

# TEST REPORT

## 1. Applicant

\* Client Name : FEELUX Co. Ltd.  
\* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-si Gyeonggi-do 482-844 Korea  
\* Date of Receipt : 210112

## 2. Purpose of Report :

3. Number of Report : 210112

4. Test Standard / Item : / 210112 FTP 3500K 24V

5. Test Period : 210112 ~ 210112

## 6. Test Environment

\* Ambient Temp. : 18.6 +- 3 °C  
\* Relative Humidity : 14.0 +- 10 % RH

## 7. Test Item

\* Name of Product :  
\* Rating :  
\* Model :

8. Test Result : Refer to the attachment

|              |         |      |                   |      |
|--------------|---------|------|-------------------|------|
| Confirmation | Test by |      | Technical manager |      |
|              | CGR     | Sign | MKOH              | Sign |

\*\*\*\*\*

- \* The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
- \* This report cannot be reporduced, except in full.
- \* This report is for reference only. It cannot replace the report by standard organization(s).

## Result

| Report Number | Sample Name | Sample Number | Test Standard |
|---------------|-------------|---------------|---------------|
| 210112        |             |               |               |

| Test Item                         | Unit | Result          | Notice |
|-----------------------------------|------|-----------------|--------|
| Beam Distribution Test            |      | See Attachement |        |
| ATHD                              | %    | 0.0             |        |
| CIE 1931 Cx, Cy                   |      | 0.4155 , 0.3902 |        |
| Correlated Color Temperature      | K    | 3297            |        |
| Ra                                |      | 92.83           |        |
| Power Factor                      |      | 1.000           |        |
| Input Voltage                     | V    | 24.000          |        |
| Input Current                     | A    | 0.575           |        |
| Input Watt                        | W    | 13.81           |        |
| Lamp Flux                         | lm   | 1503.1          |        |
| Efficient                         | lm/W | 108.92          |        |
| luminous Intensity (Max , Center) | cd   | 535 , 535       |        |
| Illuminance                       | lx   | 535             | 1 m    |
|                                   |      | 134             | 2 m    |
|                                   |      | 59              | 3 m    |

\* This test result is for the sample provided by the client.

\* Sample photo

[Click to load image](#)

Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Lamp flux (lm) 1503

Current (A) 0.575

Total flux (lm) 1503

Power Factor 1

Report

210112

Filename 210112 FTP 3500K 24V.jdt

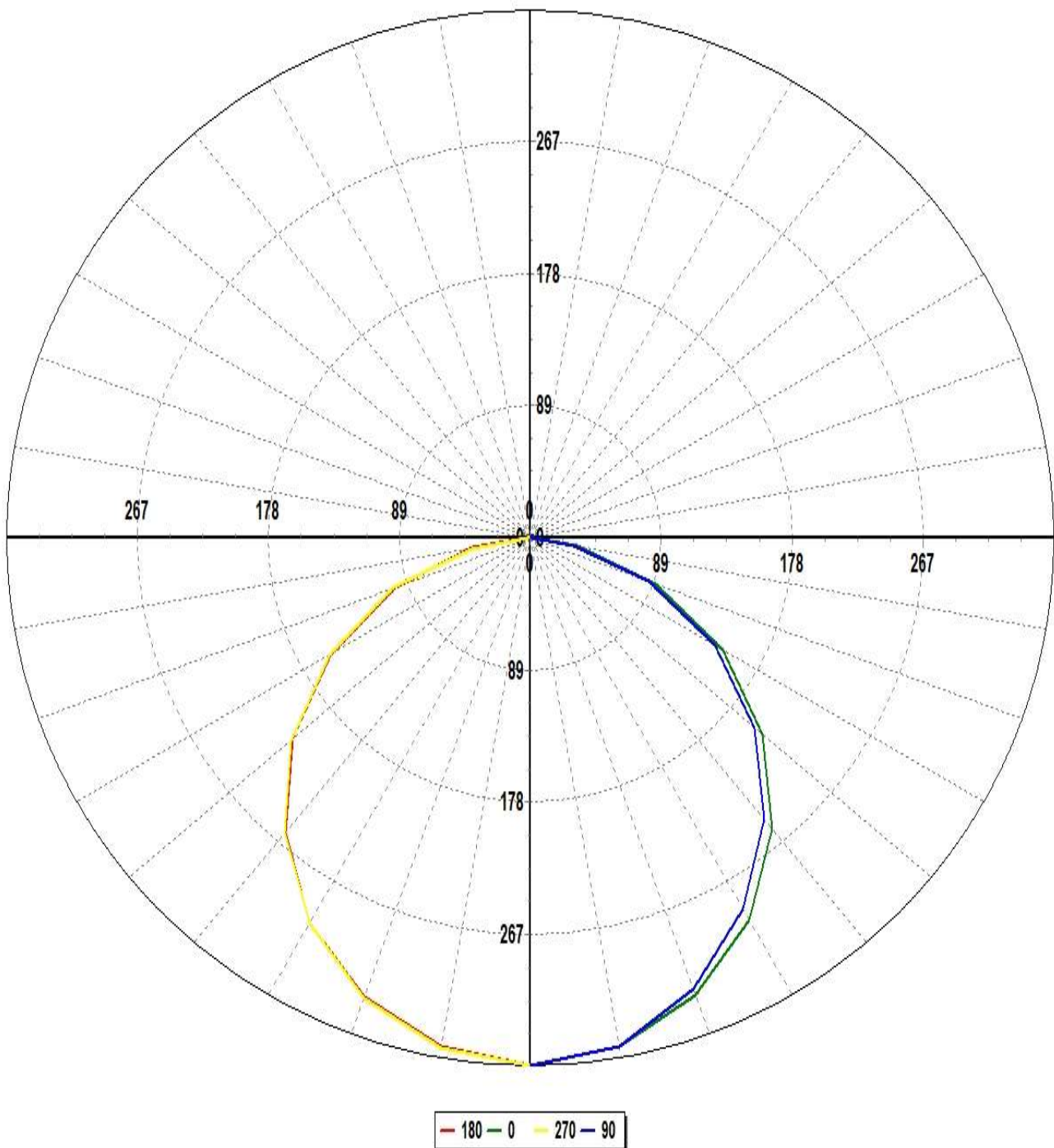
Operator

CGR

Date

2021-01-12 오후 3:45:16

## Luminous Intensity Distribution



Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Report

210112

Lamp flux (lm) 1503

Current (A) 0.575

Filename 210112 FTP 3500K 24V.jdt

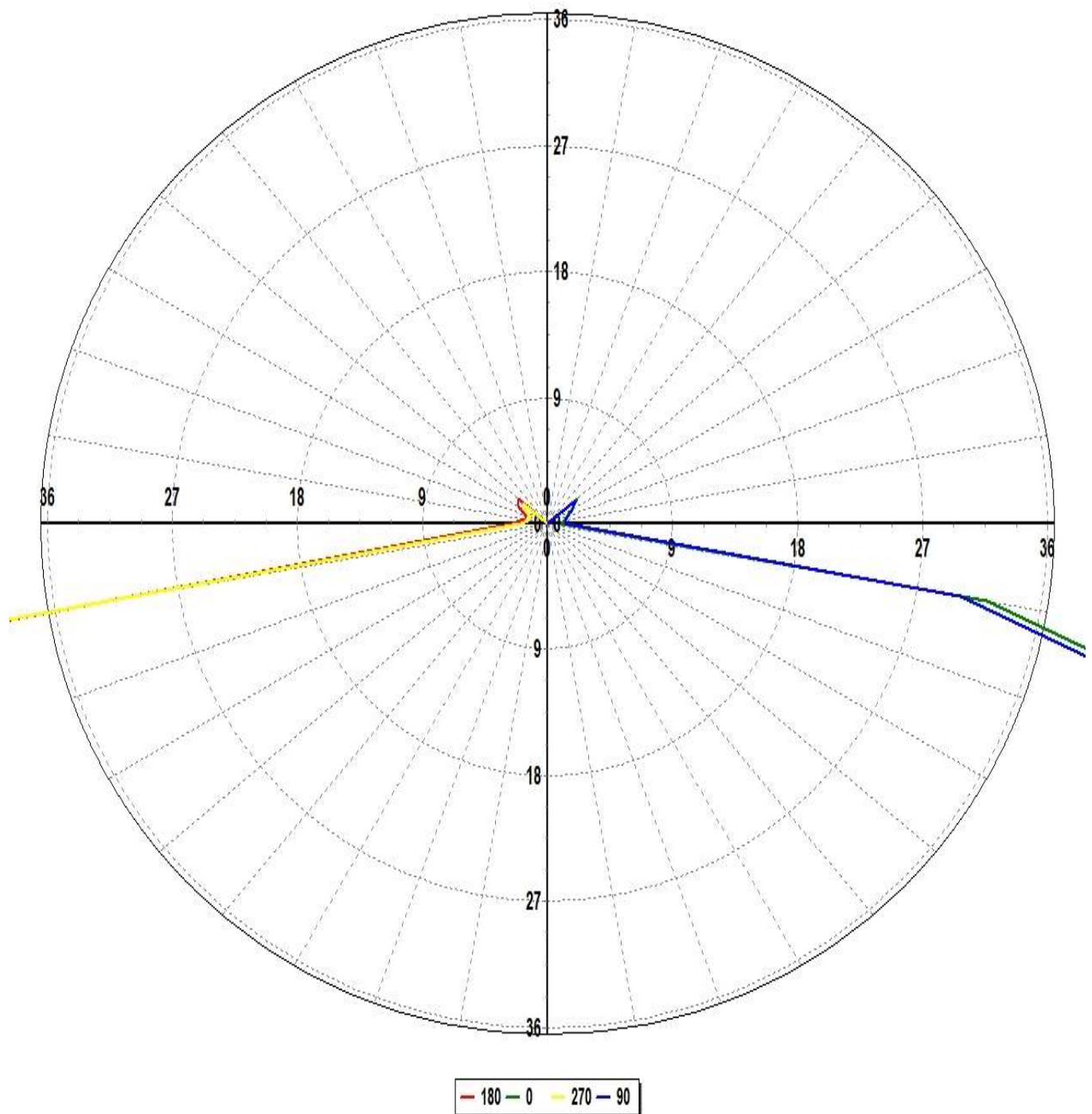
Total flux (lm) 1503

Power Factor 1

Operator CGR

Date 2021-01-12 오후 3:45:16

## Luminous Intensity Distribution (Lowest 10%)



# Luminaire

## Lamp

|                 |      |              |       |          |                          |
|-----------------|------|--------------|-------|----------|--------------------------|
| No. of lamps    | 1    | Voltage (V)  | 24    | Report   | 210112                   |
| Lamp flux (lm)  | 1503 | Current (A)  | 0.575 | Filename | 210112 FTP 3500K 24V.jdt |
| Total flux (lm) | 1503 | Power Factor | 1     | Operator | CGR                      |
|                 |      |              |       | Date     | 2021-01-12 오후 3:45:16    |

## Luminous Intensity Data

Maximum (cd) : 535

Minimum (cd) : 1

| G/C | 0      | 30     | 60     | 90     | 120    | 150    | 180    | 210    | 240    | 270    | 300    |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0   | 535.06 | 534.68 | 535.15 | 534.77 | 534.51 | 533.16 | 535.06 | 534.68 | 535.15 | 534.77 | 534.51 |
| 10  | 523.27 | 520.86 | 521.59 | 522.98 | 522.1  | 520.98 | 524.2  | 527.61 | 524.74 | 525.25 | 525.11 |
| 20  | 494.25 | 489.33 | 489.14 | 487.3  | 488.09 | 489.15 | 495.27 | 496.07 | 499.09 | 496.88 | 497.53 |
| 30  | 448.17 | 440.5  | 437.37 | 434.25 | 440.03 | 440.22 | 451.02 | 453.27 | 449.66 | 451.79 | 450.33 |
| 40  | 384.67 | 378.52 | 375.06 | 371.91 | 374.99 | 376.53 | 388.92 | 391.49 | 390    | 390.47 | 389.06 |
| 50  | 309.3  | 303.64 | 300.53 | 299.56 | 302.07 | 303.95 | 316.41 | 319.07 | 316.94 | 319.12 | 313.89 |
| 60  | 226.81 | 220.27 | 217.88 | 217.41 | 220.72 | 222.69 | 235.35 | 239.51 | 234.95 | 236.55 | 232.78 |
| 70  | 136.21 | 131.2  | 130.94 | 128.83 | 135.43 | 135.44 | 147.13 | 150.34 | 149.38 | 148.87 | 145.35 |
| 80  | 48.27  | 45.45  | 45.38  | 45.31  | 49.5   | 49.38  | 59.84  | 62.78  | 61.29  | 60.89  | 57.45  |
| 90  | 1.45   | 1.52   | 2.49   | 1.93   | 2.48   | 2.67   | 3.76   | 5.1    | 4.57   | 2.88   | 2.87   |
| 100 | 1.99   | 1.74   | 2.2    | 1.87   | 1.89   | 2.13   | 2.41   | 2.36   | 1.92   | 2.12   | 2.23   |
| 110 | 2.28   | 2.65   | 2.64   | 2.4    | 2.8    | 2.63   | 2.43   | 2.67   | 2.47   | 1.92   | 2.53   |
| 120 | 3.02   | 3.3    | 3.14   | 3.11   | 3.22   | 3.6    | 3.62   | 2.85   | 3.02   | 2.68   | 2.39   |
| 130 | 4.17   | 4.3    | 3.14   | 3.95   | 3.38   | 3.39   | 4.13   | 3.61   | 3.52   | 3.46   | 3.41   |

# Luminaire

## Lamp

|                 |      |              |       |          |                          |
|-----------------|------|--------------|-------|----------|--------------------------|
| No. of lamps    | 1    | Voltage (V)  | 24    | Report   | 210112                   |
| Lamp flux (lm)  | 1503 | Current (A)  | 0.575 | Filename | 210112 FTP 3500K 24V.jdt |
| Total flux (lm) | 1503 | Power Factor | 1     | Operator | CGR                      |
|                 |      |              |       | Date     | 2021-01-12 오후 3:45:16    |

## Luminous Intensity Data (Continued)

Maximum (cd) : 535

Minimum (cd) : 1

| G/C | 330    | 360    |
|-----|--------|--------|
| 0   | 533.16 | 535.06 |
| 10  | 524.94 | 523.27 |
| 20  | 496.87 | 494.25 |
| 30  | 450.45 | 448.17 |
| 40  | 390.88 | 384.67 |
| 50  | 317.67 | 309.3  |
| 60  | 235.9  | 226.81 |
| 70  | 146.73 | 136.21 |
| 80  | 58.26  | 48.27  |
| 90  | 3.77   | 1.45   |
| 100 | 2.22   | 1.99   |
| 110 | 2.44   | 2.28   |
| 120 | 2.95   | 3.02   |
| 130 | 3.62   | 4.17   |

## Luminaire

## Lamp

## Report

210112

|                 |      |              |       |
|-----------------|------|--------------|-------|
| No. of lamps    | 1    | Voltage (V)  | 24    |
| Lamp flux (lm)  | 1503 | Current (A)  | 0.575 |
| Total flux (lm) | 1503 | Power Factor | 1     |

|          |                          |
|----------|--------------------------|
| Filename | 210112 FTP 3500K 24V.jdt |
| Operator | CGR                      |
| Date     | 2021-01-12 오후 3:45:16    |

## Luminous Flux Table

|                              |         |
|------------------------------|---------|
| Total Lamp Lumens:           | 1503    |
| Luminaire Efficiency (lm/W): | 1503.06 |
| CIE Classification:          | Direct  |

| Elevation | Lumens | Cumulative | Lamp % | Luminaire % |
|-----------|--------|------------|--------|-------------|
| 0         | 12.78  | 12.78      | 0.85   | 0.85        |
| 10        | 99.59  | 112.37     | 7.48   | 7.48        |
| 20        | 184.77 | 297.13     | 19.77  | 19.77       |
| 30        | 244.01 | 541.14     | 36.00  | 36.00       |
| 40        | 270.01 | 811.16     | 53.97  | 53.97       |
| 50        | 260.24 | 1071.40    | 71.28  | 71.28       |
| 60        | 216.64 | 1288.03    | 85.69  | 85.69       |
| 70        | 144.59 | 1432.62    | 95.31  | 95.31       |
| 80        | 57.87  | 1490.49    | 99.16  | 99.16       |
| 90        | 3.24   | 1493.73    | 99.38  | 99.38       |
| 100       | 2.25   | 1495.98    | 99.53  | 99.53       |
| 110       | 2.56   | 1498.54    | 99.70  | 99.70       |
| 120       | 2.92   | 1501.46    | 99.89  | 99.89       |
| 130       | 1.60   | 1503.06    | 100.00 | 100.00      |

Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Report

210112

Lamp flux (lm) 1503

Current (A) 0.575

Filename 210112 FTP 3500K 24V.jdt

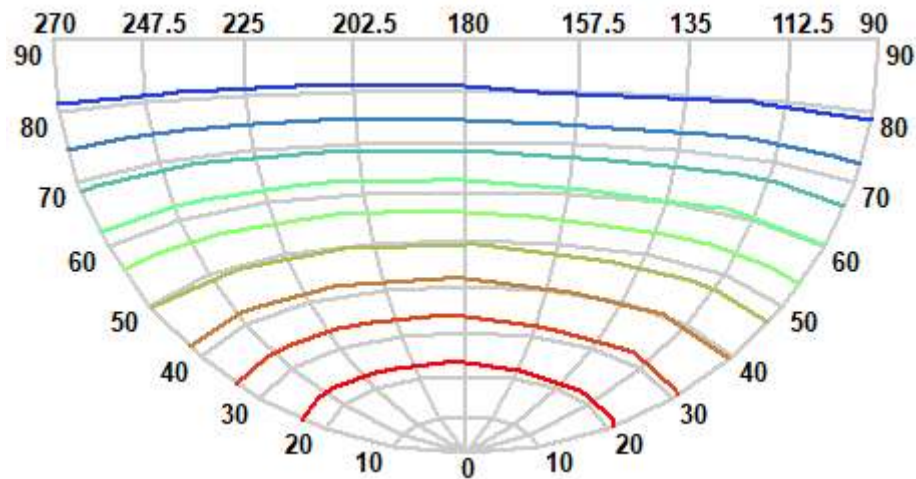
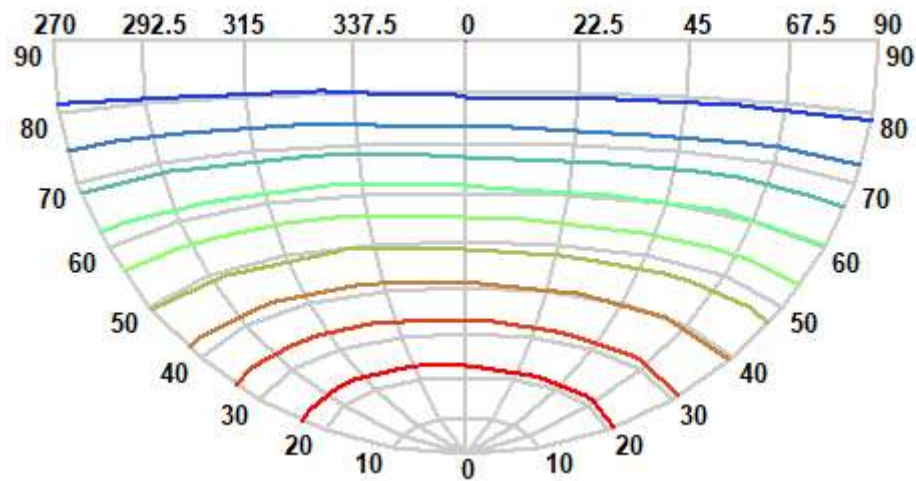
Total flux (lm) 1503

Power Factor 1

Operator CGR

Date 2021-01-12 오후 3:45:16

## IsoCandela (Type C)



Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Lamp flux (lm) 1503

Current (A) 0.575

Total flux (lm) 1503

Power Factor 1

Report

210112

Filename 210112 FTP 3500K 24V.jdt

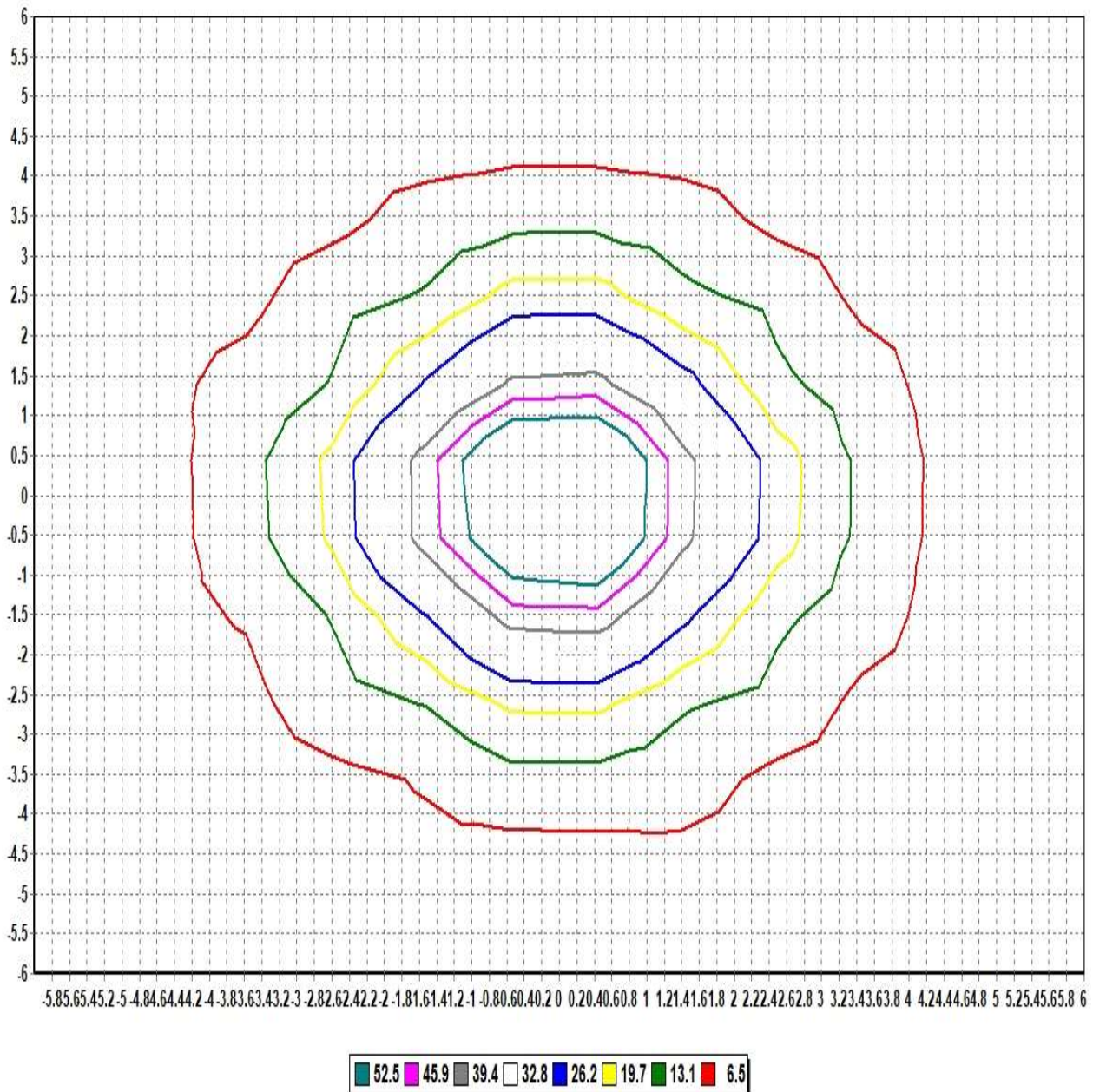
Operator

CGR

Date

2021-01-12 오후 3:45:16

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Report

210112

Lamp flux (lm) 1503

Current (A) 0.575

Filename 210112 FTP 3500K 24V.jdt

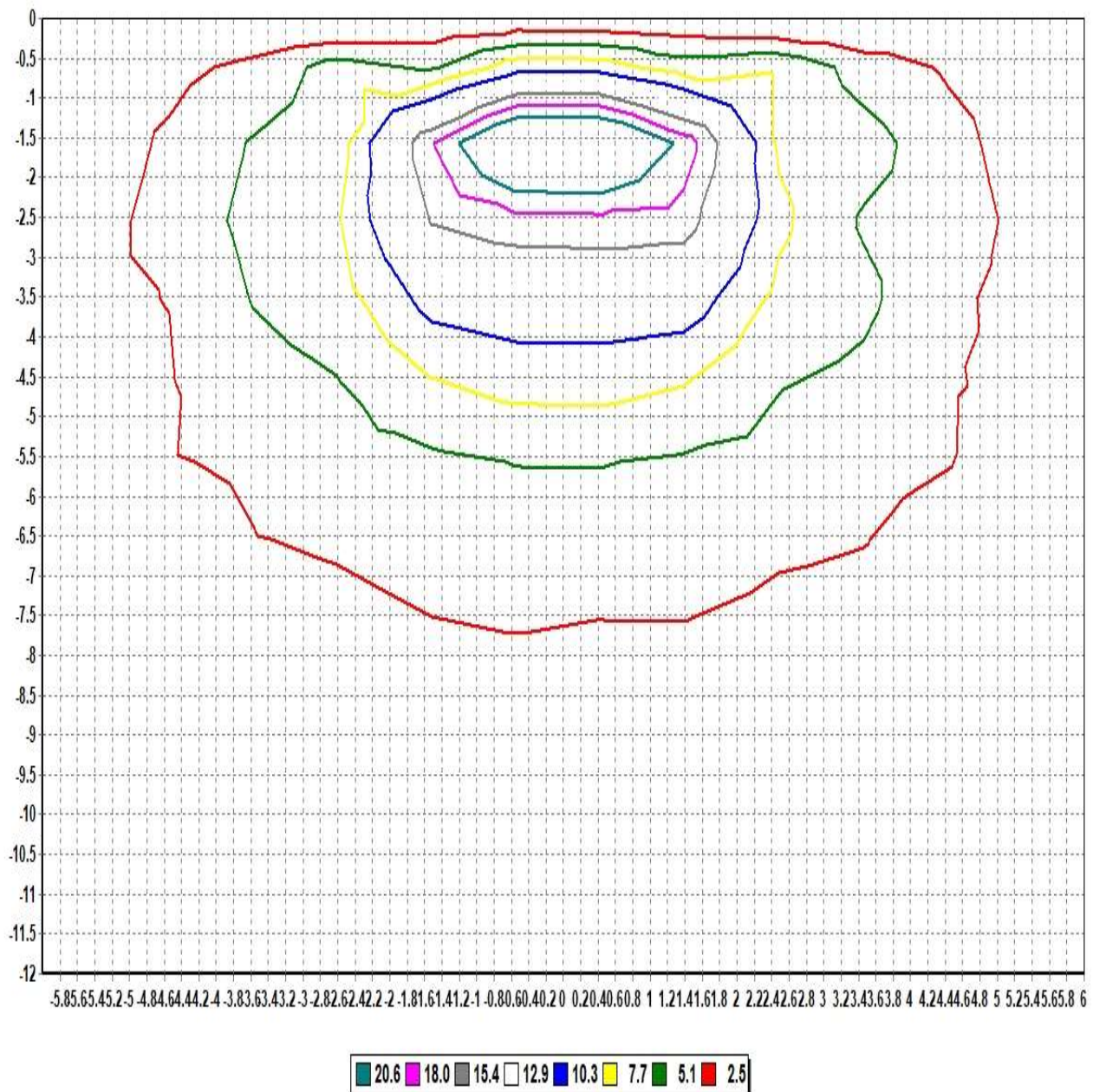
Total flux (lm) 1503

Power Factor 1

Operator CGR

Date 2021-01-12 오후 3:45:16

## IsoLux Diagram (Wall)



Pole Height (m): 2.7

Wall Distance (m): 2.7

Aiming Plane: 0

Wall Height (m): 12

Total Optical Solution Provider



## Luminaire

## Lamp

|                 |      |              |       |
|-----------------|------|--------------|-------|
| No. of lamps    | 1    | Voltage (V)  | 24    |
| Lamp flux (lm)  | 1503 | Current (A)  | 0.575 |
| Total flux (lm) | 1503 | Power Factor | 1     |

|          |                          |
|----------|--------------------------|
| Report   | 210112                   |
| Filename | 210112 FTP 3500K 24V.jdt |
| Operator | CGR                      |
| Date     | 2021-01-12 오후 3:45:16    |

## Illuminance Levels (Ground)

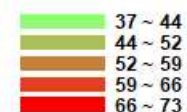
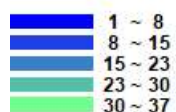
|       |       |       |       |       |       |       |       |       |       |       |      |      |      |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|
| 6.00  | 0.76  | 1.01  | 0.79  | 1.08  | 1.33  | 1.51  | 1.58  | 1.50  | 1.32  | 1.06  | 0.80 | 1.01 | 0.77 |
| 5.00  | 1.02  | 0.87  | 1.25  | 1.75  | 3.38  | 3.98  | 4.21  | 3.97  | 3.39  | 1.76  | 1.26 | 0.88 | 1.03 |
| 4.00  | 0.83  | 1.29  | 2.90  | 4.22  | 4.35  | 5.51  | 6.02  | 5.51  | 4.34  | 4.23  | 2.95 | 1.29 | 0.83 |
| 3.00  | 1.08  | 1.81  | 4.27  | 5.08  | 10.32 | 11.44 | 12.89 | 11.50 | 10.39 | 5.18  | 4.33 | 1.83 | 1.06 |
| 2.00  | 1.35  | 3.40  | 4.36  | 10.44 | 14.79 | 23.63 | 28.01 | 23.84 | 15.08 | 10.64 | 4.36 | 3.42 | 1.34 |
| 1.00  | 1.63  | 4.14  | 5.76  | 11.51 | 23.66 | 42.82 | 59.03 | 43.43 | 23.91 | 11.62 | 5.82 | 4.18 | 1.64 |
| 0.00  | 1.75  | 4.46  | 6.44  | 13.59 | 29.22 | 59.19 | 73.40 | 59.08 | 28.95 | 13.32 | 6.24 | 4.35 | 1.65 |
| -1.00 | 1.59  | 4.10  | 5.75  | 12.08 | 24.66 | 44.09 | 59.31 | 44.05 | 24.54 | 11.98 | 5.81 | 4.15 | 1.60 |
| -2.00 | 1.47  | 3.60  | 4.70  | 10.82 | 15.55 | 24.66 | 29.31 | 24.53 | 15.51 | 10.85 | 4.59 | 3.55 | 1.44 |
| -3.00 | 1.19  | 1.93  | 4.47  | 5.46  | 10.84 | 12.09 | 13.69 | 12.00 | 10.86 | 5.41  | 4.47 | 1.93 | 1.16 |
| -4.00 | 0.90  | 1.40  | 3.09  | 4.48  | 4.70  | 5.92  | 6.48  | 5.91  | 4.59  | 4.48  | 3.07 | 1.38 | 0.89 |
| -5.00 | 1.09  | 0.98  | 1.40  | 1.94  | 3.60  | 4.23  | 4.50  | 4.22  | 3.55  | 1.95  | 1.39 | 0.96 | 1.08 |
| -6.00 | 0.83  | 1.09  | 0.91  | 1.19  | 1.47  | 1.68  | 1.76  | 1.68  | 1.44  | 1.16  | 0.91 | 1.09 | 0.82 |
| -6.00 | -5.00 | -4.00 | -3.00 | -2.00 | -1.00 | 0.00  | 1.00  | 2.00  | 3.00  | 4.00  | 5.00 | 6.00 |      |

Illum. (Max.) : 73.4

Illum. (Min.) : 0.76

Illum. (Avg.) : 8.45

All illuminance level values are in lux.



Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Report

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Lamp flux (lm) 1503

Current (A) 0.575

Filename 210112 FTP 3500K 24V.jdt

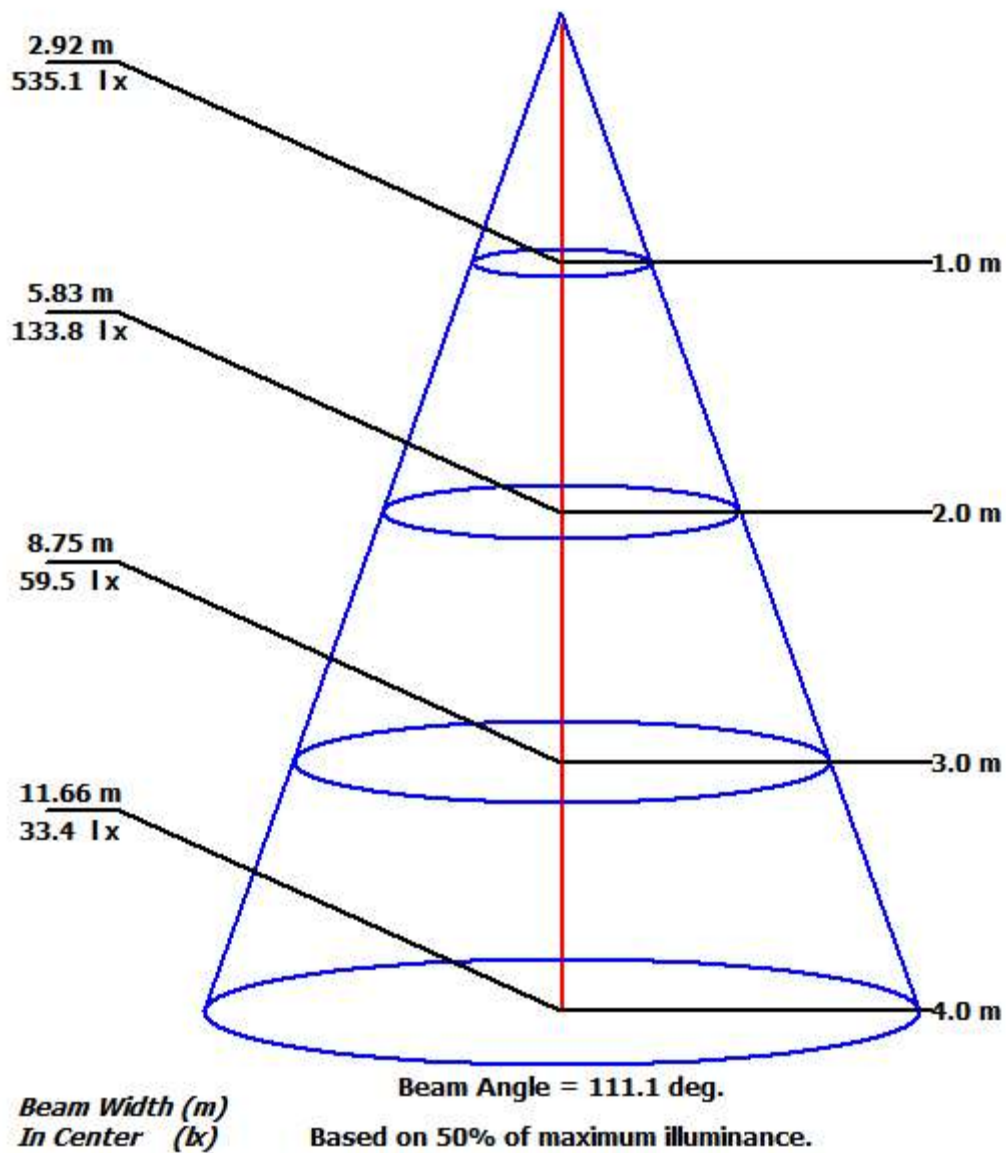
Total flux (lm) 1503

Power Factor 1

Operator CGR

Date 2021-01-12 오후 3:45:16

## Illuminance Cone Diagram





## Luminaire

## Lamp

|                 |      |              |       |
|-----------------|------|--------------|-------|
| No. of lamps    | 1    | Voltage (V)  | 24    |
| Lamp flux (lm)  | 1503 | Current (A)  | 0.575 |
| Total flux (lm) | 1503 | Power Factor | 1     |

Report 210112

Filename 210112 FTP 3500K 24V.jdt

Operator CGR

Date 2021-01-12 오후 3:45:16

## Coefficient of Utilization

|                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Refl. Ceiling (%)       | 80%  | 80%  | 80%  | 70%  | 70%  | 70%  | 50%  | 50%  | 50%  | 30%  | 30%  | 30%  | 10%  | 10%  | 10%  | 0%   |
| Refl. Wall (%)          | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 50%  | 30%  | 10%  | 0%   |
| Eff. Floor Cavity Refl. | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  | 20%  |
| Room CR 0               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Room CR 1               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Room CR 2               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Room CR 3               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Room CR 4               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Room CR 5               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Room CR 6               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Room CR 7               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Room CR 8               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Room CR 9               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Room CR 10              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

