

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844  
\* Date of Receipt : 230830

**2. Purpose of Report :****3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 230830 FN2 24K-24V-C90-1M**5. Test Period :** 230830 ~ 230830**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	
	JSY	Sign	JSY	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		0.4900 , 0.4113	
Correlated Color Temperature	K	2325	
Ra		88.5	
Power Factor		1.000	
Input Voltage	V	23.942	
Input Current	A	0.428	
Input Watt	W	10.248	
Lamp Flux	lm	696.6	
Efficient	lm/W	67.98	
luminous Intensity (Max , Center)	cd	215 , 215	
Illuminance	lx	215	1 m
		54	2 m
		24	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) 23.942

Filename 230830 FN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 697

Current (A) 0.42802

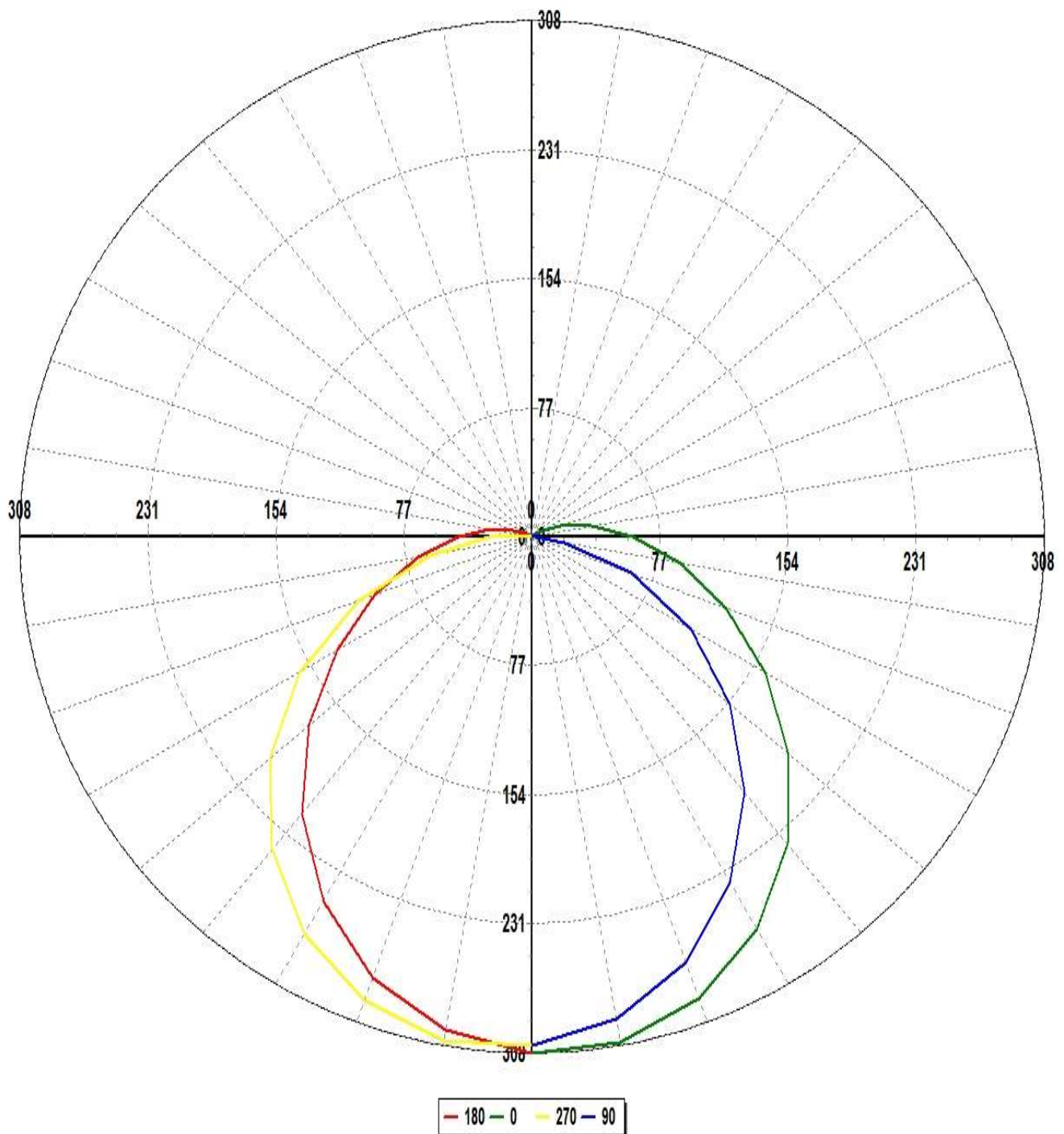
Operator

Total flux (lm) 697

Power Factor 1

Date 2023-08-30 오전 10:42:57

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.942

Filename 230830 FN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 697

Current (A) 0.42802

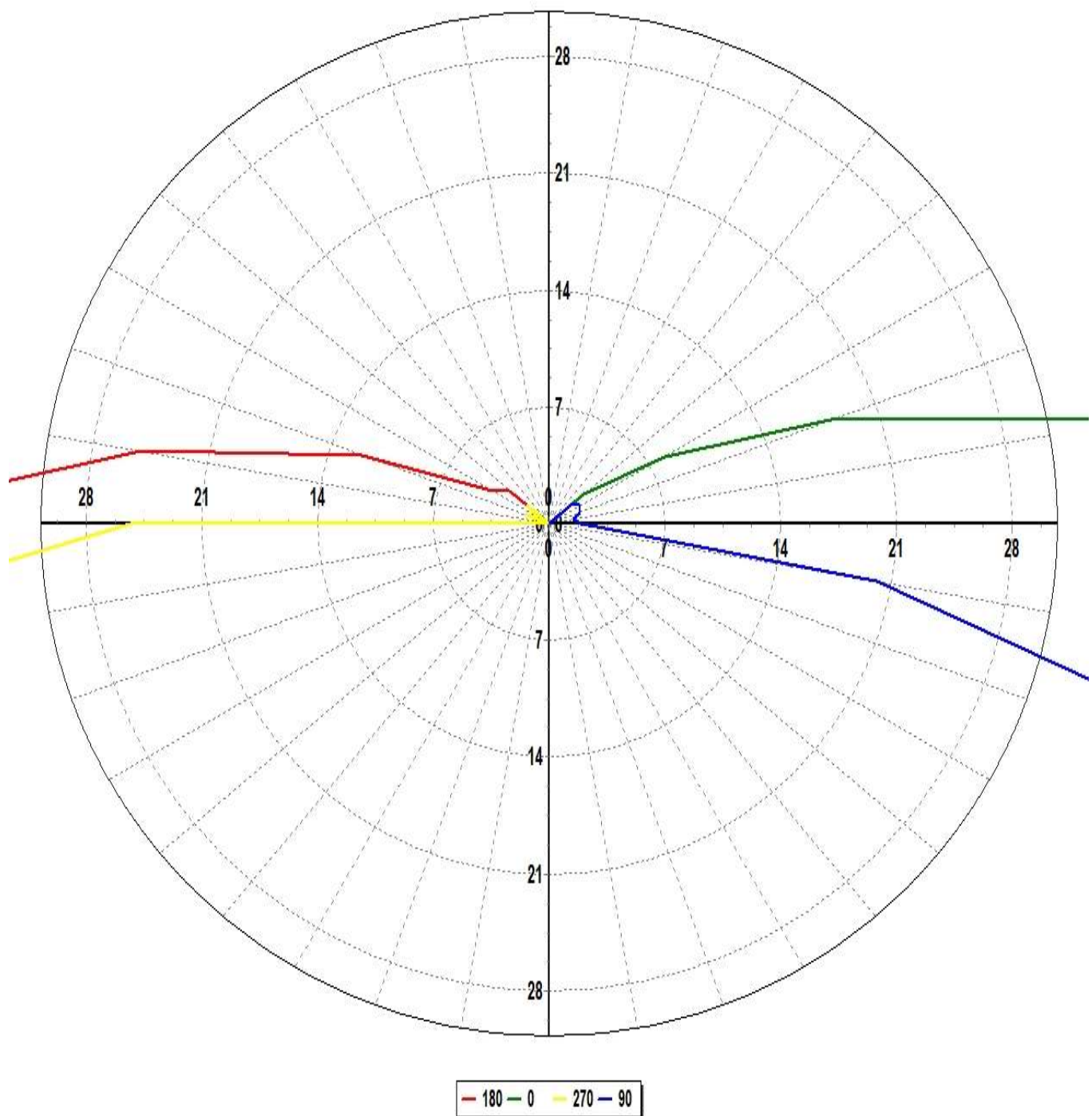
Operator

Total flux (lm) 697

Power Factor 1

Date 2023-08-30 오전 10:42:57

## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.942

Filename 230830 FN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 697

Current (A) 0.42802

Operator

Total flux (lm) 697

Power Factor 1

Date 2023-08-30 오전 10:42:57

## Luminous Intensity Data

Maximum (cd) : 215

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	214.83	214.03	213.23	211.43	210.86	209.33	214.83	214.03	213.23	211.43	210.86
10	213.32	209.65	207.02	203.48	200.45	200.72	208.09	210.16	211.77	212.77	211.12
20	204.56	199.29	193.41	188.11	185.59	184.66	195.28	198.62	202.02	205.18	206.66
30	188.5	181.5	173.35	166.03	162.73	161.88	174.81	181.14	186.03	190.81	192.82
40	166.76	157.55	148.37	138.47	136.25	135.15	150.01	157.01	163.32	169.38	172.2
50	140.68	130.86	119.32	108.14	105.51	106.75	121.91	128.88	134.97	143.09	147.06
60	112.85	102.15	88.45	77.06	74.16	78.96	94.17	99.21	104.58	112.65	117.56
70	86.73	75.41	58.03	44.52	46.08	55.23	70.04	72.91	72.14	77.61	84.78
80	63.18	51.56	32.8	13.99	23.6	35.35	48.42	49.74	44.26	43.36	55.08
90	42.5	32.02	15.71	1.34	9.27	20.06	30.78	30.66	23.85	17.62	31.38
100	25.44	18.2	4.98	1.03	2.52	9.54	17.43	17.48	11.72	-0.09	15.49
110	12.65	8.31	1.56	1.36	1.39	3.9	8.4	7.91	5.4	1.08	8.02
120	5.63	3.49	1.77	1.52	1.55	2.12	2.7	3.53	1.15	0.56	0.43
130	1.88	1.44	1.27	1.19	1.92	1.37	2.15	1.94	1.6	1.23	1.12

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.942

Filename 230830 FN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 697

Current (A) 0.42802

Operator

Total flux (lm) 697

Power Factor 1

Date 2023-08-30 오전 10:42:57

## Luminous Intensity Data (Continued)

Maximum (cd) : 215

Minimum (cd) : 0

G/C	330	360
0	209.33	214.83
10	210.88	213.32
20	205.74	204.56
30	192.85	188.5
40	172.77	166.76
50	148.46	140.68
60	119.79	112.85
70	92.24	86.73
80	66.92	63.18
90	44.62	42.5
100	27.07	25.44
110	13.7	12.65
120	5.15	5.63
130	2.34	1.88

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.942

Filename 230830 FN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 697

Current (A) 0.42802

Operator

Total flux (lm) 697

Power Factor 1

Date 2023-08-30 오전 10:42:57

## Luminous Flux Table

Total Lamp Lumens: 696.61

Luminaire Efficiency (lm/W): 67.98

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	5.08	5.08	0.73	0.73
10	39.61	44.69	6.42	6.42
20	73.95	118.64	17.03	17.03
30	98.23	216.87	31.13	31.13
40	109.54	326.41	46.86	46.86
50	107.37	433.78	62.27	62.27
60	93.39	527.17	75.68	75.68
70	71.68	598.85	85.97	85.97
80	47.48	646.33	92.78	92.78
90	27.36	673.69	96.71	96.71
100	13.56	687.25	98.66	98.66
110	6.32	693.57	99.56	99.56
120	2.34	695.91	99.90	99.90
130	0.70	696.61	100.00	100.00

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.942

Filename 230830 FN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 697

Current (A) 0.42802

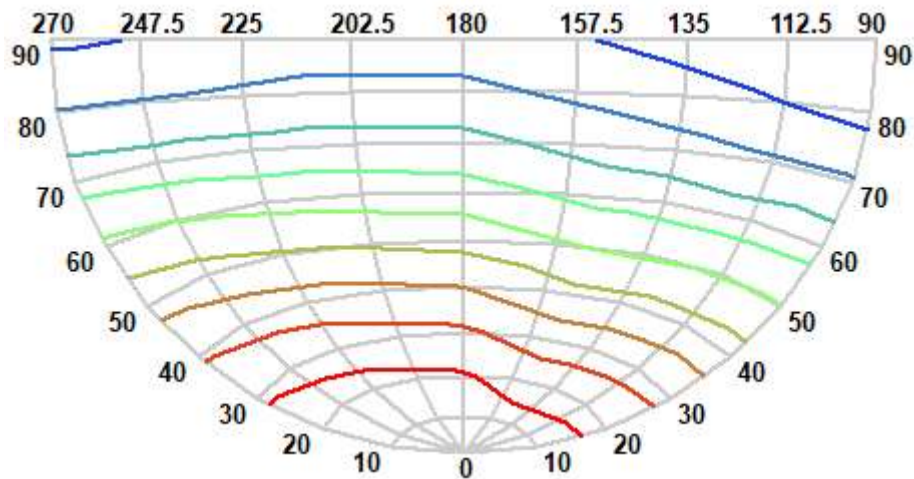
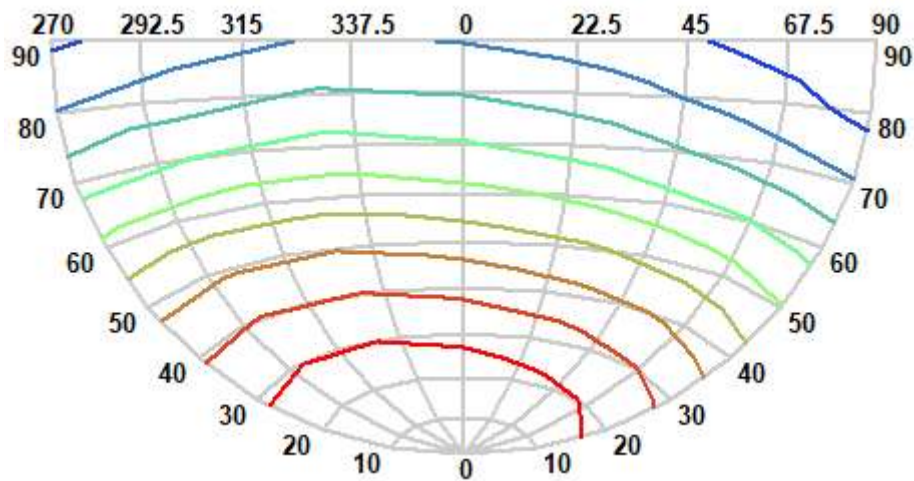
Operator

Total flux (lm) 697

Power Factor 1

Date 2023-08-30 오전 10:42:57

## IsoCandela (Type C)



<span style="color: blue;">■</span>	0 ~ 21
<span style="color: blue;">■</span>	21 ~ 43
<span style="color: blue;">■</span>	43 ~ 64
<span style="color: teal;">■</span>	64 ~ 86
<span style="color: green;">■</span>	86 ~ 107

<span style="color: lightgreen;">■</span>	107 ~ 129
<span style="color: olive;">■</span>	129 ~ 150
<span style="color: brown;">■</span>	150 ~ 172
<span style="color: orange;">■</span>	172 ~ 193
<span style="color: red;">■</span>	193 ~ 215

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.942

Filename 230830 FN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 697

Current (A) 0.42802

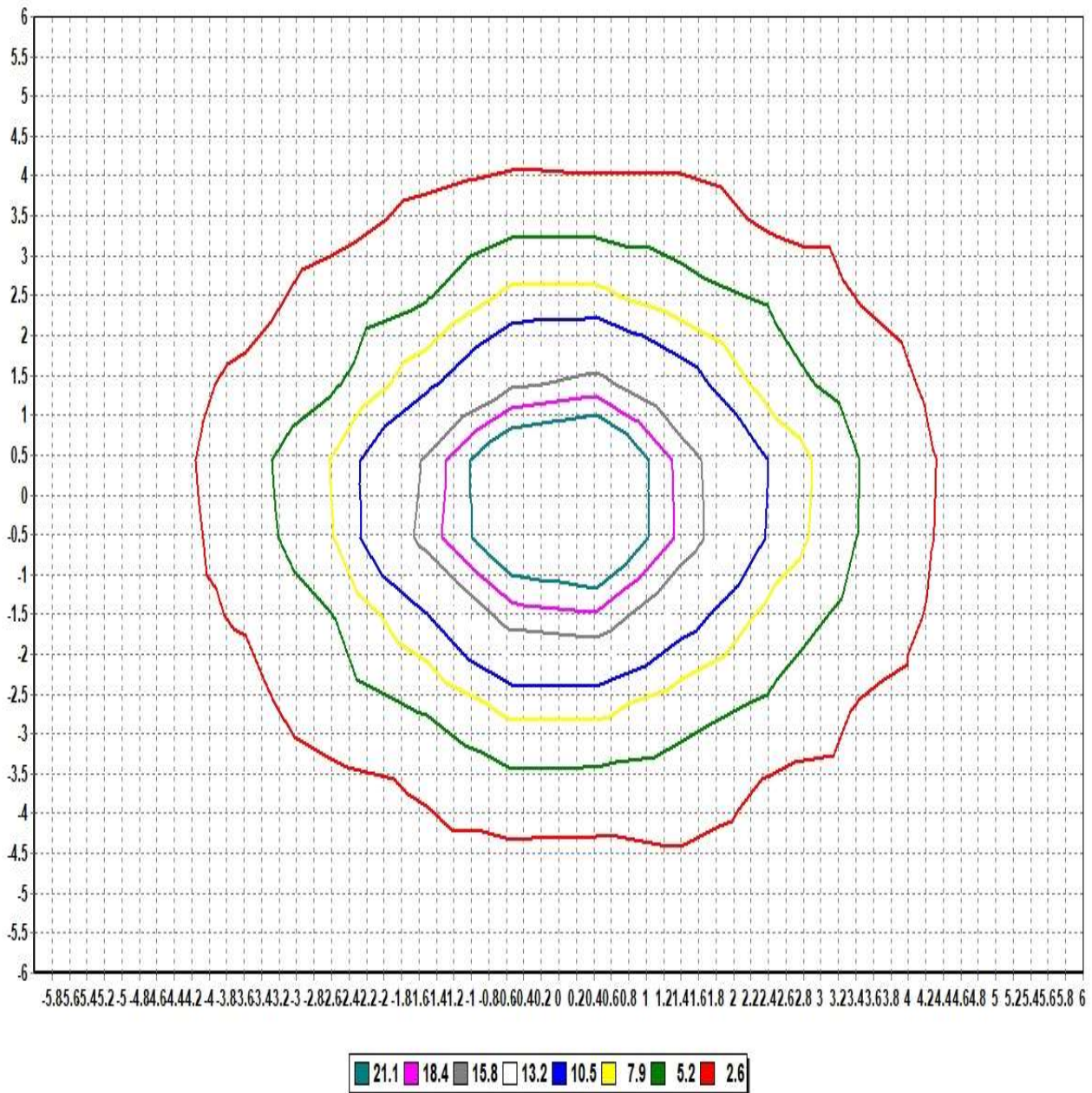
Operator

Total flux (lm) 697

Power Factor 1

Date 2023-08-30 오전 10:42:57

## 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) 23.942

Filename 230830 FN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 697

Current (A) 0.42802

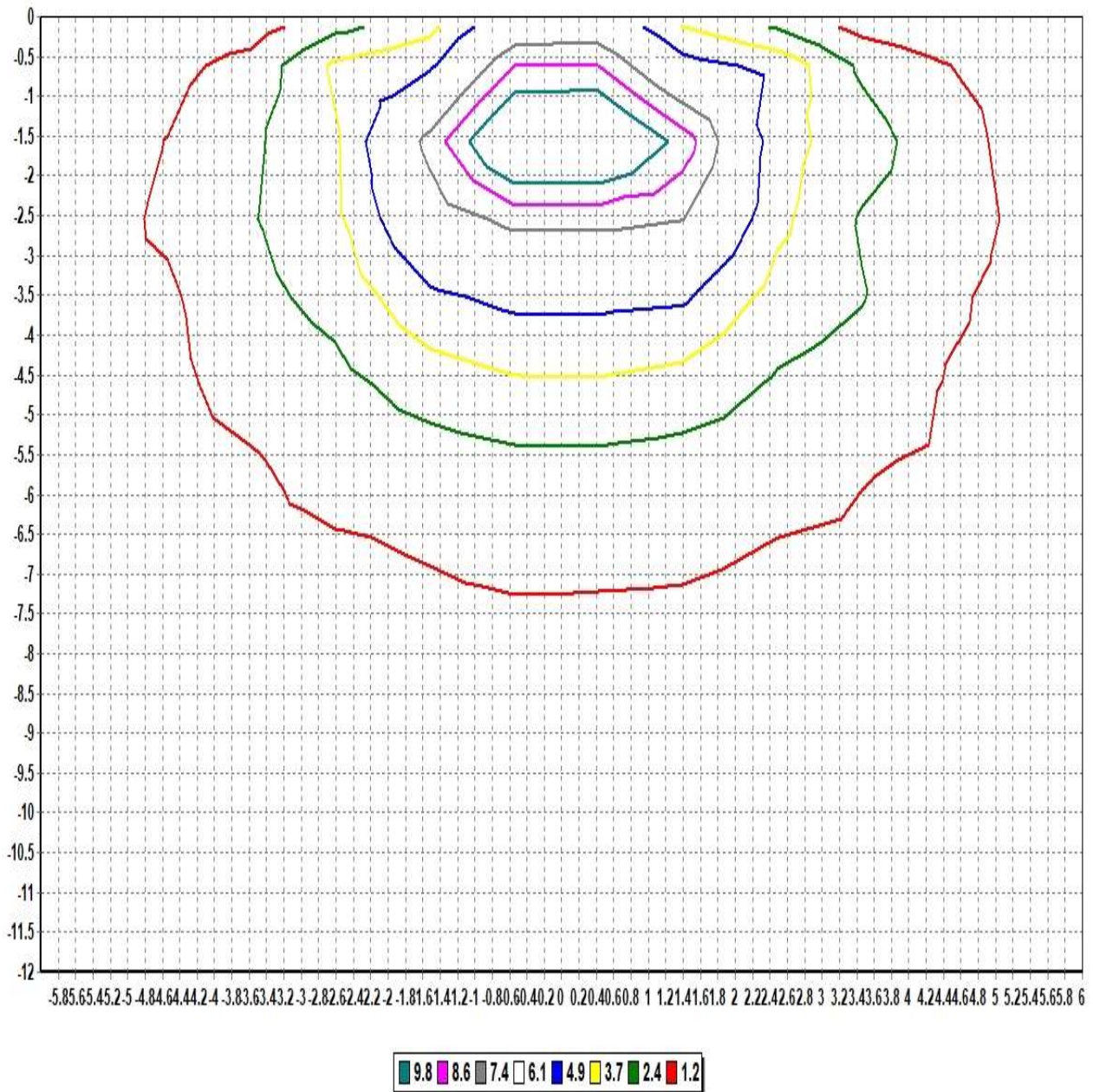
Operator

Total flux (lm) 697

Power Factor 1

Date 2023-08-30 오전 10:42:57

## 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)	23.942
Lamp flux (lm)	697	Current (A)	0.42802
Total flux (lm)	697	Power Factor	1

Report

KH FEELUX

Filename 230830 FN2 24K-24V-C90-1M.jdt

Operator

Date 2023-08-30 오전 10:42:57

## Illuminance Levels (Ground)

6.00	0.26	0.35	0.27	0.37	0.45	0.60	0.55	0.56	0.64	0.56	0.37	0.43	0.39
5.00	0.36	0.30	0.43	0.61	1.18	1.53	1.52	1.49	1.46	0.75	0.57	0.52	0.51
4.00	0.33	0.48	1.02	1.51	1.48	2.10	2.15	2.08	1.97	1.72	1.35	0.73	0.51
3.00	0.37	0.68	1.50	1.77	3.80	4.06	4.69	4.80	4.15	2.43	1.97	1.01	0.58
2.00	0.48	1.18	1.48	3.73	5.33	8.62	10.54	9.86	6.57	4.65	2.02	1.53	0.73
1.00	0.69	1.55	2.16	4.04	8.59	16.18	22.96	18.02	9.99	5.11	2.83	1.96	0.93
0.00	0.76	1.73	2.53	5.24	11.29	23.49	29.47	24.10	12.41	5.99	2.98	2.00	0.93
-1.00	0.63	1.50	2.14	4.79	9.84	17.40	24.04	18.61	10.84	5.59	2.82	1.94	0.91
-2.00	0.66	1.45	1.93	4.19	6.13	9.94	12.58	10.82	6.98	4.87	2.29	1.70	0.81
-3.00	0.55	0.83	1.75	2.20	4.54	4.98	6.09	5.51	4.77	2.60	2.11	1.07	0.66
-4.00	0.42	0.63	1.23	1.89	1.95	2.68	3.00	2.66	2.28	2.05	1.44	0.79	0.55
-5.00	0.45	0.46	0.65	0.89	1.49	1.88	2.03	1.85	1.68	0.96	0.72	0.52	0.56
-6.00	0.35	0.48	0.44	0.56	0.68	0.82	0.88	0.80	0.77	0.64	0.48	0.53	0.41
-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.) : 29.469

Illum. (Min.) : 0.2619

Illum. (Avg.) : 3.4765

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.942

Filename 230830 FN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 697

Current (A) 0.42802

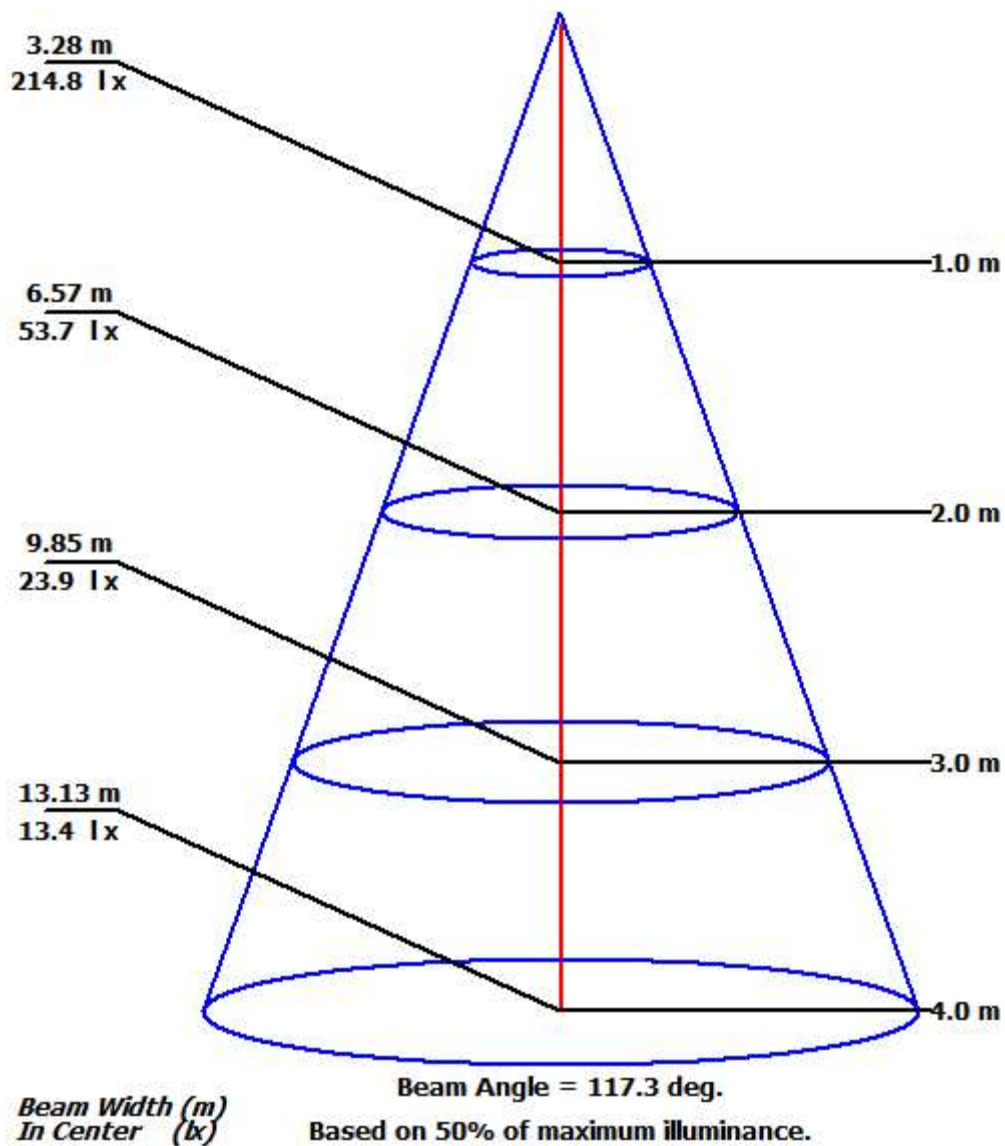
Operator

Total flux (lm) 697

Power Factor 1

Date 2023-08-30 오전 10:42:57

## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 23.942

Filename 230830 FN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 697

Current (A) 0.42802

Operator

Total flux (lm) 697

Power Factor 1

Date 2023-08-30 오전 10:42:57

## 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