

# 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 NMP5 40K-24V-CI-BK

5. Test Period : 200604 ~ 200604

## 6. Test Environment

\* Ambient Temp. : 24.9 +- 3 °C  
\* Relative Humidity : 66.4 +- 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                   |      | 0.3787 , 0.3726 |        |
| Correlated Color Temperature      | K    | 4027            |        |
| Ra                                |      | 93.25           |        |
| Power Factor                      |      | 1.000           |        |
| Input Voltage                     | V    | 24.000          |        |
| Input Current                     | A    | 0.209           |        |
| Input Watt                        | W    | 5.01            |        |
| Lamp Flux                         | lm   | 293.2           |        |
| Efficient                         | lm/W | 58.45           |        |
| luminous Intensity (Max , Center) | cd   | 70 , 52         |        |
| Illuminance                       | lx   | 52              | 1 m    |
|                                   |      | 13              | 2 m    |
|                                   |      | 6               | 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) 293

Current (A) 0.209

Total flux (lm) 293

Power Factor 1

Report

200604

Filename 200604 NMP5 40K-24V-CI-BK.jdt

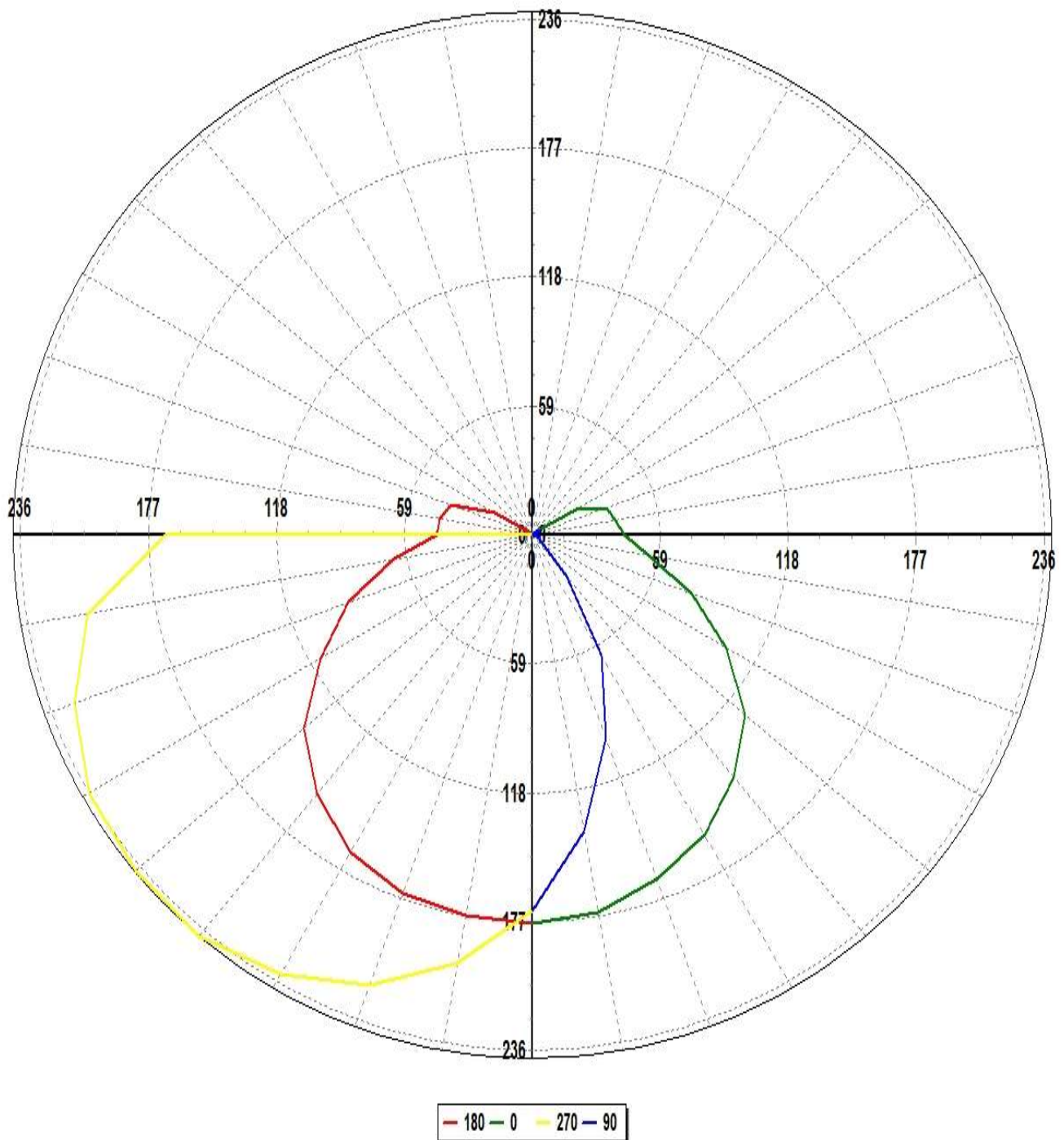
Operator

CGR

Date

2020-06-04 오후 5:28:50

## Luminous Intensity Distribution



Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Report

200604

Lamp flux (lm) 293

Current (A) 0.209

Filename 200604 NMP5 40K-24V-CI-BK.jdt

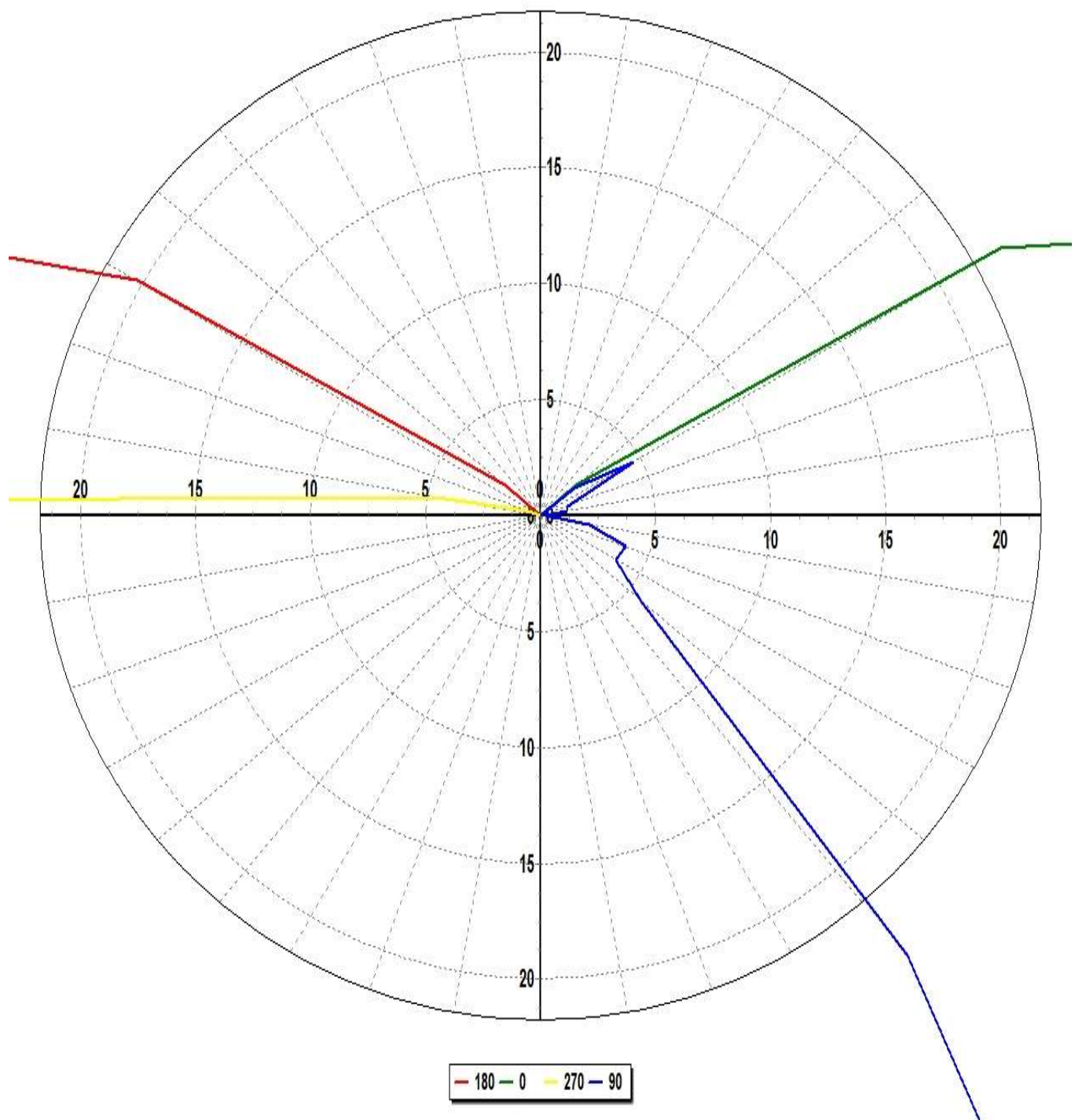
Total flux (lm) 293

Power Factor 1

Operator CGR

Date 2020-06-04 오후 5:28:50

## Luminous Intensity Distribution (Lowest 10%)



# Luminaire

## Lamp

|                 |     |              |       |          |                               |
|-----------------|-----|--------------|-------|----------|-------------------------------|
| No. of lamps    | 1   | Voltage (V)  | 24    | Report   | 200604                        |
| Lamp flux (lm)  | 293 | Current (A)  | 0.209 | Filename | 200604 NMP5 40K-24V-CI-BK.jdt |
| Total flux (lm) | 293 | Power Factor | 1     | Operator | CGR                           |
|                 |     |              |       | Date     | 2020-06-04 오후 5:28:50         |

## Luminous Intensity Data

Maximum (cd) : 70

Minimum (cd) : -1

| G/C | 0     | 30    | 60    | 90    | 120   | 150   | 180   | 210   | 240   | 270   | 300   | 330   | 360   |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0   | 52.15 | 51.16 | 51.09 | 50.31 | 50.28 | 50.32 | 52.15 | 51.16 | 51.09 | 50.31 | 50.28 | 50.32 | 52.15 |
| 10  | 51.28 | 48.1  | 44.01 | 40.33 | 42.02 | 46.62 | 51.86 | 54.91 | 58.48 | 58.37 | 56.48 | 53.83 | 51.28 |
| 20  | 49.13 | 45.29 | 40.35 | 29    | 37.13 | 46.02 | 51.21 | 57.17 | 63.44 | 64.16 | 62.36 | 55.27 | 49.13 |
| 30  | 46.5  | 43.12 | 36.7  | 18.68 | 35.87 | 43.35 | 49.09 | 59.4  | 66.16 | 67.9  | 64.12 | 55.92 | 46.5  |
| 40  | 42.38 | 38.7  | 31.85 | 7.27  | 31.93 | 39.73 | 45.33 | 58.34 | 68.05 | 70.14 | 64.96 | 55    | 42.38 |
| 50  | 37.46 | 33.4  | 26.83 | 1.67  | 27.58 | 35.35 | 40.32 | 55.47 | 67.49 | 69.93 | 64.84 | 51.73 | 37.46 |
| 60  | 30.11 | 26.86 | 20.73 | 1.1   | 22.04 | 29.39 | 33.04 | 51.34 | 64.3  | 69.17 | 61.65 | 47.45 | 30.11 |
| 70  | 22.86 | 19.92 | 14.62 | 1.16  | 15.88 | 22.7  | 26.41 | 45.44 | 59.77 | 65.8  | 57.72 | 41.32 | 22.86 |
| 80  | 15.96 | 12.29 | 7.87  | 0.63  | 9.79  | 15.46 | 18.93 | 38.98 | 53.67 | 61.06 | 50.93 | 34.71 | 15.96 |
| 90  | 12.44 | 9.18  | 4.97  | 0.07  | 5.65  | 10.93 | 12.87 | 33.43 | 48.16 | 49.58 | 46.75 | 29.96 | 12.44 |
| 100 | 11.38 | 9.37  | 4.75  | 0.34  | 4.92  | 10.12 | 12.7  | 31.67 | 45.03 | 1.37  | 43.4  | 28.77 | 11.38 |
| 110 | 10.64 | 8.64  | 4.37  | 0.36  | 5.18  | 9.25  | 11.67 | 29.19 | 27.77 | 0.18  | 38.5  | 27.24 | 10.64 |
| 120 | 6.77  | 8.05  | 1.97  | 1.36  | 2.59  | 9.1   | 5.93  | 25.34 | 27.29 | -0.71 | 26.62 | 23.59 | 6.77  |
| 130 | 0.59  | 2.94  | 2.22  | 0.55  | 2.3   | 3.2   | 0.59  | 12.59 | 6.23  | -0.14 | 5.35  | 11.88 | 0.59  |



## Luminaire

## Lamp

|                 |     |              |       |          |                               |
|-----------------|-----|--------------|-------|----------|-------------------------------|
| No. of lamps    | 1   | Voltage (V)  | 24    | Report   | 200604                        |
| Lamp flux (lm)  | 293 | Current (A)  | 0.209 | Filename | 200604 NMP5 40K-24V-CI-BK.jdt |
| Total flux (lm) | 293 | Power Factor | 1     | Operator | CGR                           |
|                 |     |              |       | Date     | 2020-06-04 오후 5:28:50         |

## Luminous Flux Table

|                              |        |
|------------------------------|--------|
| Total Lamp Lumens:           | 293    |
| Luminaire Efficiency (lm/W): | 293.21 |
| CIE Classification:          | Direct |

| Elevation | Lumens | Cumulative | Lamp % | Luminaire % |
|-----------|--------|------------|--------|-------------|
| 0         | 1.22   | 1.22       | 0.41   | 0.41        |
| 10        | 9.61   | 10.83      | 3.69   | 3.69        |
| 20        | 18.75  | 29.57      | 10.09  | 10.09       |
| 30        | 26.78  | 56.35      | 19.22  | 19.22       |
| 40        | 32.48  | 88.83      | 30.30  | 30.30       |
| 50        | 35.80  | 124.64     | 42.51  | 42.51       |
| 60        | 36.14  | 160.77     | 54.83  | 54.83       |
| 70        | 33.76  | 194.53     | 66.35  | 66.34       |
| 80        | 28.79  | 223.31     | 76.16  | 76.16       |
| 90        | 24.09  | 247.41     | 84.38  | 84.38       |
| 100       | 18.32  | 265.73     | 90.63  | 90.63       |
| 110       | 14.84  | 280.56     | 95.69  | 95.69       |
| 120       | 10.90  | 291.46     | 99.41  | 99.40       |
| 130       | 1.75   | 293.21     | 100.01 | 100.00      |



Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Report

200604

Lamp flux (lm) 293

Current (A) 0.209

Filename 200604 NMP5 40K-24V-CI-BK.jdt

Total flux (lm) 293

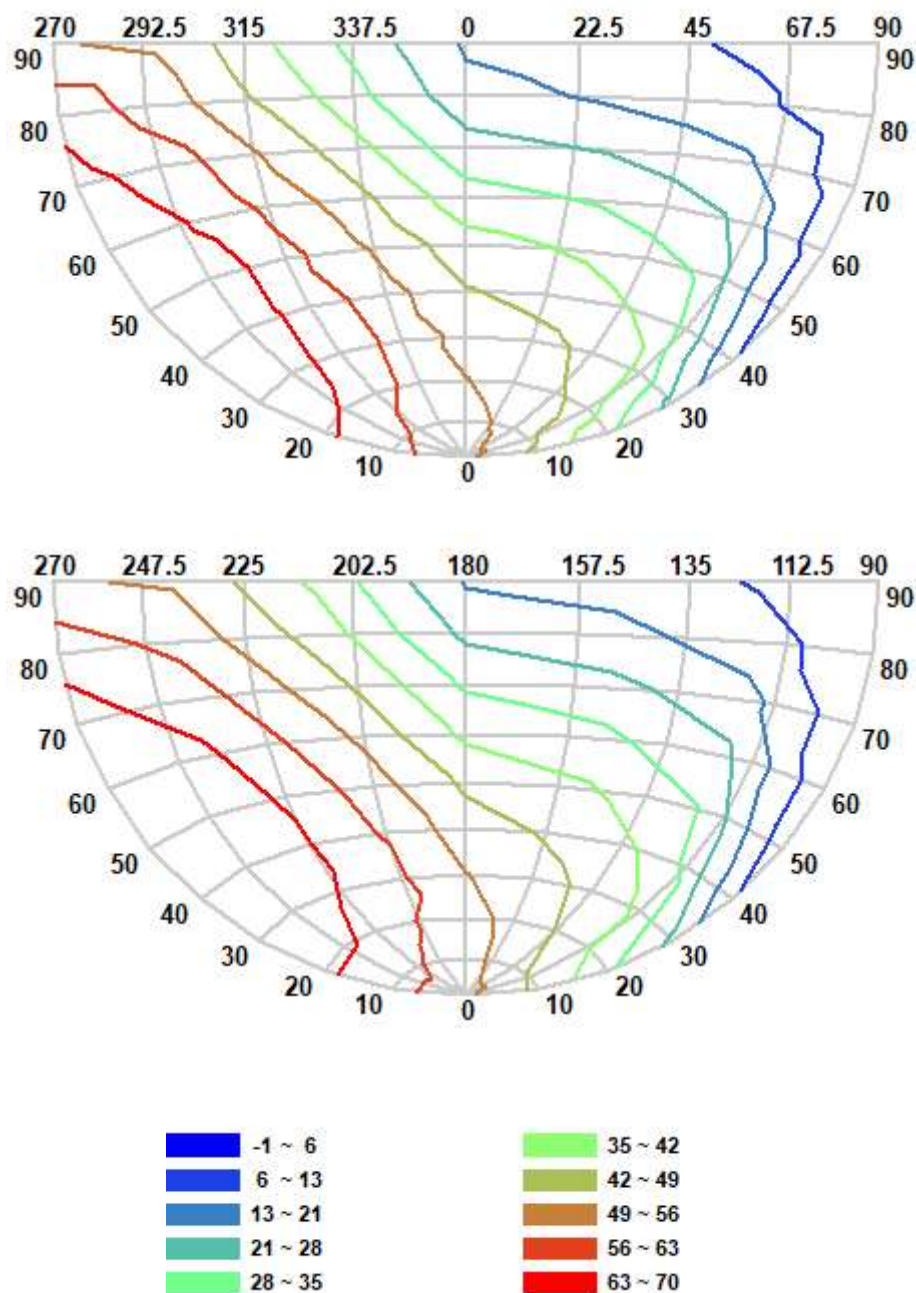
Power Factor 1

Operator

CGR

Date 2020-06-04 오후 5:28:50

## IsoCandela (Type C)



Luminaire

Lamp

No. of lamps 1

Voltage (V) 24

Report

200604

Lamp flux (lm) 293

Current (A) 0.209

Filename 200604 NMP5 40K-24V-CI-BK.jdt

Total flux (lm) 293

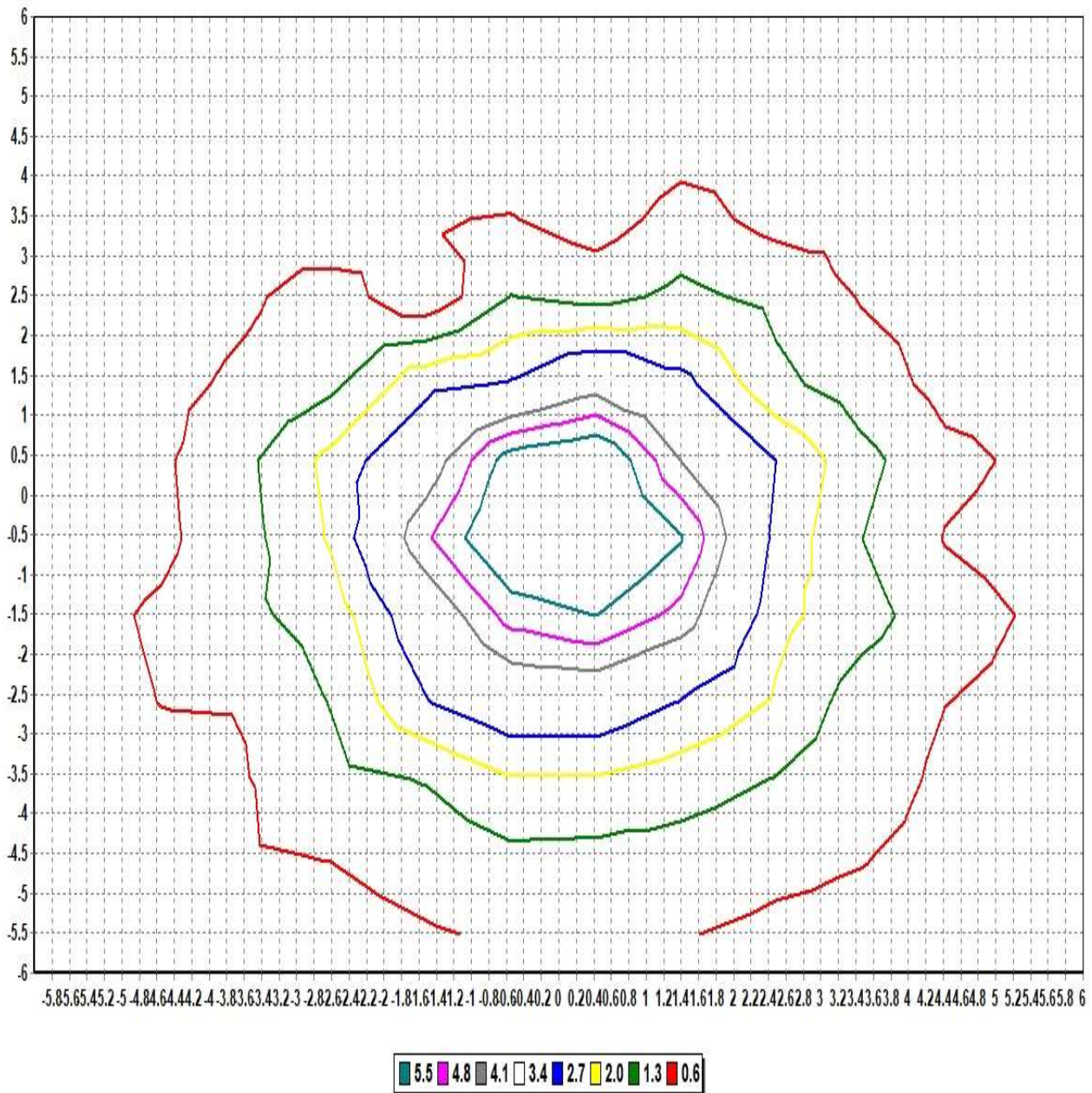
Power Factor 1

Operator

CGR

Date 2020-06-04 오후 5:28:50

## 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) 293

Current (A) 0.209

Filename 200604 NMP5 40K-24V-CI-BK.jdt

Total flux (lm) 293

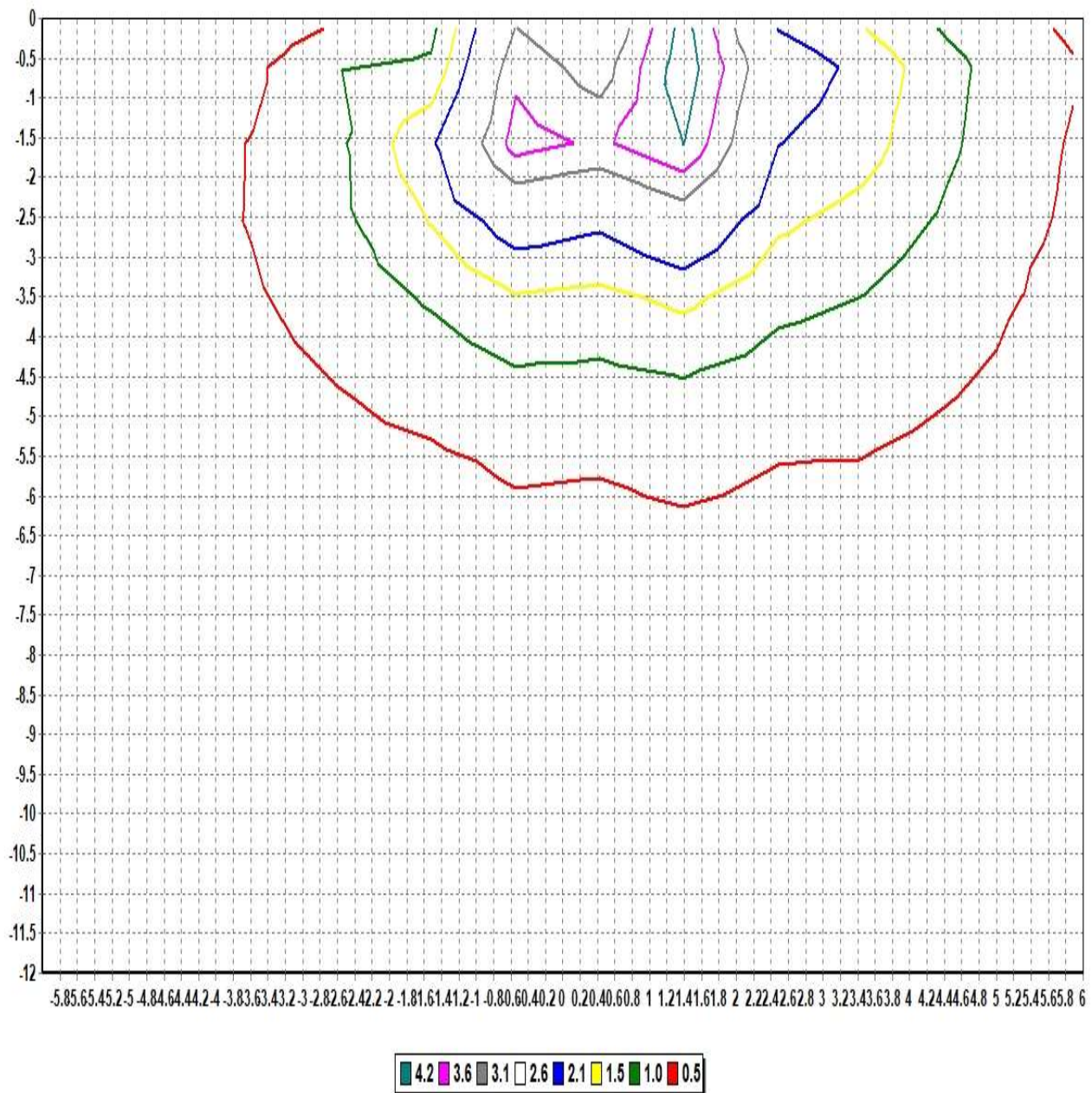
Power Factor 1

Operator

CGR

Date 2020-06-04 오후 5:28:50

## 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)  | 293 | Current (A)  | 0.209 |
| Total flux (lm) | 293 | Power Factor | 1     |

## Report

200604

Filename 200604 NMP5 40K-24V-CI-BK.jdt

## Operator

CGR

## Date

2020-06-04 오후 5:28:50

## Illuminance Levels (Ground)

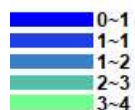
|       |       |       |       |       |       |      |      |      |      |      |      |      |      |
|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 6.00  | 0.04  | 0.04  | 0.02  | 0.11  | 0.09  | 0.11 | 0.01 | 0.06 | 0.17 | 0.15 | 0.09 | 0.11 | 0.10 |
| 5.00  | 0.13  | 0.05  | 0.05  | 0.02  | 0.24  | 0.23 | 0.02 | 0.15 | 0.36 | 0.18 | 0.14 | 0.14 | 0.14 |
| 4.00  | 0.13  | 0.18  | 0.15  | 0.11  | 0.38  | 0.29 | 0.03 | 0.25 | 0.51 | 0.40 | 0.35 | 0.19 | 0.14 |
| 3.00  | 0.13  | 0.26  | 0.48  | 0.26  | 0.25  | 0.67 | 0.11 | 1.17 | 0.92 | 0.64 | 0.52 | 0.27 | 0.15 |
| 2.00  | 0.17  | 0.34  | 0.45  | 1.10  | 0.74  | 1.84 | 0.80 | 2.39 | 1.68 | 1.19 | 0.53 | 0.40 | 0.19 |
| 1.00  | 0.26  | 0.52  | 0.76  | 1.16  | 2.07  | 2.73 | 4.52 | 4.33 | 2.46 | 1.32 | 0.93 | 0.64 | 0.35 |
| 0.00  | 0.28  | 0.58  | 0.86  | 1.70  | 3.32  | 5.86 | 7.15 | 5.79 | 3.12 | 1.58 | 0.79 | 0.53 | 0.25 |
| -1.00 | 0.24  | 0.50  | 0.75  | 1.87  | 3.57  | 5.17 | 6.62 | 6.23 | 4.00 | 2.25 | 0.91 | 0.58 | 0.29 |
| -2.00 | 0.33  | 0.61  | 0.94  | 1.34  | 2.23  | 3.73 | 4.94 | 4.11 | 3.05 | 1.63 | 1.14 | 0.74 | 0.44 |
| -3.00 | 0.32  | 0.31  | 0.63  | 0.93  | 1.97  | 2.26 | 2.87 | 2.51 | 2.05 | 1.40 | 0.80 | 0.46 | 0.40 |
| -4.00 | 0.17  | 0.27  | 0.50  | 0.94  | 1.01  | 1.52 | 1.67 | 1.52 | 1.19 | 1.01 | 0.73 | 0.38 | 0.26 |
| -5.00 | 0.18  | 0.23  | 0.46  | 0.63  | 0.71  | 0.97 | 1.03 | 0.95 | 0.81 | 0.68 | 0.52 | 0.39 | 0.25 |
| -6.00 | 0.16  | 0.29  | 0.34  | 0.34  | 0.44  | 0.60 | 0.64 | 0.58 | 0.51 | 0.42 | 0.38 | 0.32 | 0.25 |
| -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.) : 7.15

Illum. (Min.) : 0.01

Illum. (Avg.) : 1.05

All illuminance level values are in lux.

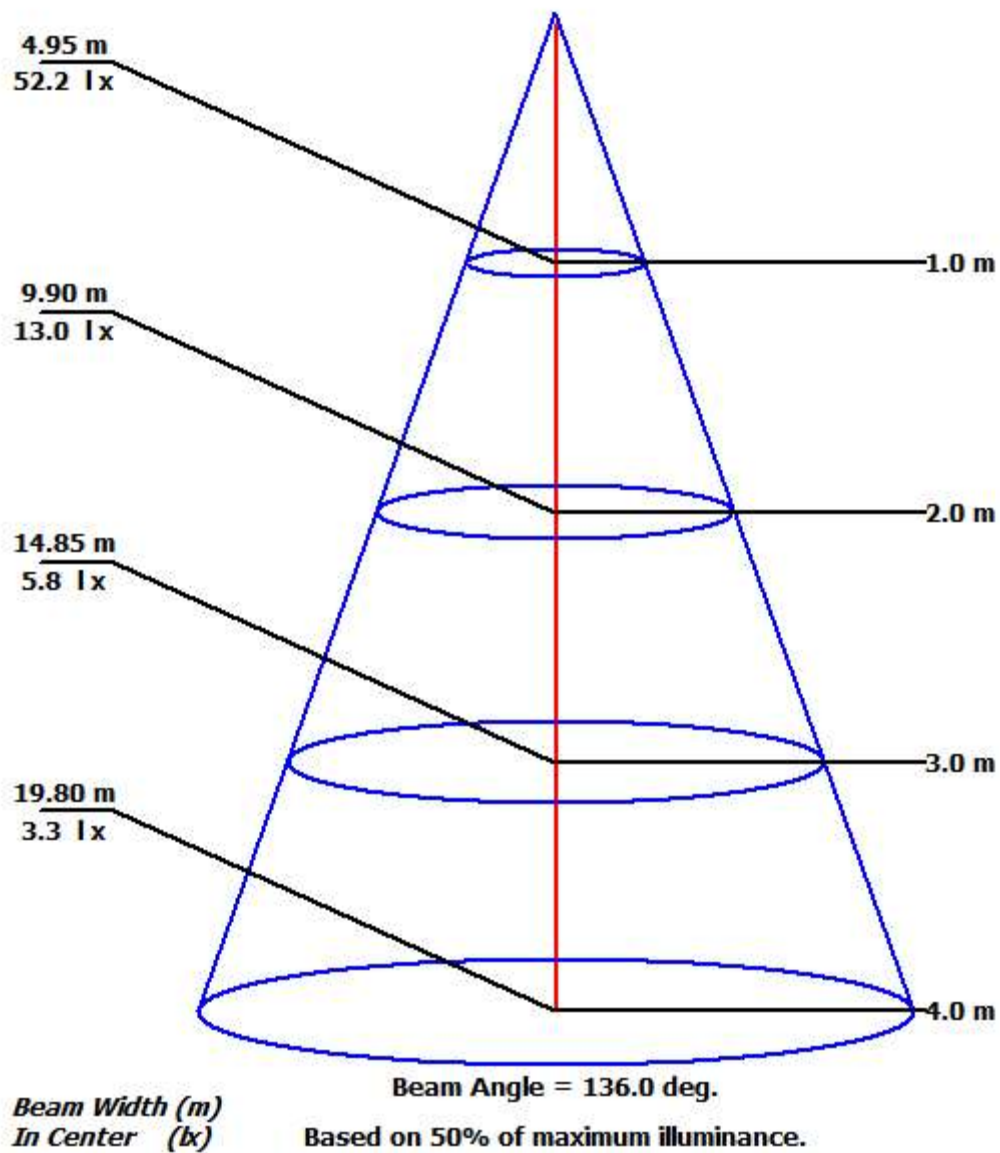


# Luminaire

## Lamp

|                 |     |              |       |          |                               |
|-----------------|-----|--------------|-------|----------|-------------------------------|
| No. of lamps    | 1   | Voltage (V)  | 24    | Report   | 200604                        |
| Lamp flux (lm)  | 293 | Current (A)  | 0.209 | Filename | 200604 NMP5 40K-24V-CI-BK.jdt |
| Total flux (lm) | 293 | Power Factor | 1     | Operator | CGR                           |
|                 |     |              |       | Date     | 2020-06-04 오후 5:28:50         |

## Illuminance Cone Diagram





## Luminaire

## Lamp

|                 |     |              |       |
|-----------------|-----|--------------|-------|
| No. of lamps    | 1   | Voltage (V)  | 24    |
| Lamp flux (lm)  | 293 | Current (A)  | 0.209 |
| Total flux (lm) | 293 | Power Factor | 1     |

|          |                               |
|----------|-------------------------------|
| Report   | 200604                        |
| Filename | 200604 NMP5 40K-24V-CI-BK.jdt |
| Operator | CGR                           |
| Date     | 2020-06-04 오후 5:28:50         |

## 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 |

