

# 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 : 200604

**2. Purpose of Report :**

**3. Number of Report :** 200604

**4. Test Standard / Item :** / 200604 NMP4 35K-24V-CPL-BK

**5. Test Period :** 200604 ~ 200604

**6. Test Environment**

\* Ambient Temp. : 24.5 +- 3 °C  
\* Relative Humidity : 67.1 +- 10 % RH

**7. Test Item**

\* Name of Product : FEELUX  
\* 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 |
|---------------|-------------|---------------|---------------|
| 200604        | FEELUX      | FEELUX        |               |

| Test Item                         | Unit | Result          | Notice |
|-----------------------------------|------|-----------------|--------|
| Beam Distribution Test            |      | See Attachement |        |
| ATHD                              | %    | 0.0             |        |
| CIE 1931 Cx, Cy                   |      | 0.4065 , 0.3853 |        |
| Correlated Color Temperature      | K    | 3445            |        |
| Ra                                |      | 93.28           |        |
| Power Factor                      |      | 1.000           |        |
| Input Voltage                     | V    | 24.000          |        |
| Input Current                     | A    | 0.159           |        |
| Input Watt                        | W    | 3.82            |        |
| Lamp Flux                         | lm   | 265.7           |        |
| Efficient                         | lm/W | 69.63           |        |
| luminous Intensity (Max , Center) | cd   | 76 , 76         |        |
| Illuminance                       | lx   | 76              | 1 m    |
|                                   |      | 19              | 2 m    |
|                                   |      | 8               | 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

Report

200604

Lamp flux (lm) 266

Current (A) 0.159

Filename 200604 NMP4 35K-24V-CPL-BK.jdt

Total flux (lm) 266

Power Factor 1

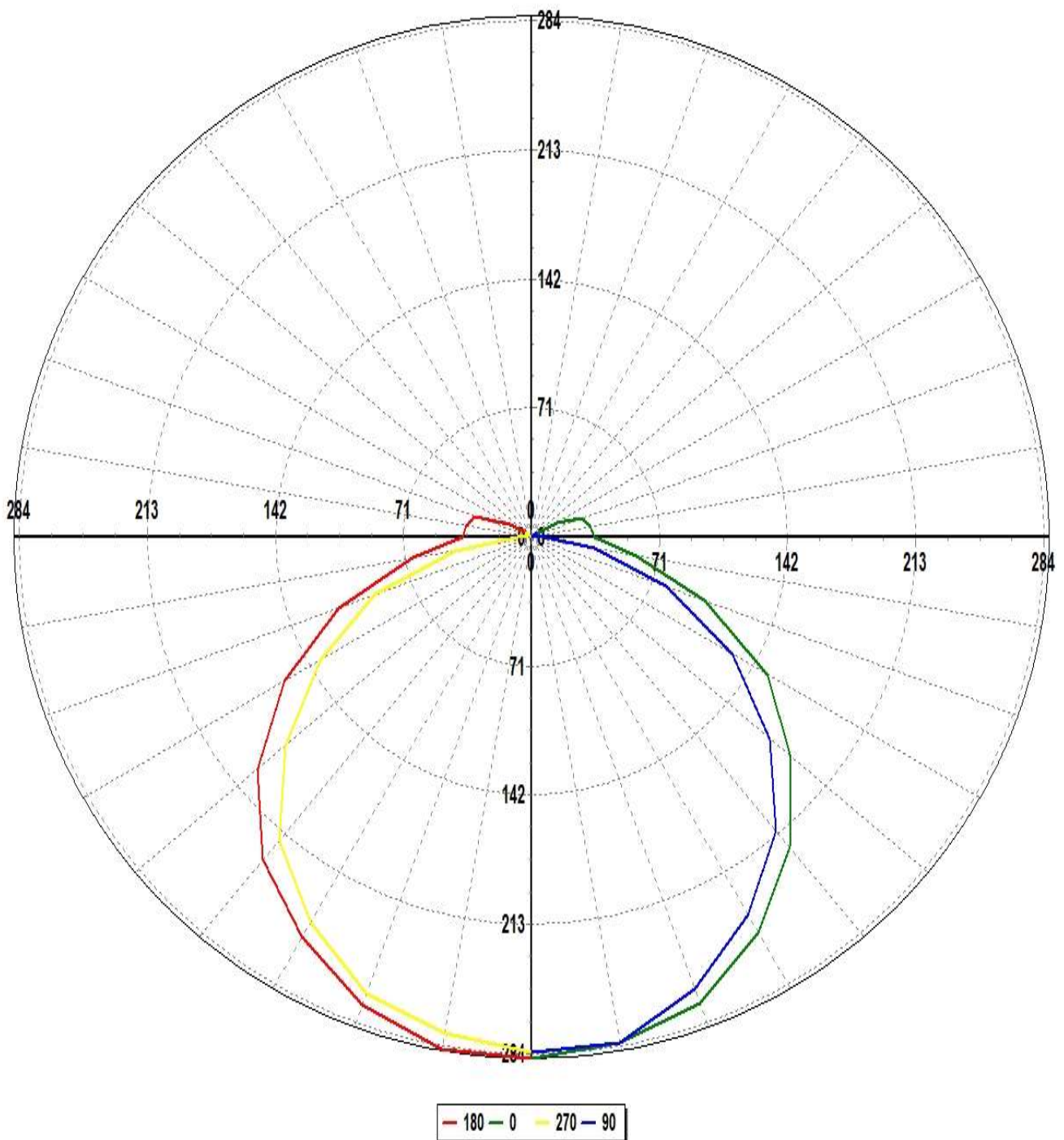
Operator

CGR

Date

2020-06-04 오후 3:52:37

## Luminous Intensity Distribution



Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Report

200604

Lamp flux (lm) 266

Current (A) 0.159

Filename 200604 NMP4 35K-24V-CPL-BK.jdt

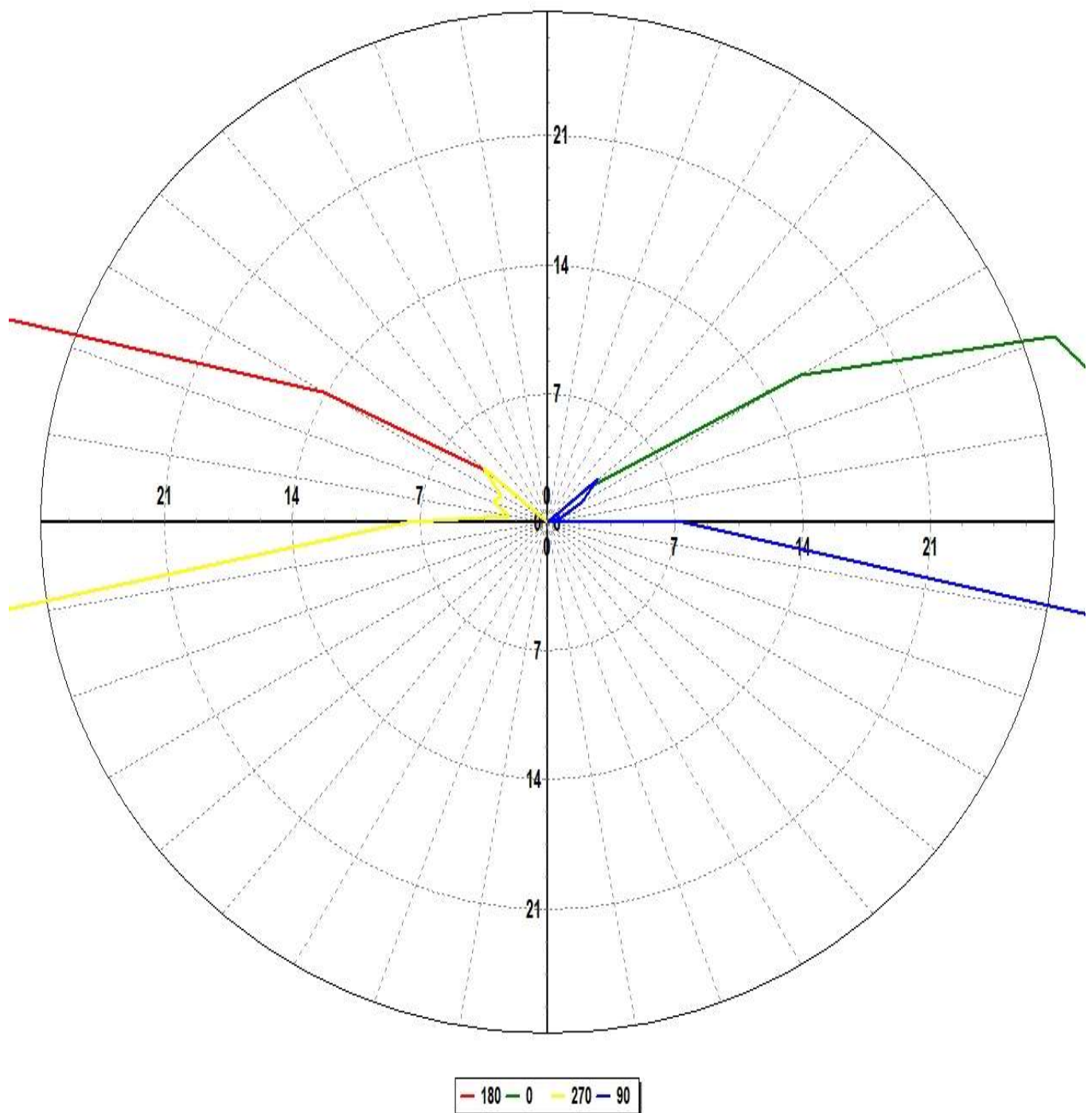
Total flux (lm) 266

Power Factor 1

Operator CGR

Date 2020-06-04 오후 3:52:37

## Luminous Intensity Distribution (Lowest 10%)



# Luminaire

|                 |     |              |       |          |                                |
|-----------------|-----|--------------|-------|----------|--------------------------------|
| Lamp            |     |              |       | Report   | 200604                         |
| No. of lamps    | 1   | Voltage (V)  | 24    | Filename | 200604 NMP4 35K-24V-CPL-BK.jdt |
| Lamp flux (lm)  | 266 | Current (A)  | 0.159 | Operator | CGR                            |
| Total flux (lm) | 266 | Power Factor | 1     | Date     | 2020-06-04 오후 3:52:37          |

## Luminous Intensity Data

Maximum (cd) : 76

Minimum (cd) : 0

| G/C | 0     | 30    | 60    | 90    | 120   | 150   | 180   | 210   | 240   | 270   | 300   | 330   | 360   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0   | 76.32 | 75.99 | 75.88 | 75.41 | 75.03 | 75.61 | 76.32 | 75.99 | 75.88 | 75.41 | 75.03 | 75.61 | 76.32 |
| 10  | 75.17 | 75.11 | 74.83 | 75.12 | 74.72 | 75.03 | 76.15 | 75.73 | 74.91 | 73.67 | 74.52 | 74.46 | 75.17 |
| 20  | 72.53 | 71.29 | 71.24 | 70.27 | 70.64 | 71.65 | 72.94 | 73.65 | 71.87 | 71.24 | 71.34 | 71.96 | 72.53 |
| 30  | 66.9  | 66.41 | 65.27 | 63.75 | 65.4  | 66.41 | 67.61 | 67.99 | 67.1  | 65.17 | 66.28 | 66.73 | 66.9  |
| 40  | 59.27 | 58.86 | 57.64 | 56.12 | 57.95 | 59.6  | 61.58 | 62.2  | 58.47 | 57.83 | 58.42 | 60.79 | 59.27 |
| 50  | 49.93 | 49.19 | 48.1  | 45.89 | 47.62 | 49.78 | 52.72 | 51.83 | 50.41 | 47.35 | 48.99 | 51.53 | 49.93 |
| 60  | 40.13 | 38.87 | 36.06 | 34.24 | 37.58 | 39.42 | 42.08 | 41.47 | 38.51 | 36.02 | 38.41 | 40.37 | 40.13 |
| 70  | 27.17 | 26.55 | 23.63 | 21.14 | 25.28 | 27.65 | 30.27 | 29.82 | 26.36 | 24.46 | 26.31 | 29.03 | 27.17 |
| 80  | 15.71 | 14.64 | 12.23 | 9.35  | 13.02 | 15.34 | 17.71 | 17.96 | 14.4  | 11.44 | 14.29 | 16.77 | 15.71 |
| 90  | 9.28  | 8.51  | 5.36  | 1.98  | 5.99  | 8.89  | 10.21 | 9.62  | 6.12  | 2.05  | 6.11  | 8.76  | 9.28  |
| 100 | 8.71  | 7.96  | 5.71  | 0.01  | 5.8   | 9.03  | 9.75  | 8.13  | 5.21  | 0.57  | 5.16  | 8.43  | 8.71  |
| 110 | 7.86  | 7.21  | 5.58  | 0.21  | 5.34  | 8.35  | 8.89  | 8.13  | 4.71  | 0.83  | 5.48  | 8.19  | 7.86  |
| 120 | 4.25  | 7.11  | 0.6   | 0.57  | 0.33  | 7.23  | 3.77  | 7.36  | -0.27 | 0.77  | -0.02 | 6.68  | 4.25  |
| 130 | 0.77  | 0.94  | 2.64  | 0.96  | 2.72  | 0.7   | 1.15  | 1.9   | 2.09  | 1.22  | 2.61  | 1.8   | 0.77  |

# Luminaire

|                 |     |              |       |          |                                |
|-----------------|-----|--------------|-------|----------|--------------------------------|
| Lamp            |     |              |       | Report   | 200604                         |
| No. of lamps    | 1   | Voltage (V)  | 24    | Filename | 200604 NMP4 35K-24V-CPL-BK.jdt |
| Lamp flux (lm)  | 266 | Current (A)  | 0.159 | Operator | CGR                            |
| Total flux (lm) | 266 | Power Factor | 1     | Date     | 2020-06-04 오후 3:52:37          |

## Luminous Flux Table

|                              |        |
|------------------------------|--------|
| Total Lamp Lumens:           | 266    |
| Luminaire Efficiency (lm/W): | 265.73 |
| CIE Classification:          | Direct |

| Elevation | Lumens | Cumulative | Lamp % | Luminaire % |
|-----------|--------|------------|--------|-------------|
| 0         | 1.81   | 1.81       | 0.68   | 0.68        |
| 10        | 14.25  | 16.06      | 6.05   | 6.05        |
| 20        | 26.86  | 42.93      | 16.16  | 16.16       |
| 30        | 36.28  | 79.21      | 29.81  | 29.81       |
| 40        | 41.58  | 120.79     | 45.46  | 45.46       |
| 50        | 41.48  | 162.27     | 61.07  | 61.07       |
| 60        | 36.61  | 198.88     | 74.85  | 74.84       |
| 70        | 27.25  | 226.13     | 85.11  | 85.10       |
| 80        | 15.54  | 241.66     | 90.95  | 90.94       |
| 90        | 7.56   | 249.23     | 93.80  | 93.79       |
| 100       | 6.69   | 255.92     | 96.32  | 96.31       |
| 110       | 6.07   | 261.99     | 98.60  | 98.59       |
| 120       | 3.03   | 265.02     | 99.75  | 99.73       |
| 130       | 0.71   | 265.73     | 100.01 | 100.00      |

Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Report

200604

Lamp flux (lm) 266

Current (A) 0.159

Filename 200604 NMP4 35K-24V-CPL-BK.jdt

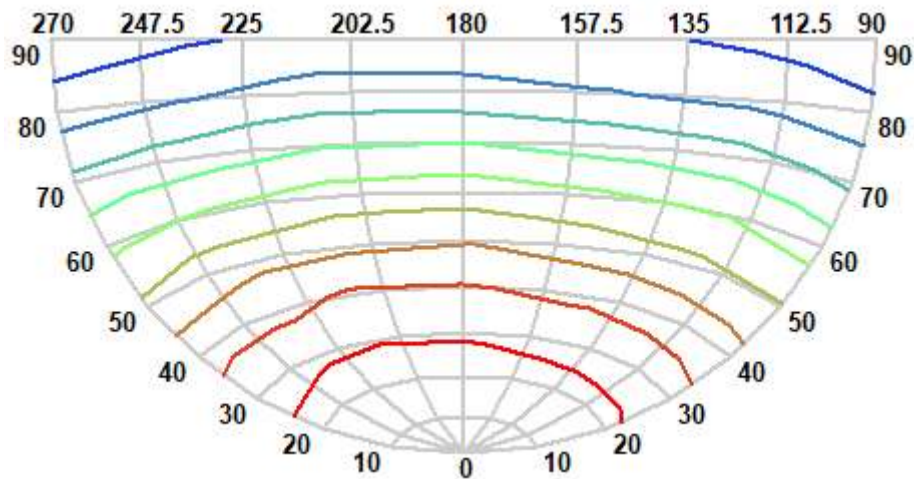
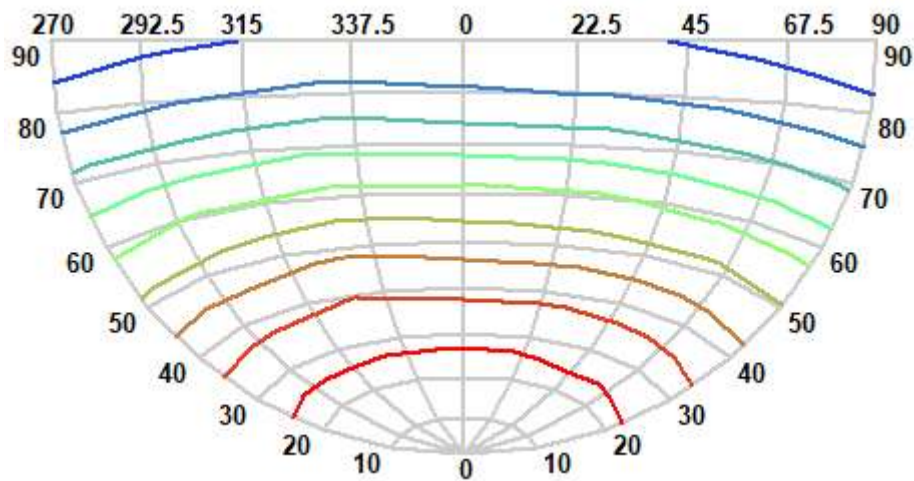
Total flux (lm) 266

Power Factor 1

Operator CGR

Date 2020-06-04 오후 3:52:37

## IsoCandela (Type C)



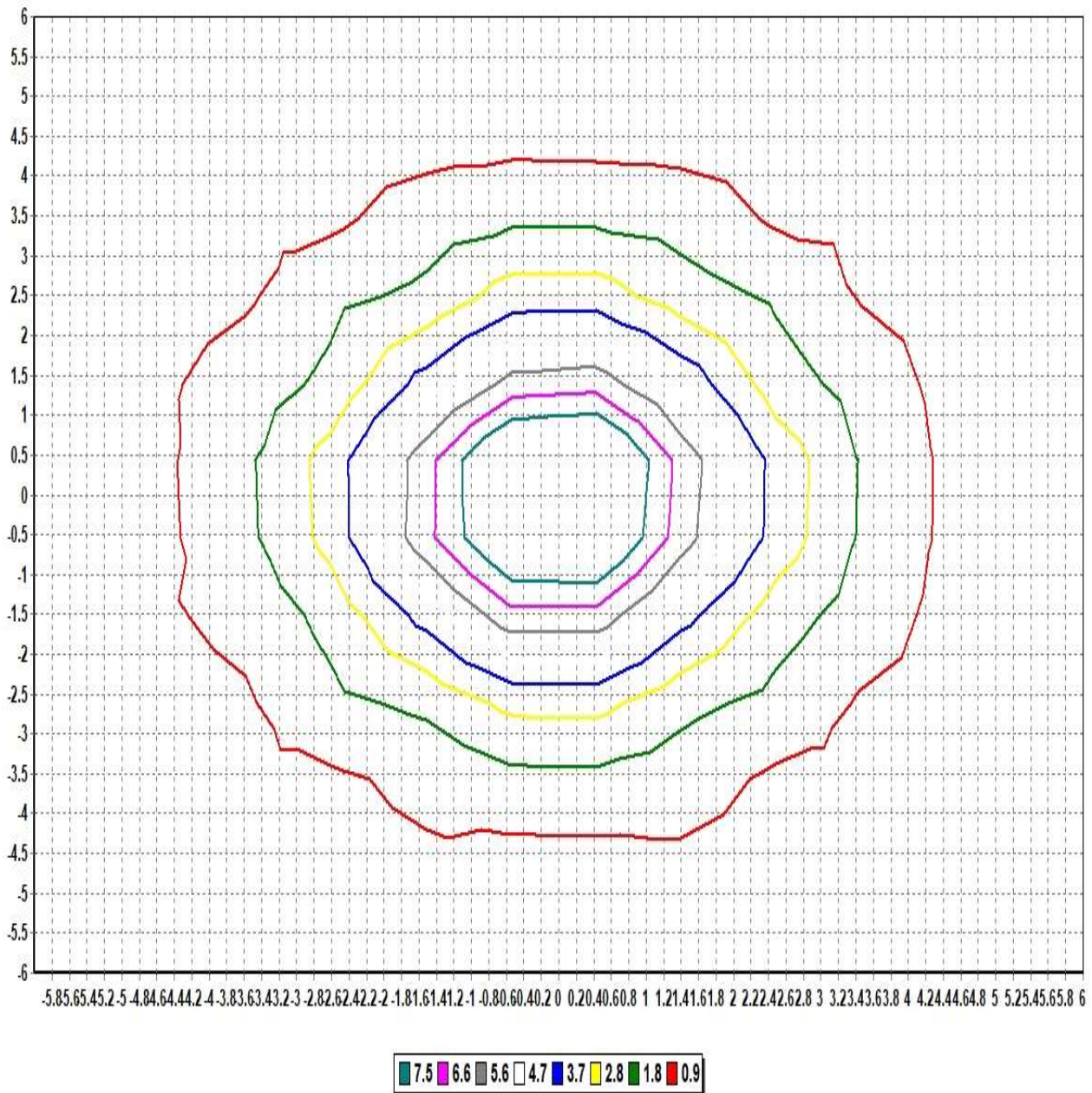


# Luminaire

## Lamp

|                 |     |              |       |          |                                |
|-----------------|-----|--------------|-------|----------|--------------------------------|
| No. of lamps    | 1   | Voltage (V)  | 24    | Report   | 200604                         |
| Lamp flux (lm)  | 266 | Current (A)  | 0.159 | Filename | 200604 NMP4 35K-24V-CPL-BK.jdt |
| Total flux (lm) | 266 | Power Factor | 1     | Operator | CGR                            |
|                 |     |              |       | Date     | 2020-06-04 오후 3:52:37          |

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider



Luminaire

Lamp

Report

200604

No. of lamps 1

Voltage (V) 24

Filename 200604 NMP4 35K-24V-CPL-BK.jdt

Lamp flux (lm) 266

Current (A) 0.159

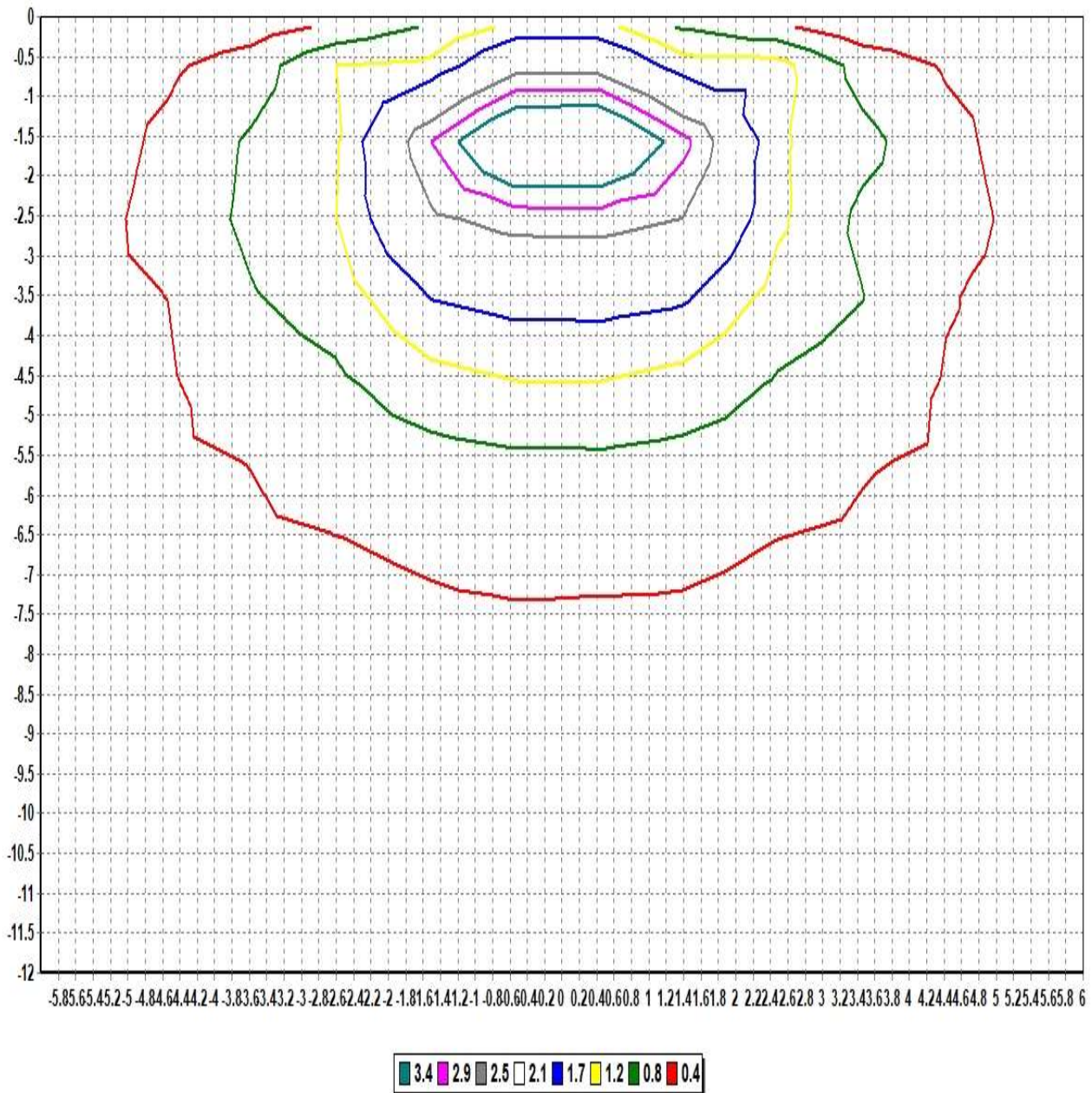
Operator CGR

Total flux (lm) 266

Power Factor 1

Date 2020-06-04 오후 3:52:37

## 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)  | 266 | Current (A)  | 0.159 |
| Total flux (lm) | 266 | Power Factor | 1     |

## Report

200604

Filename 200604 NMP4 35K-24V-CPL-BK.jdt

## Operator

CGR

## Date

2020-06-04 오후 3:52:37

## Illuminance Levels (Ground)

|       |       |       |       |       |       |      |       |      |      |      |      |      |      |
|-------|-------|-------|-------|-------|-------|------|-------|------|------|------|------|------|------|
| 6.00  | 0.13  | 0.16  | 0.13  | 0.19  | 0.23  | 0.25 | 0.25  | 0.25 | 0.24 | 0.20 | 0.15 | 0.17 | 0.14 |
| 5.00  | 0.18  | 0.15  | 0.21  | 0.28  | 0.54  | 0.63 | 0.65  | 0.62 | 0.56 | 0.30 | 0.23 | 0.17 | 0.18 |
| 4.00  | 0.17  | 0.24  | 0.46  | 0.65  | 0.73  | 0.88 | 0.94  | 0.88 | 0.75 | 0.68 | 0.49 | 0.25 | 0.16 |
| 3.00  | 0.20  | 0.34  | 0.70  | 0.82  | 1.57  | 1.78 | 1.97  | 1.85 | 1.62 | 0.89 | 0.71 | 0.34 | 0.21 |
| 2.00  | 0.25  | 0.55  | 0.74  | 1.66  | 2.28  | 3.64 | 4.18  | 3.70 | 2.40 | 1.66 | 0.76 | 0.57 | 0.25 |
| 1.00  | 0.31  | 0.69  | 1.00  | 1.84  | 3.66  | 6.29 | 8.48  | 6.47 | 3.71 | 1.88 | 0.98 | 0.68 | 0.30 |
| 0.00  | 0.33  | 0.75  | 1.11  | 2.24  | 4.53  | 8.60 | 10.47 | 8.49 | 4.41 | 2.13 | 1.06 | 0.71 | 0.31 |
| -1.00 | 0.30  | 0.68  | 0.99  | 1.98  | 3.91  | 6.59 | 8.32  | 6.39 | 3.70 | 1.89 | 0.98 | 0.68 | 0.30 |
| -2.00 | 0.28  | 0.60  | 0.81  | 1.74  | 2.52  | 3.89 | 4.30  | 3.67 | 2.34 | 1.70 | 0.75 | 0.57 | 0.26 |
| -3.00 | 0.23  | 0.37  | 0.75  | 0.94  | 1.66  | 1.94 | 2.03  | 1.83 | 1.61 | 0.85 | 0.72 | 0.35 | 0.21 |
| -4.00 | 0.18  | 0.27  | 0.52  | 0.72  | 0.80  | 0.92 | 0.97  | 0.93 | 0.74 | 0.68 | 0.47 | 0.25 | 0.17 |
| -5.00 | 0.20  | 0.19  | 0.25  | 0.33  | 0.59  | 0.65 | 0.67  | 0.66 | 0.55 | 0.31 | 0.23 | 0.16 | 0.18 |
| -6.00 | 0.15  | 0.18  | 0.16  | 0.23  | 0.27  | 0.27 | 0.28  | 0.28 | 0.24 | 0.20 | 0.15 | 0.17 | 0.13 |
| -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.) : 10.5

Illum. (Min.) : 0.13

Illum. (Avg.) : 1.30

All illuminance level values are in lux.



Luminaire

Lamp

Report

200604

No. of lamps 1

Voltage (V) 24

Filename 200604 NMP4 35K-24V-CPL-BK.jdt

Lamp flux (lm) 266

Current (A) 0.159

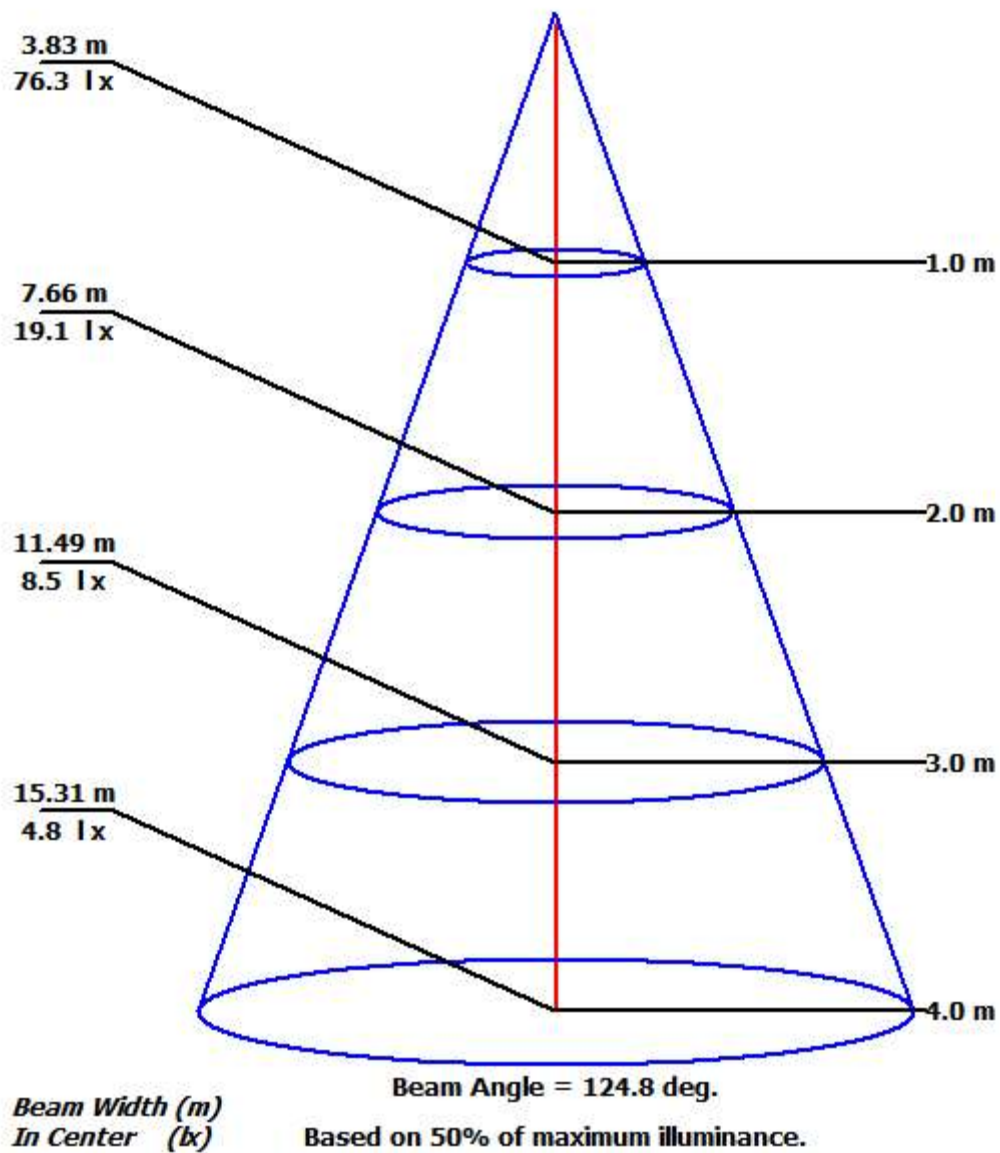
Operator CGR

Total flux (lm) 266

Power Factor 1

Date 2020-06-04 오후 3:52:37

## Illuminance Cone Diagram





## Luminaire

## Lamp

|                 |     |              |       |
|-----------------|-----|--------------|-------|
| No. of lamps    | 1   | Voltage (V)  | 24    |
| Lamp flux (lm)  | 266 | Current (A)  | 0.159 |
| Total flux (lm) | 266 | Power Factor | 1     |

|          |                                |
|----------|--------------------------------|
| Report   | 200604                         |
| Filename | 200604 NMP4 35K-24V-CPL-BK.jdt |
| Operator | CGR                            |
| Date     | 2020-06-04 오후 3:52:37          |

## 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 |

