

# TEST REPORT

**1. Applicant**

\* Client Name : KH FEELUX Co. Ltd.  
\* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-Si Gyeonggi-do South Korea  
\* Date of Receipt : 240510

**2. Purpose of Report :****3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 240510 FNN2 35K-24V-C90-1M**5. Test Period :** 240510 ~ 240510**6. Test Environment**

\* Ambient Temp. : 25.0 +- 3 °C  
\* Relative Humidity : 60.0 +- 10 % RH

**7. Test Item**

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

**8. Test Result :** Refer to the attachment

|              |         |      |                   |      |
|--------------|---------|------|-------------------|------|
| Confirmation | Test by |      | Technical manager |      |
|              | 장상윤     | Sign | 장상윤               | Sign |

\*\*\*\*\*

- \* The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
- \* This report cannot be reproduced, 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 |
|---------------|-------------|---------------|---------------|
| KH FEELUX     |             |               |               |

| Test Item                         | Unit | Result          | Notice |
|-----------------------------------|------|-----------------|--------|
| Beam Distribution Test            |      | See Attachement |        |
| ATHD                              | %    | 0.0             |        |
| CIE 1931 Cx, Cy                   |      | 0.4064 , 0.3845 |        |
| Correlated Color Temperature      | K    | 3428            |        |
| Ra                                |      | 93.01           |        |
| Power Factor                      |      | 1.000           |        |
| Input Voltage                     | V    | 23.962          |        |
| Input Current                     | A    | 0.288           |        |
| Input Watt                        | W    | 6.9055          |        |
| Lamp Flux                         | lm   | 585.3           |        |
| Efficient                         | lm/W | 84.76           |        |
| luminous Intensity (Max , Center) | cd   | 207 , 206       |        |
| Illuminance                       | lx   | 206             | 1 m    |
|                                   |      | 51              | 2 m    |
|                                   |      | 23              | 3 m    |

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

\* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.962

Filename 240510 FNN2 35K-24V-C90-1M.jdt

Lamp flux (lm) 585

Current (A) 0.28819

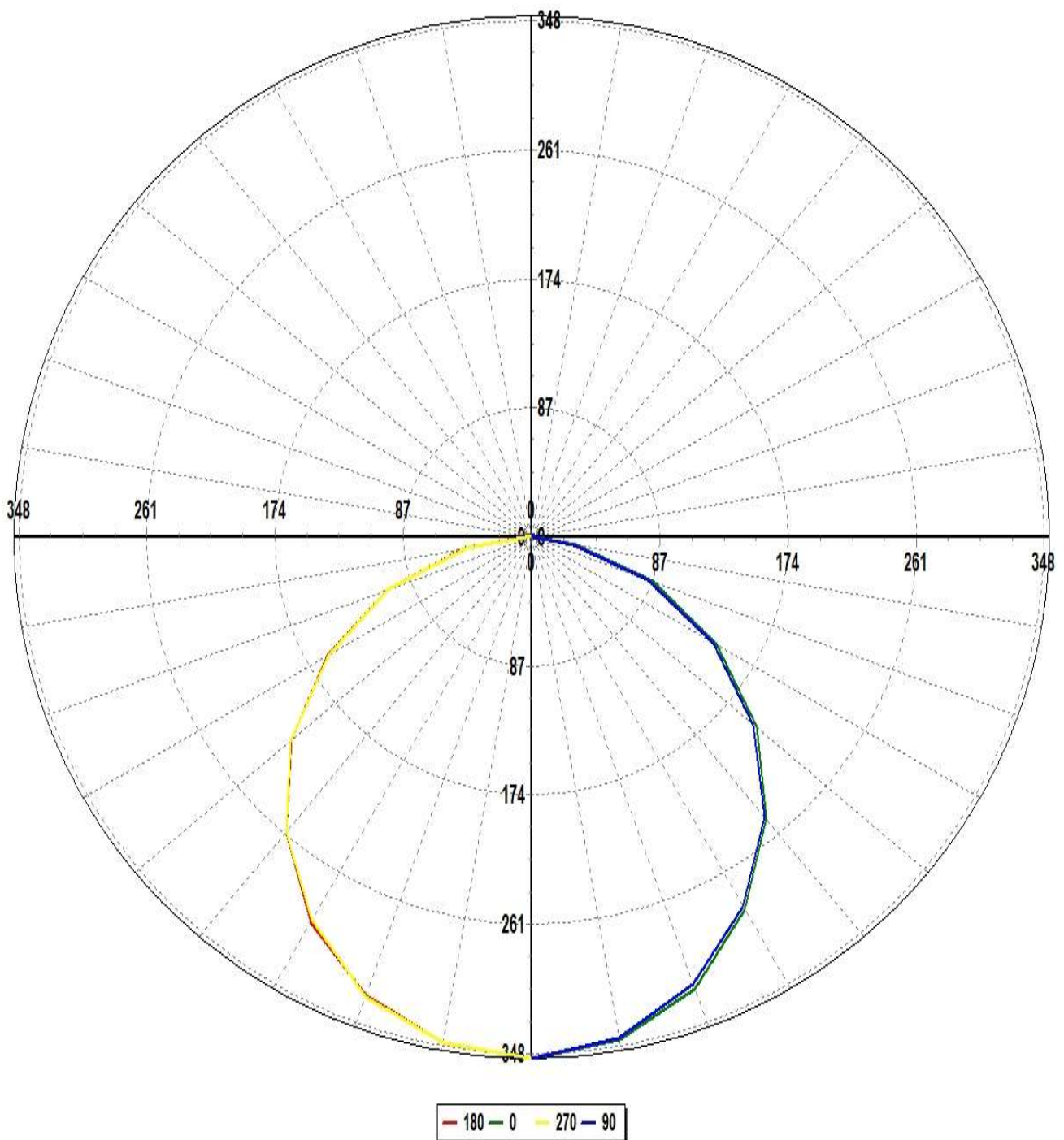
Operator

Total flux (lm) 585

Power Factor 1

Date 2024-05-10 오후 12:03:16

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

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Lamp flux (lm) 585

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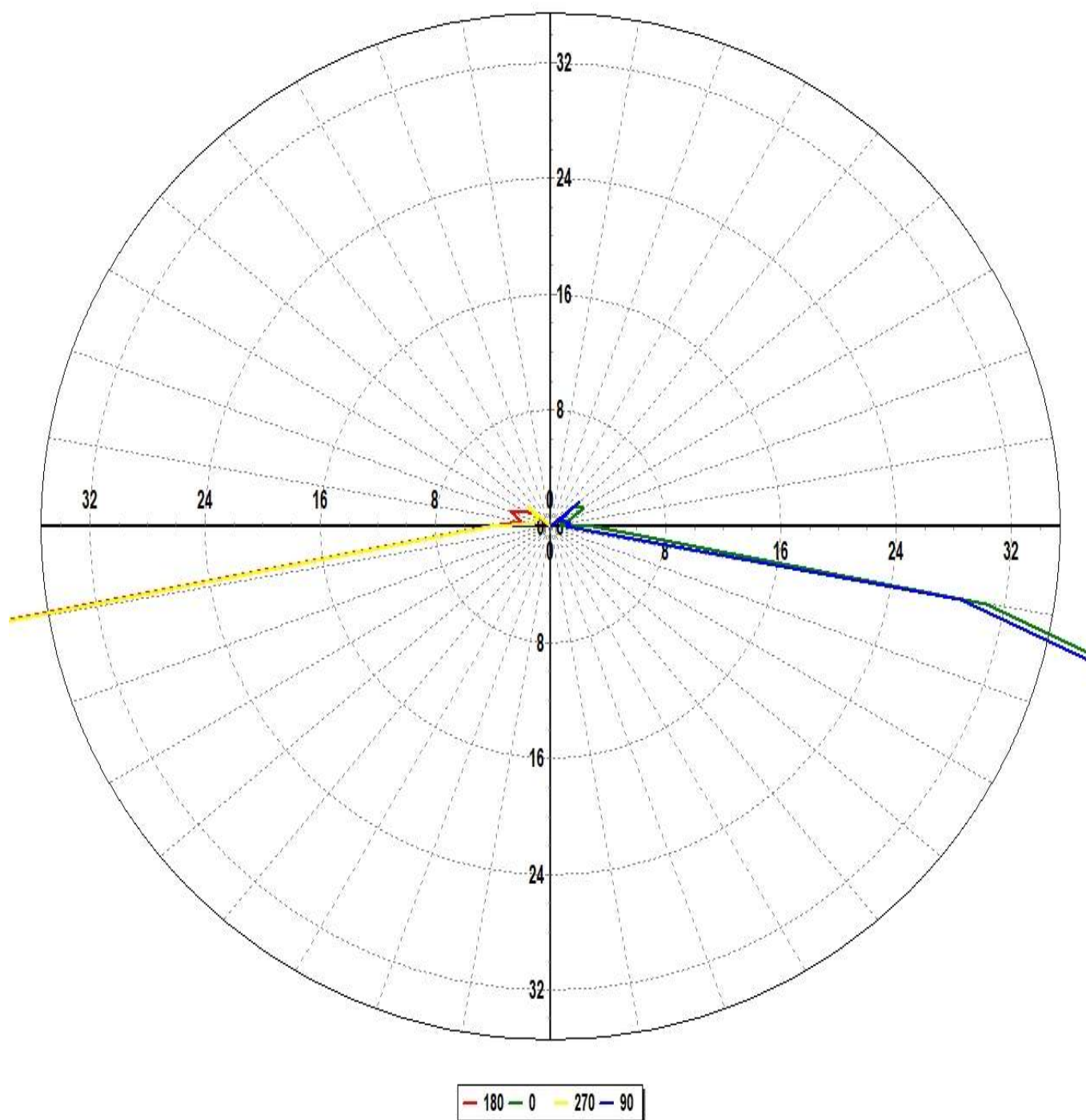
Operator

Total flux (lm) 585

Power Factor 1

Date 2024-05-10 오후 12:03:16

## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

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KH FEELUX

No. of lamps 1

Voltage (V) 23.962

Filename 240510 FNN2 35K-24V-C90-1M.jdt

Lamp flux (lm) 585

Current (A) 0.28819

Operator

Total flux (lm) 585

Power Factor 1

Date 2024-05-10 오후 12:03:16

## Luminous Intensity Data

Maximum (cd) : 207

Minimum (cd) : 0

| G/C | 0      | 30     | 60     | 90     | 120    | 150    | 180    | 210    | 240    | 270    | 300    |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0   | 205.65 | 205.64 | 206.31 | 205.58 | 205.69 | 206.6  | 205.65 | 205.64 | 206.31 | 205.58 | 205.69 |
| 10  | 201.07 | 200.61 | 200.61 | 200.64 | 201.09 | 200.46 | 202.36 | 202.51 | 202.95 | 202.62 | 202.73 |
| 20  | 189.4  | 188.04 | 188.35 | 187.6  | 188.71 | 187.74 | 192.42 | 192.77 | 192.02 | 192.8  | 191.95 |
| 30  | 169.56 | 168.75 | 168.47 | 168.09 | 169.58 | 169.32 | 175.72 | 175.78 | 175.43 | 174.46 | 174.45 |
| 40  | 144.88 | 144.28 | 144.03 | 143.79 | 144.85 | 144.76 | 151.81 | 153.35 | 152.36 | 151.82 | 150.78 |
| 50  | 116.81 | 115.92 | 115.1  | 115.08 | 116.27 | 115.88 | 124.41 | 125.84 | 124.4  | 124.82 | 124.31 |
| 60  | 84.86  | 83.51  | 83.75  | 83.24  | 84.73  | 84.86  | 93.77  | 95.18  | 94.18  | 93.39  | 92.57  |
| 70  | 51.23  | 49.61  | 49.03  | 49.04  | 51.1   | 50.7   | 60.45  | 61.91  | 61.07  | 60.61  | 58.97  |
| 80  | 18     | 16.49  | 17.19  | 16.92  | 17.53  | 16.72  | 26.89  | 27.44  | 27.42  | 26.38  | 25.39  |
| 90  | 1.75   | 1.98   | 0.77   | 0.62   | 1.05   | 1.02   | 2.5    | 3.4    | 3.01   | 2.44   | 2.58   |
| 100 | 0.38   | 0.96   | 1.07   | 0.81   | 0.82   | 0.55   | 1.22   | 0.67   | 0.97   | 0.69   | 1.32   |
| 110 | 0.9    | 1.37   | 1.71   | 0.64   | 0.93   | 0.85   | 1.76   | 0.93   | 1.51   | 0.66   | 0.06   |
| 120 | 1.57   | 1.67   | 1.25   | 0.35   | 0.85   | 1.65   | 1.07   | 1.86   | 1.12   | 0.58   | 1.41   |
| 130 | 1.2    | 1.29   | 1.18   | 1.54   | 1.67   | 2.14   | 0.81   | 0.95   | 1.68   | 1.23   | 1.61   |

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.962

Filename 240510 FNN2 35K-24V-C90-1M.jdt

Lamp flux (lm) 585

Current (A) 0.28819

Operator

Total flux (lm) 585

Power Factor 1

Date 2024-05-10 오후 12:03:16

## Luminous Intensity Data (Continued)

Maximum (cd) : 207

Minimum (cd) : 0

| G/C | 330    | 360    |
|-----|--------|--------|
| 0   | 206.6  | 205.65 |
| 10  | 203.11 | 201.07 |
| 20  | 193.06 | 189.4  |
| 30  | 175.73 | 169.56 |
| 40  | 153.12 | 144.88 |
| 50  | 125.52 | 116.81 |
| 60  | 95.18  | 84.86  |
| 70  | 60.48  | 51.23  |
| 80  | 26.78  | 18     |
| 90  | 2.4    | 1.75   |
| 100 | 0.5    | 0.38   |
| 110 | 0.84   | 0.9    |
| 120 | 2.05   | 1.57   |
| 130 | 1.89   | 1.2    |

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

|                 |     |              |         |          |                                |
|-----------------|-----|--------------|---------|----------|--------------------------------|
| No. of lamps    | 1   | Voltage (V)  | 23.962  | Filename | 240510 FNN2 35K-24V-C90-1M.jdt |
| Lamp flux (lm)  | 585 | Current (A)  | 0.28819 | Operator |                                |
| Total flux (lm) | 585 | Power Factor | 1       | Date     | 2024-05-10 오후 12:03:16         |

## Luminous Flux Table

Total Lamp Lumens: 585.32

Luminaire Efficiency (lm/W): 84.76

CIE Classification: Direct

| Elevation | Lumens | Cumulative | Lamp % | Luminaire % |
|-----------|--------|------------|--------|-------------|
| 0         | 4.92   | 4.92       | 0.84   | 0.84        |
| 10        | 38.37  | 43.29      | 7.40   | 7.40        |
| 20        | 71.32  | 114.61     | 19.58  | 19.58       |
| 30        | 94.25  | 208.86     | 35.69  | 35.68       |
| 40        | 104.42 | 313.28     | 53.53  | 53.52       |
| 50        | 100.98 | 414.27     | 70.78  | 70.78       |
| 60        | 84.51  | 498.78     | 85.22  | 85.21       |
| 70        | 56.97  | 555.75     | 94.95  | 94.95       |
| 80        | 23.65  | 579.40     | 98.99  | 98.99       |
| 90        | 2.15   | 581.54     | 99.36  | 99.35       |
| 100       | 0.89   | 582.44     | 99.51  | 99.51       |
| 110       | 1.04   | 583.48     | 99.69  | 99.69       |
| 120       | 1.22   | 584.70     | 99.90  | 99.89       |
| 130       | 0.62   | 585.32     | 100.00 | 100.00      |

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No. of lamps 1

Voltage (V) 23.962

Filename 240510 FNN2 35K-24V-C90-1M.jdt

Lamp flux (lm) 585

Current (A) 0.28819

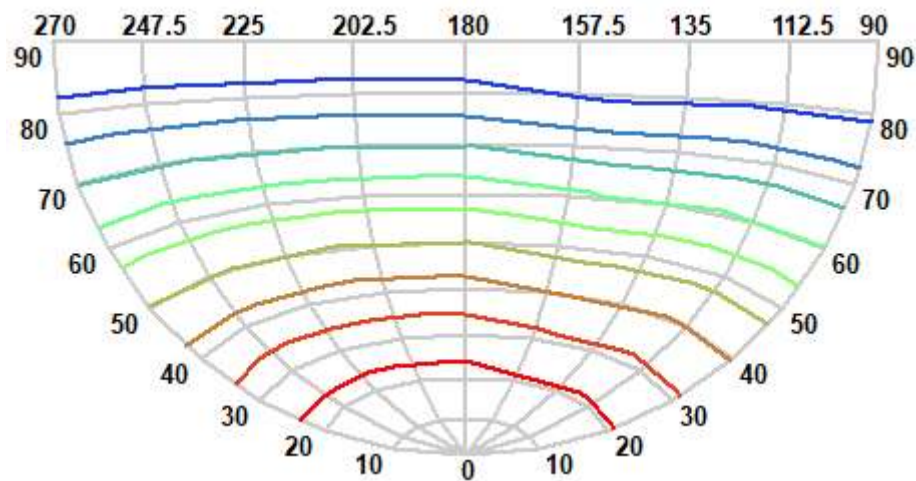
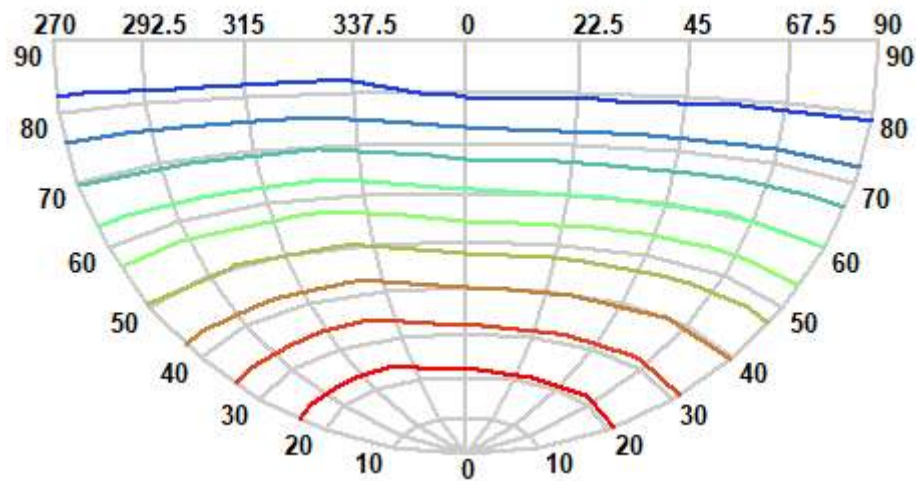
Operator

Total flux (lm) 585

Power Factor 1

Date 2024-05-10 오후 12:03:16

## IsoCandela (Type C)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.962

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Lamp flux (lm) 585

Current (A) 0.28819

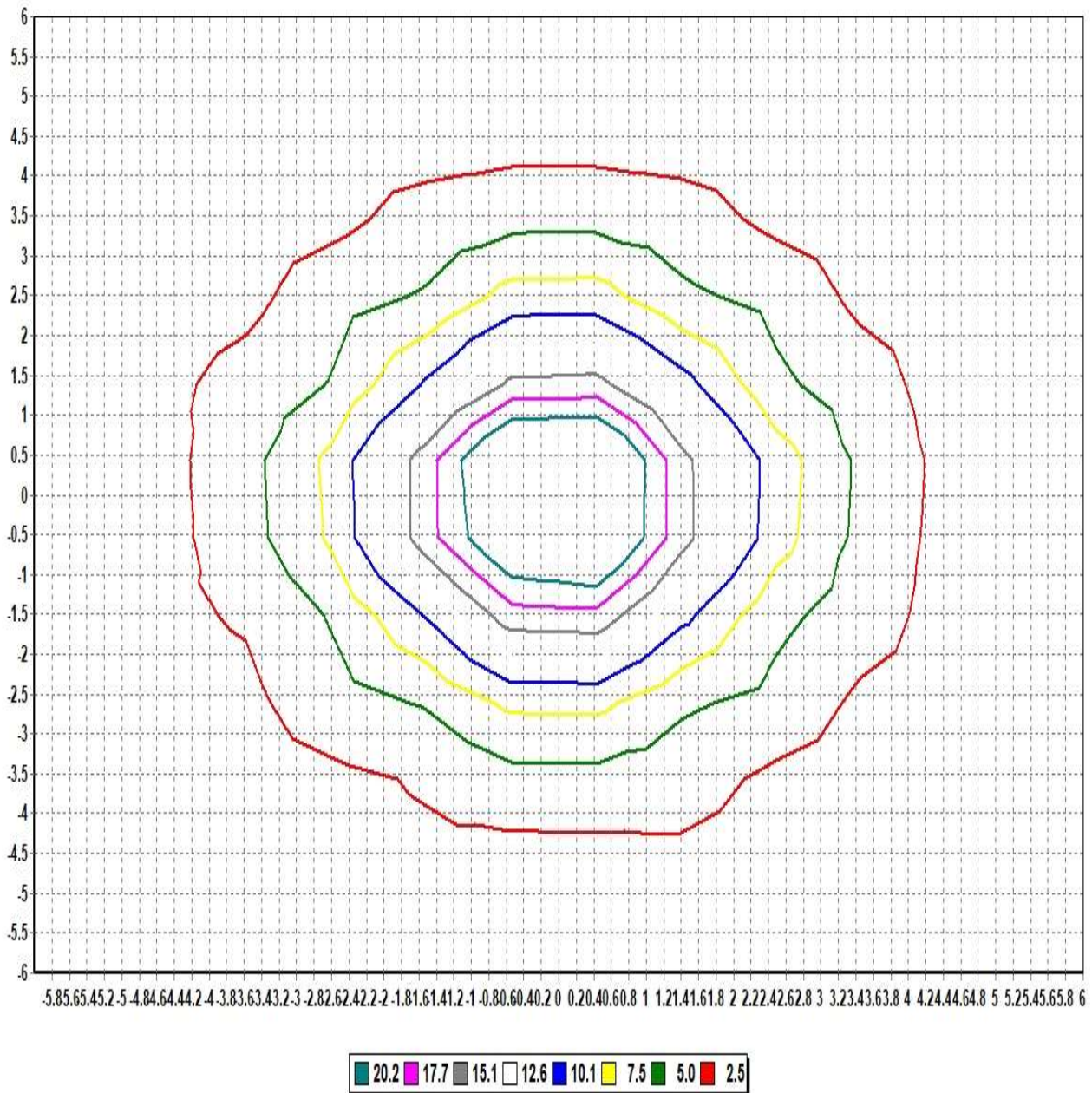
Operator

Total flux (lm) 585

Power Factor 1

Date 2024-05-10 오후 12:03:16

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.962

Filename 240510 FNN2 35K-24V-C90-1M.jdt

Lamp flux (lm) 585

Current (A) 0.28819

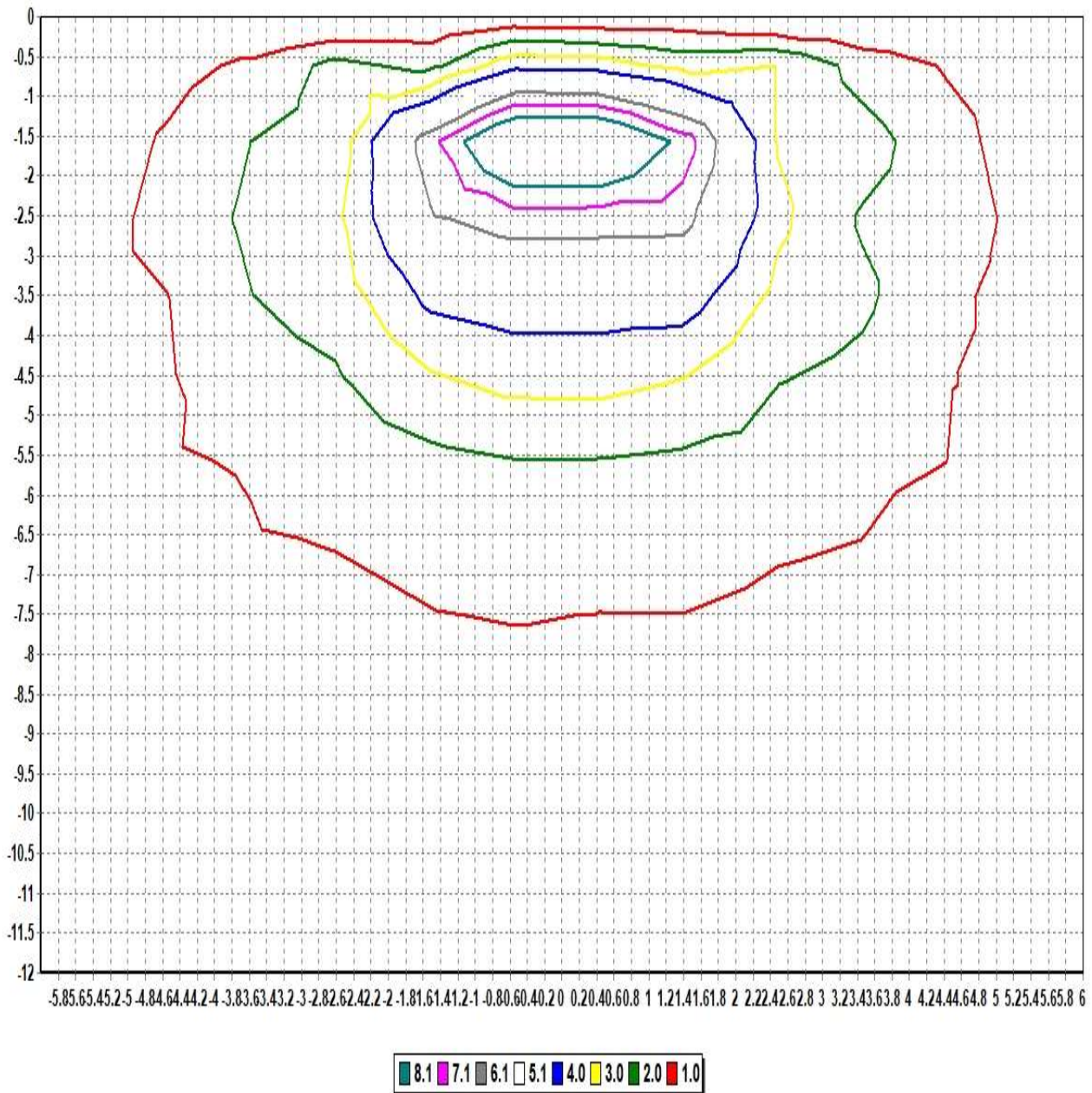
Operator

Total flux (lm) 585

Power Factor 1

Date 2024-05-10 오후 12:03:16

## 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 KH FEELUX

Lamp

|                 |     |              |         |
|-----------------|-----|--------------|---------|
| No. of lamps    | 1   | Voltage (V)  | 23.962  |
| Lamp flux (lm)  | 585 | Current (A)  | 0.28819 |
| Total flux (lm) | 585 | Power Factor | 1       |

Report

KH FEELUX

Filename 240510 FNN2 35K-24V-C90-1M.jdt

Operator

Date 2024-05-10 오후 12:03:16

## Illuminance Levels (Ground)

|       |       |       |       |       |       |       |       |       |       |      |      |      |      |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 6.00  | 0.29  | 0.39  | 0.30  | 0.41  | 0.51  | 0.57  | 0.60  | 0.57  | 0.50  | 0.40 | 0.30 | 0.39 | 0.29 |
| 5.00  | 0.39  | 0.33  | 0.48  | 0.67  | 1.30  | 1.52  | 1.62  | 1.52  | 1.30  | 0.67 | 0.48 | 0.33 | 0.39 |
| 4.00  | 0.31  | 0.49  | 1.11  | 1.62  | 1.67  | 2.11  | 2.31  | 2.11  | 1.65  | 1.62 | 1.12 | 0.49 | 0.31 |
| 3.00  | 0.41  | 0.68  | 1.63  | 1.95  | 3.98  | 4.40  | 4.96  | 4.39  | 3.99  | 1.96 | 1.64 | 0.69 | 0.40 |
| 2.00  | 0.51  | 1.30  | 1.67  | 4.01  | 5.70  | 9.13  | 10.83 | 9.10  | 5.72  | 4.01 | 1.65 | 1.30 | 0.50 |
| 1.00  | 0.65  | 1.61  | 2.24  | 4.41  | 9.13  | 16.53 | 22.65 | 16.57 | 9.10  | 4.42 | 2.26 | 1.63 | 0.65 |
| 0.00  | 0.71  | 1.76  | 2.55  | 5.33  | 11.40 | 22.85 | 28.21 | 22.70 | 10.92 | 5.03 | 2.35 | 1.64 | 0.62 |
| -1.00 | 0.61  | 1.58  | 2.23  | 4.76  | 9.65  | 17.14 | 22.88 | 17.04 | 9.52  | 4.74 | 2.25 | 1.60 | 0.62 |
| -2.00 | 0.60  | 1.42  | 1.86  | 4.23  | 6.11  | 9.66  | 11.37 | 9.51  | 6.07  | 4.26 | 1.83 | 1.41 | 0.58 |
| -3.00 | 0.49  | 0.78  | 1.76  | 2.17  | 4.24  | 4.76  | 5.35  | 4.73  | 4.23  | 2.14 | 1.77 | 0.79 | 0.47 |
| -4.00 | 0.37  | 0.57  | 1.22  | 1.76  | 1.87  | 2.34  | 2.55  | 2.34  | 1.82  | 1.76 | 1.21 | 0.56 | 0.37 |
| -5.00 | 0.44  | 0.40  | 0.57  | 0.79  | 1.42  | 1.66  | 1.76  | 1.66  | 1.41  | 0.78 | 0.56 | 0.39 | 0.44 |
| -6.00 | 0.33  | 0.44  | 0.37  | 0.49  | 0.60  | 0.68  | 0.71  | 0.68  | 0.58  | 0.47 | 0.37 | 0.43 | 0.33 |
| -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.) : 28.209

Illum. (Min.) : 0.2907

Illum. (Avg.) : 3.2693

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp

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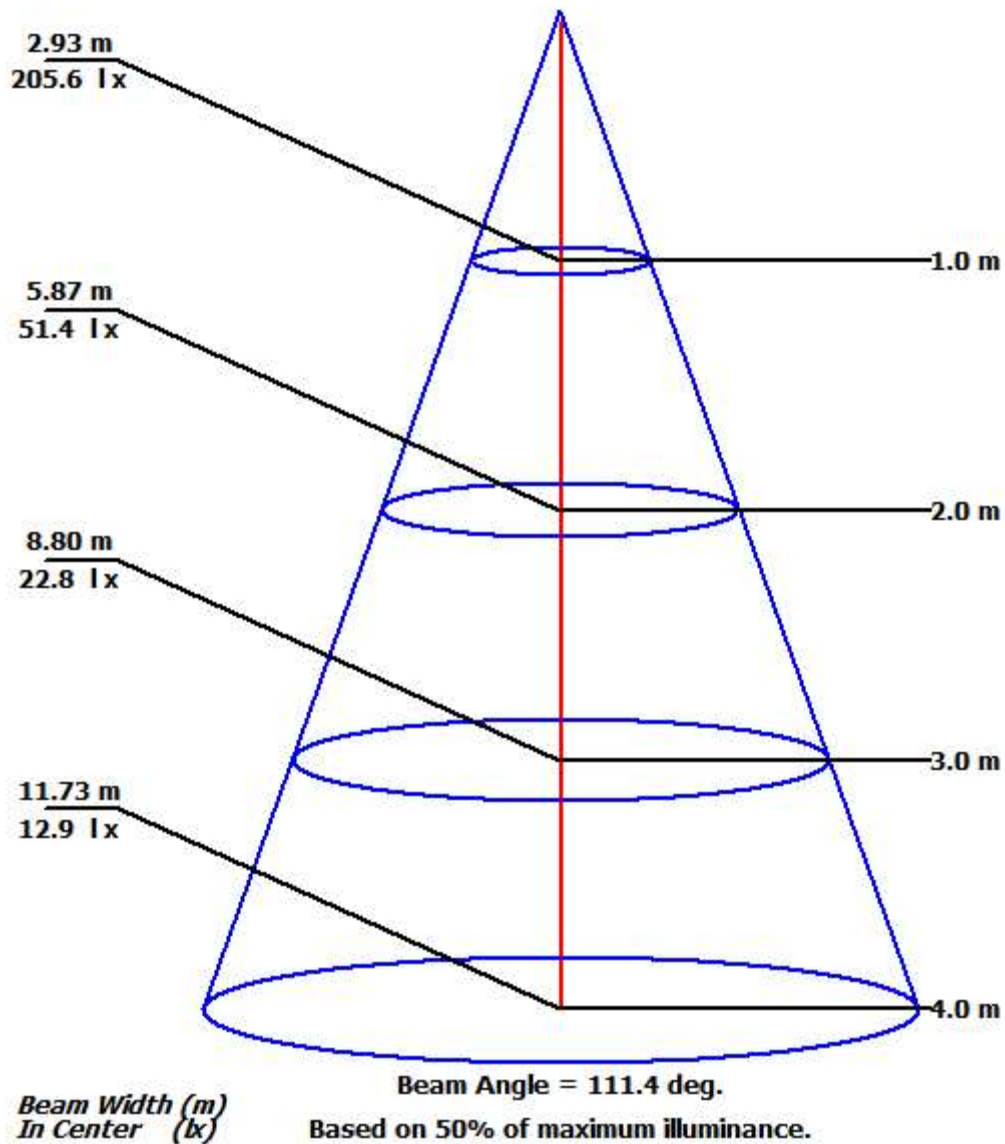
Operator

Total flux (lm) 585

Power Factor 1

Date 2024-05-10 오후 12:03:16

## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

|                 |     |              |         |
|-----------------|-----|--------------|---------|
| No. of lamps    | 1   | Voltage (V)  | 23.962  |
| Lamp flux (lm)  | 585 | Current (A)  | 0.28819 |
| Total flux (lm) | 585 | Power Factor | 1       |

Report

KH FEELUX

Filename 240510 FNN2 35K-24V-C90-1M.jdt

Operator

Date

2024-05-10 오후 12:03:16

## 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 |