

TEST REPORT

1. Applicant

* Client Name : KH-FEELUX Co. Ltd.
* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-si Gyeonggi-do 482-844 Korea
* Date of Receipt : 220120

2. Purpose of Report :**3. Number of Report :** 220120**4. Test Standard / Item :** / FTS10 40K-24V-C90-1M**5. Test Period :** 220120 ~ 220120**6. Test Environment**

* Ambient Temp. : 23.0 +- 3 °C
* Relative Humidity : 25.0 +- 10 % RH

7. Test Item

* Name of Product :
* Rating :
* Model :

8. Test Result : Refer to the attachment

| Confirmation | Test by | | Technical manager | |
|--------------|---------|------|-------------------|------|
| | YKI | Sign | YKI | 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 |
|---------------|-------------|---------------|---------------|
| 220120 | | | |

| Test Item | Unit | Result | Notice |
|-----------------------------------|------|-----------------|--------|
| Beam Distribution Test | | See Attachement | |
| ATHD | % | 0.0 | |
| CIE 1931 Cx, Cy | | 0.3791 , 0.3666 | |
| Correlated Color Temperature | K | 3966 | |
| Ra | | 93.5 | |
| Power Factor | | 1.000 | |
| Input Voltage | V | 23.951 | |
| Input Current | A | 0.400 | |
| Input Watt | W | 9.574 | |
| Lamp Flux | lm | 958.3 | |
| Efficient | lm/W | 100.10 | |
| luminous Intensity (Max , Center) | cd | 343 , 342 | |
| Illuminance | lx | 342 | 1 m |
| | | 86 | 2 m |
| | | 38 | 3 m |

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

220120

No. of lamps 1

Voltage (V) 23.951

Filename FTS10 40K-24V-C90-1M.jdt

Lamp flux (lm) 958

Current (A) 0.39972

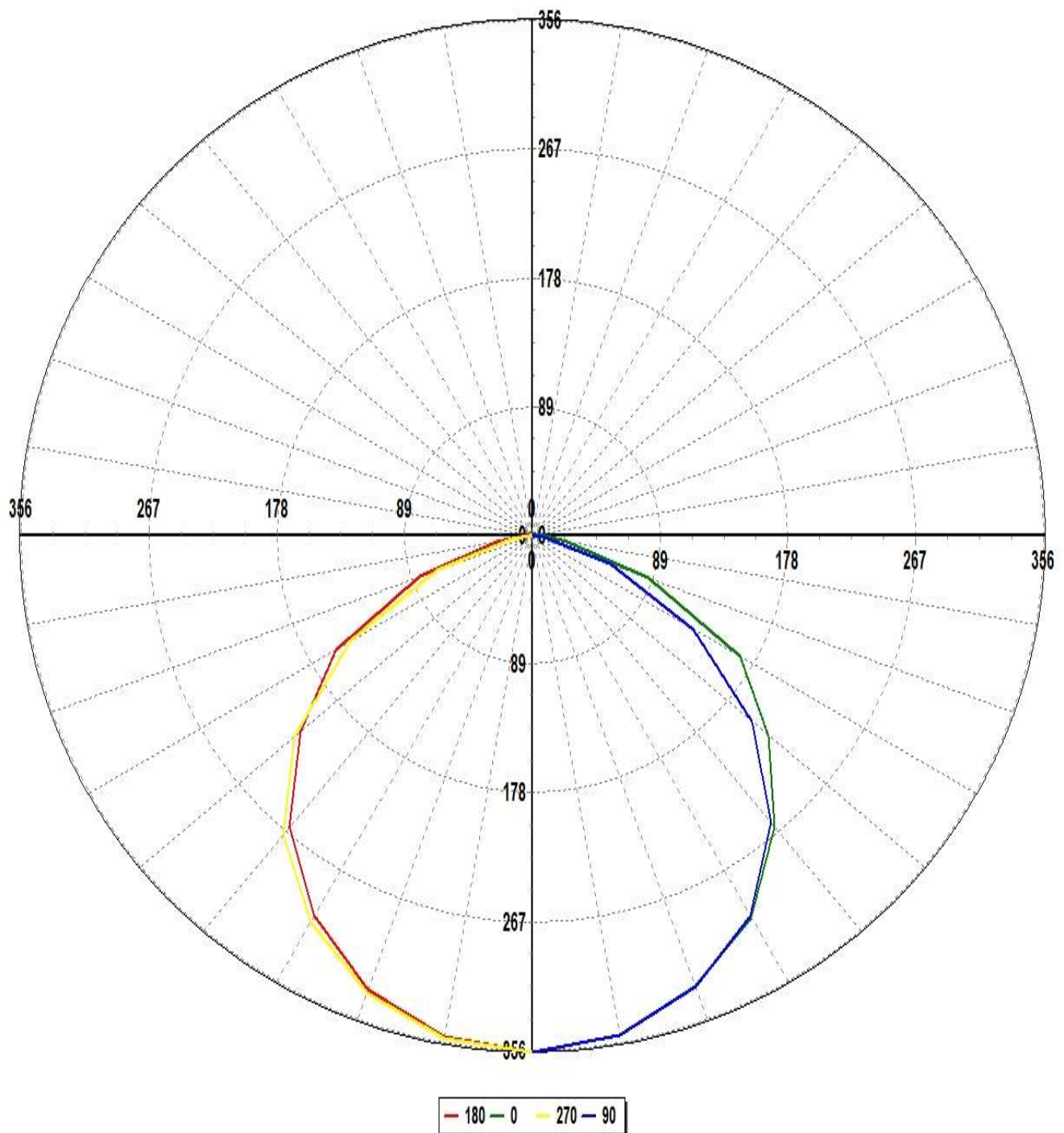
Operator YKI

Total flux (lm) 958

Power Factor 1

Date 2022-01-20 오후 5:50:10

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

220120

No. of lamps 1

Voltage (V) 23.951

Filename FTS10 40K-24V-C90-1M.jdt

Lamp flux (lm) 958

Current (A) 0.39972

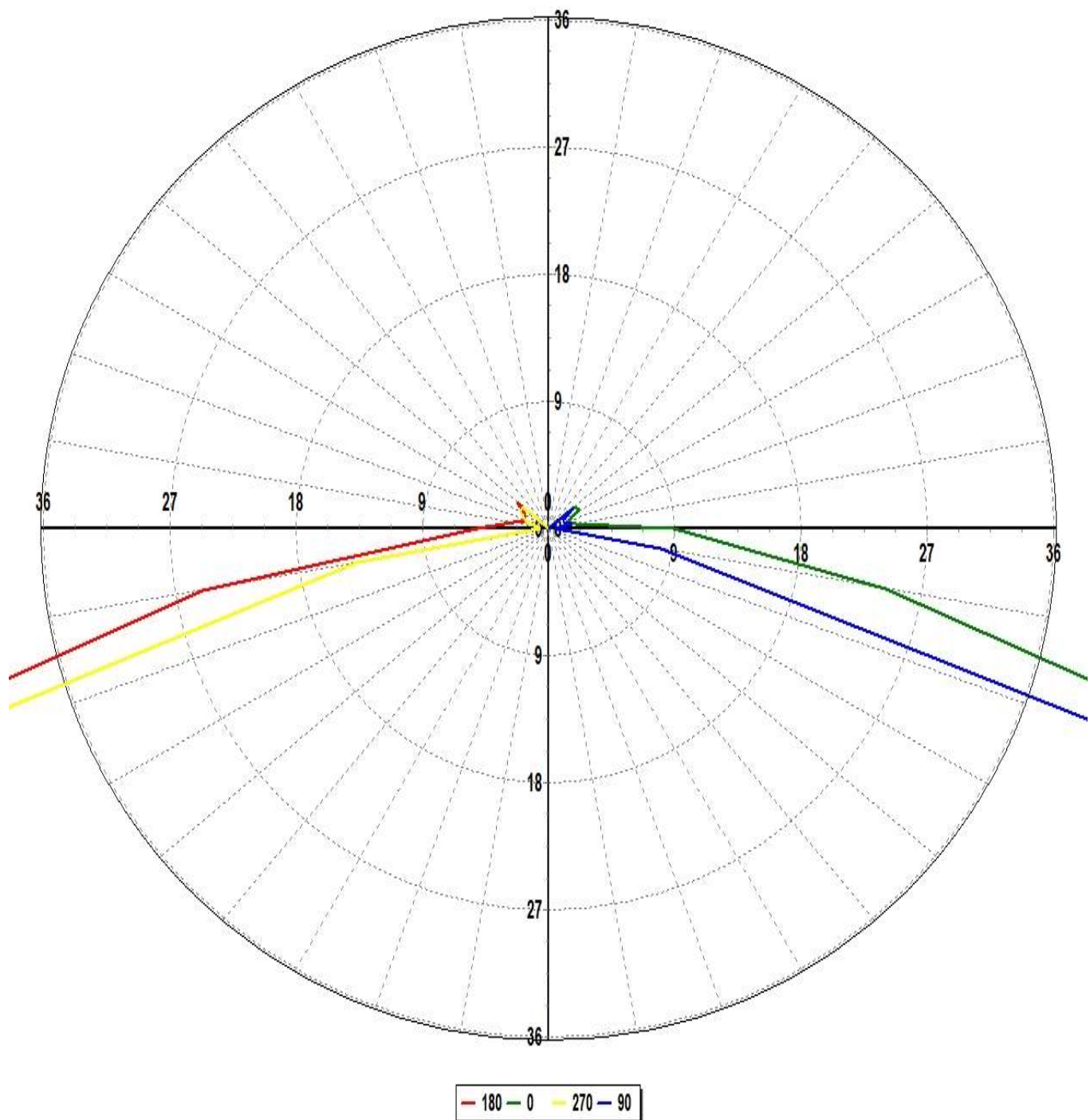
Operator YKI

Total flux (lm) 958

Power Factor 1

Date 2022-01-20 오후 5:50:10

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

220120

No. of lamps 1

Voltage (V) 23.951

Filename FTS10 40K-24V-C90-1M.jdt

Lamp flux (lm) 958

Current (A) 0.39972

Operator YKI

Total flux (lm) 958

Power Factor 1

Date 2022-01-20 오후 5:50:10

Luminous Intensity Data

Maximum (cd) : 343

Minimum (cd) : 0

| G/C | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 342.43 | 341.07 | 342.63 | 342.32 | 340.84 | 342.27 | 342.43 | 341.07 | 342.63 | 342.32 | 340.84 |
| 10 | 336.53 | 337.28 | 336.31 | 336.57 | 336.6 | 335.74 | 337.55 | 337 | 337.19 | 337.85 | 337.18 |
| 20 | 317.99 | 317.99 | 318.51 | 318.4 | 320.11 | 318.18 | 320.55 | 321.94 | 321.49 | 322.15 | 322.95 |
| 30 | 292.47 | 290.93 | 290.65 | 291.39 | 290.68 | 289.01 | 290.85 | 293.15 | 294.33 | 295.89 | 294.5 |
| 40 | 251.6 | 251.51 | 252.47 | 248.18 | 251.53 | 248.27 | 252.33 | 254.98 | 254.8 | 258.42 | 257.09 |
| 50 | 205.86 | 203.07 | 203.15 | 191.69 | 200.3 | 196.74 | 201.73 | 204.19 | 206.06 | 207.07 | 208.65 |
| 60 | 159.89 | 152.32 | 144.27 | 124.03 | 139.03 | 141.5 | 151.22 | 149.53 | 146.47 | 140.04 | 151.12 |
| 70 | 82.51 | 84.16 | 79.78 | 55.54 | 73.87 | 74.41 | 79.94 | 82.88 | 81.52 | 67.87 | 87.66 |
| 80 | 23.38 | 24.08 | 26.37 | 7.79 | 22.13 | 21.17 | 24.02 | 25.9 | 27.93 | 13.31 | 32.07 |
| 90 | 8.51 | 8.14 | 5.1 | 0.46 | 3.64 | 4.27 | 4.88 | 3.47 | 2.97 | 0.57 | 6.28 |
| 100 | 1.87 | 1.26 | 1.28 | 1.58 | 1.31 | 3.61 | 2.45 | 4.34 | 2.02 | 1.04 | 1.91 |
| 110 | 1.29 | 1.7 | 1.67 | 1.09 | 1.58 | 1.98 | 1.66 | 2.19 | 2.08 | 1.67 | 1.36 |
| 120 | 2.46 | 1.51 | 2.2 | 1.25 | 2.52 | 2.47 | 1.8 | 2.18 | 1.6 | 2.23 | 1.83 |
| 130 | 2.26 | 2.8 | 2.23 | 2.19 | 2.33 | 2.24 | 2.84 | 1.88 | 1.8 | 2.29 | 2.72 |

Luminaire KH FEELUX

Lamp

Report 220120

No. of lamps 1

Voltage (V) 23.951

Filename FTS10 40K-24V-C90-1M.jdt

Lamp flux (lm) 958

Current (A) 0.39972

Operator YKI

Total flux (lm) 958

Power Factor 1

Date 2022-01-20 오후 5:50:10

Luminous Intensity Data (Continued)

Maximum (cd) : 343

Minimum (cd) : 0

| G/C | 330 | 360 |
|-----|--------|--------|
| 0 | 342.27 | 342.43 |
| 10 | 338.55 | 336.53 |
| 20 | 321.82 | 317.99 |
| 30 | 297.12 | 292.47 |
| 40 | 257.38 | 251.6 |
| 50 | 210.85 | 205.86 |
| 60 | 159.5 | 159.89 |
| 70 | 94.95 | 82.51 |
| 80 | 29.74 | 23.38 |
| 90 | 8.99 | 8.51 |
| 100 | 1.97 | 1.87 |
| 110 | 1.09 | 1.29 |
| 120 | 2.09 | 2.46 |
| 130 | 2.87 | 2.26 |

Luminaire KH FEELUX

Lamp

Report

220120

No. of lamps 1

Voltage (V) 23.951

Filename FTS10 40K-24V-C90-1M.jdt

Lamp flux (lm) 958

Current (A) 0.39972

Operator YKI

Total flux (lm) 958

Power Factor 1

Date 2022-01-20 오후 5:50:10

Luminous Flux Table

Total Lamp Lumens: 958.35

Luminaire Efficiency (lm/W): 100.10

CIE Classification: Direct

| Elevation | Lumens | Cumulative | Lamp % | Luminaire % |
|-----------|--------|------------|--------|-------------|
| 0 | 8.18 | 8.18 | 0.85 | 0.85 |
| 10 | 64.10 | 72.27 | 7.54 | 7.54 |
| 20 | 119.93 | 192.21 | 20.06 | 20.06 |
| 30 | 160.22 | 352.43 | 36.78 | 36.77 |
| 40 | 178.26 | 530.69 | 55.38 | 55.38 |
| 50 | 170.55 | 701.24 | 73.18 | 73.17 |
| 60 | 139.03 | 840.27 | 87.68 | 87.68 |
| 70 | 81.06 | 921.33 | 96.14 | 96.14 |
| 80 | 24.98 | 946.31 | 98.75 | 98.74 |
| 90 | 5.23 | 951.54 | 99.29 | 99.29 |
| 100 | 2.22 | 953.75 | 99.53 | 99.52 |
| 110 | 1.66 | 955.41 | 99.70 | 99.69 |
| 120 | 1.91 | 957.32 | 99.90 | 99.89 |
| 130 | 1.03 | 958.35 | 100.01 | 100.00 |

Luminaire KH FEELUX

Lamp

Report

220120

No. of lamps 1

Voltage (V) 23.951

Filename FTS10 40K-24V-C90-1M.jdt

Lamp flux (lm) 958

Current (A) 0.39972

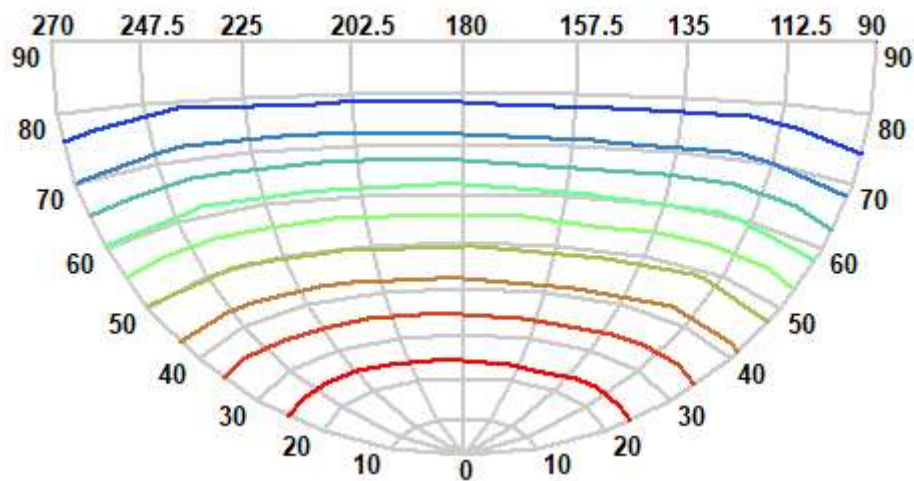
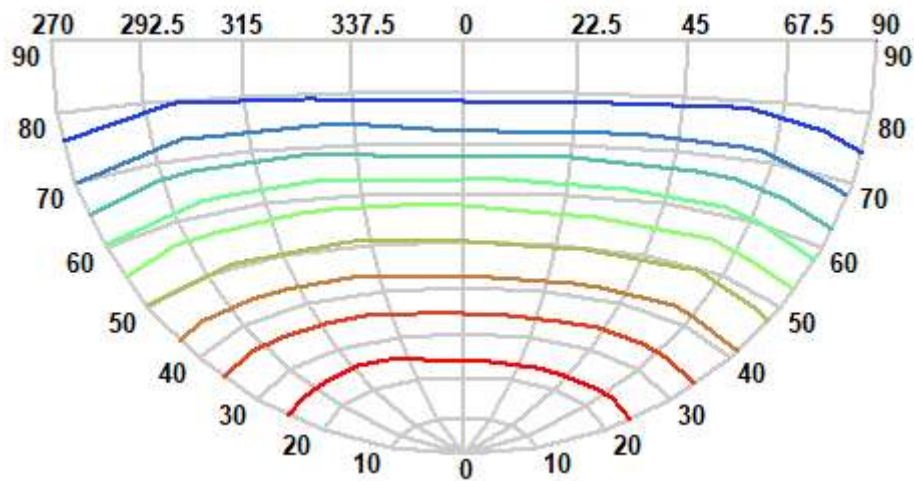
Operator YKI

Total flux (lm) 958

Power Factor 1

Date 2022-01-20 오후 5:50:10

IsoCandela (Type C)



Luminaire KH FEELUX

Lamp

Report

220120

No. of lamps 1

Voltage (V) 23.951

Filename FTS10 40K-24V-C90-1M.jdt

Lamp flux (lm) 958

Current (A) 0.39972

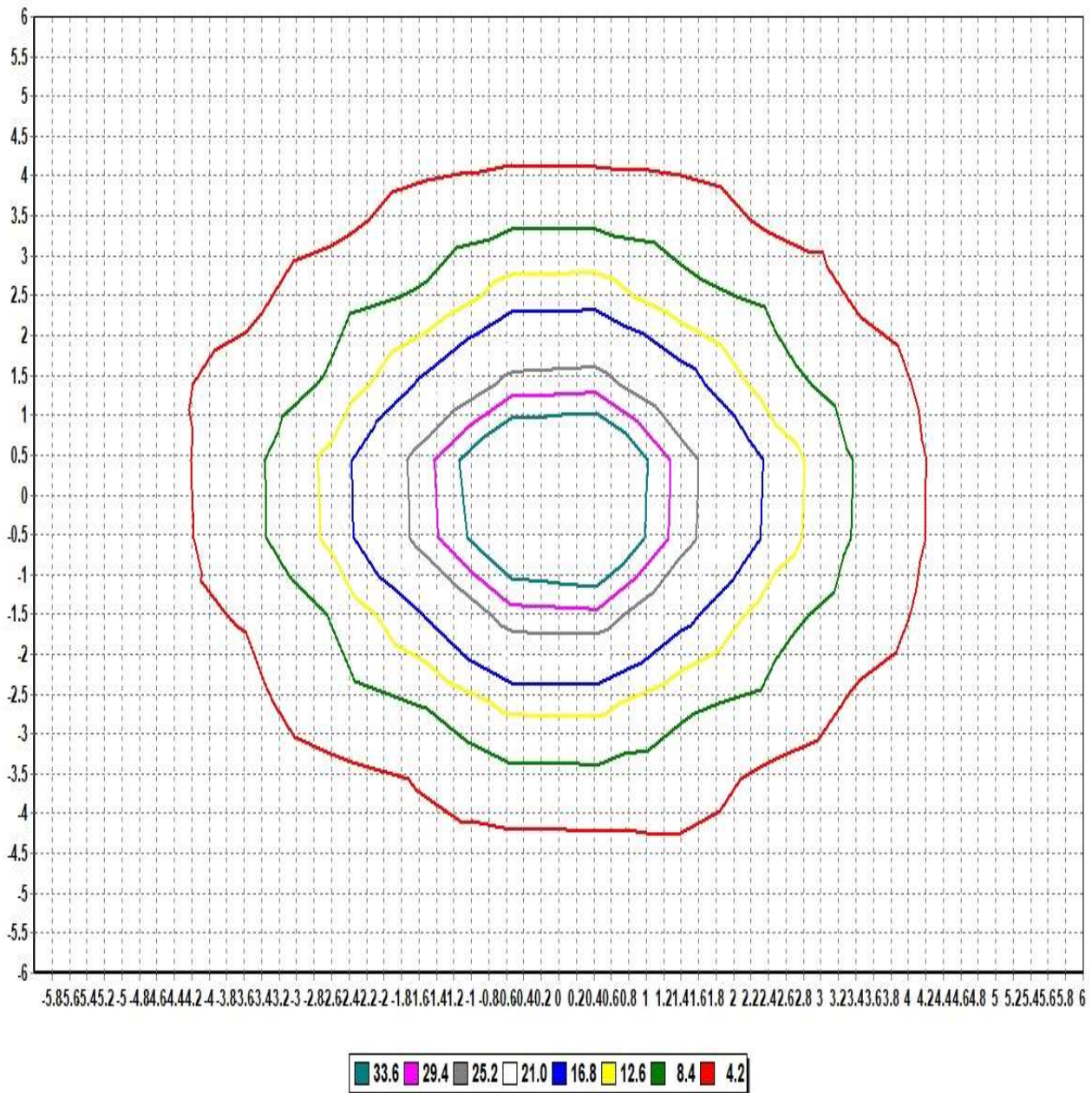
Operator YKI

Total flux (lm) 958

Power Factor 1

Date 2022-01-20 오후 5:50:10

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

220120

No. of lamps 1

Voltage (V) 23.951

Filename FTS10 40K-24V-C90-1M.jdt

Lamp flux (lm) 958

Current (A) 0.39972

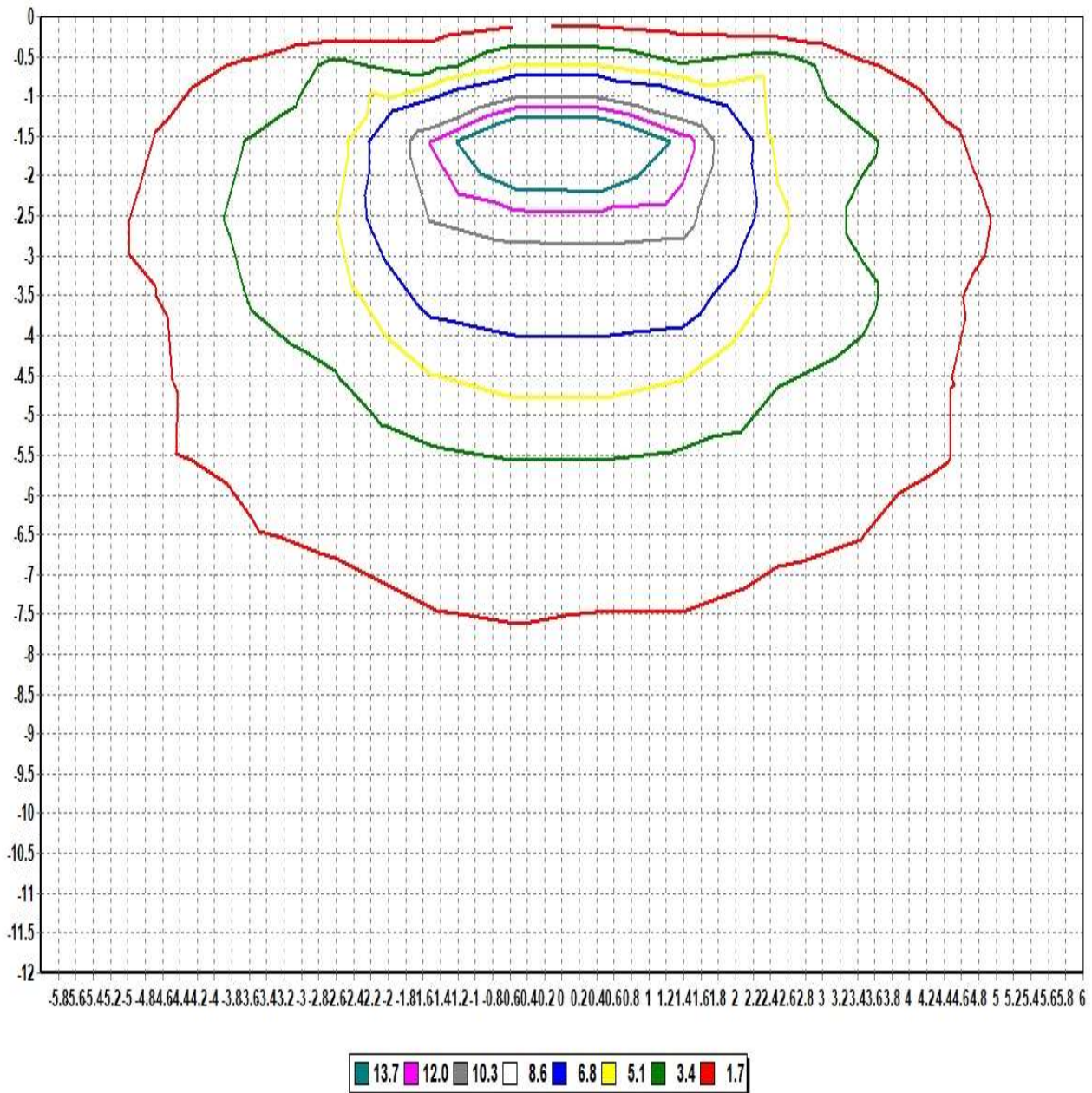
Operator YKI

Total flux (lm) 958

Power Factor 1

Date 2022-01-20 오후 5:50:10

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) | 23.951 |
| Lamp flux (lm) | 958 | Current (A) | 0.39972 |
| Total flux (lm) | 958 | Power Factor | 1 |

| | |
|----------|--------------------------|
| Report | 220120 |
| Filename | FTS10 40K-24V-C90-1M.jdt |
| Operator | YKI |
| Date | 2022-01-20 오후 5:50:10 |

Illuminance Levels (Ground)

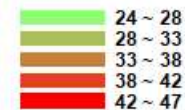
| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|
| 6.00 | 0.44 | 0.59 | 0.36 | 0.60 | 0.73 | 0.90 | 0.80 | 0.82 | 0.86 | 0.69 | 0.50 | 0.67 | 0.53 |
| 5.00 | 0.64 | 0.44 | 0.65 | 0.91 | 2.18 | 2.61 | 2.66 | 2.57 | 2.29 | 1.13 | 0.80 | 0.56 | 0.72 |
| 4.00 | 0.46 | 0.75 | 1.83 | 2.69 | 2.73 | 3.50 | 3.63 | 3.47 | 2.98 | 2.85 | 2.00 | 0.84 | 0.51 |
| 3.00 | 0.62 | 1.09 | 2.77 | 3.13 | 6.82 | 7.50 | 8.33 | 7.72 | 6.99 | 3.57 | 2.91 | 1.22 | 0.69 |
| 2.00 | 0.79 | 2.21 | 2.77 | 6.86 | 9.74 | 15.83 | 18.73 | 15.86 | 10.01 | 7.00 | 3.01 | 2.31 | 0.88 |
| 1.00 | 0.97 | 2.66 | 3.69 | 7.57 | 15.83 | 28.39 | 38.01 | 28.41 | 15.85 | 7.75 | 3.96 | 2.79 | 1.08 |
| 0.00 | 1.04 | 2.85 | 4.12 | 8.70 | 18.91 | 38.12 | 46.97 | 38.00 | 18.92 | 8.83 | 4.28 | 2.92 | 1.09 |
| -1.00 | 0.94 | 2.63 | 3.68 | 7.73 | 16.05 | 28.50 | 38.16 | 28.76 | 16.20 | 7.96 | 3.95 | 2.78 | 1.06 |
| -2.00 | 0.86 | 2.29 | 2.95 | 6.99 | 10.01 | 16.07 | 19.32 | 16.21 | 10.21 | 7.16 | 3.00 | 2.35 | 0.92 |
| -3.00 | 0.68 | 1.17 | 2.85 | 3.47 | 7.07 | 7.79 | 8.92 | 7.90 | 7.15 | 3.42 | 2.97 | 1.28 | 0.72 |
| -4.00 | 0.50 | 0.81 | 1.97 | 2.89 | 2.94 | 3.69 | 4.01 | 3.69 | 2.96 | 2.90 | 1.97 | 0.90 | 0.58 |
| -5.00 | 0.69 | 0.55 | 0.81 | 1.15 | 2.29 | 2.72 | 2.89 | 2.72 | 2.32 | 1.05 | 0.75 | 0.52 | 0.72 |
| -6.00 | 0.51 | 0.68 | 0.50 | 0.68 | 0.85 | 0.91 | 0.93 | 0.95 | 0.84 | 0.70 | 0.44 | 0.66 | 0.50 |
| -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.) : 46.973

Illum. (Min.) : 0.3630

Illum. (Avg.) : 5.4806

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp

Report

220120

No. of lamps 1

Voltage (V) 23.951

Filename FTS10 40K-24V-C90-1M.jdt

Lamp flux (lm) 958

Current (A) 0.39972

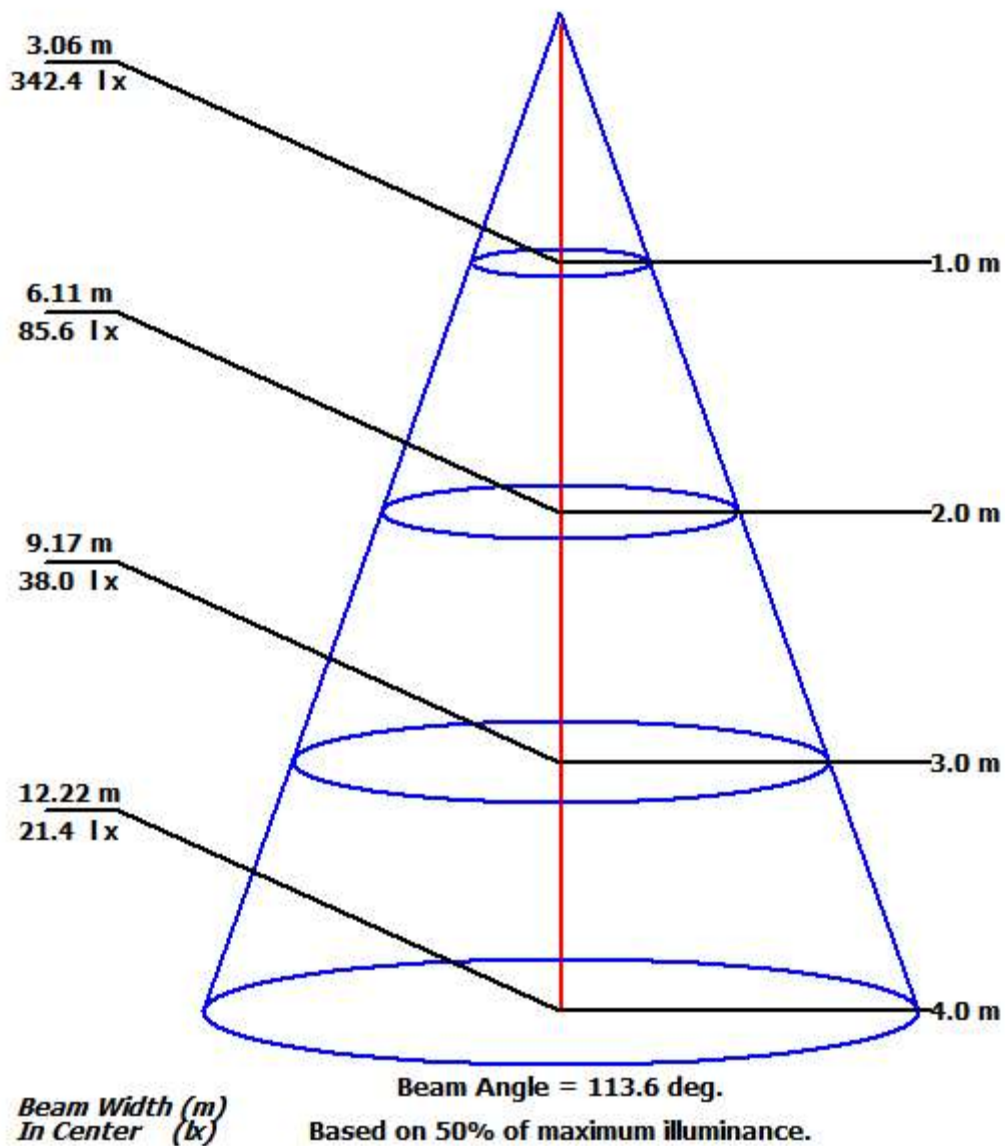
Operator YKI

Total flux (lm) 958

Power Factor 1

Date 2022-01-20 오후 5:50:10

Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report 220120

No. of lamps 1 Voltage (V) 23.951

Filename FTS10 40K-24V-C90-1M.jdt

Lamp flux (lm) 958 Current (A) 0.39972

Operator YKI

Total flux (lm) 958 Power Factor 1

Date 2022-01-20 오후 5:50:10

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 |