

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 : 240826

2. Purpose of Report :

3. Number of Report : KH FEELUX

4. Test Standard / Item : / 240828 MCR-SP1 27K-24V-46D-BK

5. Test Period : 240828 ~ 240828

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 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 |
|---------------|-------------|---------------|---------------|
| KH FEELUX | | | |

| Test Item | Unit | Result | Notice |
|-----------------------------------|------|-----------------|--------|
| Beam Distribution Test | | See Attachement | |
| ATHD | % | 0.0 | |
| CIE 1931 Cx, Cy | | 0.4599 , 0.4101 | |
| Correlated Color Temperature | K | 2693 | |
| Ra | | 91.99 | |
| Power Factor | | 1.000 | |
| Input Voltage | V | 23.985 | |
| Input Current | A | 0.050 | |
| Input Watt | W | 1.1922 | |
| Lamp Flux | lm | 71.8 | |
| Efficient | lm/W | 60.22 | |
| luminous Intensity (Max , Center) | cd | 93 , 93 | |
| Illuminance | lx | 93 | 1 m |
| | | 23 | 2 m |
| | | 10 | 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)

23.985Filename 240828 MCR-SP1 27K-24V-46D-BK.jdt

Lamp flux (lm) 72

Current (A)

0.04971Operator

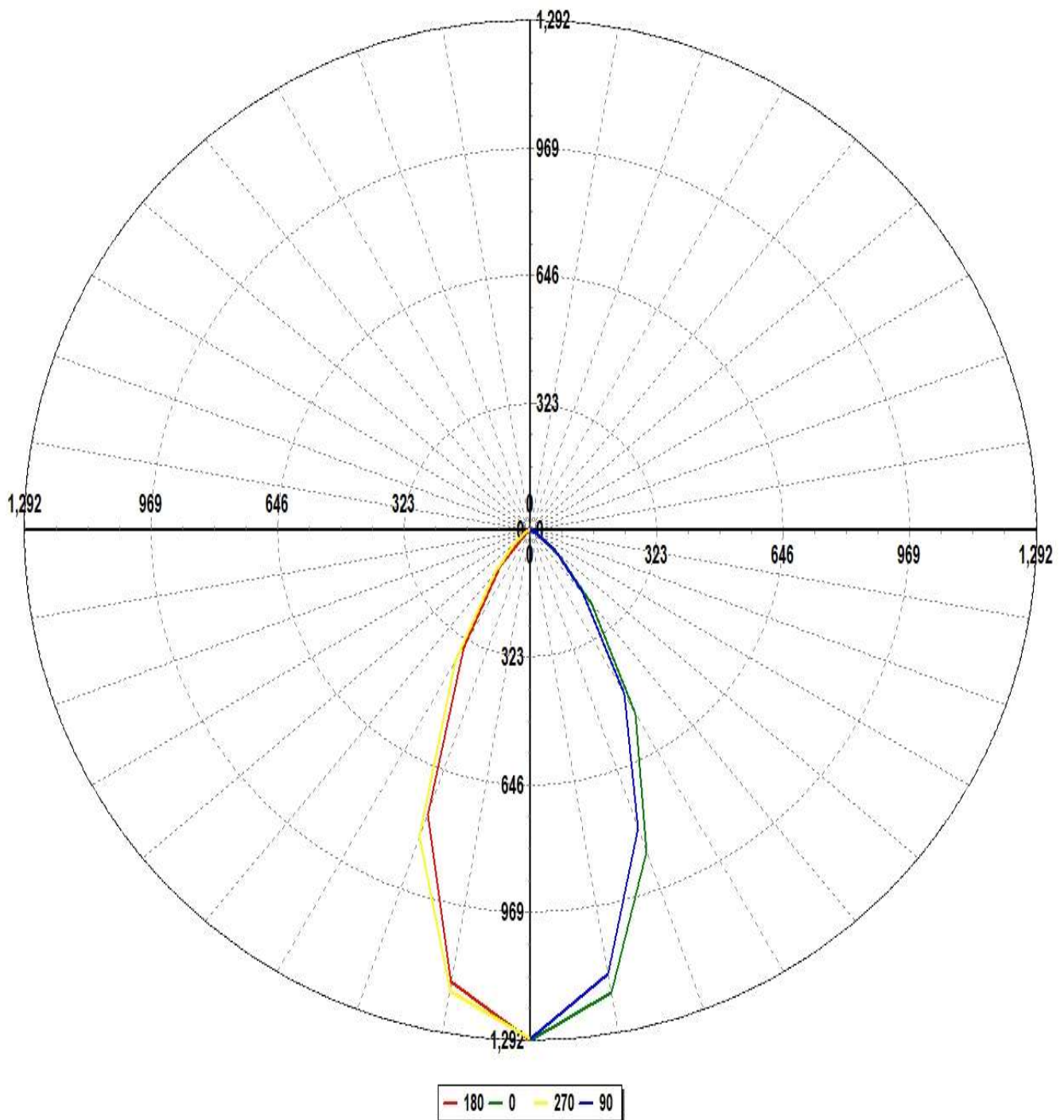
Total flux (lm) 72

Power Factor

1Date

2024-08-28 오전 9:55:44

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

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Current (A)

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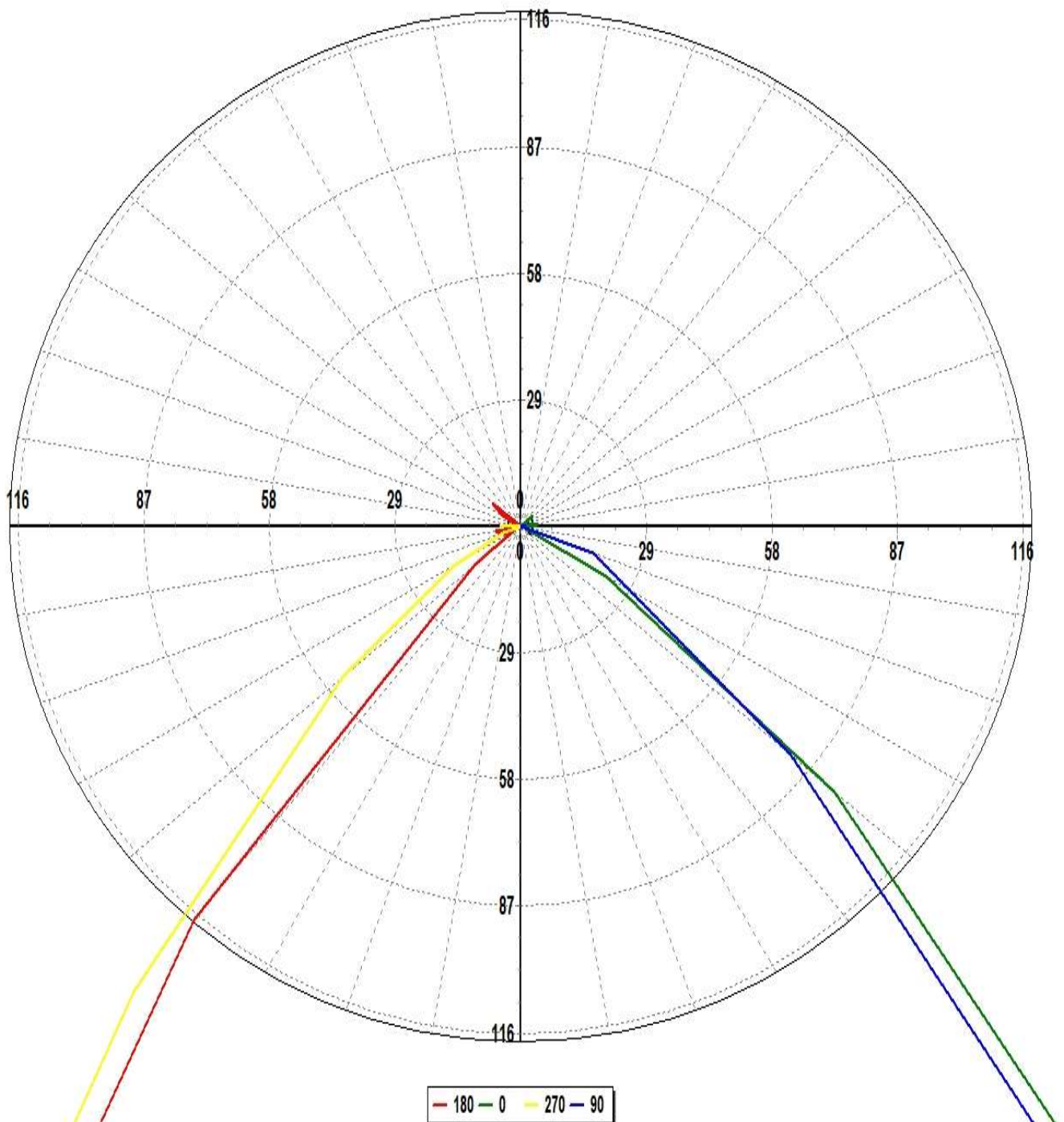
Total flux (lm) 72

Power Factor

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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

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Lamp flux (lm) 72

Current (A)

0.04971Operator

Total flux (lm) 72

Power Factor

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Luminous Intensity Data

Maximum (cd) : 93

Minimum (cd) : -1

| G/C | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 | 330 | 360 |
|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 | 92.91 | 93.48 | 92.98 | 92.68 | 93.33 | 92.03 | 92.91 | 93.48 | 92.98 | 92.68 | 93.33 | 92.03 | 92.91 |
| 10 | 85.55 | 85.85 | 84.57 | 82.03 | 81.86 | 79.51 | 83.55 | 82.59 | 80.92 | 85.07 | 89.28 | 91.82 | 85.55 |
| 20 | 62.25 | 60.07 | 57.93 | 57.8 | 56.32 | 51.85 | 55.16 | 51.89 | 51.86 | 59.47 | 65.7 | 70.95 | 62.25 |
| 30 | 38.69 | 38.71 | 36.79 | 34.33 | 30.23 | 23.62 | 24.56 | 22.34 | 21.81 | 27.59 | 35.36 | 43.83 | 38.69 |
| 40 | 17.61 | 18.73 | 19.18 | 14.78 | 11.21 | 8.03 | 8.43 | 7.47 | 7.92 | 9.97 | 13.51 | 18.7 | 17.61 |
| 50 | 6.79 | 7.5 | 6.75 | 5.84 | 4.04 | 0.55 | 1 | 0.99 | 2.93 | 3.85 | 4.87 | 6.84 | 6.79 |
| 60 | 1.64 | 2.78 | 1.81 | 2.02 | 1.41 | 0.2 | 0.15 | -0.14 | 0.99 | 1.28 | 1.4 | 2.7 | 1.64 |
| 70 | 0.08 | 0.12 | 1.2 | 1.28 | -0.39 | 0.69 | 0.35 | 0.39 | -0.52 | 0.3 | 0.81 | -0.11 | 0.08 |
| 80 | -0.73 | 0.05 | -0.31 | -0.13 | 0.34 | 0.08 | 0.42 | 0.08 | -0.02 | -0.06 | 0.17 | -0.01 | -0.73 |
| 90 | 0.24 | 0.12 | -0.02 | 0.09 | 0.07 | -0.06 | -0.19 | -0.54 | -0.98 | 0.35 | 0.38 | 0.26 | 0.24 |
| 100 | 0.3 | 0.11 | 0 | -0.16 | -0.12 | 0.04 | -0.21 | 0.25 | 0.31 | -0.66 | 0.26 | -0.07 | 0.3 |
| 110 | -0.2 | 0.09 | 0.06 | -0.44 | 0.06 | -0.37 | -0.13 | -0.38 | 0.65 | 0.02 | 0.66 | 0.33 | -0.2 |
| 120 | -0.41 | 0.22 | 0.37 | -0.14 | -0.15 | -0.01 | 0.35 | -0.43 | -0.33 | -0.25 | -0.16 | -0.1 | -0.41 |
| 130 | 0.27 | 0.02 | 0.72 | -0.34 | 0.38 | 0.84 | 0.61 | -0.13 | 0.22 | -0.34 | 0.33 | 0.03 | 0.27 |

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

| | | | | | |
|-----------------|----|--------------|---------|----------|-----------------------------------|
| No. of lamps | 1 | Voltage (V) | 23.985 | Filename | 240828 MCR-SP1 27K-24V-46D-BK.jdt |
| Lamp flux (lm) | 72 | Current (A) | 0.04971 | Operator | |
| Total flux (lm) | 72 | Power Factor | 1 | Date | 2024-08-28 오전 9:55:44 |

Luminous Flux Table

Total Lamp Lumens: 71.816

Luminaire Efficiency (lm/W): 60.24

CIE Classification: Direct

| Elevation | Lumens | Cumulative | Lamp % | Luminaire % |
|-----------|--------|------------|--------|-------------|
| 0 | 2.22 | 2.22 | 3.09 | 3.09 |
| 10 | 16.05 | 18.27 | 25.45 | 25.44 |
| 20 | 21.89 | 40.16 | 55.93 | 55.92 |
| 30 | 17.24 | 57.40 | 79.95 | 79.93 |
| 40 | 9.13 | 66.53 | 92.66 | 92.64 |
| 50 | 3.63 | 70.16 | 97.72 | 97.70 |
| 60 | 1.28 | 71.44 | 99.50 | 99.48 |
| 70 | 0.36 | 71.80 | 100.01 | 99.98 |
| 80 | -0.01 | 71.79 | 99.99 | 99.97 |
| 90 | -0.02 | 71.77 | 99.96 | 99.93 |
| 100 | 0.01 | 71.77 | 99.96 | 99.94 |
| 110 | 0.03 | 71.80 | 100.00 | 99.98 |
| 120 | -0.08 | 71.72 | 99.89 | 99.87 |
| 130 | 0.09 | 71.82 | 100.02 | 100.00 |

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23.985Filename 240828 MCR-SP1 27K-24V-46D-BK.jdt

Lamp flux (lm) 72

Current (A)

0.04971Operator

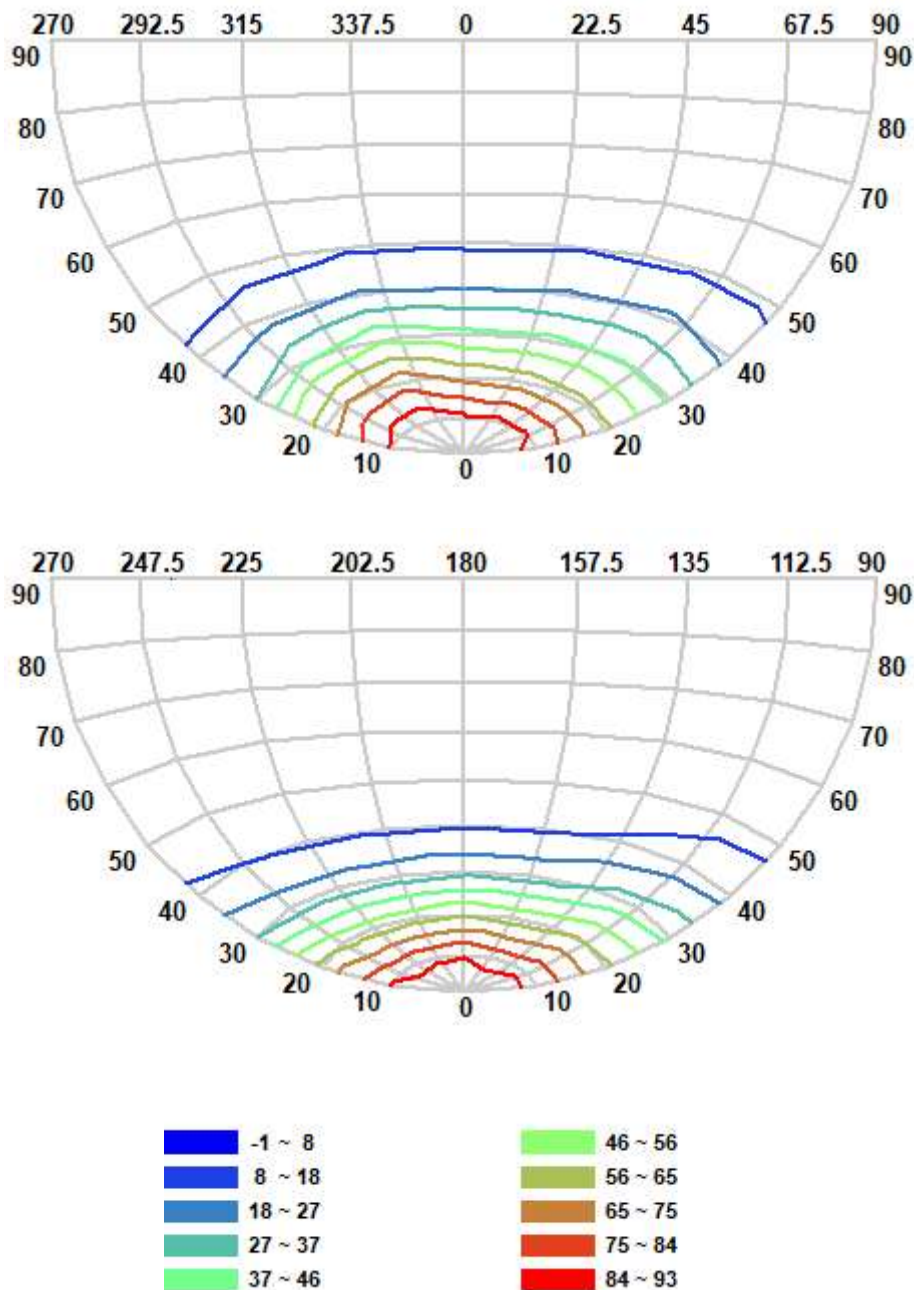
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IsoCandela (Type C)



Luminaire KH FEELUX

Lamp

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KH FEELUX

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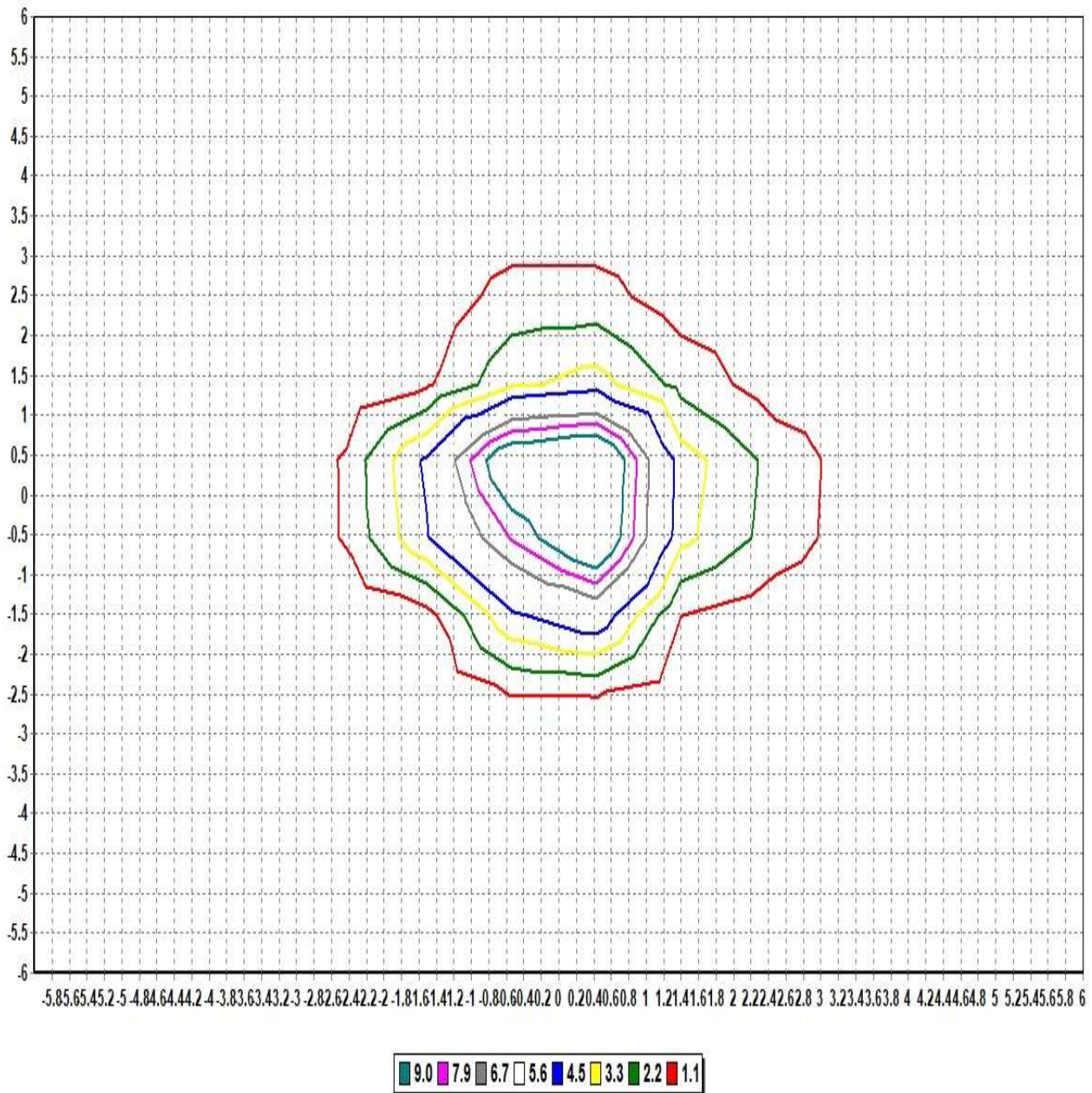
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Power Factor

1Date

2024-08-28 오전 9:55:44

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

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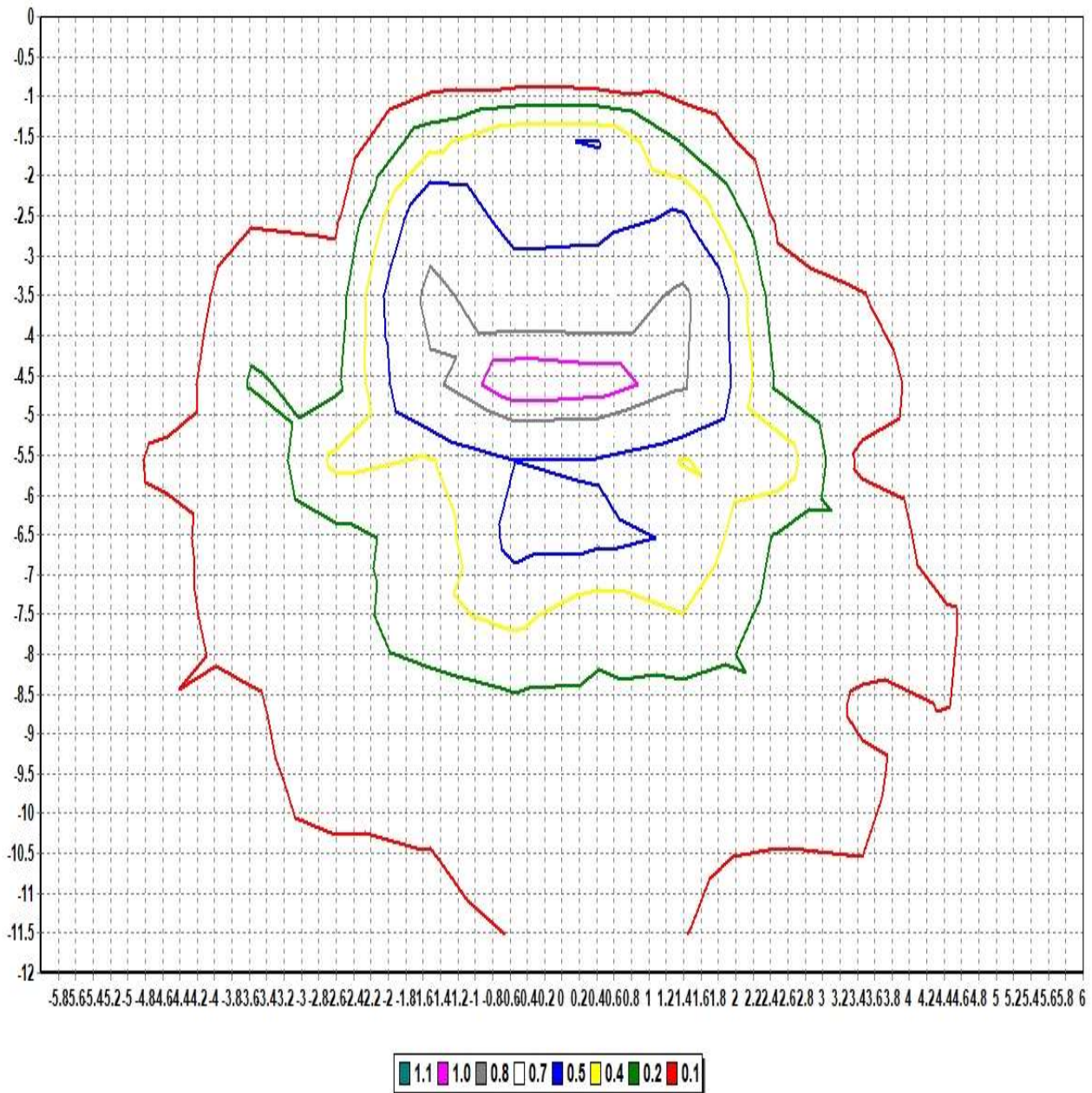
Total flux (lm) 72

Power Factor

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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

| | | | |
|-----------------|----|--------------|---------|
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Report

KH FEELUX

Filename 240828 MCR-SP1 27K-24V-46D-BK.jdt

Operator

Date

2024-08-28 오전 9:55:44

Illuminance Levels (Ground)

| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|------|-------|------|------|------|------|------|------|
| 6.00 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |
| 5.00 | 0.00 | 0.00 | 0.01 | 0.02 | 0.04 | 0.08 | 0.08 | 0.07 | 0.07 | 0.02 | 0.01 | 0.00 | 0.01 |
| 4.00 | 0.00 | 0.00 | 0.04 | 0.07 | 0.03 | 0.08 | 0.09 | 0.07 | 0.06 | 0.09 | 0.05 | 0.01 | 0.00 |
| 3.00 | 0.00 | 0.00 | 0.02 | 0.05 | 0.34 | 0.19 | 0.31 | 0.29 | 0.45 | 0.07 | 0.09 | 0.01 | 0.00 |
| 2.00 | 0.00 | 0.03 | 0.03 | 0.18 | 0.36 | 0.77 | 1.53 | 1.22 | 0.51 | 0.42 | 0.06 | 0.07 | 0.01 |
| 1.00 | 0.00 | 0.01 | 0.01 | 0.11 | 0.72 | 3.63 | 9.19 | 4.19 | 1.21 | 0.29 | 0.08 | 0.08 | 0.01 |
| 0.00 | 0.00 | 0.01 | 0.01 | 0.10 | 1.00 | 9.35 | 12.74 | 9.59 | 1.77 | 0.37 | 0.09 | 0.09 | 0.01 |
| -1.00 | 0.00 | 0.01 | 0.01 | 0.05 | 0.51 | 2.91 | 9.53 | 3.70 | 0.94 | 0.23 | 0.08 | 0.08 | 0.01 |
| -2.00 | 0.00 | 0.01 | 0.00 | 0.18 | 0.16 | 0.51 | 1.15 | 0.87 | 0.32 | 0.43 | 0.04 | 0.05 | 0.01 |
| -3.00 | 0.00 | 0.00 | 0.01 | 0.01 | 0.18 | 0.08 | 0.21 | 0.18 | 0.25 | 0.04 | 0.08 | 0.01 | 0.01 |
| -4.00 | 0.00 | 0.00 | 0.01 | 0.03 | 0.00 | 0.04 | 0.06 | 0.04 | 0.03 | 0.05 | 0.03 | 0.01 | 0.00 |
| -5.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.04 | 0.05 | 0.04 | 0.04 | 0.01 | 0.01 | 0.00 | 0.01 |
| -6.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.00 | 0.01 | 0.00 |
| -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.) : 12.744

Illum. (Min.) : -0.0020

Illum. (Avg.) : 0.5103

All illuminance level values are in lux.



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Lamp

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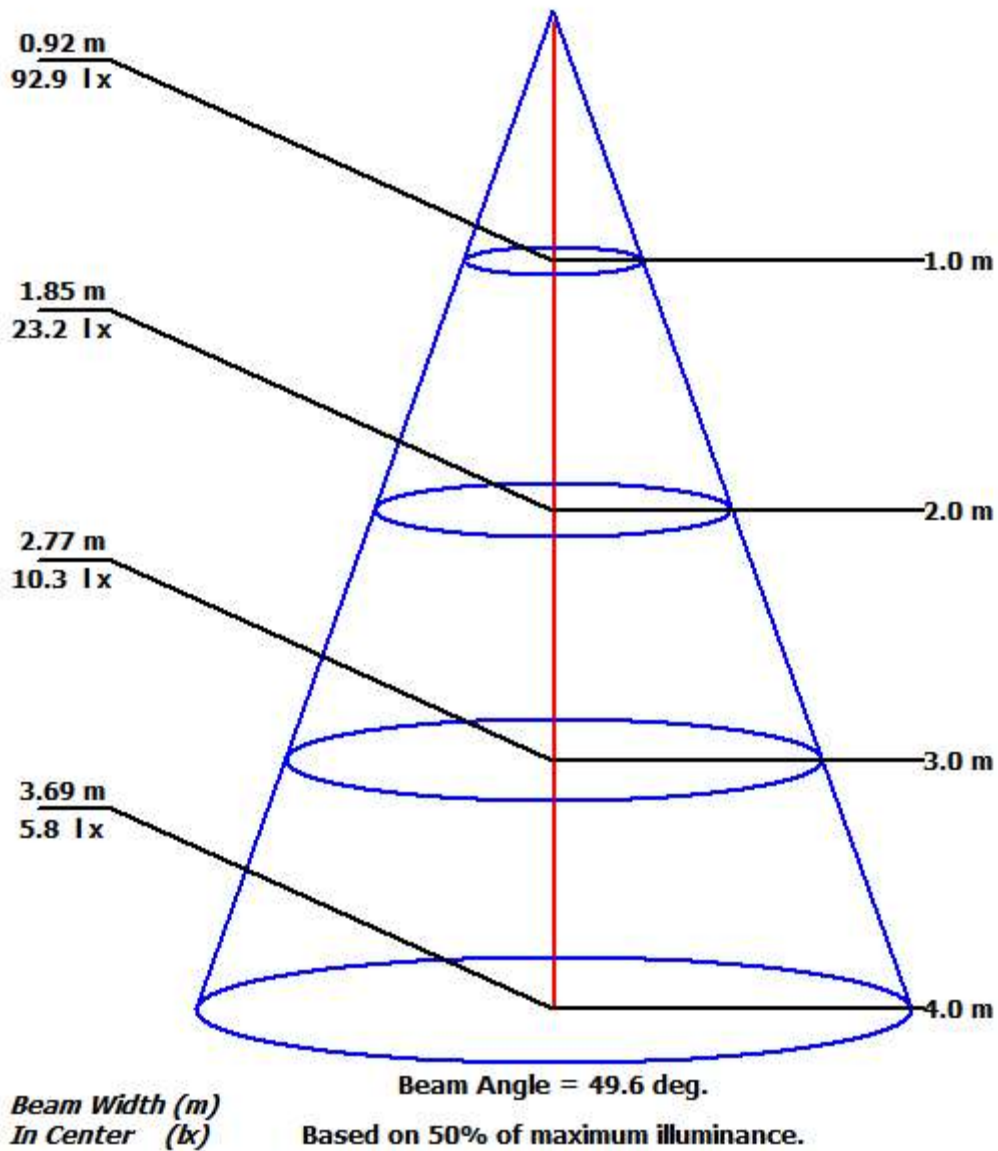
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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

| | | | |
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KH FEELUX

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Operator

Date

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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 |