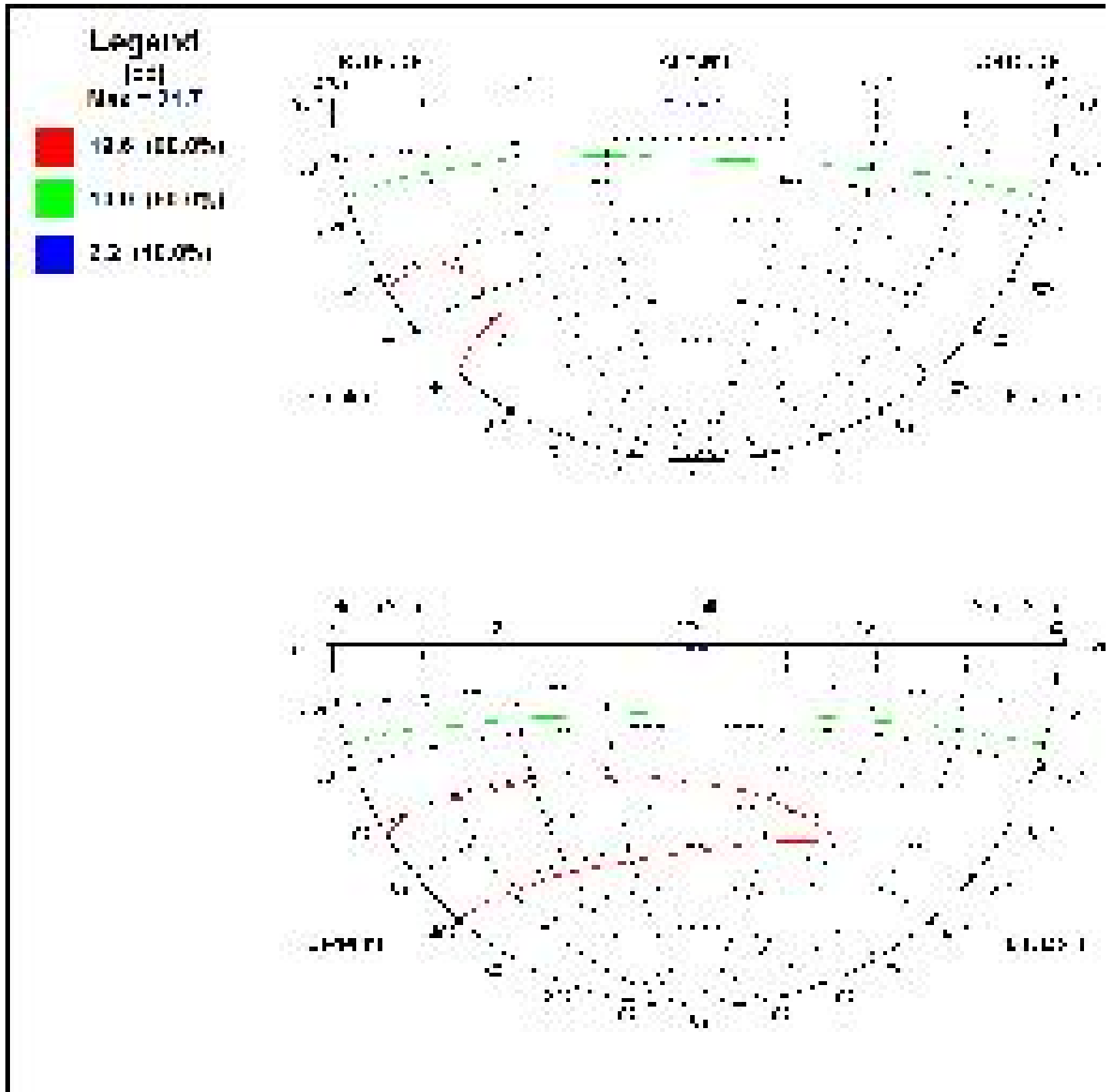
Description: Z3U-V05

Test Distance: 5.430m

Test Electrical Parameters: Voltage: 12V, Current: 0.094A, Power: 1.128W



IsoCandela Diagram



All luminous intensity values in cd

Page 9 of 20

Report Number:

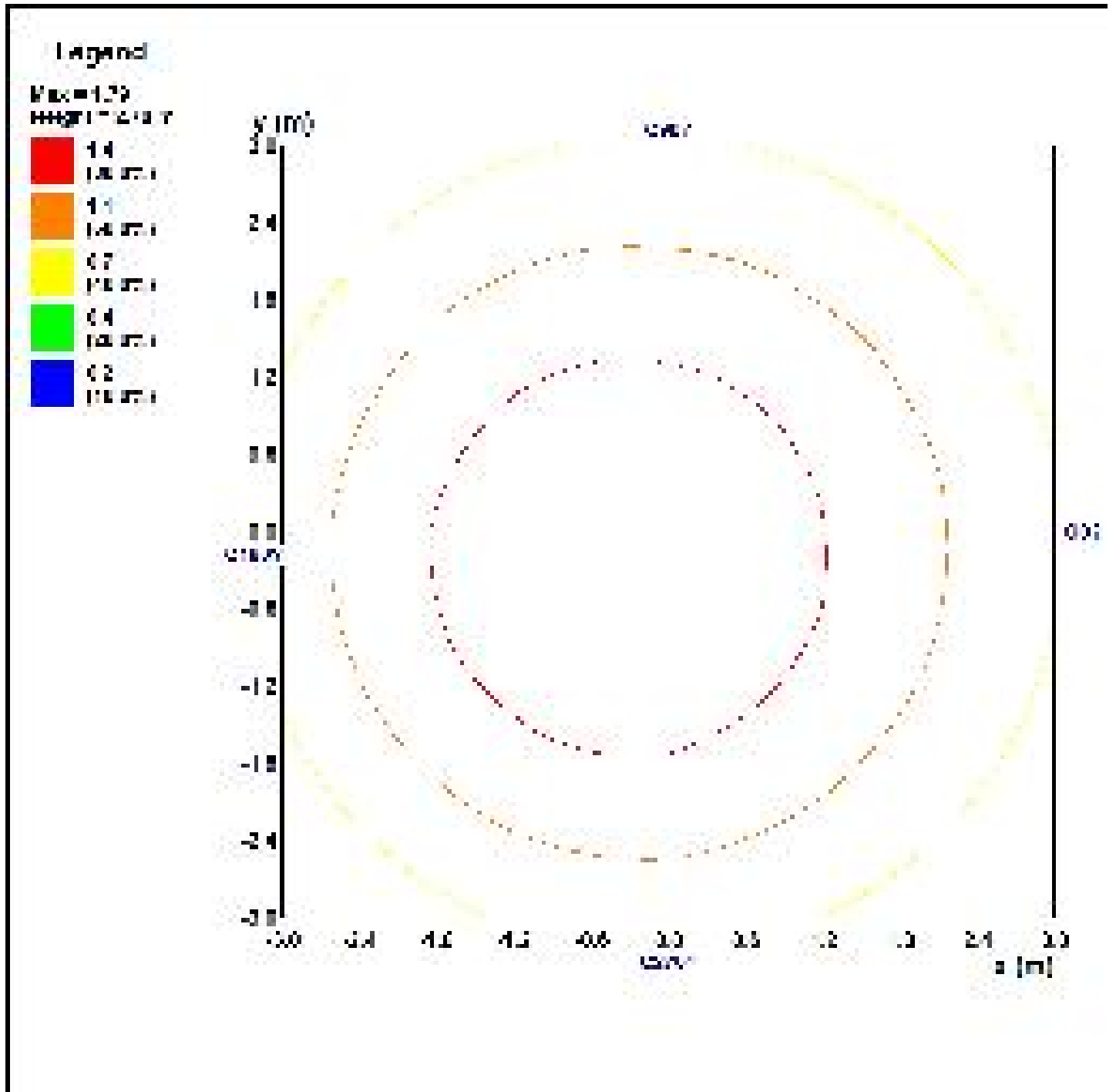
Catalog Number:

Description: Z3U-V05

Test Distance: 5.430m

Test Electrical Parameters: Voltage: 12V, Current: 0.094A, Power: 1.128W

IsoLux Diagram



All illuminance values in lx

Report Number:

Catalog Number:

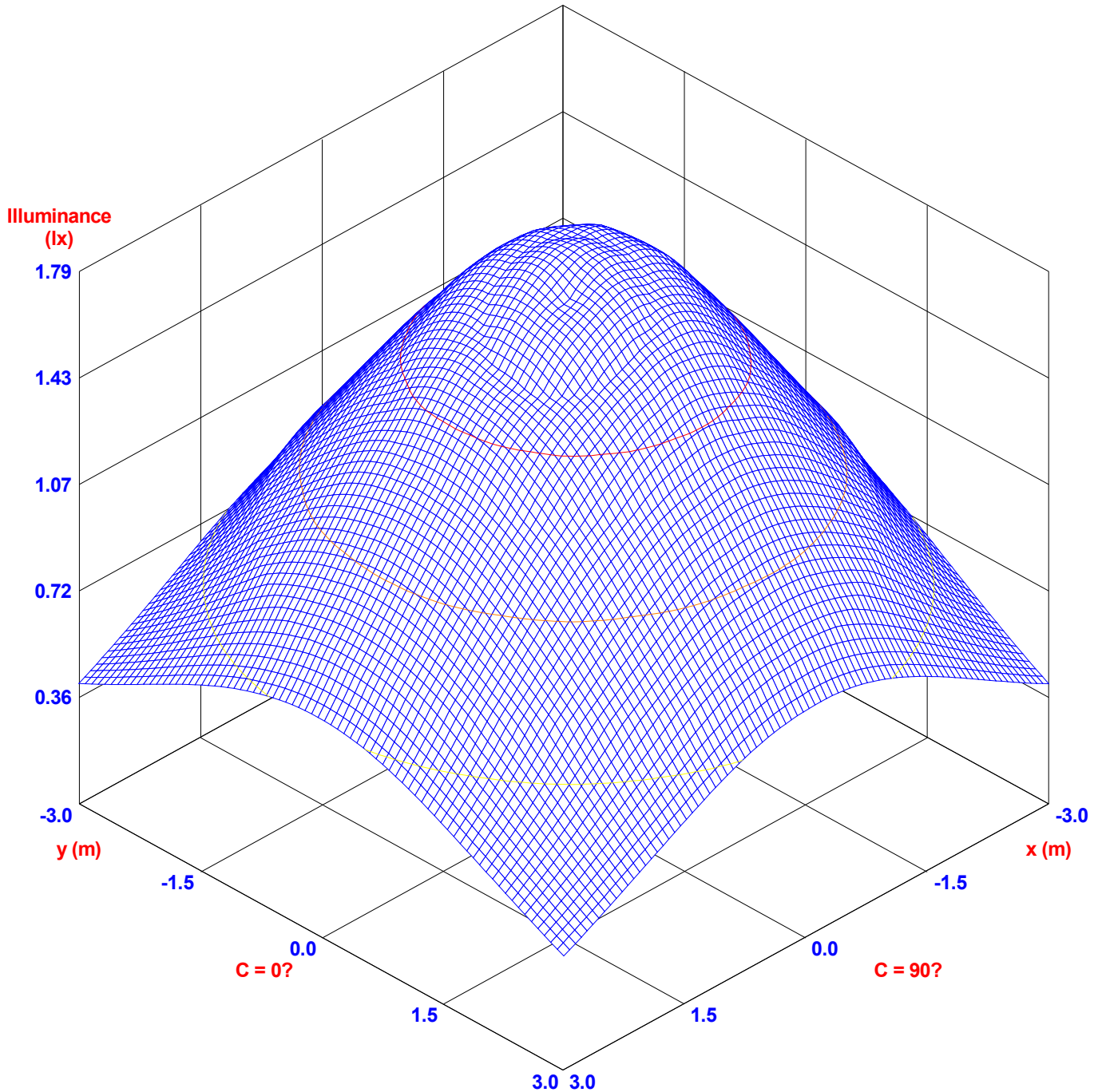
Description: Z3U-V05

Test Distance: 5.430m

Test Electrical Parameters: Voltage: 12V, Current: 0.094A, Power: 1.128W



IsoLux 3D



Report Number:

Catalog Number:

Description: **Z3U-V05**

Test Distance: 5.430m

Test Electrical Parameters: Voltage: 12V, Current: 0.094A, Power: 1.128W



Illumination Levels

y (m)

| | | | | | | | | | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 3.0 | 0.39 | 0.44 | 0.49 | 0.54 | 0.58 | 0.63 | 0.67 | 0.70 | 0.73 | 0.74 | 0.74 | 0.73 | 0.71 | 0.68 | 0.64 | 0.60 | 0.55 | 0.51 | 0.46 | 0.42 | 0.38 |
| | 0.44 | 0.50 | 0.55 | 0.62 | 0.68 | 0.74 | 0.79 | 0.83 | 0.86 | 0.87 | 0.87 | 0.86 | 0.83 | 0.79 | 0.74 | 0.69 | 0.63 | 0.58 | 0.52 | 0.47 | 0.42 |
| 2.4 | 0.49 | 0.56 | 0.63 | 0.71 | 0.78 | 0.86 | 0.92 | 0.96 | 0.99 | 0.99 | 0.99 | 0.98 | 0.95 | 0.91 | 0.86 | 0.79 | 0.72 | 0.65 | 0.59 | 0.52 | 0.46 |
| | 0.55 | 0.63 | 0.71 | 0.81 | 0.91 | 0.98 | 1.04 | 1.08 | 1.11 | 1.12 | 1.11 | 1.09 | 1.06 | 1.01 | 0.95 | 0.89 | 0.82 | 0.74 | 0.65 | 0.58 | 0.51 |
| 1.8 | 0.60 | 0.70 | 0.80 | 0.92 | 1.02 | 1.09 | 1.16 | 1.20 | 1.23 | 1.24 | 1.23 | 1.21 | 1.17 | 1.12 | 1.06 | 0.99 | 0.91 | 0.82 | 0.72 | 0.63 | 0.55 |
| | 0.66 | 0.77 | 0.90 | 1.02 | 1.11 | 1.20 | 1.27 | 1.32 | 1.35 | 1.36 | 1.34 | 1.32 | 1.28 | 1.22 | 1.15 | 1.08 | 0.99 | 0.89 | 0.79 | 0.69 | 0.60 |
| 1.2 | 0.72 | 0.84 | 0.99 | 1.10 | 1.20 | 1.30 | 1.38 | 1.43 | 1.47 | 1.49 | 1.47 | 1.44 | 1.38 | 1.31 | 1.24 | 1.15 | 1.05 | 0.95 | 0.86 | 0.74 | 0.64 |
| | 0.77 | 0.91 | 1.05 | 1.17 | 1.29 | 1.39 | 1.48 | 1.55 | 1.58 | 1.59 | 1.56 | 1.52 | 1.47 | 1.40 | 1.31 | 1.21 | 1.12 | 1.01 | 0.90 | 0.79 | 0.68 |
| 0.6 | 0.81 | 0.97 | 1.11 | 1.23 | 1.36 | 1.46 | 1.56 | 1.64 | 1.67 | 1.66 | 1.63 | 1.57 | 1.52 | 1.46 | 1.37 | 1.27 | 1.17 | 1.06 | 0.94 | 0.83 | 0.71 |
| | 0.84 | 1.01 | 1.15 | 1.28 | 1.41 | 1.52 | 1.63 | 1.70 | 1.72 | 1.73 | 1.70 | 1.64 | 1.55 | 1.50 | 1.42 | 1.30 | 1.20 | 1.09 | 0.97 | 0.85 | 0.73 |
| 0.0 | 0.86 | 1.03 | 1.17 | 1.31 | 1.45 | 1.57 | 1.68 | 1.74 | 1.77 | 1.77 | 1.70 | 1.67 | 1.58 | 1.51 | 1.43 | 1.32 | 1.21 | 1.10 | 0.98 | 0.87 | 0.74 |
| | 0.85 | 1.03 | 1.17 | 1.31 | 1.44 | 1.57 | 1.68 | 1.75 | 1.77 | 1.78 | 1.75 | 1.68 | 1.59 | 1.53 | 1.44 | 1.32 | 1.22 | 1.10 | 0.98 | 0.86 | 0.73 |
| -0.6 | 0.83 | 1.00 | 1.15 | 1.29 | 1.42 | 1.54 | 1.66 | 1.73 | 1.76 | 1.76 | 1.74 | 1.66 | 1.59 | 1.52 | 1.43 | 1.31 | 1.20 | 1.08 | 0.96 | 0.84 | 0.72 |
| | 0.80 | 0.96 | 1.11 | 1.24 | 1.38 | 1.50 | 1.59 | 1.67 | 1.72 | 1.72 | 1.70 | 1.64 | 1.57 | 1.48 | 1.38 | 1.28 | 1.17 | 1.05 | 0.94 | 0.82 | 0.70 |
| -1.2 | 0.75 | 0.90 | 1.06 | 1.18 | 1.30 | 1.41 | 1.51 | 1.58 | 1.63 | 1.65 | 1.63 | 1.58 | 1.50 | 1.41 | 1.32 | 1.23 | 1.12 | 1.01 | 0.90 | 0.78 | 0.67 |
| | 0.70 | 0.82 | 0.97 | 1.11 | 1.21 | 1.32 | 1.41 | 1.48 | 1.51 | 1.53 | 1.52 | 1.47 | 1.41 | 1.34 | 1.25 | 1.15 | 1.05 | 0.95 | 0.84 | 0.73 | 0.63 |
| -1.8 | 0.64 | 0.75 | 0.87 | 1.01 | 1.12 | 1.21 | 1.29 | 1.35 | 1.39 | 1.41 | 1.40 | 1.36 | 1.31 | 1.24 | 1.16 | 1.07 | 0.98 | 0.88 | 0.77 | 0.67 | 0.59 |
| | 0.58 | 0.67 | 0.77 | 0.89 | 1.00 | 1.10 | 1.17 | 1.22 | 1.26 | 1.28 | 1.27 | 1.24 | 1.19 | 1.13 | 1.06 | 0.98 | 0.89 | 0.79 | 0.70 | 0.62 | 0.54 |
| -2.4 | 0.53 | 0.60 | 0.68 | 0.77 | 0.87 | 0.96 | 1.05 | 1.09 | 1.12 | 1.14 | 1.14 | 1.11 | 1.07 | 1.02 | 0.96 | 0.87 | 0.79 | 0.71 | 0.63 | 0.56 | 0.50 |
| | 0.47 | 0.53 | 0.60 | 0.67 | 0.75 | 0.82 | 0.88 | 0.94 | 0.98 | 1.00 | 1.01 | 0.98 | 0.94 | 0.89 | 0.83 | 0.76 | 0.69 | 0.63 | 0.56 | 0.51 | 0.45 |
| -3.0 | 0.42 | 0.47 | 0.53 | 0.58 | 0.64 | 0.70 | 0.75 | 0.79 | 0.82 | 0.84 | 0.84 | 0.83 | 0.80 | 0.76 | 0.71 | 0.66 | 0.61 | 0.55 | 0.50 | 0.45 | 0.41 |
| | -3.0 | -2.4 | -1.8 | -1.2 | -0.6 | 0.0 | 0.6 | 1.2 | 1.8 | 2.4 | 3.0 | | | | | | | | | | |

x (m)

Horizontal Illuminance

All illuminance values in lux

Table Average: 1.05 Table Maximum: 1.78 Table Minimum: 0.38

Mounting Height = 2.7 m

Report Number:

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Description: **Z3U-V05**

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IESNA Coefficients of Utilisation Table

| Ceiling Cavity Reflect.: | 80% | | | 70% | | | 50% | | | 30% | | | 10% | | | 0% |
|--------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| Wall Reflect.: | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 50% | 30% | 10% | 0% |
| Room Cavity Ratio | Coefficients of Utilisation for 20% Effective Floor Cavity Reflectance | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |

Invalid Elevation Angles!

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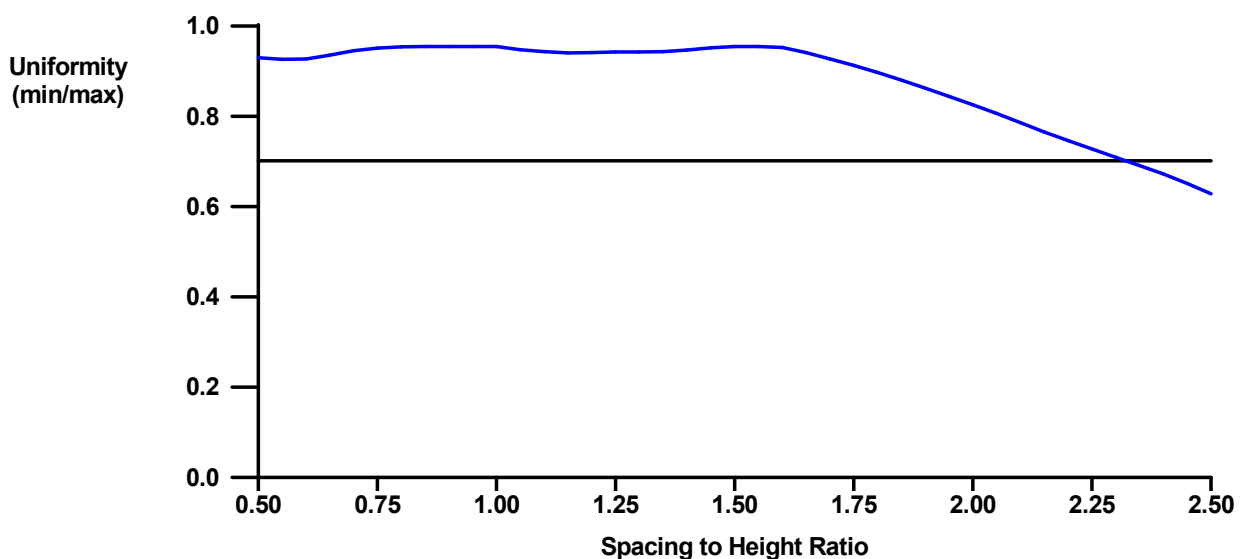
Test Electrical Parameters: Voltage: 12V, Current: 0.094A, Power: 1.128W



TM5 Utilisation Factor Table

SHR Nominal = 2.25:1 SHR Maximum = 2.32:1

| Reflectance | | | Room Index (K) | | | | | | | | |
|----------------------|----------|-------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70 | 0.50 | 0.20 | N/A | N/A | -59.58 | -64.11 | -71.34 | -76.21 | -79.63 | -84.22 | -87.31 |
| 0.70 | 0.30 | 0.20 | N/A | N/A | -52.19 | -56.97 | -64.86 | -70.36 | -74.30 | -79.70 | -83.41 |
| 0.70 | 0.10 | 0.20 | N/A | N/A | -46.48 | -51.29 | -59.52 | -65.41 | -69.69 | -75.68 | -79.88 |
| 0.50 | 0.50 | 0.20 | N/A | N/A | -57.13 | -61.37 | -68.18 | -72.76 | -75.97 | -80.28 | -83.19 |
| 0.50 | 0.30 | 0.20 | N/A | N/A | -50.72 | -55.23 | -62.68 | -67.85 | -71.51 | -76.53 | -79.97 |
| 0.50 | 0.10 | 0.20 | N/A | N/A | -45.65 | -50.24 | -58.06 | -63.61 | -67.60 | -73.16 | -77.03 |
| 0.30 | 0.50 | 0.20 | N/A | N/A | -54.86 | -58.83 | -65.25 | -69.59 | -72.60 | -76.66 | -79.41 |
| 0.30 | 0.30 | 0.20 | N/A | N/A | -49.32 | -53.58 | -60.63 | -65.49 | -68.91 | -73.58 | -76.78 |
| 0.30 | 0.10 | 0.20 | N/A | N/A | -44.84 | -49.22 | -56.66 | -61.89 | -65.62 | -70.77 | -74.35 |
| 0.00 | 0.00 | 0.00 | N/A | N/A | -42.04 | -46.19 | -53.25 | -58.19 | -61.67 | -66.47 | -69.78 |
| Distribution Factors | Floor: | N/A | N/A | -42.04 | -46.19 | -53.25 | -58.19 | -61.67 | -66.47 | -69.78 | |
| | Wall: | N/A | N/A | -44.53 | -40.38 | -33.32 | -28.38 | -24.90 | -20.10 | -16.78 | |
| | Ceiling: | N/A | N/A | -1.66 | -1.66 | -1.66 | -1.66 | -1.66 | -1.66 | -1.66 | |
| BZ Numbers: | | N/A | N/A | 6 | 6 | 6 | 6 | 6 | 6 | 5 | |



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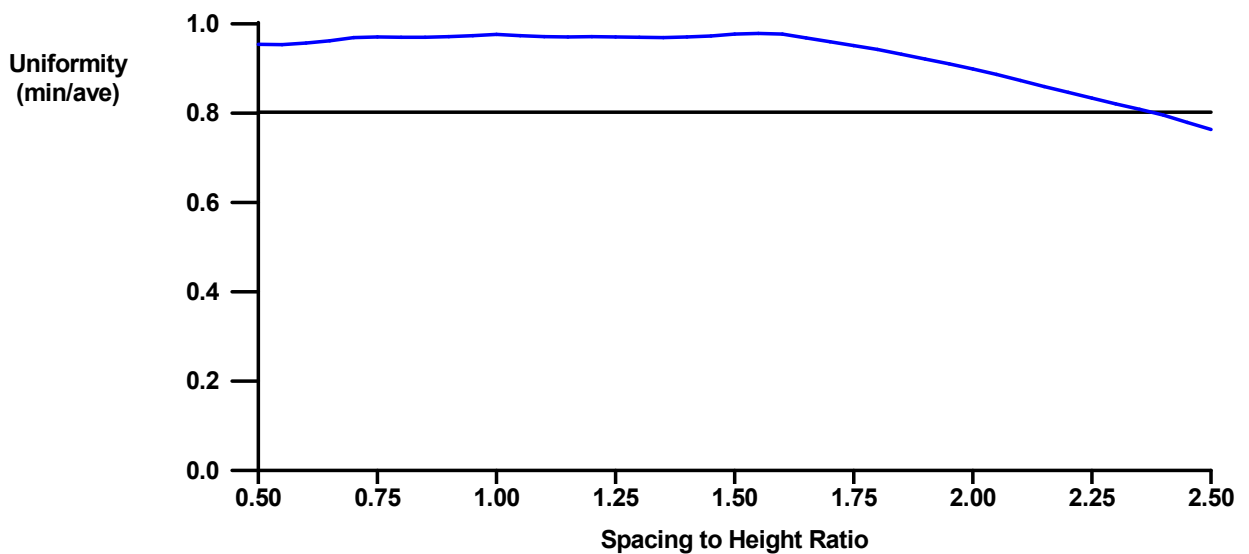


TM5* Utilisation Factor Table

* Based on TM5, except using Min / Ave = 0.8 as Spacing Criteria

SHR Nominal = 2.25:1 SHR Maximum = 2.40:1

| Reflectance | | | Room Index (K) | | | | | | | | |
|----------------------|----------|-------|----------------|------|--------|--------|--------|--------|--------|--------|--------|
| Ceiling | Wall | Floor | 0.75 | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 | 3.00 | 4.00 | 5.00 |
| 0.70 | 0.50 | 0.20 | N/A | N/A | -59.58 | -64.11 | -71.34 | -76.21 | -79.63 | -84.22 | -87.31 |
| 0.70 | 0.30 | 0.20 | N/A | N/A | -52.19 | -56.97 | -64.86 | -70.36 | -74.30 | -79.70 | -83.41 |
| 0.70 | 0.10 | 0.20 | N/A | N/A | -46.48 | -51.29 | -59.52 | -65.41 | -69.69 | -75.68 | -79.88 |
| 0.50 | 0.50 | 0.20 | N/A | N/A | -57.13 | -61.37 | -68.18 | -72.76 | -75.97 | -80.28 | -83.19 |
| 0.50 | 0.30 | 0.20 | N/A | N/A | -50.72 | -55.23 | -62.68 | -67.85 | -71.51 | -76.53 | -79.97 |
| 0.50 | 0.10 | 0.20 | N/A | N/A | -45.65 | -50.24 | -58.06 | -63.61 | -67.60 | -73.16 | -77.03 |
| 0.30 | 0.50 | 0.20 | N/A | N/A | -54.86 | -58.83 | -65.25 | -69.59 | -72.60 | -76.66 | -79.41 |
| 0.30 | 0.30 | 0.20 | N/A | N/A | -49.32 | -53.58 | -60.63 | -65.49 | -68.91 | -73.58 | -76.78 |
| 0.30 | 0.10 | 0.20 | N/A | N/A | -44.84 | -49.22 | -56.66 | -61.89 | -65.62 | -70.77 | -74.35 |
| 0.00 | 0.00 | 0.00 | N/A | N/A | -42.04 | -46.19 | -53.25 | -58.19 | -61.67 | -66.47 | -69.78 |
| Distribution Factors | Floor: | | N/A | N/A | -42.04 | -46.19 | -53.25 | -58.19 | -61.67 | -66.47 | -69.78 |
| | Wall: | | N/A | N/A | -44.53 | -40.38 | -33.32 | -28.38 | -24.90 | -20.10 | -16.78 |
| | Ceiling: | | N/A | N/A | -1.66 | -1.66 | -1.66 | -1.66 | -1.66 | -1.66 | -1.66 |
| BZ Numbers: | | | N/A | N/A | 6 | 6 | 6 | 6 | 6 | 6 | 5 |



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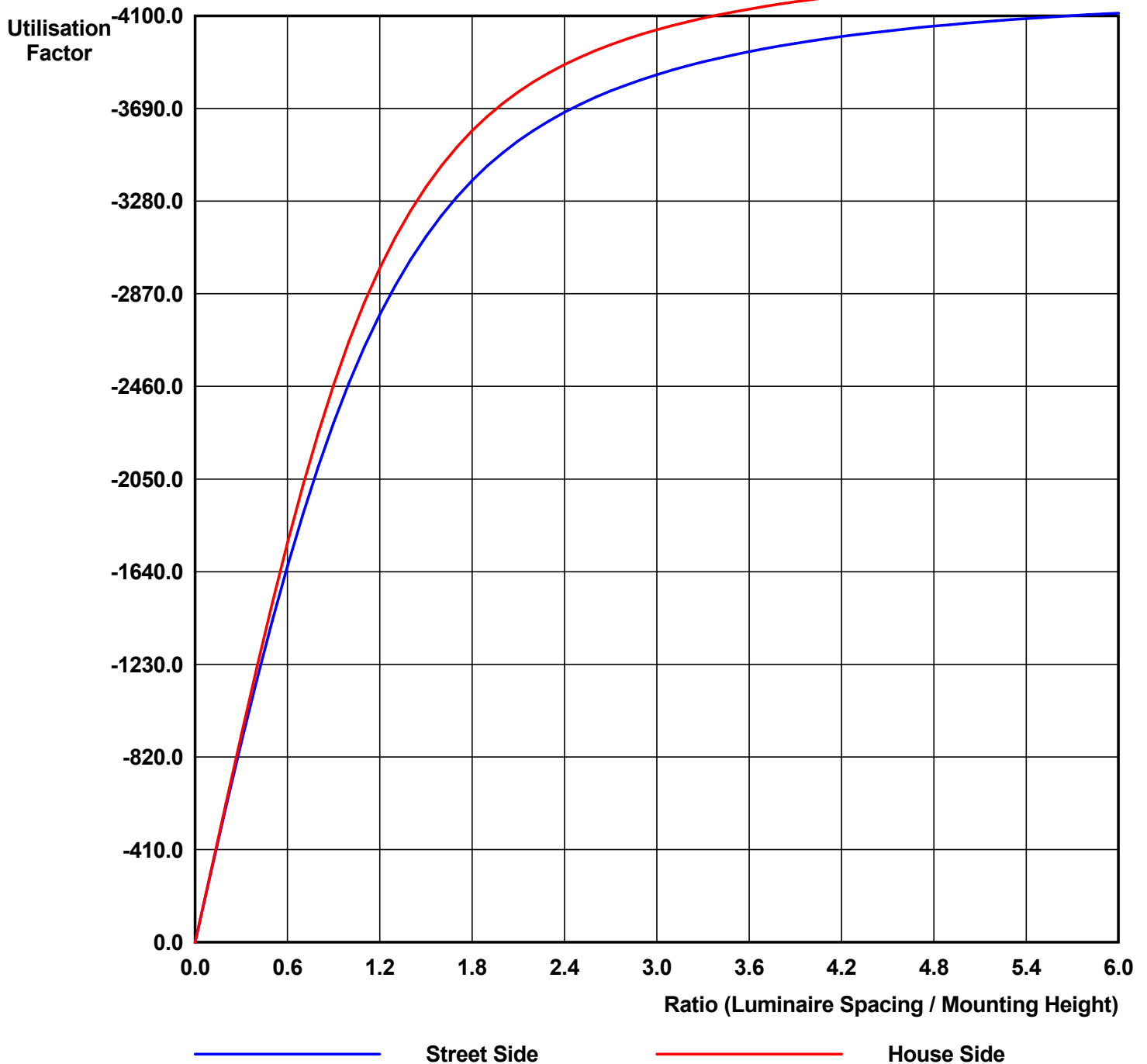
Description: Z3U-V05

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Roadway Utilisation Factor Graph



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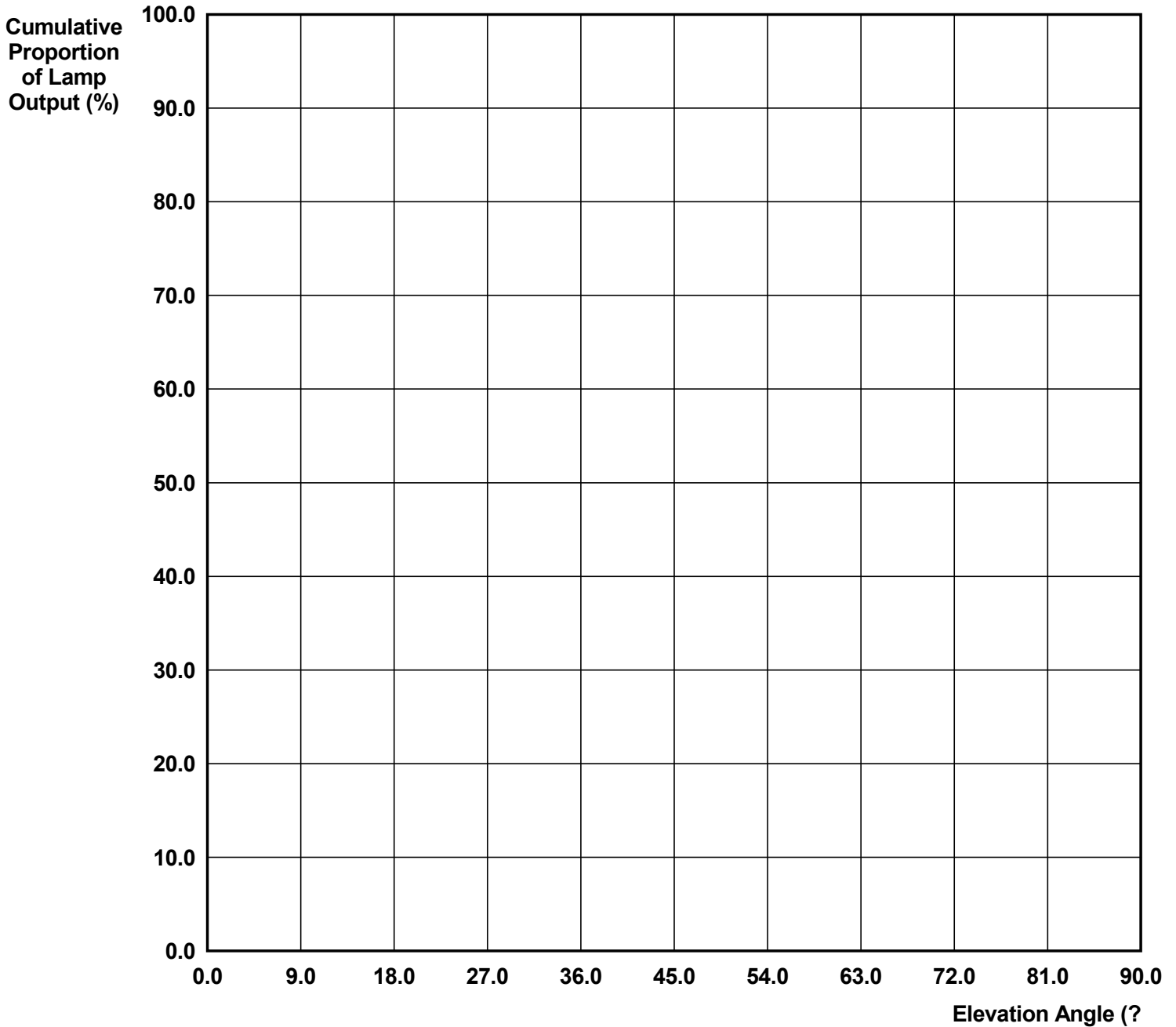
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Zonal Flux Diagram



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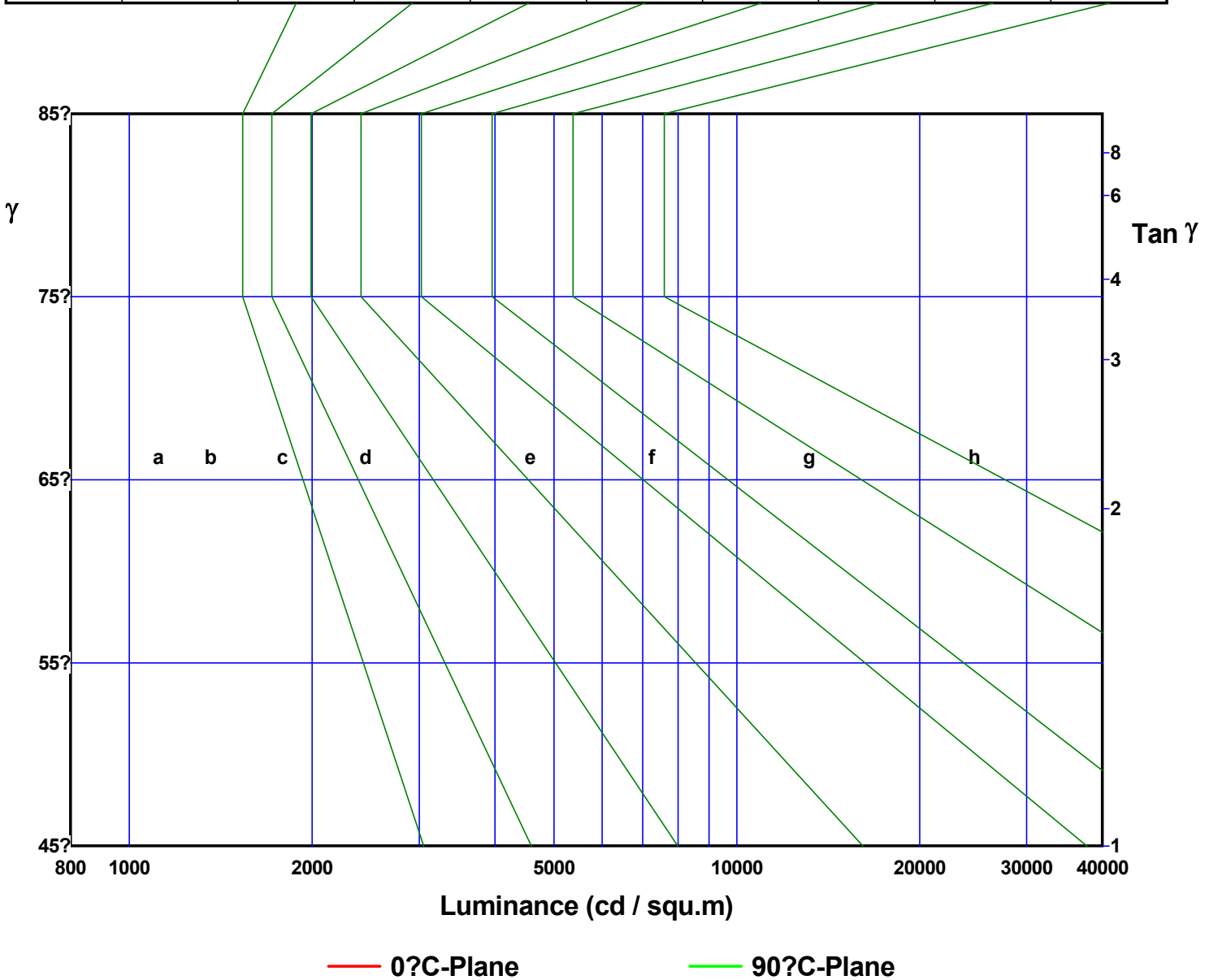
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Luminance Limiting Curve

| Glare Rating | Quality Class | Service Values of Illuminance (lx) | | | | | | | |
|--------------|---------------|------------------------------------|------|------|------|------|------|------|------|
| | | 2000 | 1000 | 500 | <300 | e | f | g | h |
| 1.15 | A | 2000 | 1000 | 500 | <300 | e | f | g | h |
| 1.5 | B | | 2000 | 1000 | 500 | <300 | | | |
| 1.85 | C | | | 2000 | 1000 | 500 | <300 | | |
| 2.2 | D | | | | 2000 | 1000 | 500 | <300 | |
| 2.55 | E | a | b | c | d | 2000 | 1000 | 500 | <300 |



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CIBSE LG3 VDT Category

| | Category 1 | Category 2 | Category 3 |
|-----------------------------|-------------|-------------|-------------|
| Starting Gamma Angle (?: | 55.0 | 65.0 | 75.0 |
| Final Gamma Angle (?: | 90.0 | 90.0 | 90.0 |
| Avg Luminance Found (cd/m?: | 0.00 | 0.00 | 0.00 |
| Max. Permissible (cd/m?: | 200.0 | 200.0 | 200.0 |
| Max Luminance Found (cd/m?: | 0.00 | 0.00 | 0.00 |
| Max. Permissible (cd/m?: | 500.0 | 500.0 | 500.0 |
| Result: | PASS | PASS | PASS |



Report Number:

Catalog Number:

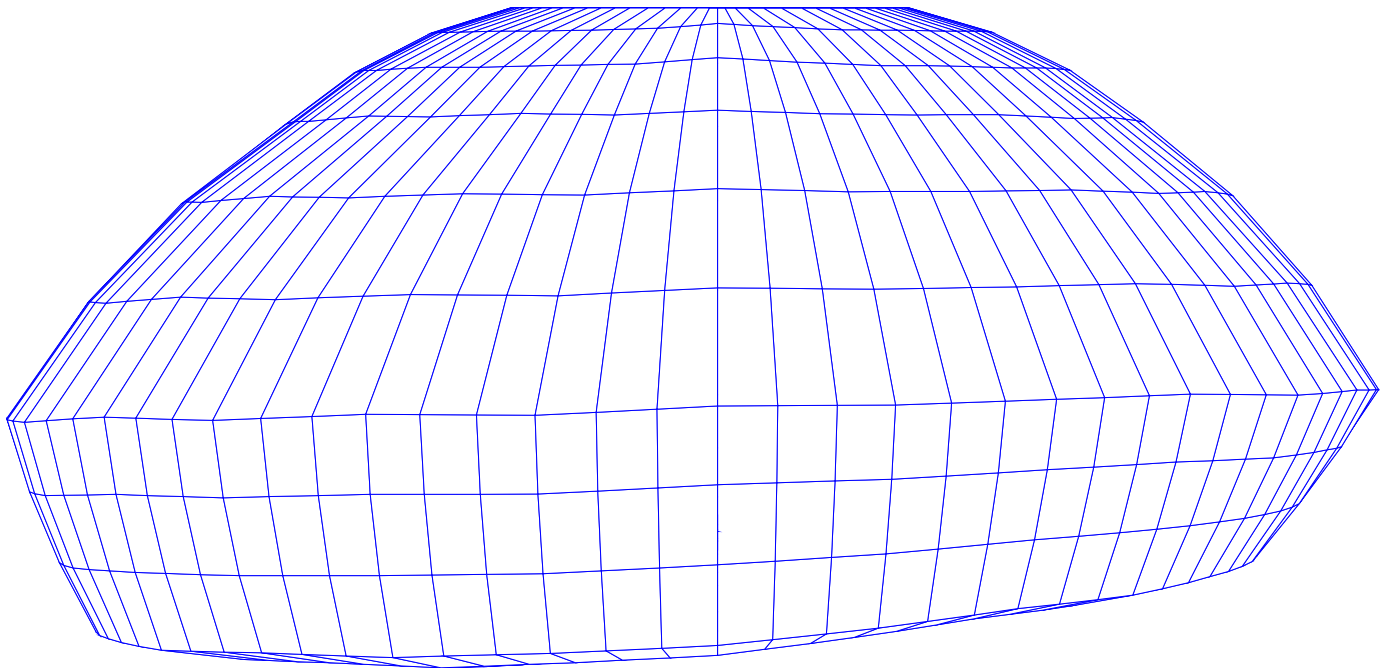
Description: *Z3U-V05*

Test Distance: 5.430m

Test Electrical Parameters: Voltage: 12V, Current: 0.094A, Power: 1.128W



Photometric Solid



Viewing Angle: C = 0°

Page 20 of 20