

# 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 : 200623

## 2. Purpose of Report :

3. Number of Report : 200623

4. Test Standard / Item : / 200623 NMP3 35K-24V-BK

5. Test Period : 200623 ~ 200623

## 6. Test Environment

\* Ambient Temp. : 27.4 +- 3 °C  
\* Relative Humidity : 56.5 +- 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 |
|---------------|-------------|---------------|---------------|
| 200623        | FEELUX      | FEELUX        |               |

| Test Item                         | Unit | Result          | Notice |
|-----------------------------------|------|-----------------|--------|
| Beam Distribution Test            |      | See Attachement |        |
| ATHD                              | %    | 0.0             |        |
| CIE 1931 Cx, Cy                   |      | 0.4039 , 0.3838 |        |
| Correlated Color Temperature      | K    | 3490            |        |
| Ra                                |      | 93.5            |        |
| Power Factor                      |      | 1.000           |        |
| Input Voltage                     | V    | 23.980          |        |
| Input Current                     | A    | 0.106           |        |
| Input Watt                        | W    | 2.53            |        |
| Lamp Flux                         | lm   | 168.2           |        |
| Efficient                         | lm/W | 66.17           |        |
| luminous Intensity (Max , Center) | cd   | 48 , 48         |        |
| Illuminance                       | lx   | 48              | 1 m    |
|                                   |      | 12              | 2 m    |
|                                   |      | 5               | 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

Lamp flux (lm) 168

Total flux (lm) 168

Voltage (V) 23.98

Current (A) 0.106

Power Factor 1

Report

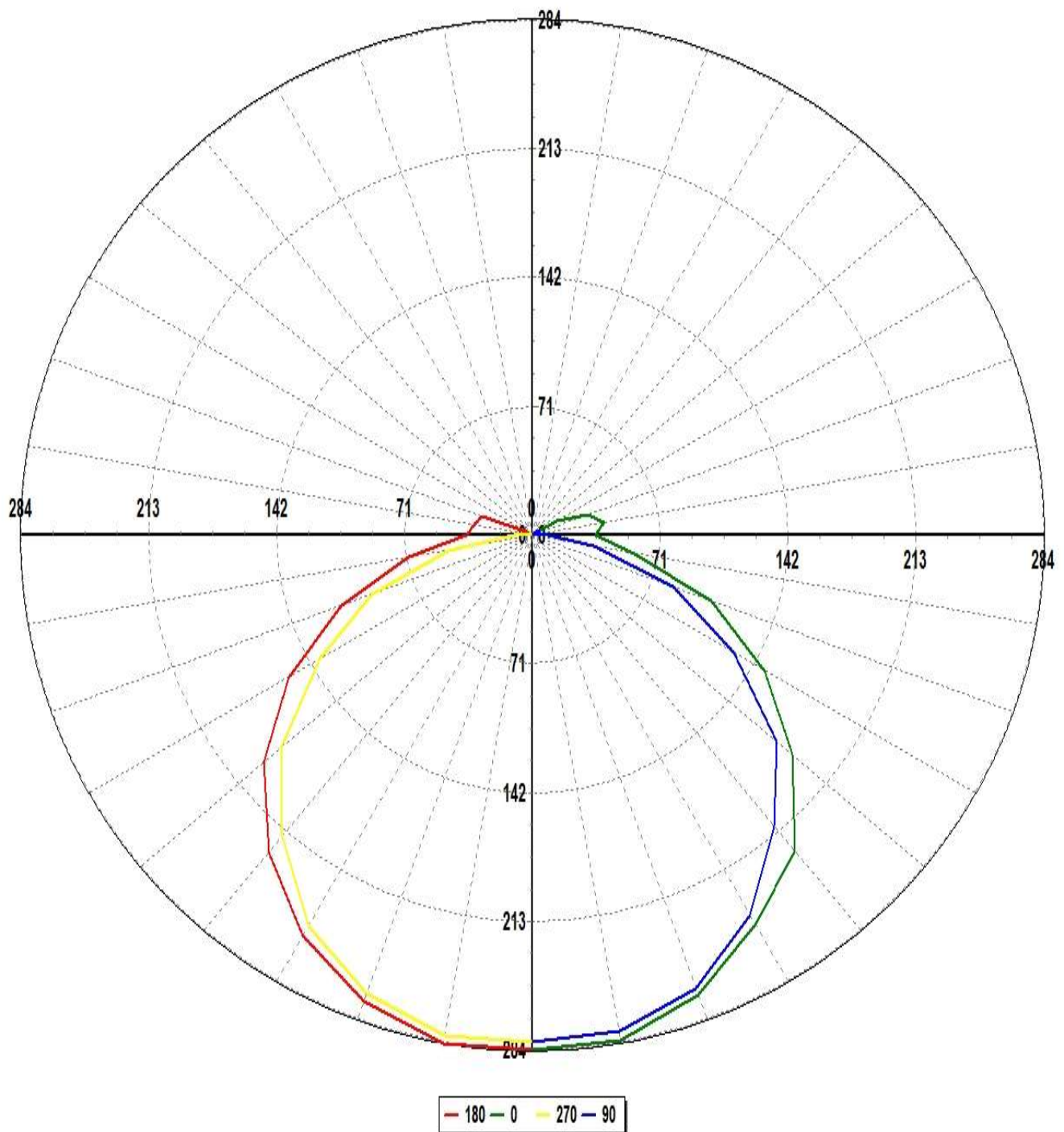
200623

Filename 200623 NMP3 35K-24V-BK.jdt

Operator CGR

Date 2020-06-23 오후 5:12:00

## Luminous Intensity Distribution



Luminaire

Lamp

No. of lamps 1

Voltage (V) 23.98

Report

200623

Lamp flux (lm) 168

Current (A) 0.106

Filename 200623 NMP3 35K-24V-BK.jdt

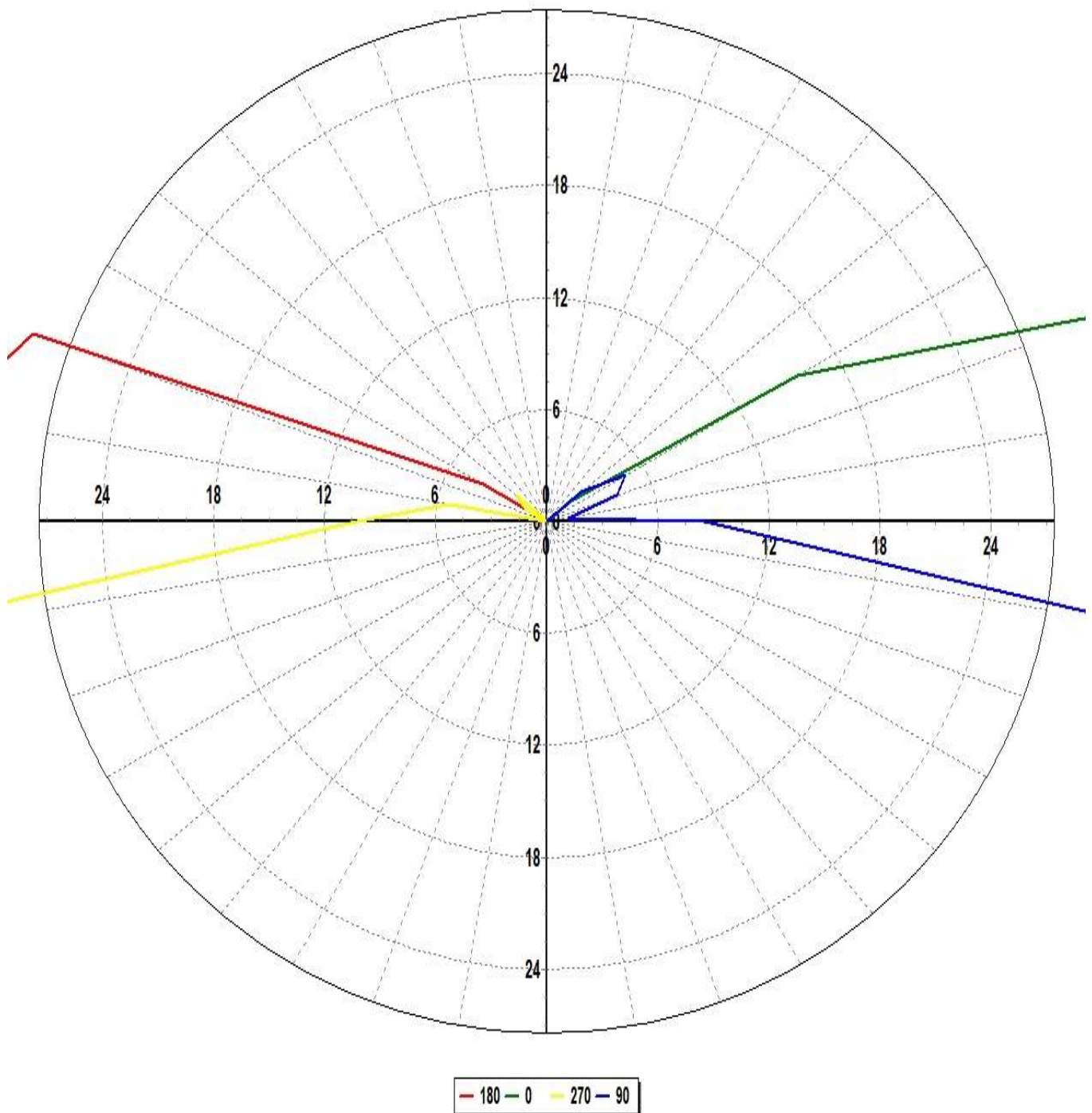
Total flux (lm) 168

Power Factor 1

Operator CGR

Date 2020-06-23 오후 5:12:00

## Luminous Intensity Distribution (Lowest 10%)



# Luminaire

## Lamp

|                 |     |              |       |          |                            |
|-----------------|-----|--------------|-------|----------|----------------------------|
| No. of lamps    | 1   | Voltage (V)  | 23.98 | Report   | 200623                     |
| Lamp flux (lm)  | 168 | Current (A)  | 0.106 | Filename | 200623 NMP3 35K-24V-BK.jdt |
| Total flux (lm) | 168 | Power Factor | 1     | Operator | CGR                        |
|                 |     |              |       | Date     | 2020-06-23 오후 5:12:00      |

## Luminous Intensity Data

Maximum (cd) : 48

Minimum (cd) : 0

| G/C | 0     | 30    | 60    | 90    | 120   | 150   | 180   | 210   | 240   | 270   | 300   | 330   | 360   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0   | 47.69 | 48.45 | 47.92 | 46.86 | 47.53 | 47.15 | 47.69 | 48.45 | 47.92 | 46.86 | 47.53 | 47.15 | 47.69 |
| 10  | 47.54 | 48.03 | 46.83 | 46.65 | 47.34 | 46.72 | 47.8  | 47.26 | 47.21 | 47.03 | 47.05 | 46.4  | 47.54 |
| 20  | 45.27 | 45.66 | 44.53 | 44.64 | 44.58 | 45.38 | 45.9  | 45.67 | 45.71 | 45.15 | 45.41 | 45.33 | 45.27 |
| 30  | 41.62 | 42    | 40.94 | 40.62 | 41.29 | 41.82 | 42.85 | 42.36 | 42.04 | 41.83 | 41.83 | 41.65 | 41.62 |
| 40  | 38.16 | 36.94 | 35.97 | 35.16 | 36.24 | 37.13 | 38.31 | 38.97 | 37.26 | 36.39 | 36.97 | 38.05 | 38.16 |
| 50  | 31.64 | 31.37 | 29.61 | 29.77 | 30.67 | 30.94 | 32.7  | 32.74 | 31.76 | 30.65 | 30.87 | 32.02 | 31.64 |
| 60  | 25.08 | 24.04 | 23.02 | 21.69 | 23.52 | 24.58 | 26.23 | 25.98 | 24.96 | 22.92 | 24.05 | 26.24 | 25.08 |
| 70  | 17.72 | 16.49 | 15.7  | 13.97 | 15.82 | 16.52 | 18.94 | 19.43 | 17.27 | 15.99 | 17.26 | 18.07 | 17.72 |
| 80  | 9.69  | 10.39 | 8.22  | 5.81  | 7.11  | 8.8   | 11.73 | 10.62 | 9.27  | 7.93  | 9.6   | 11.47 | 9.69  |
| 90  | 5.89  | 5.36  | 3.82  | 1.43  | 3.65  | 5.29  | 6.14  | 5.85  | 4.26  | 1.71  | 4.76  | 5.98  | 5.89  |
| 100 | 6.83  | 5.56  | 3.53  | 0.2   | 3.39  | 4.48  | 5.52  | 5.32  | 4.01  | 0.9   | 3.3   | 5.99  | 6.83  |
| 110 | 5.49  | 5.72  | 2.86  | 0.68  | 2.86  | 5.51  | 4.96  | 5.15  | 3.22  | -0.27 | 3.99  | 5.01  | 5.49  |
| 120 | 2.62  | 4.67  | -0.15 | 0.83  | 0.86  | 4.7   | 0.66  | 4.55  | 0.15  | 0.23  | 0.54  | 4.91  | 2.62  |
| 130 | 0.28  | -0.08 | 1.98  | 0.4   | 1.34  | 0.19  | -0.26 | 0.3   | 1.81  | 0.36  | 1.7   | 0.95  | 0.28  |

## Luminaire

## Lamp

|                 |     |              |       |          |                            |
|-----------------|-----|--------------|-------|----------|----------------------------|
| No. of lamps    | 1   | Voltage (V)  | 23.98 | Report   | 200623                     |
| Lamp flux (lm)  | 168 | Current (A)  | 0.106 | Filename | 200623 NMP3 35K-24V-BK.jdt |
| Total flux (lm) | 168 | Power Factor | 1     | Operator | CGR                        |
|                 |     |              |       | Date     | 2020-06-23 오후 5:12:00      |

## Luminous Flux Table

|                              |        |
|------------------------------|--------|
| Total Lamp Lumens:           | 168    |
| Luminaire Efficiency (lm/W): | 168.23 |
| CIE Classification:          | Direct |

| Elevation | Lumens | Cumulative | Lamp % | Luminaire % |
|-----------|--------|------------|--------|-------------|
| 0         | 1.14   | 1.14       | 0.68   | 0.68        |
| 10        | 8.97   | 10.11      | 6.01   | 6.01        |
| 20        | 16.96  | 27.06      | 16.09  | 16.09       |
| 30        | 22.86  | 49.92      | 29.68  | 29.67       |
| 40        | 26.14  | 76.06      | 45.22  | 45.21       |
| 50        | 26.20  | 102.26     | 60.80  | 60.79       |
| 60        | 23.10  | 125.36     | 74.53  | 74.52       |
| 70        | 17.43  | 142.79     | 84.89  | 84.88       |
| 80        | 9.94   | 152.73     | 90.80  | 90.79       |
| 90        | 4.94   | 157.68     | 93.74  | 93.73       |
| 100       | 4.41   | 162.08     | 96.36  | 96.35       |
| 110       | 3.87   | 165.96     | 98.67  | 98.65       |
| 120       | 1.94   | 167.90     | 99.82  | 99.81       |
| 130       | 0.33   | 168.23     | 100.01 | 100.00      |

Luminaire

Lamp

No. of lamps 1

Voltage (V) 23.98

Report

200623

Lamp flux (lm) 168

Current (A) 0.106

Filename 200623 NMP3 35K-24V-BK.jdt

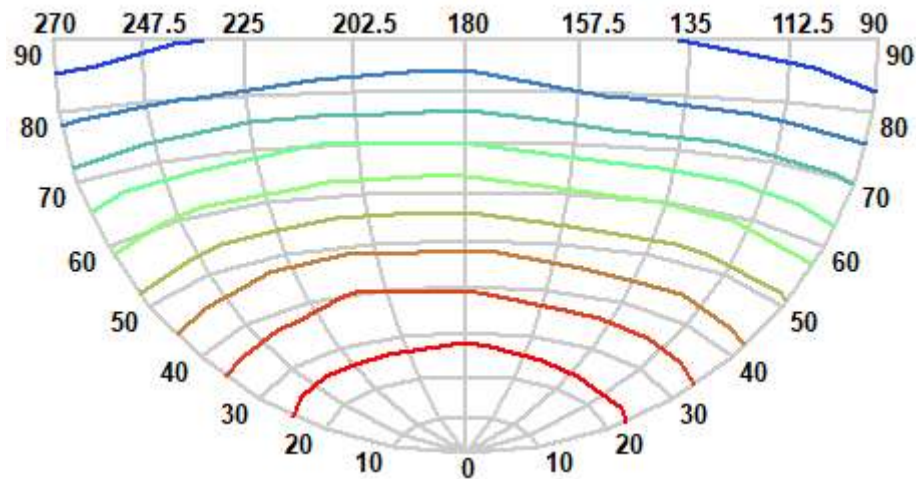
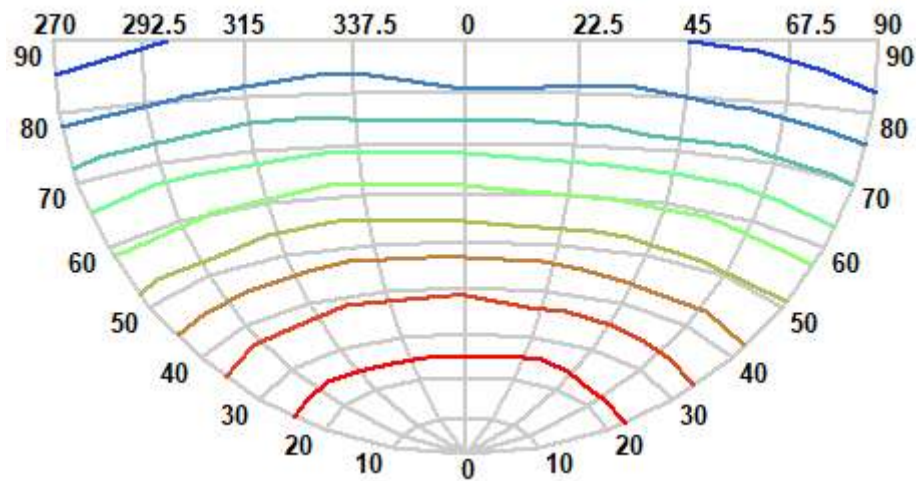
Total flux (lm) 168

Power Factor 1

Operator CGR

Date 2020-06-23 오후 5:12:00

## IsoCandela (Type C)





Luminaire

Lamp

No. of lamps 1

Voltage (V) 23.98

Report

200623

Lamp flux (lm) 168

Current (A) 0.106

Filename 200623 NMP3 35K-24V-BK.jdt

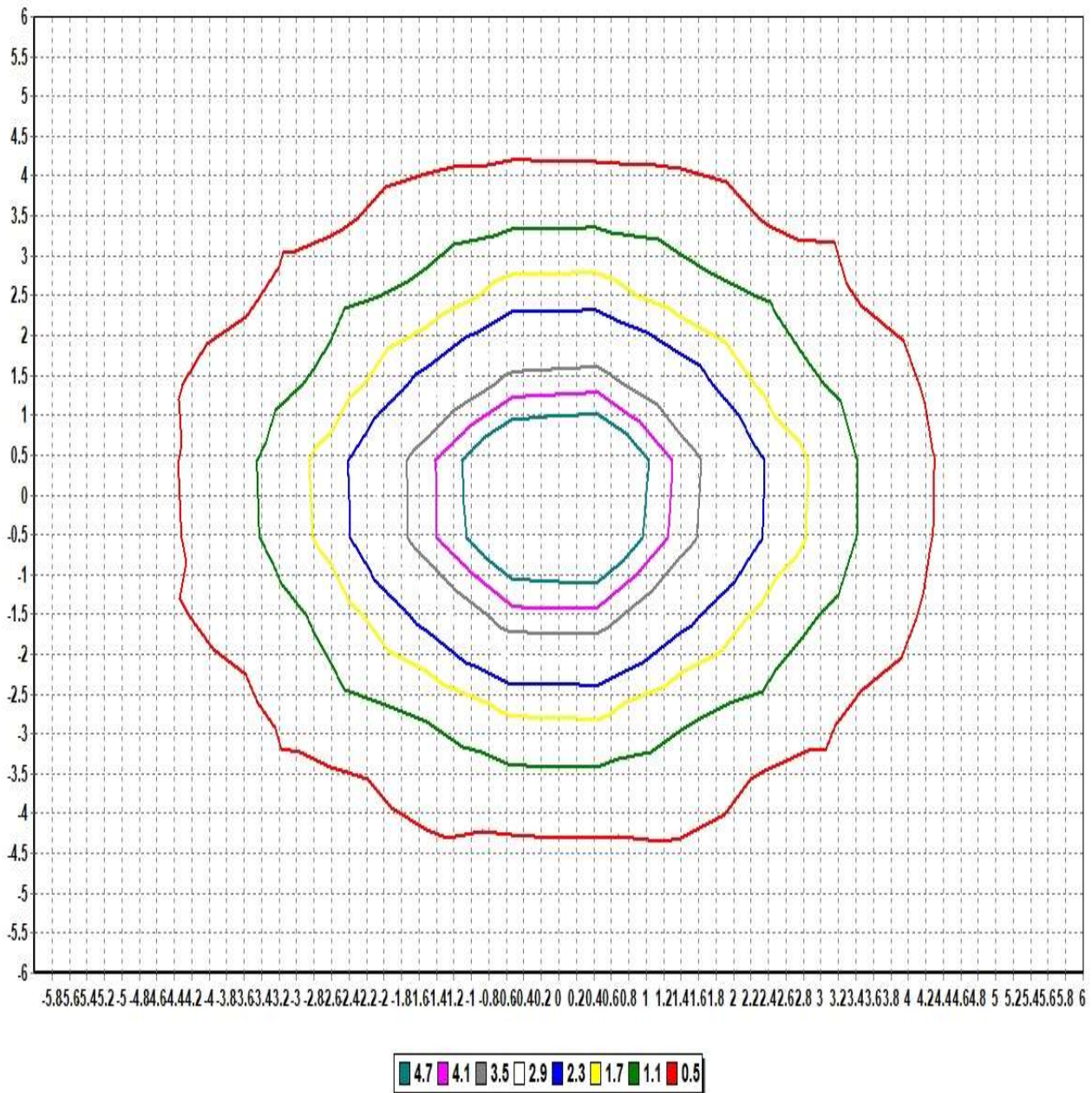
Total flux (lm) 168

Power Factor 1

Operator CGR

Date 2020-06-23 오후 5:12:00

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider



Luminaire

Lamp

No. of lamps 1

Voltage (V) 23.98

Report

200623

Lamp flux (lm) 168

Current (A) 0.106

Filename 200623 NMP3 35K-24V-BK.jdt

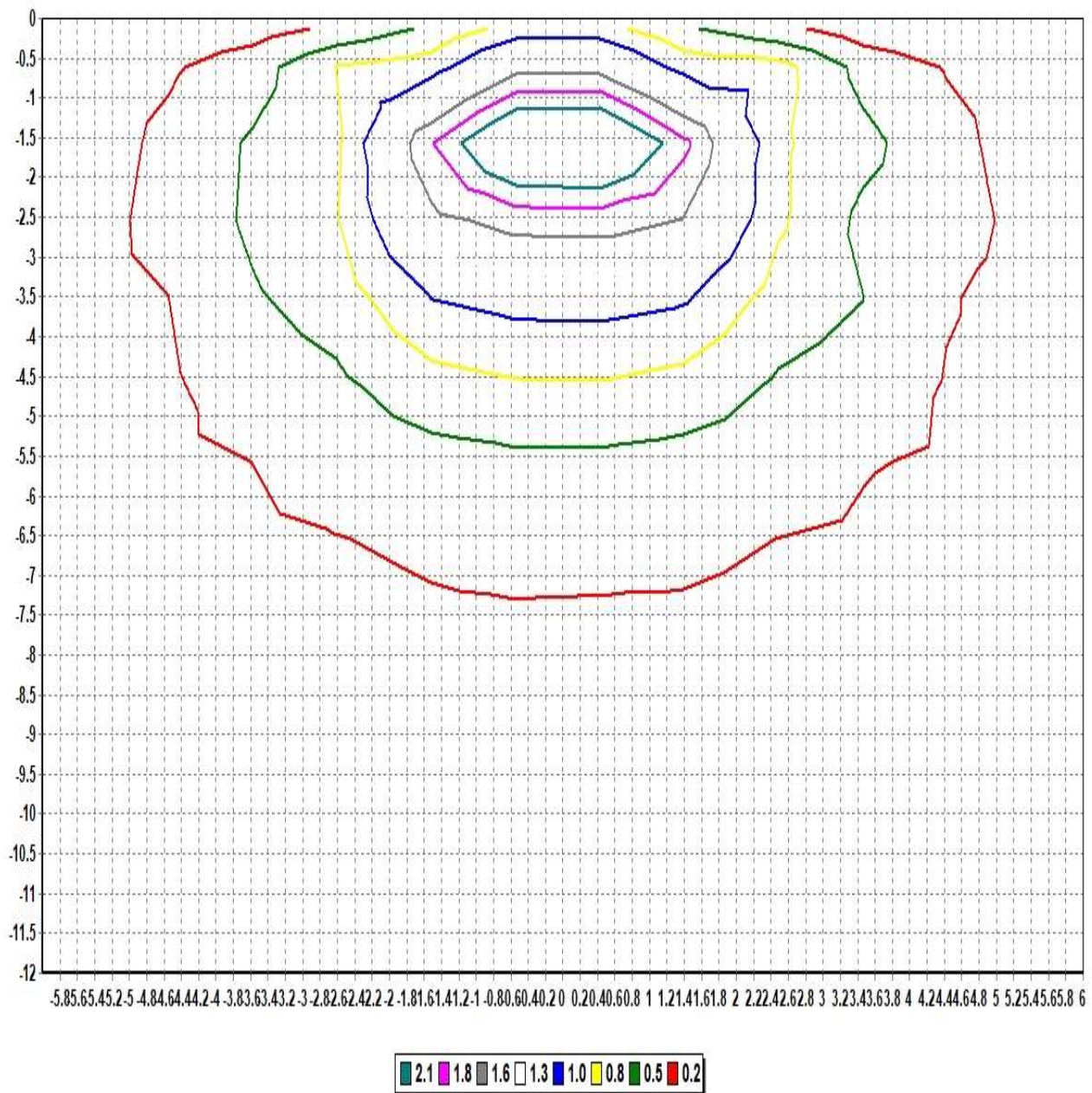
Total flux (lm) 168

Power Factor 1

Operator CGR

Date 2020-06-23 오후 5:12:00

## 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)  | 23.98 |
| Lamp flux (lm)  | 168 | Current (A)  | 0.106 |
| Total flux (lm) | 168 | Power Factor | 1     |

Report 200623

Filename 200623 NMP3 35K-24V-BK.jdt

Operator CGR

Date 2020-06-23 오후 5:12:00

## Illuminance Levels (Ground)

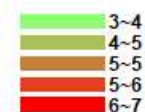
|       |       |       |       |       |       |      |      |      |      |      |      |      |      |
|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 6.00  | 0.08  | 0.10  | 0.09  | 0.12  | 0.15  | 0.17 | 0.16 | 0.16 | 0.15 | 0.13 | 0.10 | 0.11 | 0.09 |
| 5.00  | 0.11  | 0.10  | 0.13  | 0.18  | 0.34  | 0.40 | 0.42 | 0.40 | 0.35 | 0.20 | 0.15 | 0.11 | 0.12 |
| 4.00  | 0.10  | 0.15  | 0.29  | 0.42  | 0.46  | 0.56 | 0.60 | 0.56 | 0.47 | 0.43 | 0.31 | 0.16 | 0.11 |
| 3.00  | 0.12  | 0.21  | 0.44  | 0.52  | 0.99  | 1.15 | 1.27 | 1.16 | 1.01 | 0.56 | 0.45 | 0.22 | 0.13 |
| 2.00  | 0.15  | 0.35  | 0.46  | 1.04  | 1.46  | 2.27 | 2.64 | 2.32 | 1.52 | 1.06 | 0.47 | 0.36 | 0.16 |
| 1.00  | 0.19  | 0.43  | 0.62  | 1.17  | 2.29  | 3.99 | 5.27 | 4.07 | 2.33 | 1.19 | 0.62 | 0.43 | 0.19 |
| 0.00  | 0.21  | 0.47  | 0.69  | 1.39  | 2.84  | 5.40 | 6.54 | 5.37 | 2.80 | 1.35 | 0.67 | 0.45 | 0.20 |
| -1.00 | 0.19  | 0.43  | 0.62  | 1.24  | 2.45  | 4.13 | 5.31 | 4.07 | 2.34 | 1.19 | 0.62 | 0.43 | 0.19 |
| -2.00 | 0.18  | 0.38  | 0.51  | 1.08  | 1.58  | 2.44 | 2.72 | 2.32 | 1.49 | 1.06 | 0.47 | 0.36 | 0.16 |
| -3.00 | 0.15  | 0.23  | 0.47  | 0.59  | 1.05  | 1.23 | 1.31 | 1.17 | 1.02 | 0.54 | 0.45 | 0.22 | 0.13 |
| -4.00 | 0.11  | 0.17  | 0.33  | 0.45  | 0.50  | 0.59 | 0.63 | 0.59 | 0.47 | 0.43 | 0.30 | 0.16 | 0.11 |
| -5.00 | 0.12  | 0.12  | 0.16  | 0.21  | 0.37  | 0.41 | 0.43 | 0.42 | 0.35 | 0.20 | 0.15 | 0.11 | 0.12 |
| -6.00 | 0.09  | 0.12  | 0.11  | 0.15  | 0.17  | 0.18 | 0.18 | 0.18 | 0.16 | 0.13 | 0.10 | 0.11 | 0.08 |
| -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.) : 6.54

Illum. (Min.) : 0.08

Illum. (Avg.) : 0.82

All illuminance level values are in lux.



Luminaire

Lamp

No. of lamps 1

Voltage (V) 23.98

Report

200623

Lamp flux (lm) 168

Current (A) 0.106

Filename 200623 NMP3 35K-24V-BK.jdt

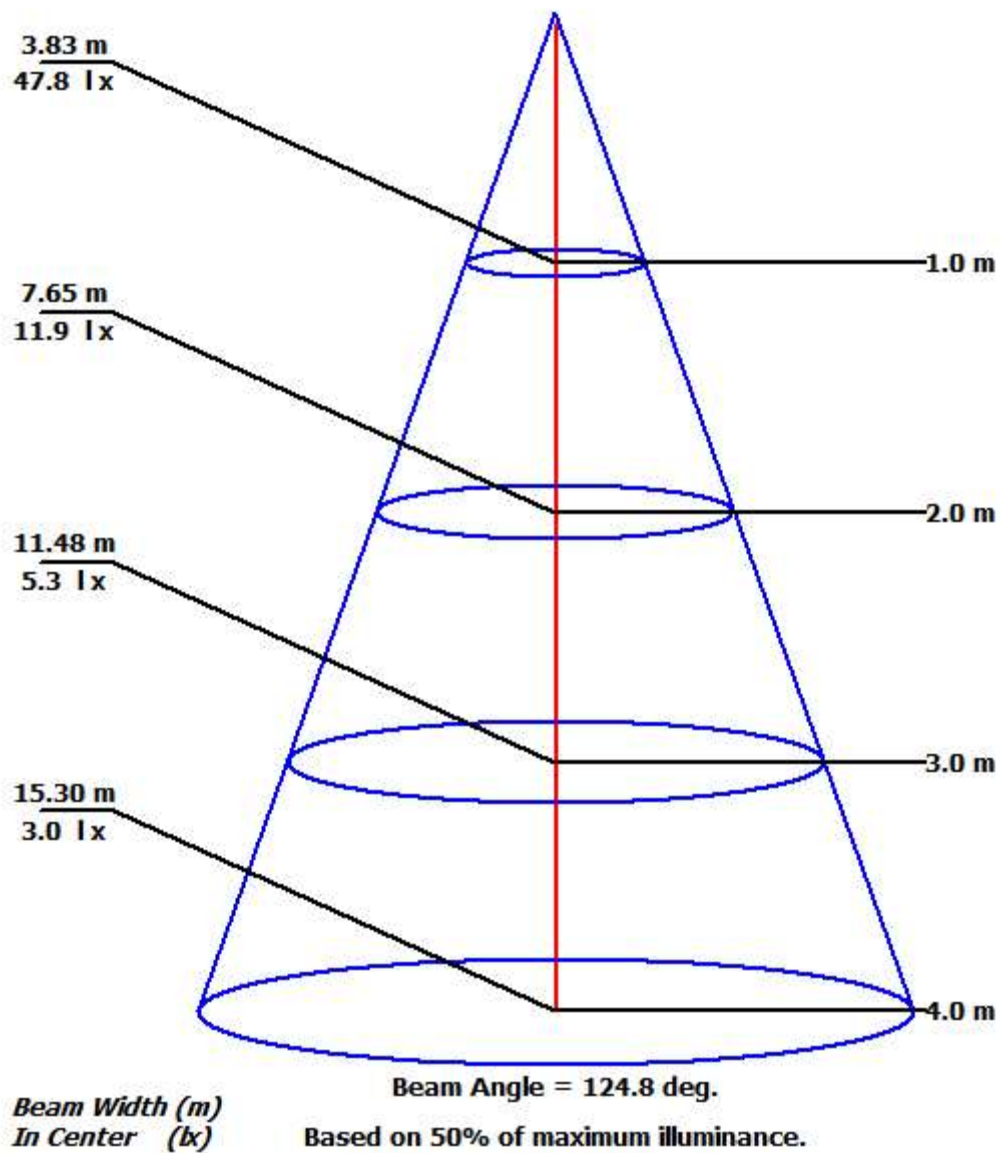
Total flux (lm) 168

Power Factor 1

Operator CGR

Date 2020-06-23 오후 5:12:00

## Illuminance Cone Diagram





## Luminaire

## Lamp

|                 |     |              |       |
|-----------------|-----|--------------|-------|
| No. of lamps    | 1   | Voltage (V)  | 23.98 |
| Lamp flux (lm)  | 168 | Current (A)  | 0.106 |
| Total flux (lm) | 168 | Power Factor | 1     |

Report 200623

Filename 200623 NMP3 35K-24V-BK.jdt

Operator CGR

Date 2020-06-23 오후 5:12:00

## 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 |

