

# 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 30K-24V-CPL-BK

5. Test Period : 200604 ~ 200604

## 6. Test Environment

\* Ambient Temp. : 24.4 +- 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                   |      | 0.4338 , 0.3989 |        |
| Correlated Color Temperature      | K    | 3027            |        |
| Ra                                |      | 93.58           |        |
| Power Factor                      |      | 1.000           |        |
| Input Voltage                     | V    | 24.000          |        |
| Input Current                     | A    | 0.159           |        |
| Input Watt                        | W    | 3.82            |        |
| Lamp Flux                         | lm   | 241             |        |
| Efficient                         | lm/W | 63.16           |        |
| luminous Intensity (Max , Center) | cd   | 70 , 70         |        |
| Illuminance                       | lx   | 70              | 1 m    |
|                                   |      | 17              | 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) 241

Current (A) 0.159

Filename 200604 NMP4 30K-24V-CPL-BK.jdt

Total flux (lm) 241

Power Factor 1

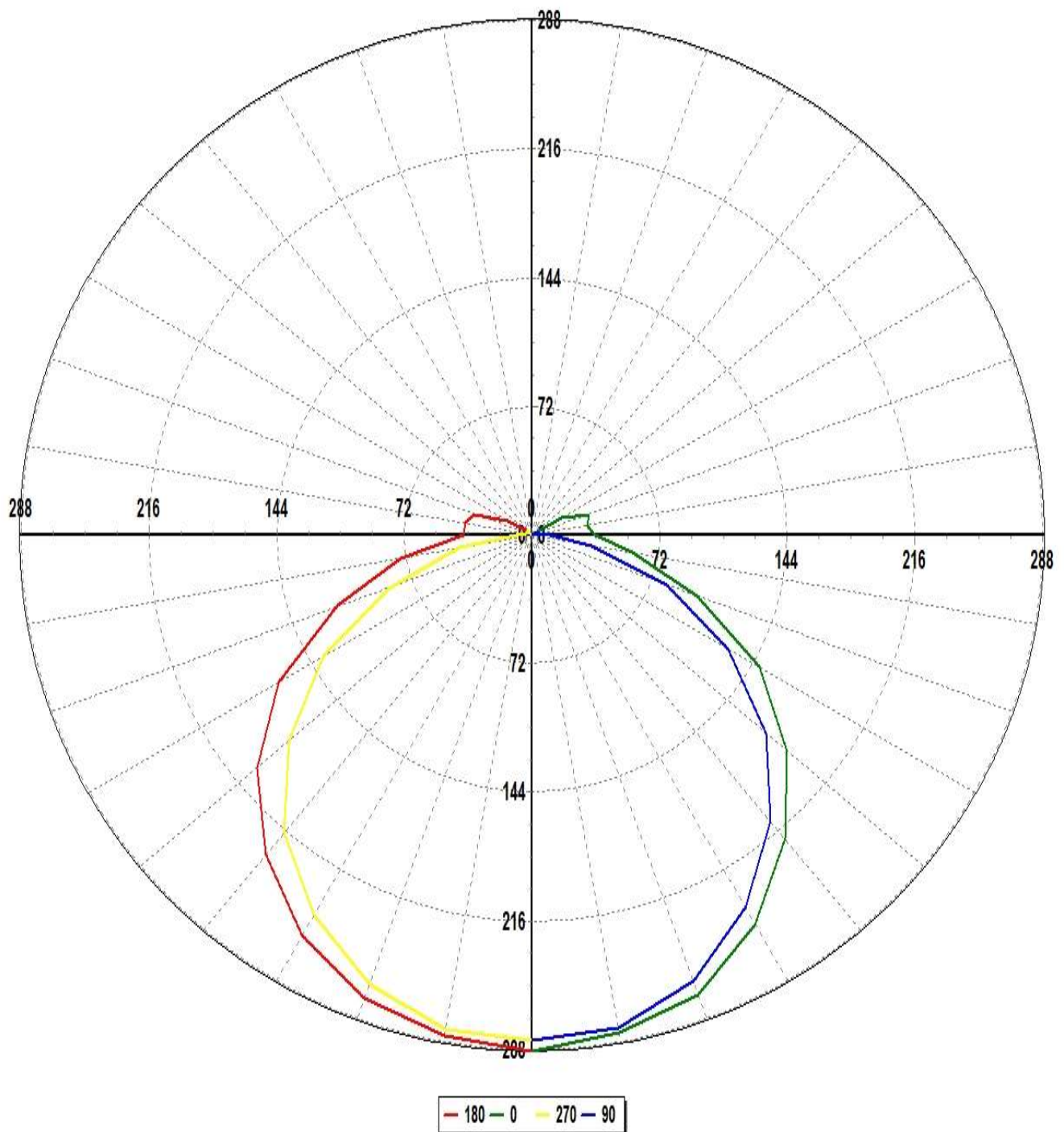
Operator

CGR

Date

2020-06-04 오후 3:33:47

## Luminous Intensity Distribution



Luminaire

Lamp

No. of lamps 1

Lamp flux (lm) 241

Total flux (lm) 241

Voltage (V) 24

Current (A) 0.159

Power Factor 1

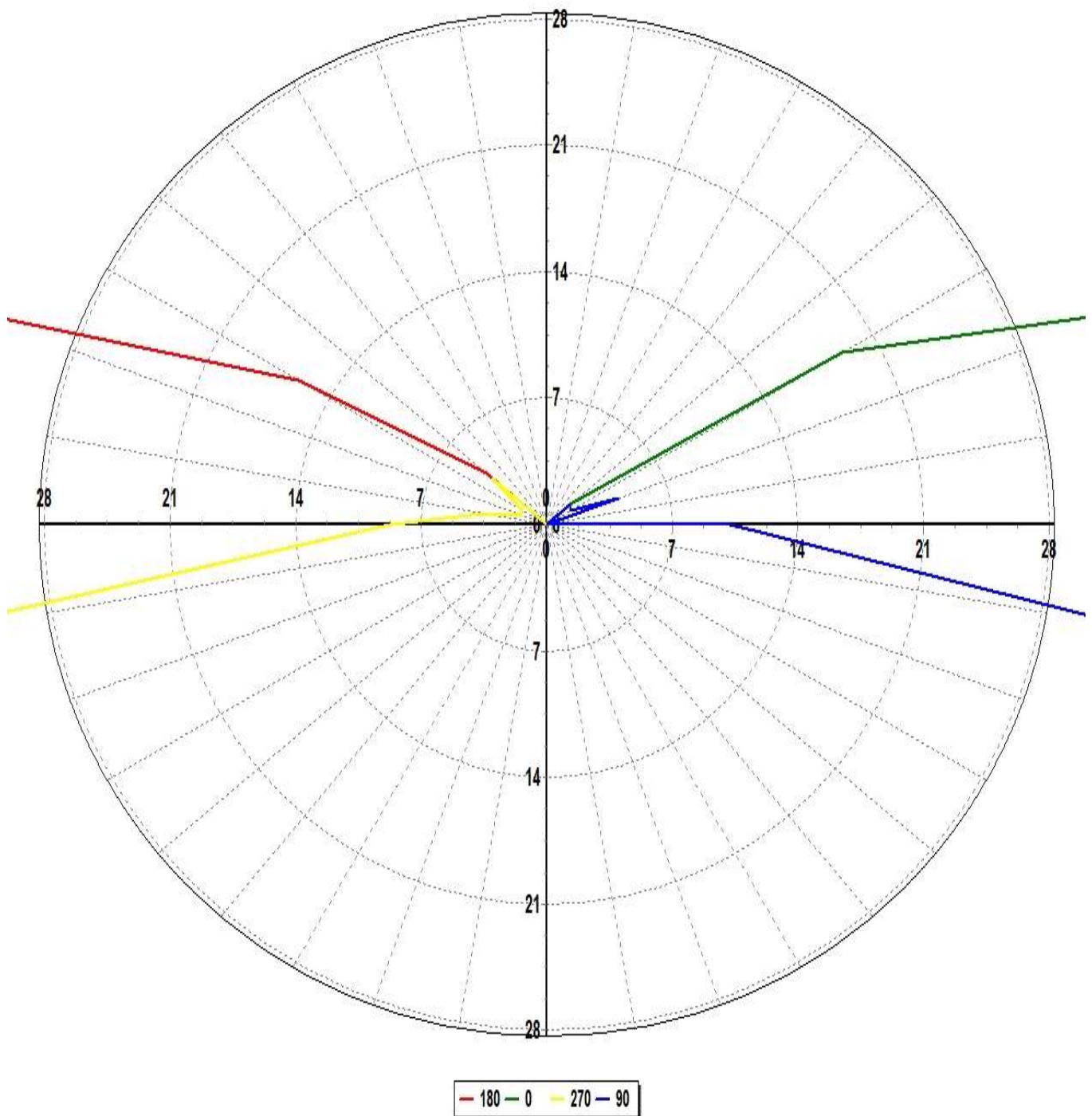
Report

Filename 200604 NMP4 30K-24V-CPL-BK.jdt

Operator CGR

Date 2020-06-04 오후 3:33:47

## Luminous Intensity Distribution (Lowest 10%)



# Luminaire

|                 |     |              |       |          |                                |
|-----------------|-----|--------------|-------|----------|--------------------------------|
| Lamp            |     |              |       | Report   | 200604                         |
| No. of lamps    | 1   | Voltage (V)  | 24    | Filename | 200604 NMP4 30K-24V-CPL-BK.jdt |
| Lamp flux (lm)  | 241 | Current (A)  | 0.159 | Operator | CGR                            |
| Total flux (lm) | 241 | Power Factor | 1     | Date     | 2020-06-04 오후 3:33:47          |

## Luminous Intensity Data

Maximum (cd) : 70

Minimum (cd) : 0

| G/C | 0     | 30    | 60    | 90    | 120   | 150   | 180   | 210   | 240   | 270   | 300   | 330   | 360   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0   | 69.69 | 69.16 | 68.71 | 68.23 | 68.86 | 68.39 | 69.69 | 69.16 | 68.71 | 68.23 | 68.86 | 68.39 | 69.69 |
| 10  | 68.28 | 67.88 | 67.58 | 67.63 | 67.45 | 67.53 | 68.61 | 68.27 | 67.66 | 67.75 | 67.53 | 66.75 | 68.28 |
| 20  | 66.04 | 64.76 | 64.7  | 64.09 | 64.39 | 65.23 | 66.63 | 66.29 | 65.07 | 64.43 | 63.98 | 64.59 | 66.04 |
| 30  | 60.62 | 59.58 | 59.13 | 58    | 59.29 | 59.72 | 62.47 | 61.52 | 60.89 | 59.15 | 59.73 | 60.15 | 60.62 |
| 40  | 53.53 | 53.2  | 51.61 | 50.54 | 52.61 | 53.83 | 56.34 | 55.53 | 53.38 | 52.42 | 52.73 | 53.39 | 53.53 |
| 50  | 45.28 | 43.96 | 42.77 | 41.63 | 43.12 | 45.95 | 48.82 | 48.17 | 45.88 | 43.11 | 44.48 | 46.05 | 45.28 |
| 60  | 35.65 | 34.65 | 32.61 | 30.76 | 34.1  | 36.88 | 39.74 | 38.16 | 35.51 | 32.64 | 34.26 | 35.3  | 35.65 |
| 70  | 23.93 | 23.62 | 22.06 | 19.45 | 22.78 | 25.18 | 28.09 | 28.27 | 24.31 | 20.68 | 23.16 | 24.78 | 23.93 |
| 80  | 13.84 | 12.33 | 10.35 | 8.26  | 12.21 | 14.59 | 18.12 | 16.5  | 13.49 | 9.97  | 11.94 | 14.62 | 13.84 |
| 90  | 8.58  | 8.69  | 5.04  | 2.47  | 5.19  | 8.65  | 9.23  | 8.6   | 5.41  | 2.09  | 5.19  | 7.91  | 8.58  |
| 100 | 7.6   | 6.87  | 5.4   | -0.16 | 5.32  | 8.09  | 9.2   | 7.66  | 4.85  | 0.85  | 4.71  | 7.56  | 7.6   |
| 110 | 8.25  | 6.36  | 4.04  | 1.03  | 4.94  | 7.66  | 8.33  | 7.75  | 4.57  | 0.35  | 4.62  | 7.09  | 8.25  |
| 120 | 4.58  | 6.21  | 0.68  | 0.37  | 0.56  | 6.1   | 3.85  | 6.53  | 0.99  | 0.39  | 0.2   | 5.7   | 4.58  |
| 130 | 0.41  | 1.22  | 2.08  | 0.4   | 2.63  | 0.75  | 1.05  | 2.17  | 2.75  | 0.97  | 2.14  | 1.61  | 0.41  |



## Luminaire

## Lamp

|                 |     |              |       |          |                                |
|-----------------|-----|--------------|-------|----------|--------------------------------|
| No. of lamps    | 1   | Voltage (V)  | 24    | Report   | 200604                         |
| Lamp flux (lm)  | 241 | Current (A)  | 0.159 | Filename | 200604 NMP4 30K-24V-CPL-BK.jdt |
| Total flux (lm) | 241 | Power Factor | 1     | Operator | CGR                            |
|                 |     |              |       | Date     | 2020-06-04 오후 3:33:47          |

## Luminous Flux Table

|                              |        |
|------------------------------|--------|
| Total Lamp Lumens:           | 241    |
| Luminaire Efficiency (lm/W): | 240.99 |
| CIE Classification:          | Direct |

| Elevation | Lumens | Cumulative | Lamp % | Luminaire % |
|-----------|--------|------------|--------|-------------|
| 0         | 1.65   | 1.65       | 0.68   | 0.68        |
| 10        | 12.88  | 14.53      | 6.03   | 6.03        |
| 20        | 24.35  | 38.88      | 16.13  | 16.13       |
| 30        | 32.87  | 71.75      | 29.77  | 29.77       |
| 40        | 37.49  | 109.25     | 45.33  | 45.33       |
| 50        | 37.70  | 146.95     | 60.97  | 60.98       |
| 60        | 33.22  | 180.16     | 74.76  | 74.76       |
| 70        | 24.56  | 204.72     | 84.95  | 84.95       |
| 80        | 14.04  | 218.76     | 90.77  | 90.77       |
| 90        | 7.03   | 225.79     | 93.69  | 93.69       |
| 100       | 6.11   | 231.90     | 96.22  | 96.23       |
| 110       | 5.57   | 237.47     | 98.54  | 98.54       |
| 120       | 2.86   | 240.33     | 99.72  | 99.73       |
| 130       | 0.66   | 240.99     | 100.00 | 100.00      |



Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Report

200604

Lamp flux (lm) 241

Current (A) 0.159

Filename 200604 NMP4 30K-24V-CPL-BK.jdt

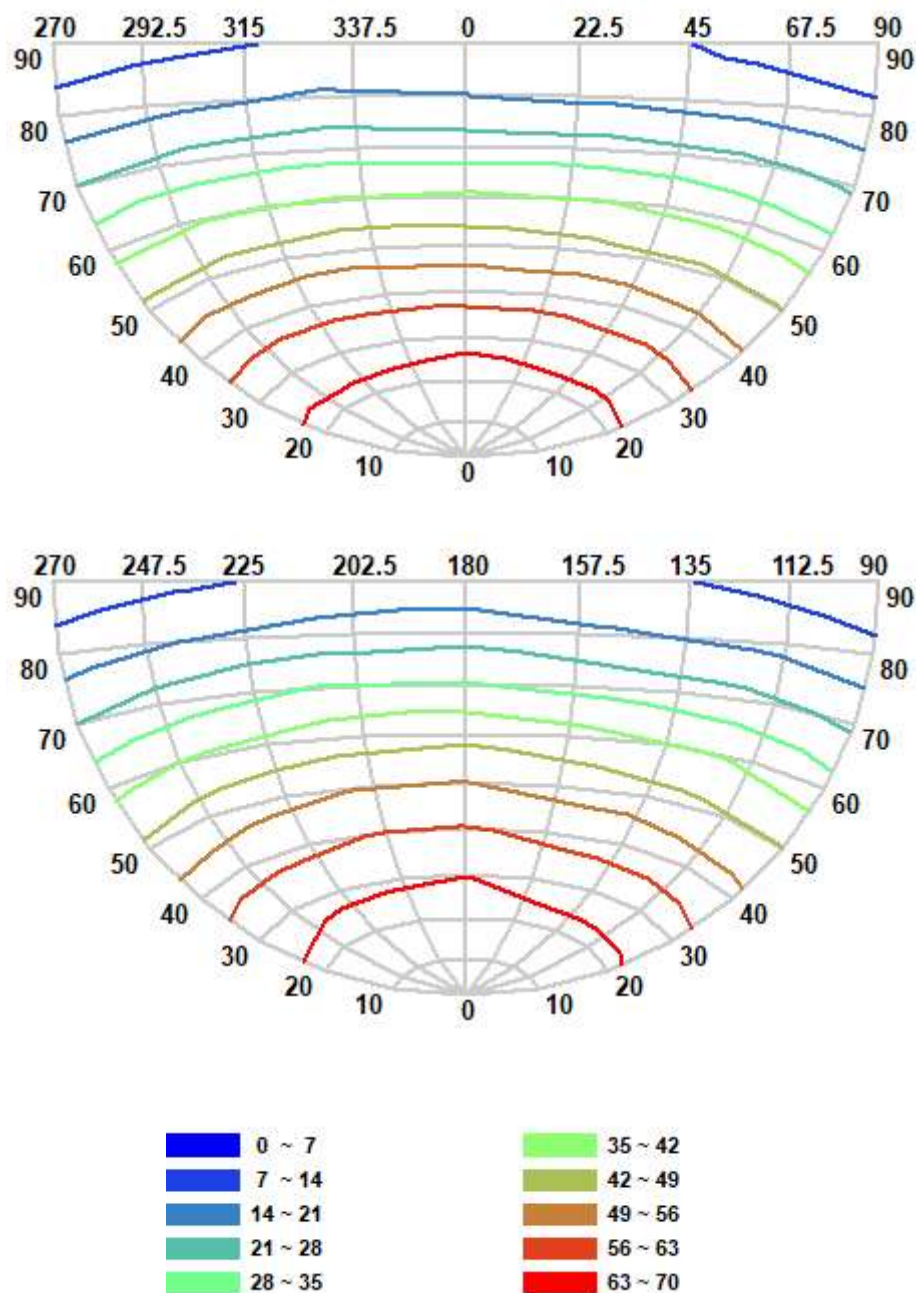
Total flux (lm) 241

Power Factor 1

Operator CGR

Date 2020-06-04 오후 3:33:47

## IsoCandela (Type C)



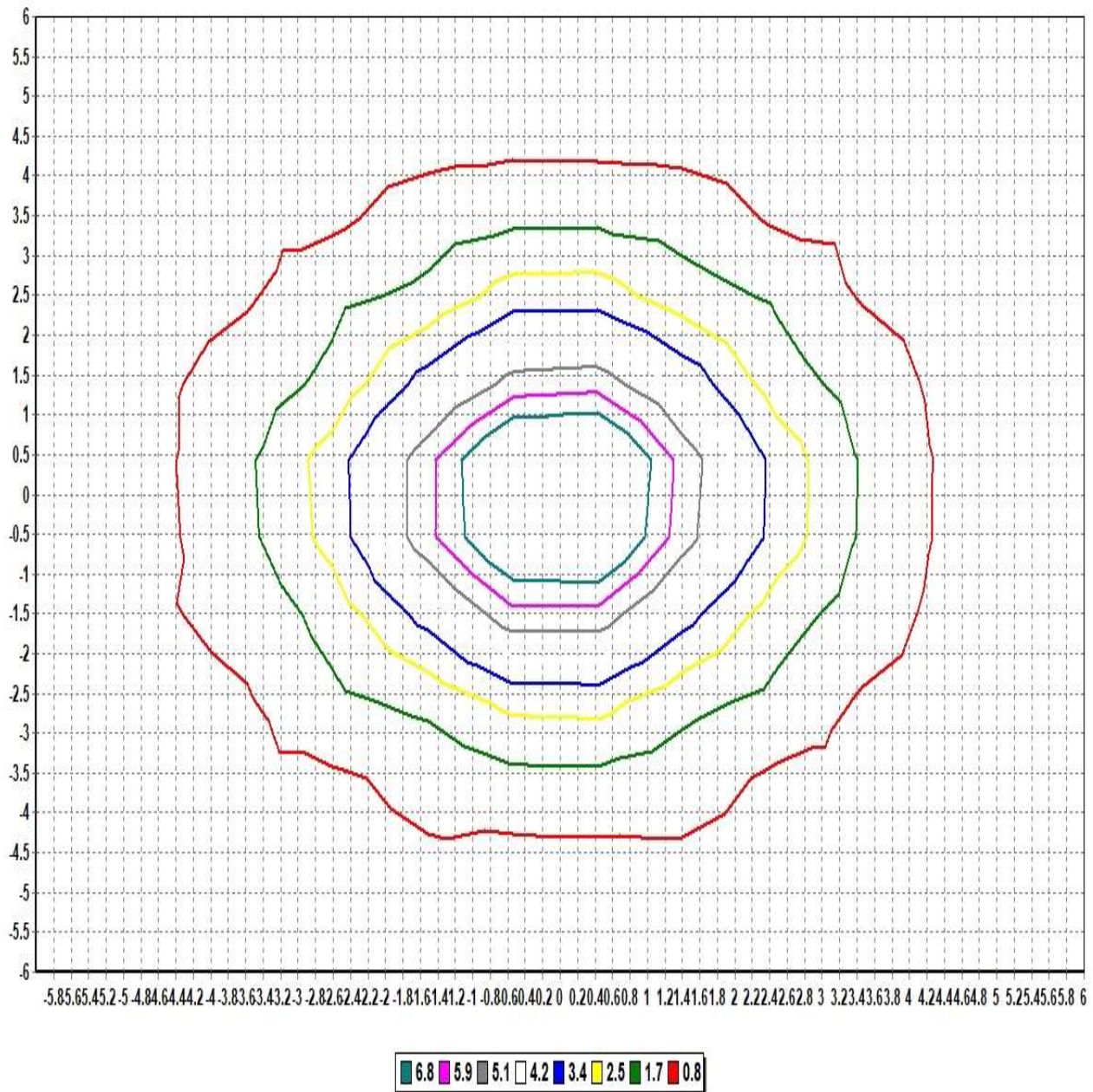


# Luminaire

## Lamp

|                 |     |              |       |          |                                |
|-----------------|-----|--------------|-------|----------|--------------------------------|
| No. of lamps    | 1   | Voltage (V)  | 24    | Report   | 200604                         |
| Lamp flux (lm)  | 241 | Current (A)  | 0.159 | Filename | 200604 NMP4 30K-24V-CPL-BK.jdt |
| Total flux (lm) | 241 | Power Factor | 1     | Operator | CGR                            |
|                 |     |              |       | Date     | 2020-06-04 오후 3:33:47          |

## 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

200604

Lamp flux (lm) 241

Current (A) 0.159

Filename 200604 NMP4 30K-24V-CPL-BK.jdt

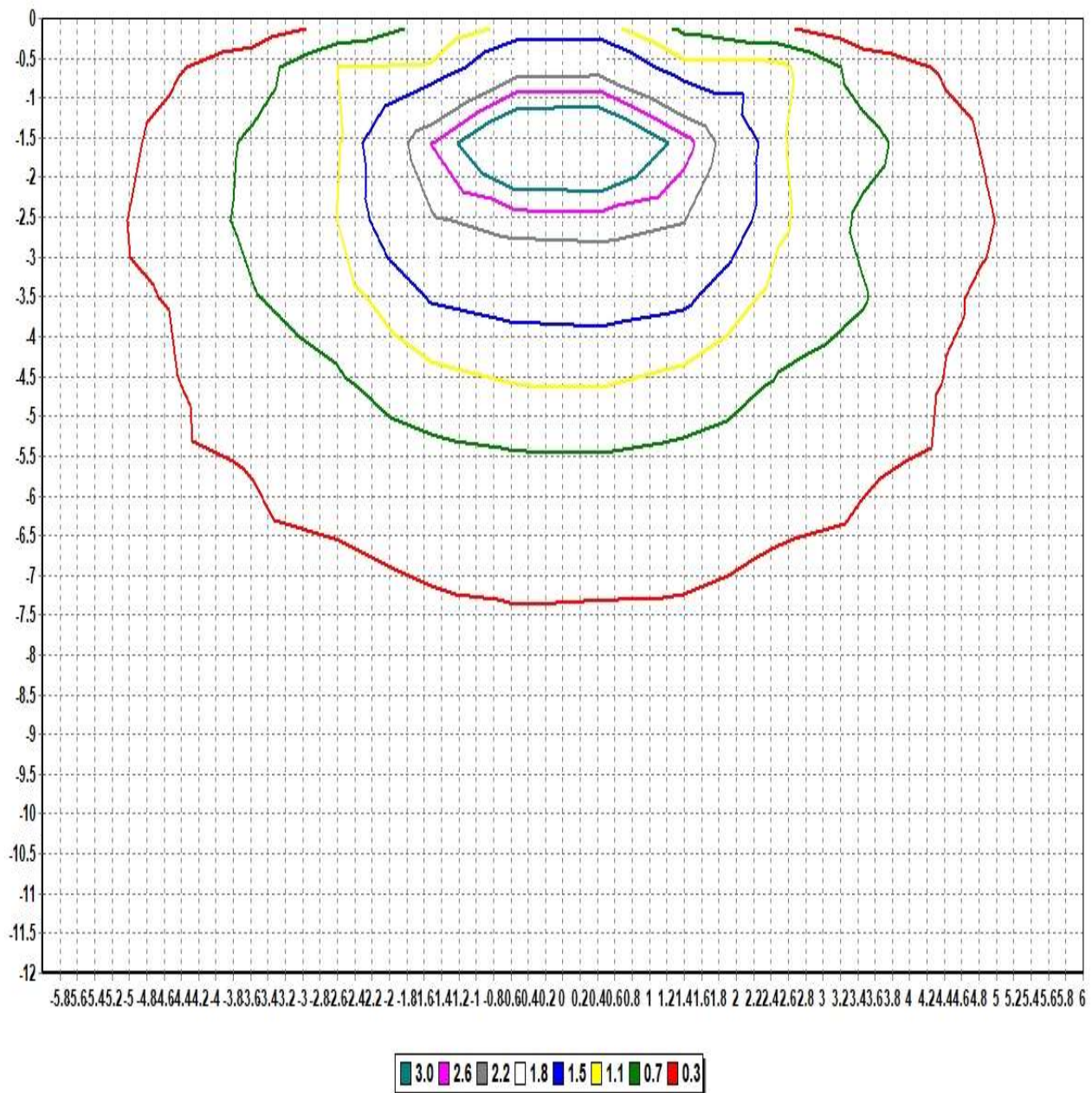
Total flux (lm) 241

Power Factor 1

Operator CGR

Date 2020-06-04 오후 3:33:47

## 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)  | 241 | Current (A)  | 0.159 |
| Total flux (lm) | 241 | Power Factor | 1     |

Report 200604

Filename 200604 NMP4 30K-24V-CPL-BK.jdt

Operator CGR

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## Illuminance Levels (Ground)

|       |       |       |       |       |       |      |      |      |      |      |      |      |      |
|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 6.00  | 0.11  | 0.15  | 0.12  | 0.18  | 0.21  | 0.23 | 0.23 | 0.23 | 0.22 | 0.18 | 0.13 | 0.15 | 0.12 |
| 5.00  | 0.17  | 0.14  | 0.19  | 0.25  | 0.49  | 0.56 | 0.59 | 0.56 | 0.50 | 0.28 | 0.21 | 0.15 | 0.16 |
| 4.00  | 0.15  | 0.22  | 0.42  | 0.59  | 0.66  | 0.79 | 0.84 | 0.79 | 0.67 | 0.61 | 0.44 | 0.22 | 0.14 |
| 3.00  | 0.18  | 0.31  | 0.64  | 0.74  | 1.42  | 1.61 | 1.78 | 1.65 | 1.45 | 0.80 | 0.64 | 0.30 | 0.18 |
| 2.00  | 0.23  | 0.50  | 0.67  | 1.51  | 2.07  | 3.30 | 3.78 | 3.34 | 2.16 | 1.50 | 0.68 | 0.51 | 0.23 |
| 1.00  | 0.29  | 0.64  | 0.93  | 1.68  | 3.32  | 5.72 | 7.64 | 5.85 | 3.35 | 1.69 | 0.87 | 0.61 | 0.26 |
| 0.00  | 0.31  | 0.70  | 1.04  | 2.07  | 4.16  | 7.75 | 9.56 | 7.72 | 3.98 | 1.93 | 0.95 | 0.64 | 0.27 |
| -1.00 | 0.28  | 0.63  | 0.93  | 1.83  | 3.50  | 6.01 | 7.65 | 5.77 | 3.33 | 1.71 | 0.87 | 0.61 | 0.26 |
| -2.00 | 0.26  | 0.56  | 0.75  | 1.59  | 2.31  | 3.48 | 3.90 | 3.32 | 2.12 | 1.51 | 0.67 | 0.51 | 0.23 |
| -3.00 | 0.22  | 0.34  | 0.69  | 0.88  | 1.51  | 1.79 | 1.85 | 1.67 | 1.46 | 0.76 | 0.65 | 0.30 | 0.18 |
| -4.00 | 0.17  | 0.25  | 0.48  | 0.66  | 0.74  | 0.84 | 0.89 | 0.85 | 0.67 | 0.61 | 0.43 | 0.22 | 0.15 |
| -5.00 | 0.18  | 0.18  | 0.23  | 0.30  | 0.55  | 0.59 | 0.61 | 0.60 | 0.50 | 0.27 | 0.20 | 0.14 | 0.16 |
| -6.00 | 0.14  | 0.17  | 0.15  | 0.21  | 0.25  | 0.24 | 0.24 | 0.25 | 0.21 | 0.18 | 0.13 | 0.15 | 0.12 |
| -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.) : 9.56

Illum. (Min.) : 0.11

Illum. (Avg.) : 1.18

All illuminance level values are in lux.

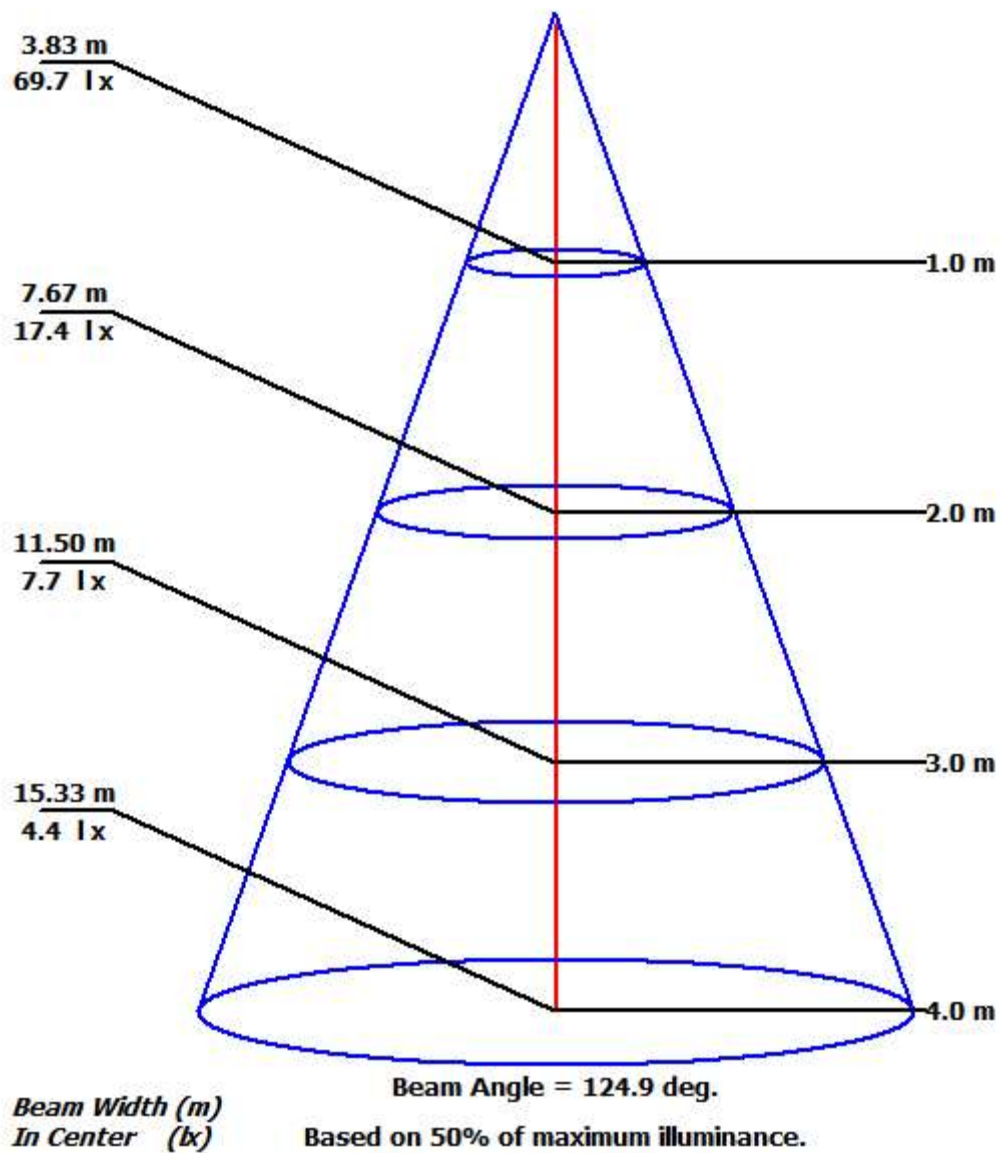


# Luminaire

## Lamp

|                 |     |              |       |          |                                |
|-----------------|-----|--------------|-------|----------|--------------------------------|
| No. of lamps    | 1   | Voltage (V)  | 24    | Report   | 200604                         |
| Lamp flux (lm)  | 241 | Current (A)  | 0.159 | Filename | 200604 NMP4 30K-24V-CPL-BK.jdt |
| Total flux (lm) | 241 | Power Factor | 1     | Operator | CGR                            |
|                 |     |              |       | Date     | 2020-06-04 오후 3:33:47          |

## Illuminance Cone Diagram





## Luminaire

## Lamp

|                 |     |              |       |
|-----------------|-----|--------------|-------|
| No. of lamps    | 1   | Voltage (V)  | 24    |
| Lamp flux (lm)  | 241 | Current (A)  | 0.159 |
| Total flux (lm) | 241 | Power Factor | 1     |

Report 200604

Filename 200604 NMP4 30K-24V-CPL-BK.jdt

Operator CGR

Date 2020-06-04 오후 3:33:47

## 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 |

