

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84  
\* Date of Receipt : 230508

**2. Purpose of Report :**

**3. Number of Report :** 230509

**4. Test Standard / Item :** / FNL3D-40K-C90-35도-1m

**5. Test Period :** 230508 ~ 230508

**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
230509			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.3874 , 0.3780	
Correlated Color Temperature	K	3827	
Ra		92.42	
Power Factor		1.000	
Input Voltage	V	23.907	
Input Current	A	0.759	
Input Watt	W	18.154	
Lamp Flux	lm	1521.3	
Efficient	lm/W	83.80	
luminous Intensity (Max , Center)	cd	2066 , 2048	
Illuminance	lx	2048	1 m
		512	2 m
		228	3 m

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

\* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

230509

No. of lamps 1

Voltage (V) 23.907

Filename FNL3D-40K-C90-35도-1m.jdt

Lamp flux (lm) 1521

Current (A) 0.7594

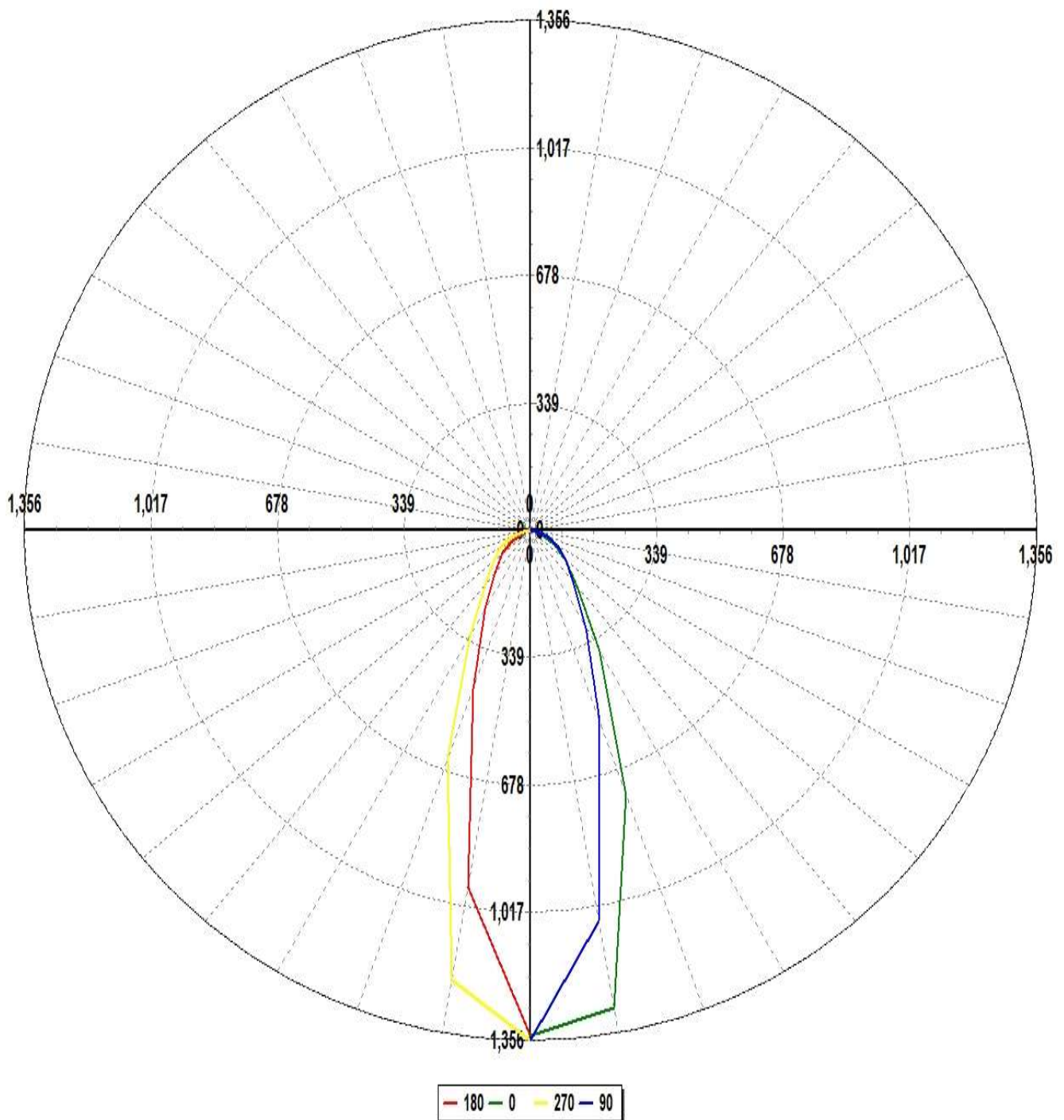
Operator

Total flux (lm) 1521

Power Factor 1

Date 2023-05-09 오후 12:25:11

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

230509

No. of lamps 1

Voltage (V) 23.907

Filename FNL3D-40K-C90-35도-1m.jdt

Lamp flux (lm) 1521

Current (A) 0.7594

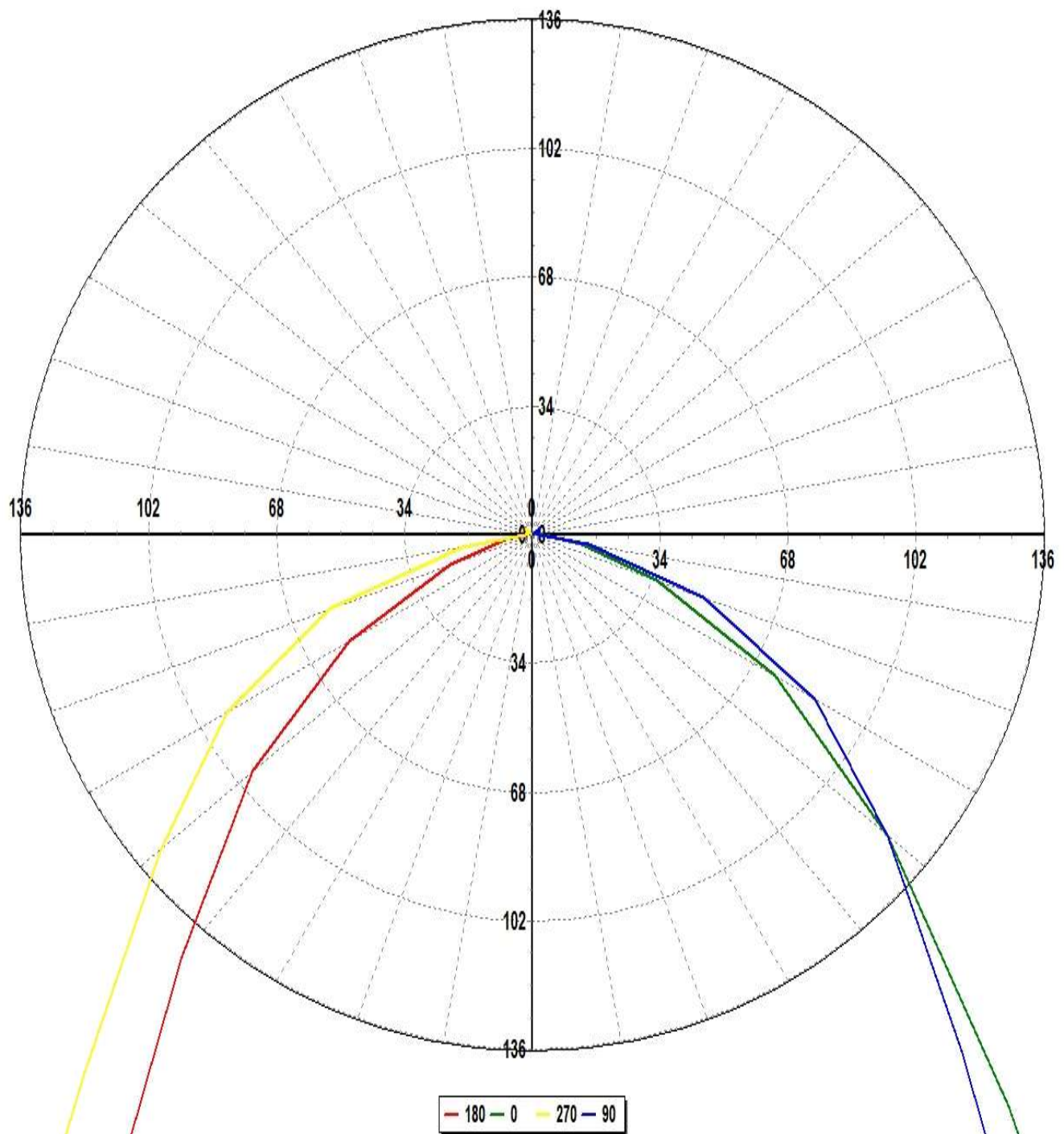
Operator

Total flux (lm) 1521

Power Factor 1

Date 2023-05-09 오후 12:25:11

## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

230509

No. of lamps 1

Voltage (V) 23.907

Filename FNL3D-40K-C90-35도-1m.jdt

Lamp flux (lm) 1521

Current (A) 0.7594

Operator

Total flux (lm) 1521

Power Factor 1

Date 2023-05-09 오후 12:25:11

## Luminous Intensity Data

Maximum (cd) : 2066

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270
0	2047.94	2063.58	2066.38	2064.79	2053.46	2026.41	2047.94	2063.58	2066.38	2064.79
10	1962.79	1829.64	1865.48	1609.16	1649.26	1395.44	1469.64	1706.74	1647.29	1849.03
20	1135.93	1070.74	1051.28	820.21	759.65	635.25	685.4	836.29	860.22	982.49
30	563.48	578.81	541.34	454.06	392.64	349.99	369.39	413.66	459.11	487.5
40	300.19	306.8	303.06	270.19	243.37	217	220.97	239.61	266.98	281.51
50	188.11	189.08	197.08	187.53	168.79	146.93	147.74	160.35	181.49	196.16
60	113.3	119.25	129.57	131.84	110.35	91.39	85.58	102.74	121.34	142.5
70	53.7	59.21	72.41	73.54	58.45	36.05	35.19	45.21	66.91	87.03
80	20.33	21.15	26.05	23.2	14.73	10.05	10.93	14.4	20.95	28.76
90	4.58	5.2	4.97	2.96	1.72	0.99	2.07	3.51	3.46	2.65
100	0.7	1.45	1.55	1.9	1	1.27	1.73	1.06	1.51	1.44
110	1.32	1.99	0.97	1.3	1.62	1.89	2.13	2.65	1.85	1.56
120	1.91	2.66	2.2	2.51	3.01	3.24	2.37	2.63	2.64	2.2
130	3.15	3.63	3.56	4.17	4.76	4.12	4.01	3.88	3.84	3.49

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.907
Lamp flux (lm)	1521	Current (A)	0.7594
Total flux (lm)	1521	Power Factor	1

Report

230509

Filename FNL3D-40K-C90-35도-1m.jdt

Operator

Date 2023-05-09 오후 12:25:11

## Luminous Intensity Data (Continued)

Maximum (cd) : 2066

Minimum (cd) : 1

G/C	300	330	360
0	2053.46	2026.41	2047.94
10	1778.96	1962.31	1962.79
20	938.14	1098.55	1135.93
30	494.4	536.51	563.48
40	287.3	295.32	300.19
50	198.66	189.98	188.11
60	137.51	129.01	113.3
70	78.47	64.24	53.7
80	26.53	22.05	20.33
90	3.33	5.36	4.58
100	0.78	0.64	0.7
110	1.71	1.6	1.32
120	1.84	2.57	1.91
130	3.58	3.14	3.15

Luminaire KH FEELUX

Lamp

Report

230509

No. of lamps 1

Voltage (V) 23.907

Filename FNL3D-40K-C90-35도-1m.jdt

Lamp flux (lm) 1521

Current (A) 0.7594

Operator

Total flux (lm) 1521

Power Factor 1

Date 2023-05-09 오후 12:25:11

## Luminous Flux Table

Total Lamp Lumens: 1521.3

Luminaire Efficiency (lm/W): 83.80

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	49.10	49.10	3.23	3.23
10	328.48	377.58	24.82	24.82
20	339.45	717.03	47.13	47.13
30	257.42	974.45	64.05	64.05
40	189.63	1164.08	76.52	76.52
50	150.45	1314.53	86.41	86.41
60	111.80	1426.33	93.76	93.76
70	62.64	1488.97	97.87	97.88
80	21.49	1510.46	99.29	99.29
90	3.72	1514.19	99.53	99.53
100	1.35	1515.54	99.62	99.62
110	1.76	1517.30	99.74	99.74
120	2.35	1519.66	99.89	99.89
130	1.64	1521.30	100.00	100.00



Luminaire KH FEELUX

Lamp

Report

230509

No. of lamps 1

Voltage (V) 23.907

Filename FNL3D-40K-C90-35도-1m.jdt

Lamp flux (lm) 1521

Current (A) 0.7594

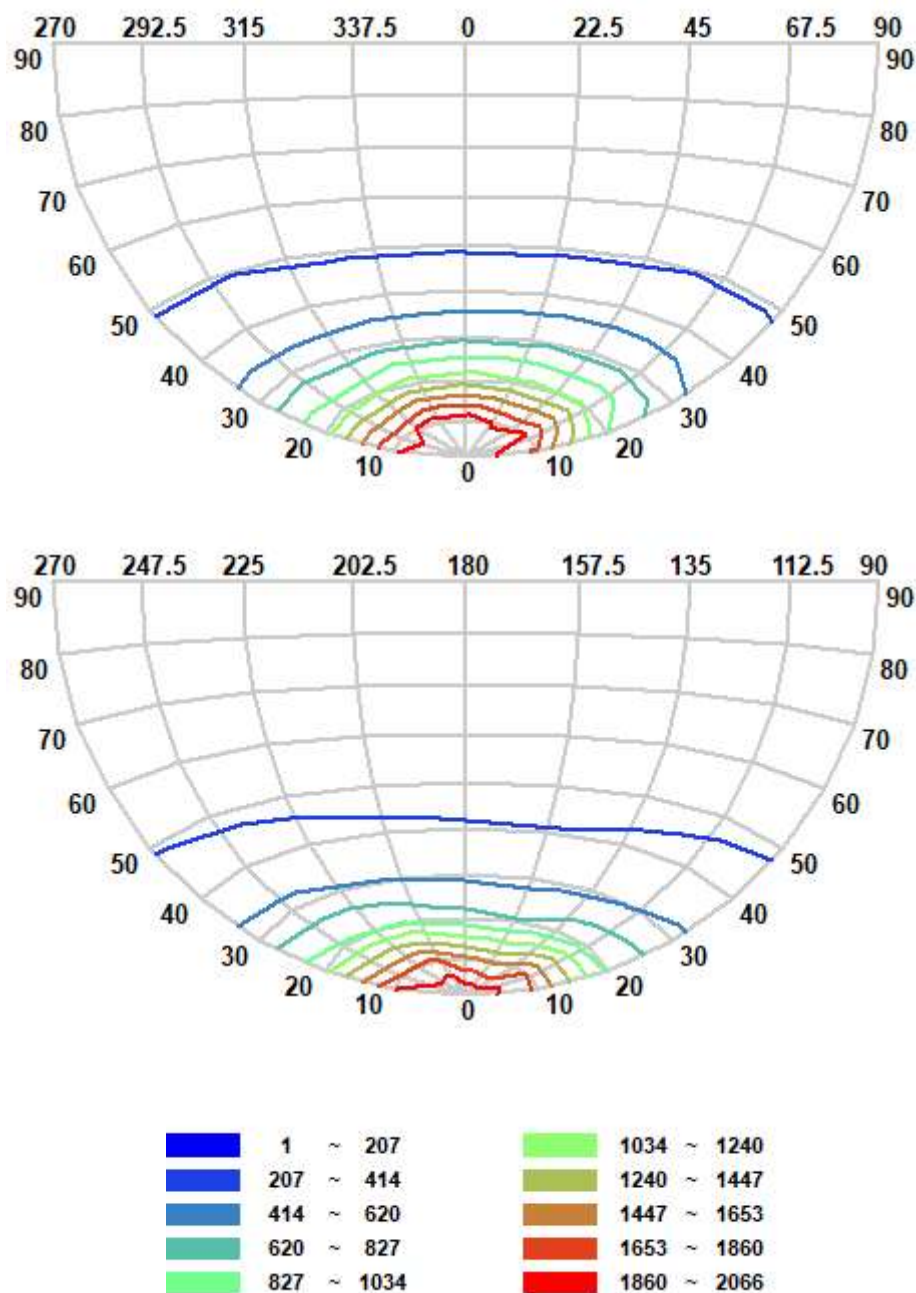
Operator

Total flux (lm) 1521

Power Factor 1

Date 2023-05-09 오후 12:25:11

## IsoCandela (Type C)





Luminaire KH FEELUX

Lamp

Report

230509

No. of lamps 1

Voltage (V) 23.907

Filename FNL3D-40K-C90-35도-1m.jdt

Lamp flux (lm) 1521

Current (A) 0.7594

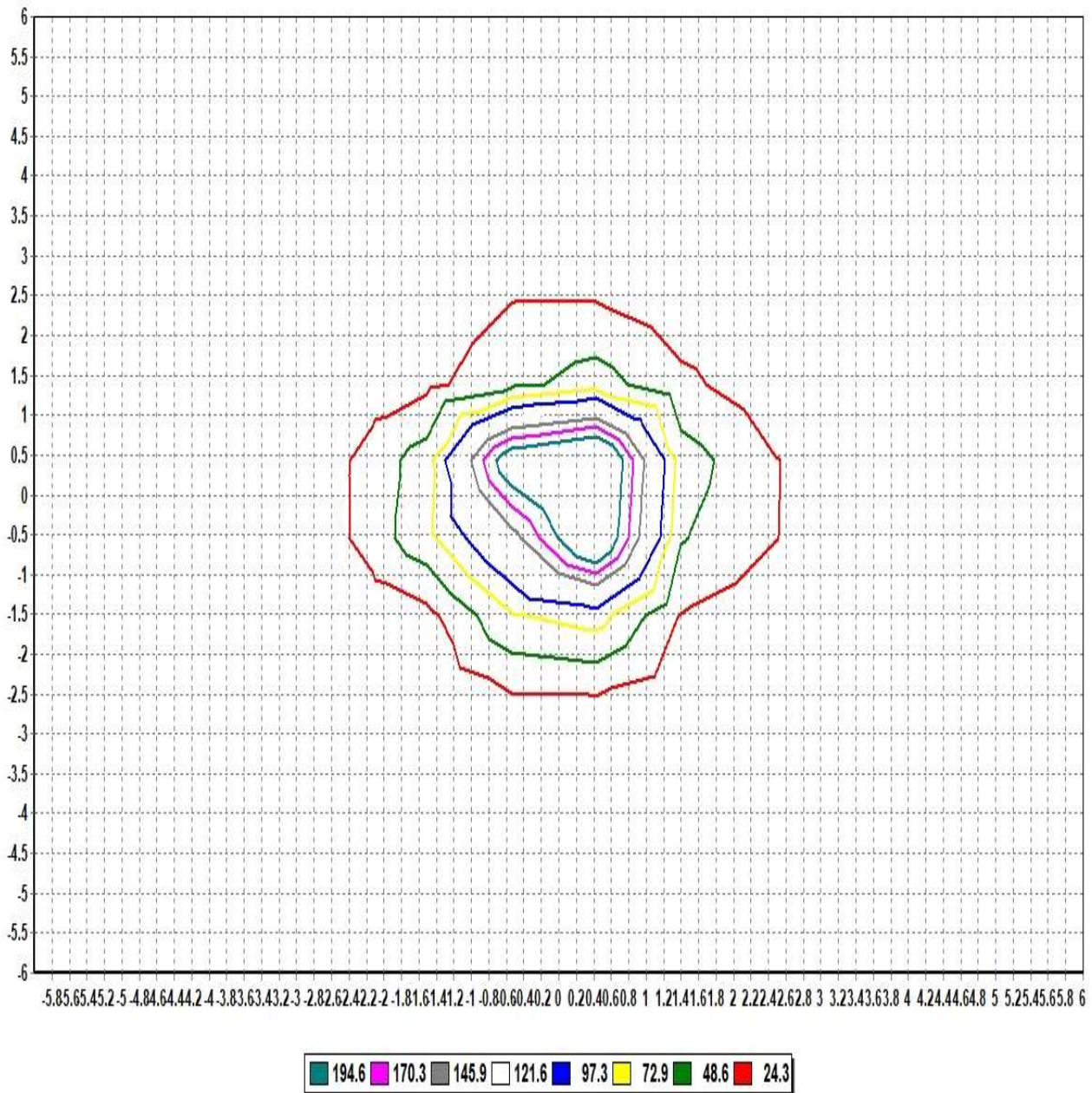
Operator

Total flux (lm) 1521

Power Factor 1

Date 2023-05-09 오후 12:25:11

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

230509

No. of lamps 1

Voltage (V) 23.907

Filename FNL3D-40K-C90-35도-1m.jdt

Lamp flux (lm) 1521

Current (A) 0.7594

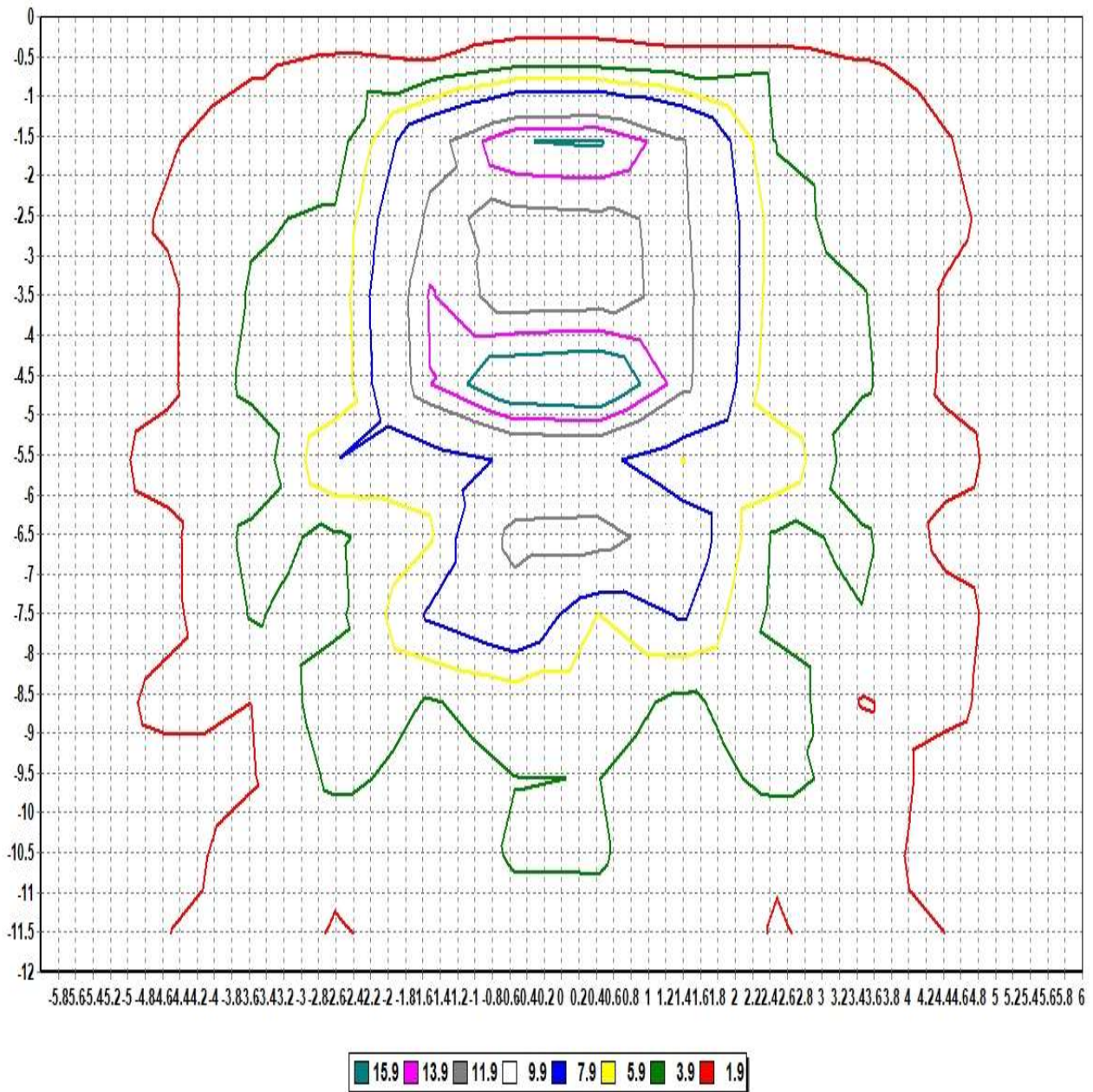
Operator

Total flux (lm) 1521

Power Factor 1

Date 2023-05-09 오후 12:25:11

## 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)	23.907
Lamp flux (lm)	1521	Current (A)	0.7594
Total flux (lm)	1521	Power Factor	1

Report 230509

Filename FNL3D-40K-C90-35도-1m.jdt

Operator

Date 2023-05-09 오후 12:25:11

## Illuminance Levels (Ground)

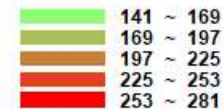
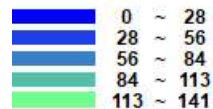
6.00	0.41	0.57	0.44	0.50	0.67	0.87	0.93	0.88	0.69	0.52	0.44	0.58	0.39
5.00	0.44	0.44	0.69	1.03	1.91	2.53	2.63	2.51	2.07	1.01	0.69	0.38	0.52
4.00	0.25	0.47	1.67	2.56	2.26	3.40	3.70	3.39	2.43	2.71	1.71	0.58	0.34
3.00	0.47	0.65	2.10	2.87	7.12	6.75	8.38	7.43	7.96	2.85	2.59	0.84	0.50
2.00	0.55	1.77	2.17	5.84	9.35	15.80	23.77	19.82	10.42	7.84	2.40	2.04	0.63
1.00	0.51	1.90	2.42	6.16	15.40	48.60	179.14	66.41	19.81	7.30	3.23	2.47	0.79
0.00	0.54	2.02	2.66	6.66	19.39	163.38	280.92	219.00	27.87	8.64	3.44	2.59	0.75
-1.00	0.52	1.90	2.43	5.98	15.28	45.63	205.99	57.36	18.55	7.51	3.22	2.45	0.74
-2.00	0.49	1.69	2.03	5.90	8.22	15.62	25.13	18.44	10.36	7.73	2.72	2.17	0.76
-3.00	0.39	0.61	2.07	2.31	6.99	6.48	8.75	7.59	7.53	3.27	2.68	0.98	0.63
-4.00	0.23	0.43	1.39	2.46	2.11	3.40	3.94	3.37	2.74	2.76	1.88	0.70	0.41
-5.00	0.41	0.28	0.62	0.94	1.81	2.51	2.76	2.46	2.20	1.16	0.81	0.55	0.60
-6.00	0.31	0.53	0.40	0.42	0.59	0.94	1.05	0.87	0.83	0.65	0.53	0.65	0.48
-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.) : 280.92

Illum. (Min.) : 0.2314

Illum. (Avg.) : 11.038

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

Report

230509

No. of lamps 1

Voltage (V) 23.907

Filename FNL3D-40K-C90-35도-1m.jdt

Lamp flux (lm) 1521

Current (A) 0.7594

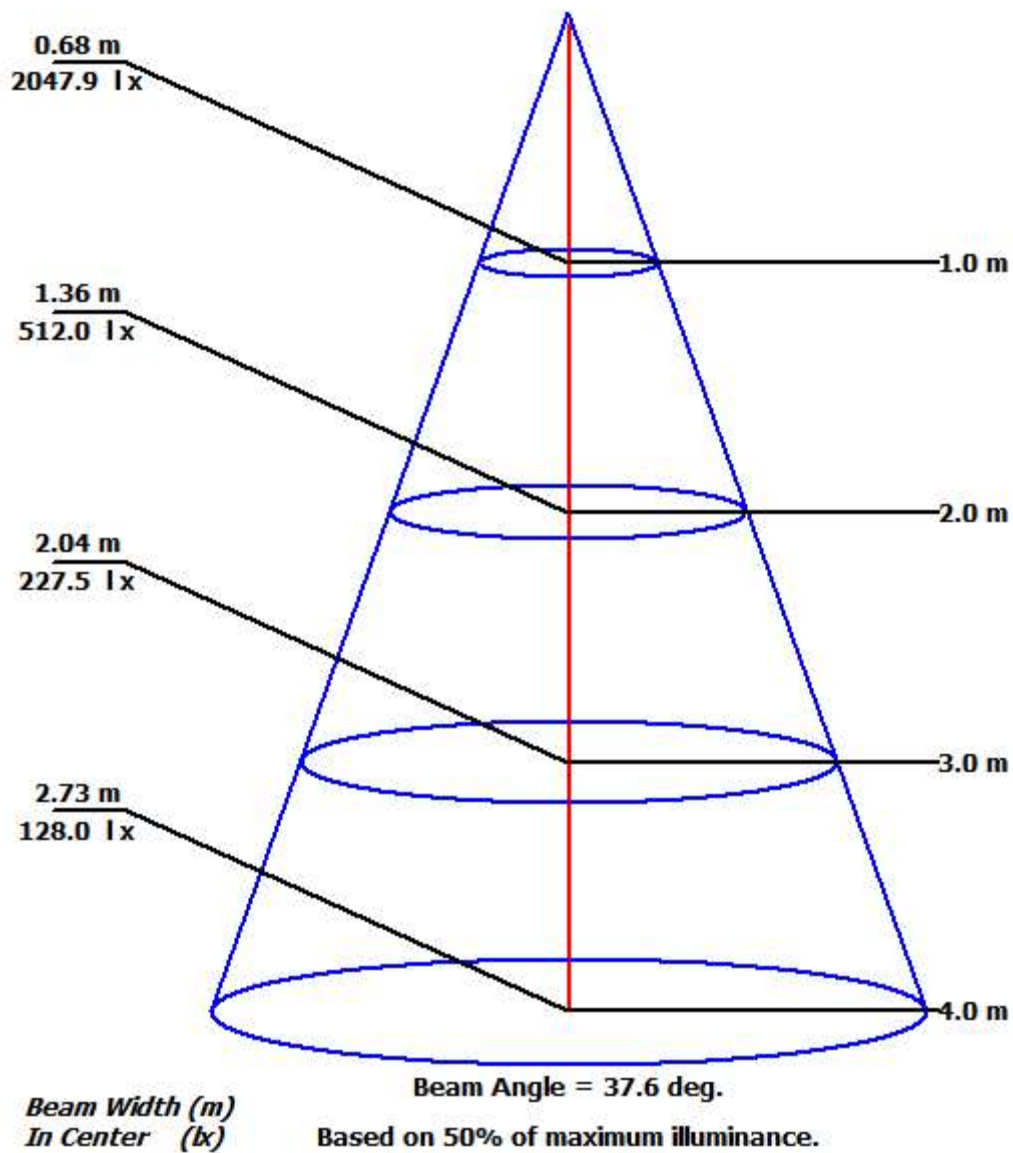
Operator

Total flux (lm) 1521

Power Factor 1

Date 2023-05-09 오후 12:25:11

## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report 230509

No. of lamps 1 Voltage (V) 23.907

Filename FNL3D-40K-C90-35도-1m.jdt

Lamp flux (lm) 1521 Current (A) 0.7594

Operator

Total flux (lm) 1521 Power Factor 1

Date 2023-05-09 오후 12:25:11

## 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