

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84
* Date of Receipt : 230511

2. Purpose of Report :

3. Number of Report : 230510

4. Test Standard / Item : / DVP POLE 30K 60도

5. Test Period : 230511 ~ 230511

6. Test Environment

* Ambient Temp. : 22.0 +- 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 | |
| | PKW | Sign | PKW | 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 |
|---------------|-------------|---------------|---------------|
| 230510 | | | |

| Test Item | Unit | Result | Notice |
|-----------------------------------|------|-----------------|--------|
| Beam Distribution Test | | See Attachement | |
| ATHD | % | 0.0 | |
| CIE 1931 Cx, Cy | | 0.4397 , 0.4102 | |
| Correlated Color Temperature | K | 3004 | |
| Ra | | 92.58 | |
| Power Factor | | 1.000 | |
| Input Voltage | V | 23.979 | |
| Input Current | A | 0.110 | |
| Input Watt | W | 2.6351 | |
| Lamp Flux | lm | 228.4 | |
| Efficient | lm/W | 86.68 | |
| luminous Intensity (Max , Center) | cd | 381 , 381 | |
| Illuminance | lx | 381 | 1 m |
| | | 95 | 2 m |
| | | 42 | 3 m |

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.979

Lamp flux (lm) 228

Current (A) 0.10989

Total flux (lm) 228

Power Factor 1

Report

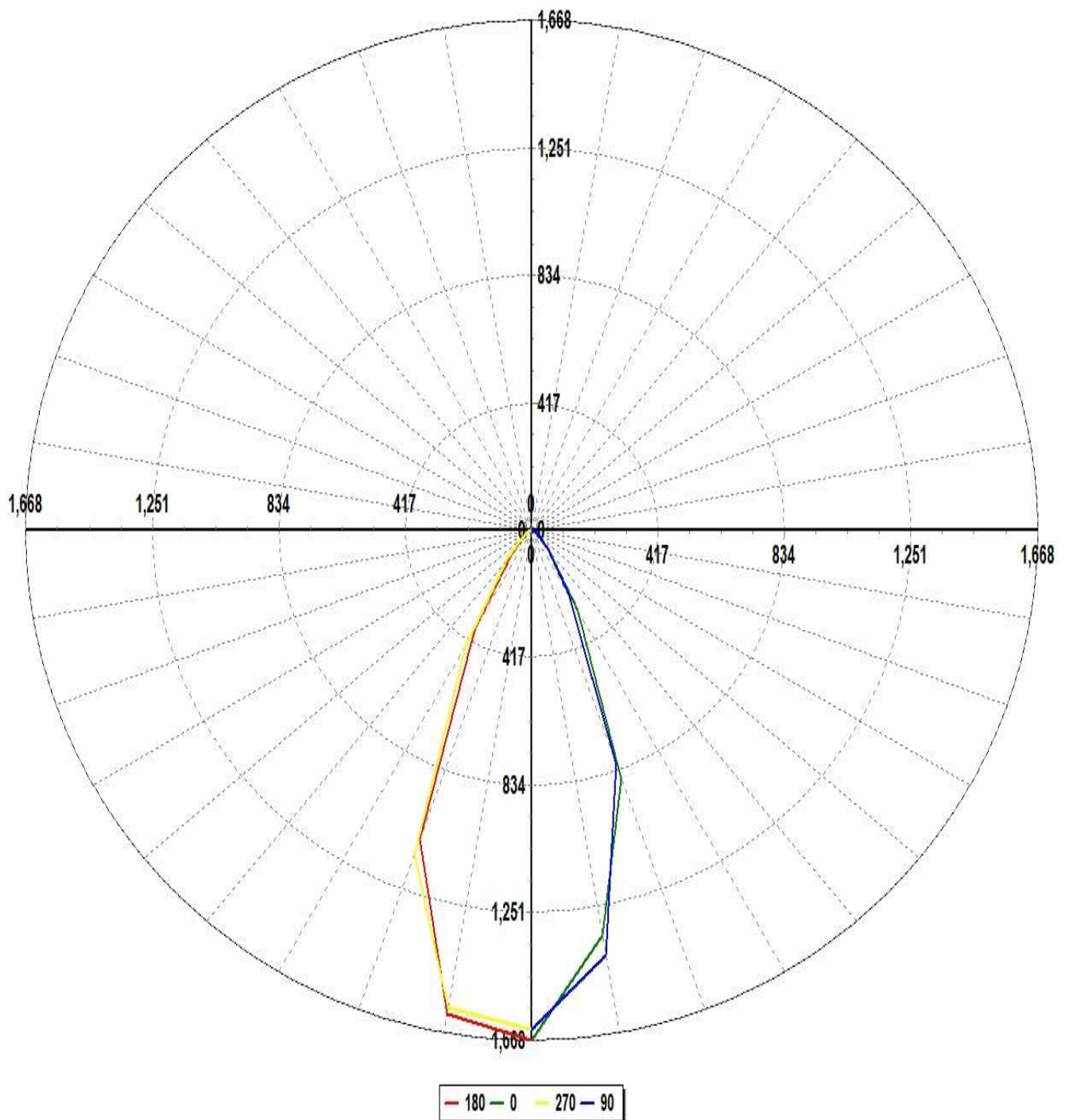
230510

Filename DVP POLE 60도.jdt

Operator

Date 2023-05-10 오후 12:30:25

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.979

Lamp flux (lm) 228

Current (A) 0.10989

Total flux (lm) 228

Power Factor 1

Report

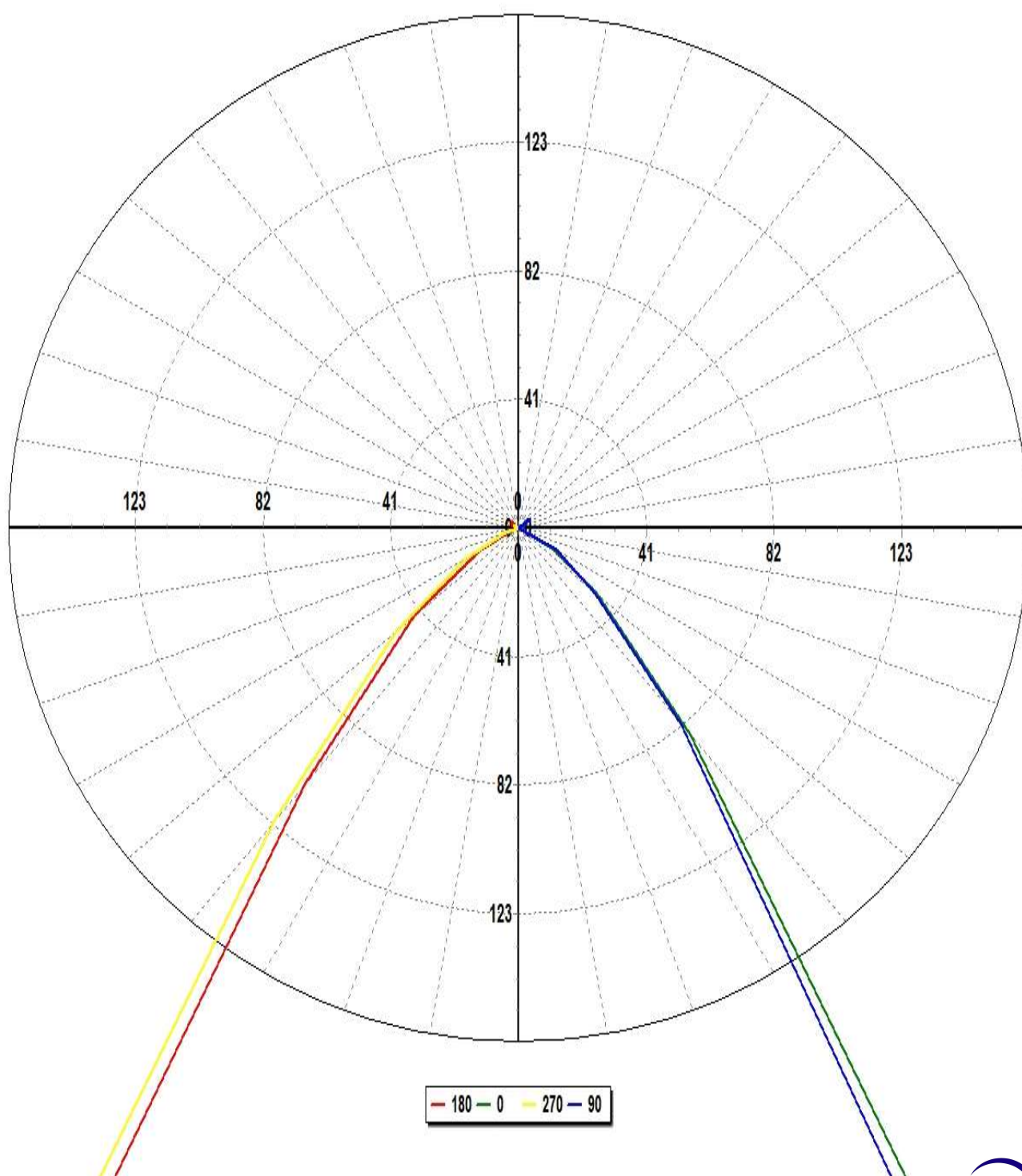
230510

Filename DVP POLE 60도.jdt

Operator

Date 2023-05-10 오후 12:30:25

Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report 230510

No. of lamps 1

Voltage (V) 23.979

Filename DVP POLE 60도.jdt

Lamp flux (lm) 228

Current (A) 0.10989

Operator

Total flux (lm) 228

Power Factor 1

Date 2023-05-10 오후 12:30:25

Luminous Intensity Data

Maximum (cd) : 381

Minimum (cd) : -1

| G/C | 0 | 30 | 60 | 90 | 120 | 150 | 180 | 210 | 240 | 270 | 300 |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0 | 381.23 | 377.97 | 377.76 | 372.75 | 373.1 | 374.57 | 381.23 | 377.97 | 377.76 | 372.75 | 373.1 |
| 10 | 306.92 | 312.39 | 328.4 | 322.61 | 336.98 | 348.4 | 367.06 | 370.06 | 366.55 | 361.9 | 341.65 |
| 20 | 197.47 | 193.39 | 194.91 | 185.56 | 195.65 | 202.78 | 245.89 | 255.12 | 256.03 | 258.43 | 241.35 |
| 30 | 69.24 | 65.39 | 64.36 | 55.04 | 58.78 | 62.69 | 84.39 | 94.23 | 98.11 | 100.85 | 98.97 |
| 40 | 19.62 | 18.92 | 20.98 | 18.57 | 19.45 | 21.25 | 24.27 | 27.67 | 28.28 | 27.87 | 27.85 |
| 50 | 7.46 | 8.37 | 8.01 | 7.36 | 8.06 | 7.36 | 9.94 | 11.92 | 12.85 | 11.8 | 11.49 |
| 60 | 2.86 | 2.25 | 2.28 | 3.18 | 2.59 | 2.67 | 3.21 | 4.13 | 4.33 | 4.53 | 3.3 |
| 70 | 0.01 | 0.53 | 0.72 | -0.4 | 0.31 | -0.47 | 0.4 | 0.91 | 1.28 | 0.98 | 0.94 |
| 80 | 0.38 | 0.2 | -0.59 | -0.37 | 0 | 0.26 | 0.09 | 0.44 | -0.12 | -0.38 | 0.64 |
| 90 | 0.31 | 0.2 | 0.02 | -0.18 | 0.27 | 0.23 | 0.02 | -0.1 | -0.2 | -0.82 | -0.27 |
| 100 | -0.09 | -0.27 | -0.19 | -0.26 | -0.08 | -0.23 | -0.23 | -0.63 | -0.38 | -0.18 | 0.39 |
| 110 | 0.23 | 0.35 | 0.46 | -0.02 | 0.24 | 0.38 | 0.03 | 0.34 | 0.28 | -0.58 | 0.34 |
| 120 | 0.74 | 0.11 | 0.43 | 0.41 | -0.36 | -0.19 | 0.56 | 0.28 | 0.1 | 0.44 | -0.36 |
| 130 | -0.07 | 0.48 | 0.85 | 1.12 | 0.99 | 0.85 | 0.62 | 1.48 | 0.28 | 0.18 | 0.74 |

Luminaire KH FEELUX

Lamp

| | | | |
|-----------------|-----|--------------|---------|
| No. of lamps | 1 | Voltage (V) | 23.979 |
| Lamp flux (lm) | 228 | Current (A) | 0.10989 |
| Total flux (lm) | 228 | Power Factor | 1 |

Report 230510

Filename DVP POLE 60도.jdt

Operator

Date 2023-05-10 오후 12:30:25

Luminous Intensity Data (Continued)

Maximum (cd) : 381

Minimum (cd) : -1

| G/C | 330 | 360 |
|-----|--------|--------|
| 0 | 374.57 | 381.23 |
| 10 | 321.55 | 306.92 |
| 20 | 224.02 | 197.47 |
| 30 | 96.88 | 69.24 |
| 40 | 25.37 | 19.62 |
| 50 | 9.44 | 7.46 |
| 60 | 3.46 | 2.86 |
| 70 | 1.24 | 0.01 |
| 80 | 0.05 | 0.38 |
| 90 | 0.68 | 0.31 |
| 100 | 0.41 | -0.09 |
| 110 | 0.69 | 0.23 |
| 120 | 0.03 | 0.74 |
| 130 | 0.73 | -0.07 |

Luminaire KH FEELUX

Lamp

| | | | |
|-----------------|-----|--------------|---------|
| No. of lamps | 1 | Voltage (V) | 23.979 |
| Lamp flux (lm) | 228 | Current (A) | 0.10989 |
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Operator

Date 2023-05-10 오후 12:30:25

Luminous Flux Table

Total Lamp Lumens: 228.42

Luminaire Efficiency (lm/W): 86.68

CIE Classification: Direct

| Elevation | Lumens | Cumulative | Lamp % | Luminaire % |
|-----------|--------|------------|--------|-------------|
| 0 | 9.00 | 9.00 | 3.94 | 3.94 |
| 10 | 64.73 | 73.73 | 32.28 | 32.28 |
| 20 | 82.74 | 156.47 | 68.51 | 68.50 |
| 30 | 43.30 | 199.77 | 87.47 | 87.46 |
| 40 | 16.43 | 216.20 | 94.66 | 94.65 |
| 50 | 7.97 | 224.18 | 98.15 | 98.14 |
| 60 | 3.07 | 227.25 | 99.49 | 99.49 |
| 70 | 0.55 | 227.80 | 99.74 | 99.73 |
| 80 | 0.05 | 227.85 | 99.76 | 99.75 |
| 90 | 0.02 | 227.87 | 99.77 | 99.76 |
| 100 | -0.16 | 227.71 | 99.70 | 99.69 |
| 110 | 0.24 | 227.95 | 99.80 | 99.79 |
| 120 | 0.17 | 228.12 | 99.88 | 99.87 |
| 130 | 0.30 | 228.42 | 100.01 | 100.00 |

Luminaire KH FEELUX

Lamp

Report

230510

No. of lamps 1

Voltage (V) 23.979

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Lamp flux (lm) 228

Current (A) 0.10989

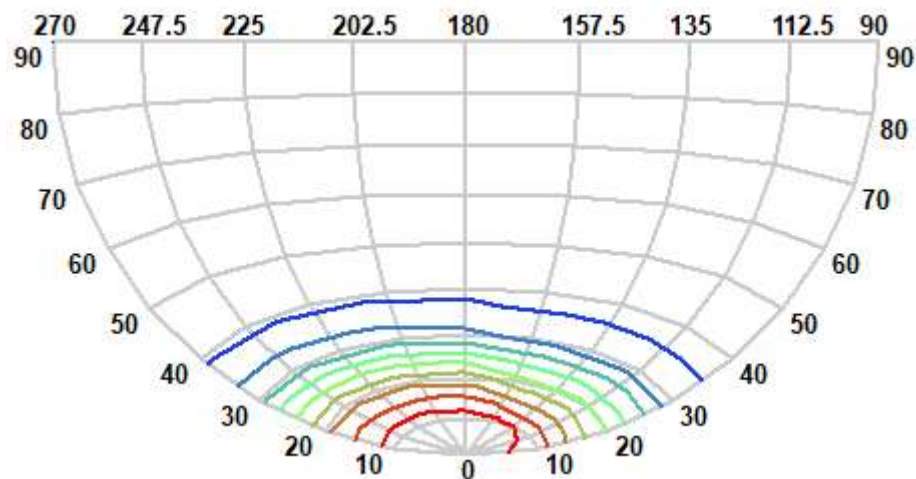
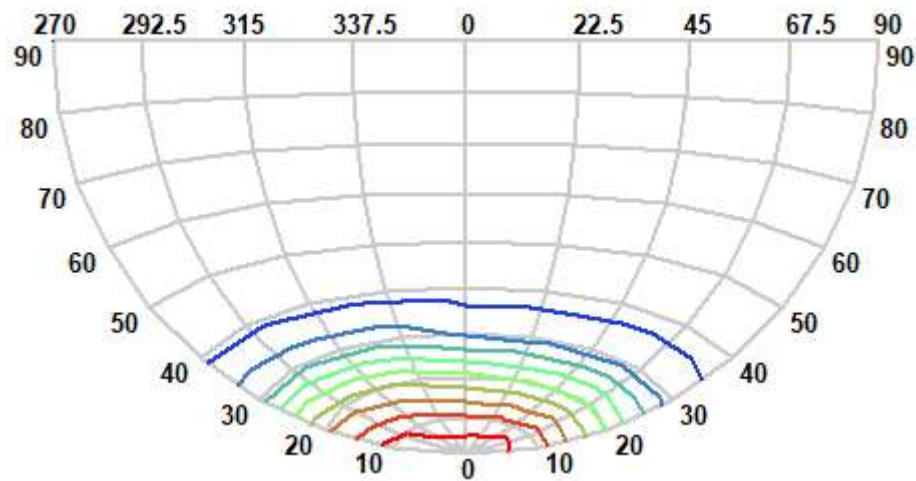
Operator

Total flux (lm) 228

Power Factor 1

Date 2023-05-10 오후 12:30:25

IsoCandela (Type C)



Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.979

Lamp flux (lm) 228

Current (A) 0.10989

Total flux (lm) 228

Power Factor 1

Report

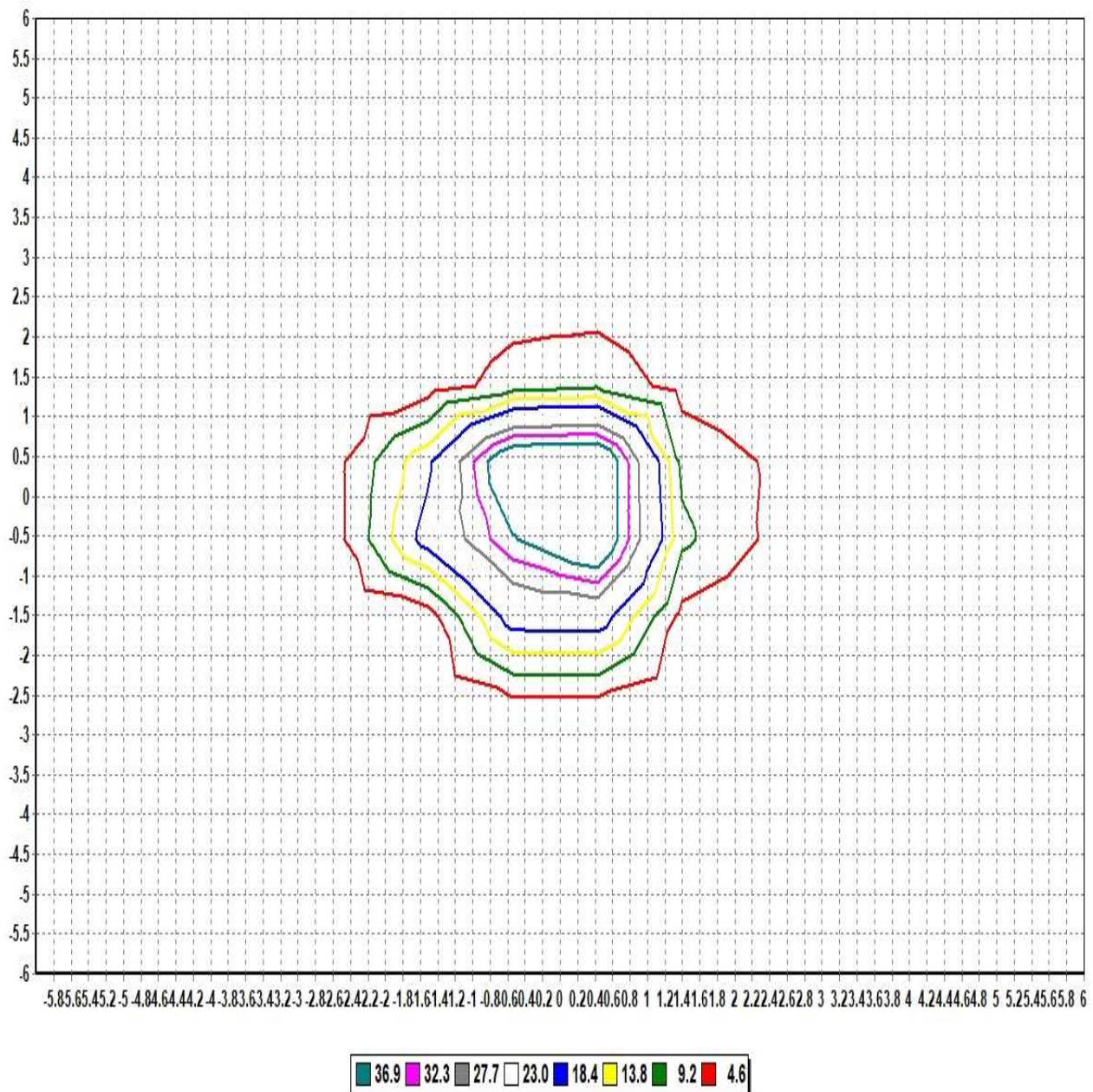
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Filename DVP POLE 60도.jdt

Operator

Date 2023-05-10 오후 12:30:25

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.979

Lamp flux (lm) 228

Current (A) 0.10989

Total flux (lm) 228

Power Factor 1

Report

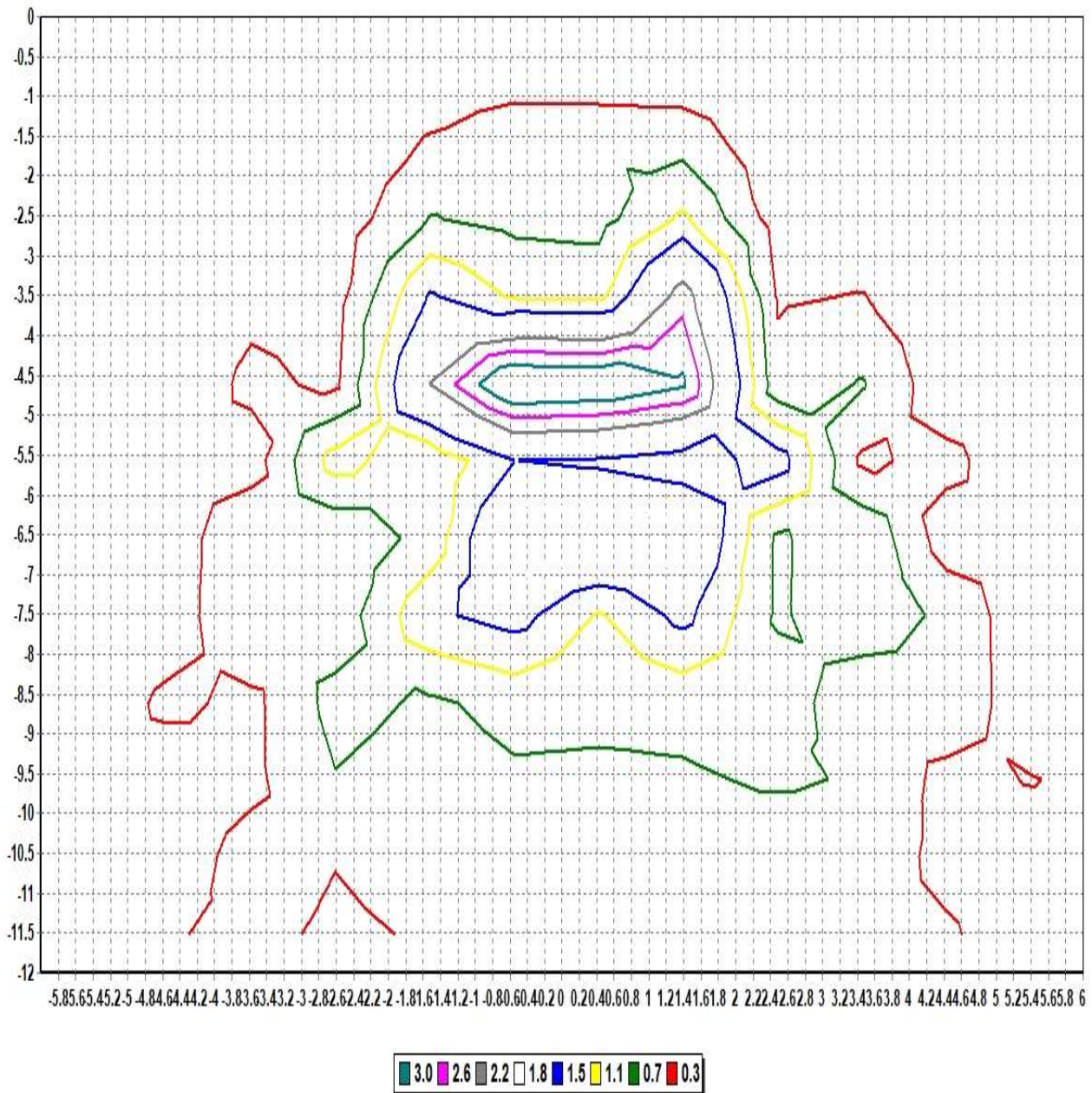
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Operator

Date 2023-05-10 오후 12:30:25

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 230510

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Operator

Date 2023-05-10 오후 12:30:25

Illuminance Levels (Ground)

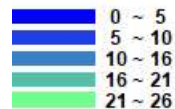
| | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 6.00 | 0.01 | 0.01 | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.00 | 0.01 | 0.01 |
| 5.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0.08 | 0.09 | 0.10 | 0.09 | 0.08 | 0.01 | 0.01 | 0.00 | 0.01 |
| 4.00 | 0.00 | 0.00 | 0.06 | 0.10 | 0.06 | 0.10 | 0.12 | 0.10 | 0.06 | 0.11 | 0.06 | 0.01 | 0.00 |
| 3.00 | 0.00 | 0.01 | 0.10 | 0.09 | 0.45 | 0.31 | 0.39 | 0.33 | 0.49 | 0.08 | 0.10 | 0.01 | 0.01 |
| 2.00 | 0.01 | 0.08 | 0.06 | 0.49 | 0.54 | 1.30 | 2.22 | 1.31 | 0.55 | 0.46 | 0.06 | 0.08 | 0.01 |
| 1.00 | 0.01 | 0.11 | 0.11 | 0.32 | 1.32 | 8.43 | 35.99 | 9.30 | 1.30 | 0.32 | 0.11 | 0.11 | 0.02 |
| 0.00 | 0.02 | 0.13 | 0.14 | 0.53 | 3.21 | 41.08 | 52.29 | 34.32 | 2.62 | 0.41 | 0.11 | 0.10 | 0.01 |
| -1.00 | 0.01 | 0.10 | 0.11 | 0.45 | 1.86 | 12.14 | 40.56 | 12.89 | 1.89 | 0.43 | 0.11 | 0.10 | 0.01 |
| -2.00 | 0.01 | 0.11 | 0.09 | 0.59 | 0.74 | 1.89 | 3.79 | 1.91 | 0.79 | 0.61 | 0.08 | 0.10 | 0.01 |
| -3.00 | 0.01 | 0.02 | 0.14 | 0.12 | 0.69 | 0.49 | 0.62 | 0.47 | 0.67 | 0.12 | 0.13 | 0.02 | 0.01 |
| -4.00 | 0.00 | 0.01 | 0.08 | 0.17 | 0.10 | 0.16 | 0.18 | 0.16 | 0.08 | 0.15 | 0.09 | 0.01 | 0.01 |
| -5.00 | 0.02 | 0.01 | 0.02 | 0.03 | 0.12 | 0.15 | 0.16 | 0.15 | 0.11 | 0.03 | 0.02 | 0.01 | 0.02 |
| -6.00 | 0.01 | 0.02 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | 0.02 | 0.01 |
| -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.) : 52.294

Illum. (Min.) : -0.0013

Illum. (Avg.) : 1.7186

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp

| | | | |
|-----------------|-----|--------------|---------|
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| Total flux (lm) | 228 | Power Factor | 1 |

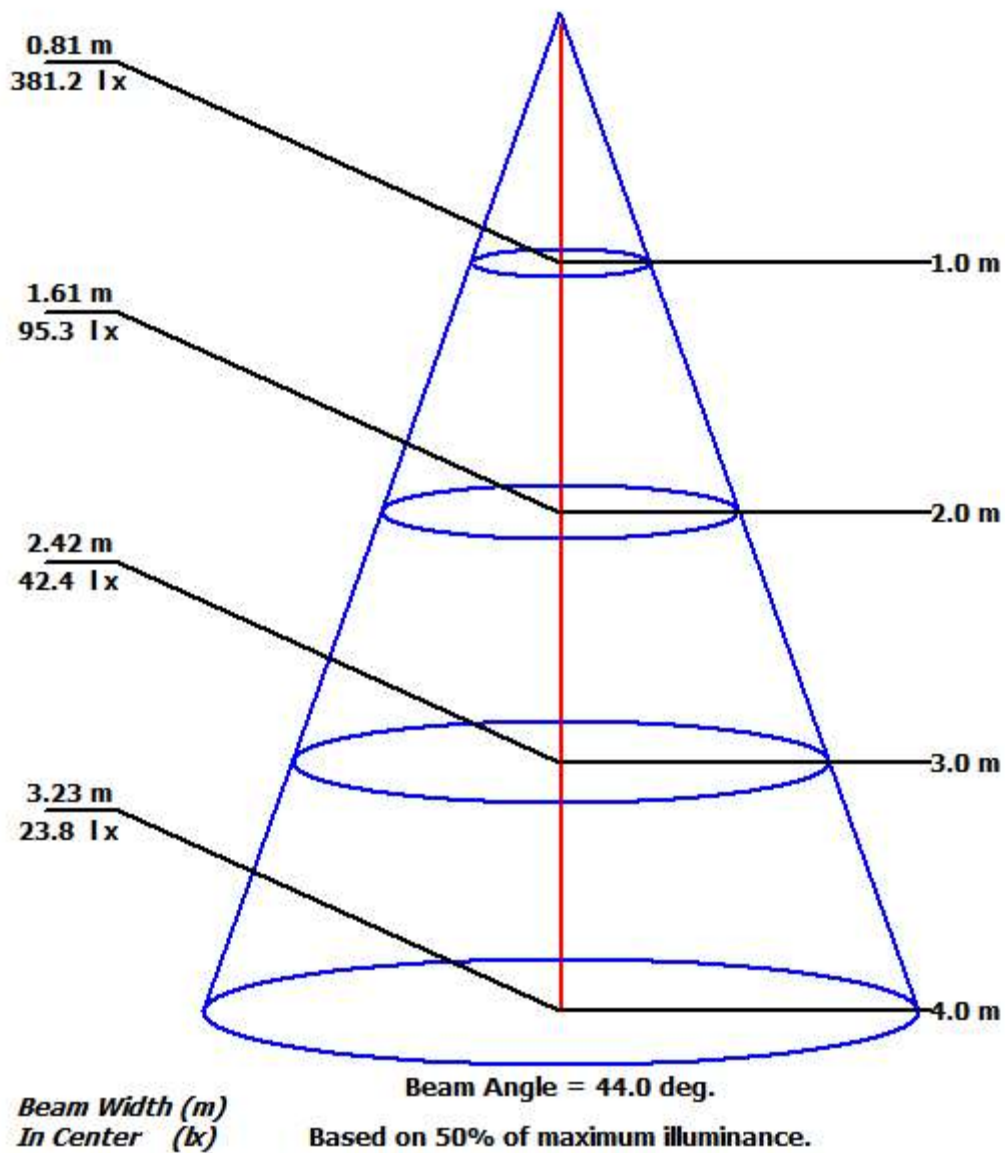
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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

| | | | |
|-----------------|-----|--------------|---------|
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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 |