

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84  
\* Date of Receipt : 231115

**2. Purpose of Report :**

**3. Number of Report :** KH FEELUX

**4. Test Standard / Item :** / 231123 FNL 3D 27K-24V-C90-20x40-1M

**5. Test Period :** 231123 ~ 231123

**6. Test Environment**

\* Ambient Temp. : 26.3 +- 3 °C  
\* Relative Humidity : 30.4 +- 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 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		0.4575 , 0.4157	
Correlated Color Temperature	K	2772	
Ra		91.72	
Power Factor		1.000	
Input Voltage	V	23.909	
Input Current	A	0.765	
Input Watt	W	18.292	
Lamp Flux	lm	1400.1	
Efficient	lm/W	76.54	
luminous Intensity (Max , Center)	cd	2692 , 2681	
Illuminance	lx	2681	1 m
		670	2 m
		298	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:Filename 231123 FNL 3D 27K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1400

Current (A)

0.7Operator

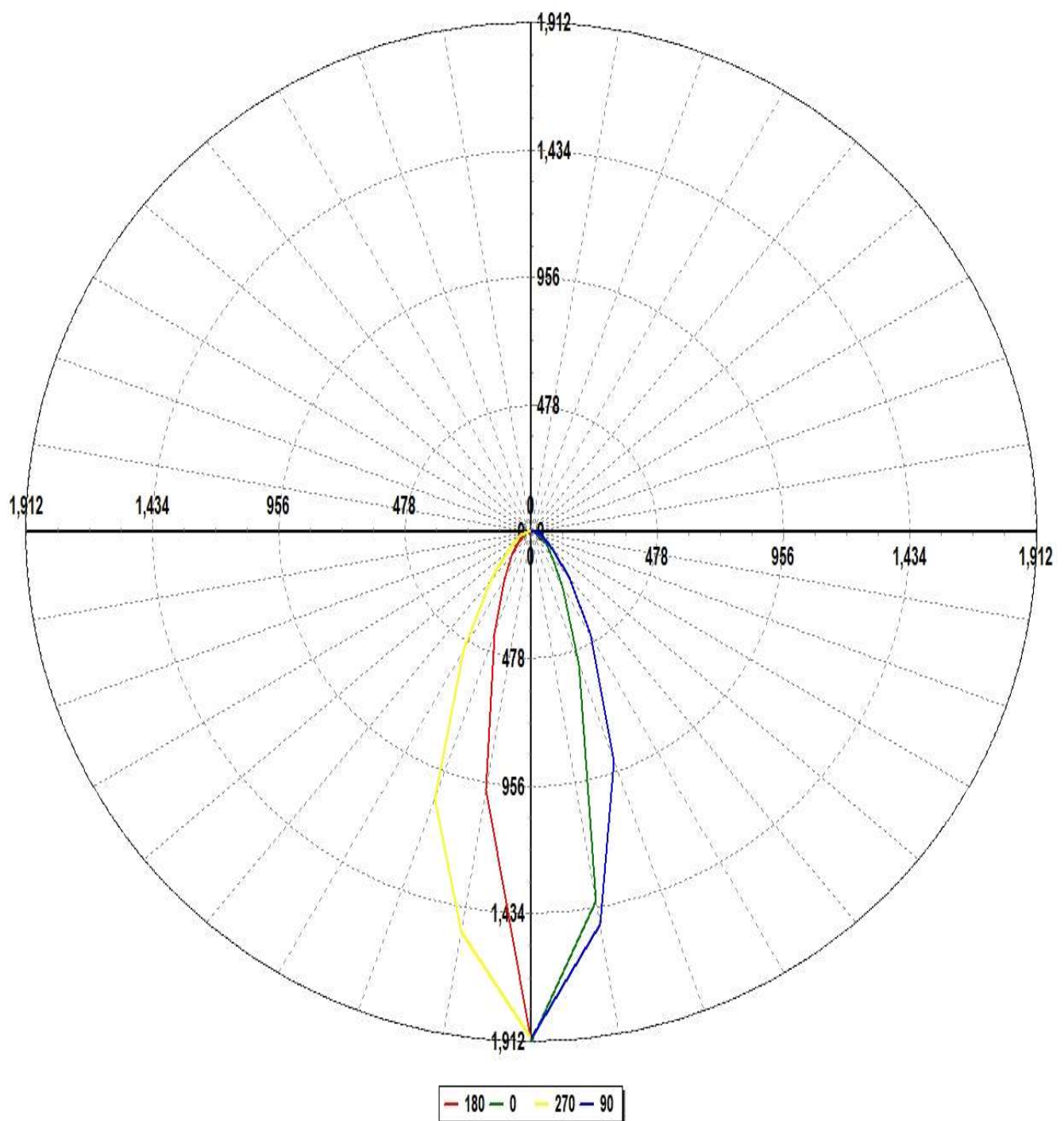
Total flux (lm) 1400

Power Factor

Date

2023-11-23 오후 12:04:20

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

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Current (A)

0.7Operator

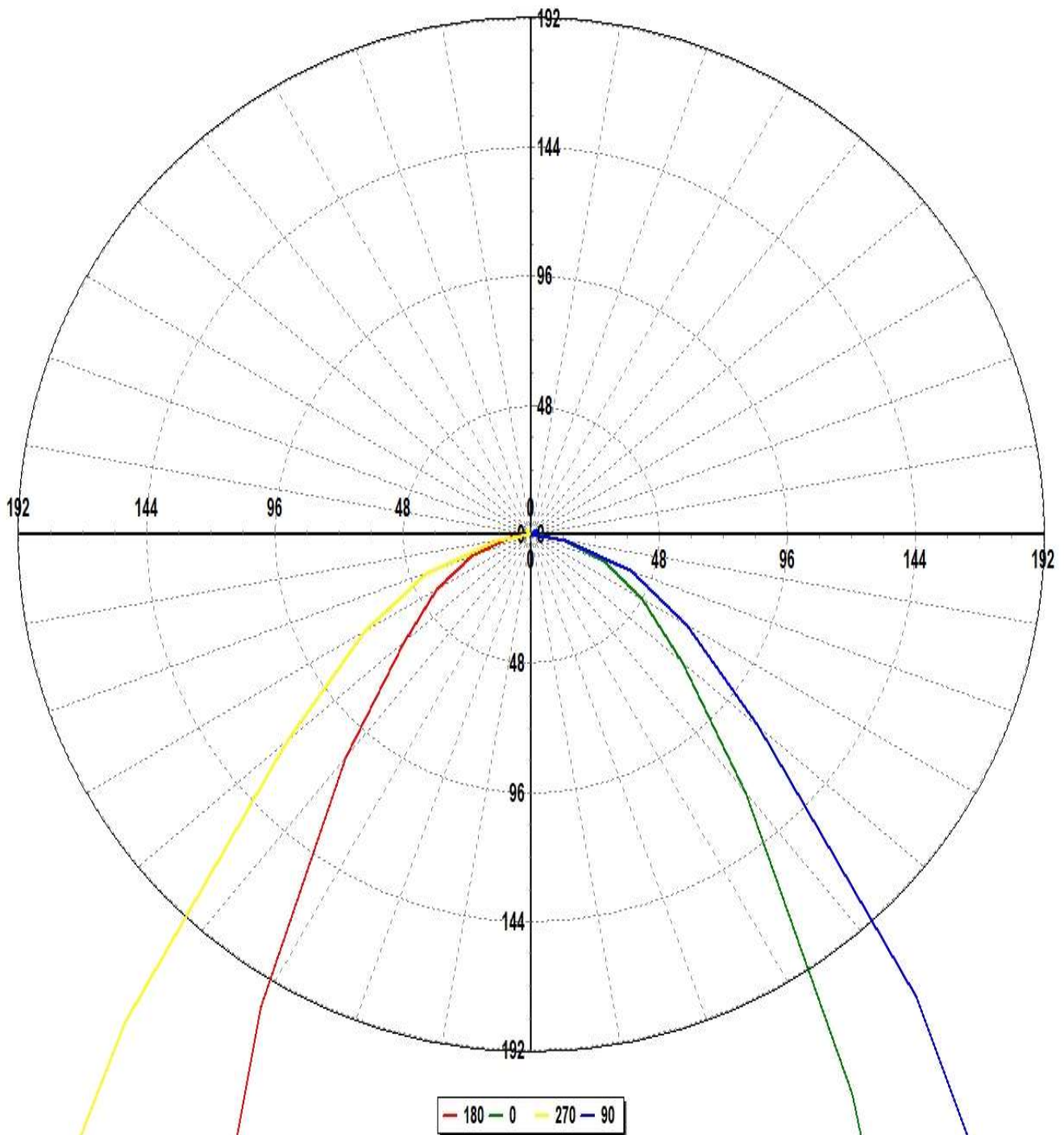
Total flux (lm) 1400

Power Factor

Date

2023-11-23 오후 12:04:20

## 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) 1400

Current (A)

0.7Operator

Total flux (lm) 1400

Power Factor

Date

2023-11-23 오후 12:04:20

## Luminous Intensity Data

Maximum (cd) : 2692

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	2680.96	2692.28	2678.24	2663.28	2639.98	2579.66	2680.96	2692.28	2678.24	2663.28
10	1969.74	1713.1	2223.01	2095.92	1992.42	1457.84	1377.16	1772.45	1796.28	2140.48
20	744.49	726.87	1041.86	1286.65	908.81	624.61	573.52	710.59	868.36	1496.1
30	336.63	359.07	498.08	629.84	439.99	314.26	283.41	332.85	457.95	710.56
40	175.33	184.21	244.22	314.29	222.49	164.12	151.37	173.38	234.3	331.21
50	103.66	112.73	139.47	155.05	128.59	99.19	87.02	103.21	133.19	167.39
60	67.35	72.29	89.44	94.19	81.56	62.44	56.99	64.55	83.45	100.29
70	40.56	42.98	54.54	55.37	47.59	35.31	32.18	35.51	48.12	58.69
80	18.08	18.24	20.97	18.66	17.1	12.4	11.01	13.23	16.04	17.83
90	2.63	2.13	2.09	0.14	1.6	0.93	1.23	0.88	1.3	0.8
100	0.38	1.76	0.85	0.42	0.81	0.3	1.4	0.67	0.7	1.4
110	1.32	1.41	1.3	1.71	2.06	1.31	1.72	1.59	1.58	1.73
120	1.66	1.64	1.88	2.4	2.8	2.37	2.16	2.46	2.46	2.51
130	3.18	3.26	3.32	3.98	3.98	4.67	3.61	3.87	3.84	3.43

Luminaire KH FEELUX

Lamp

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KH FEELUX

No. of lamps 1

Voltage (V)

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Lamp flux (lm) 1400

Current (A)

0.7Operator

Total flux (lm) 1400

Power Factor

Date

2023-11-23 오후 12:04:20

## Luminous Intensity Data (Continued)

Maximum (cd) : 2692

Minimum (cd) : 0

G/C	300	330	360
0	2639.98	2579.66	2680.96
10	2008.15	2045.46	1969.74
20	942.78	798.73	744.49
30	484.82	373.76	336.63
40	245.16	193.07	175.33
50	140.63	115.55	103.66
60	90.46	74.01	67.35
70	53.9	43.78	40.56
80	20.72	18.57	18.08
90	1.88	2.41	2.63
100	1.02	0.12	0.38
110	0.92	1.55	1.32
120	2.39	2.5	1.66
130	3.09	3.44	3.18

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.1	Filename	231123 FNL 3D 27K-24V-C90-20x40-1M.jdt
Lamp flux (lm)	1400	Current (A)	0.7	Operator	
Total flux (lm)	1400	Power Factor		Date	2023-11-23 오후 12:04:20

## Luminous Flux Table

Total Lamp Lumens: 1400.1

Luminaire Efficiency (lm/W): 76.54

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	63.50	63.50	4.54	4.54
10	358.06	421.55	30.11	30.11
20	334.74	756.29	54.02	54.02
30	238.27	994.56	71.03	71.04
40	154.48	1149.04	82.07	82.07
50	103.87	1252.91	89.49	89.49
60	74.06	1326.97	94.78	94.78
70	47.05	1374.02	98.14	98.14
80	18.23	1392.25	99.44	99.44
90	1.64	1393.90	99.56	99.56
100	0.88	1394.78	99.62	99.62
110	1.56	1396.34	99.73	99.73
120	2.15	1398.50	99.89	99.89
130	1.58	1400.08	100.00	100.00

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

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Lamp flux (lm) 1400

Current (A)

0.7Operator

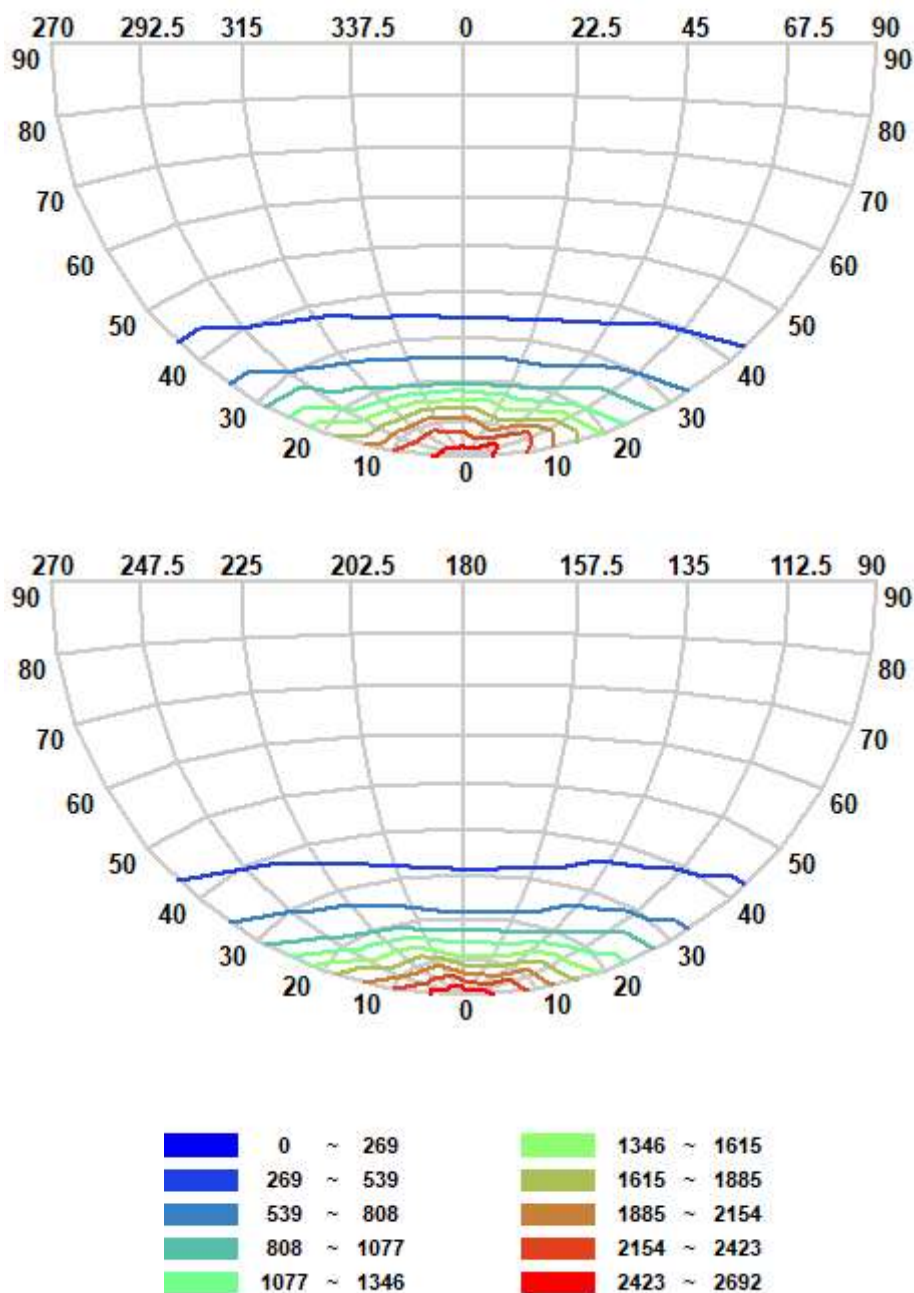
Total flux (lm) 1400

Power Factor

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## IsoCandela (Type C)





Luminaire KH FEELUX

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No. of lamps 1

Voltage (V)

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Lamp flux (lm) 1400

Current (A)

0.7Operator

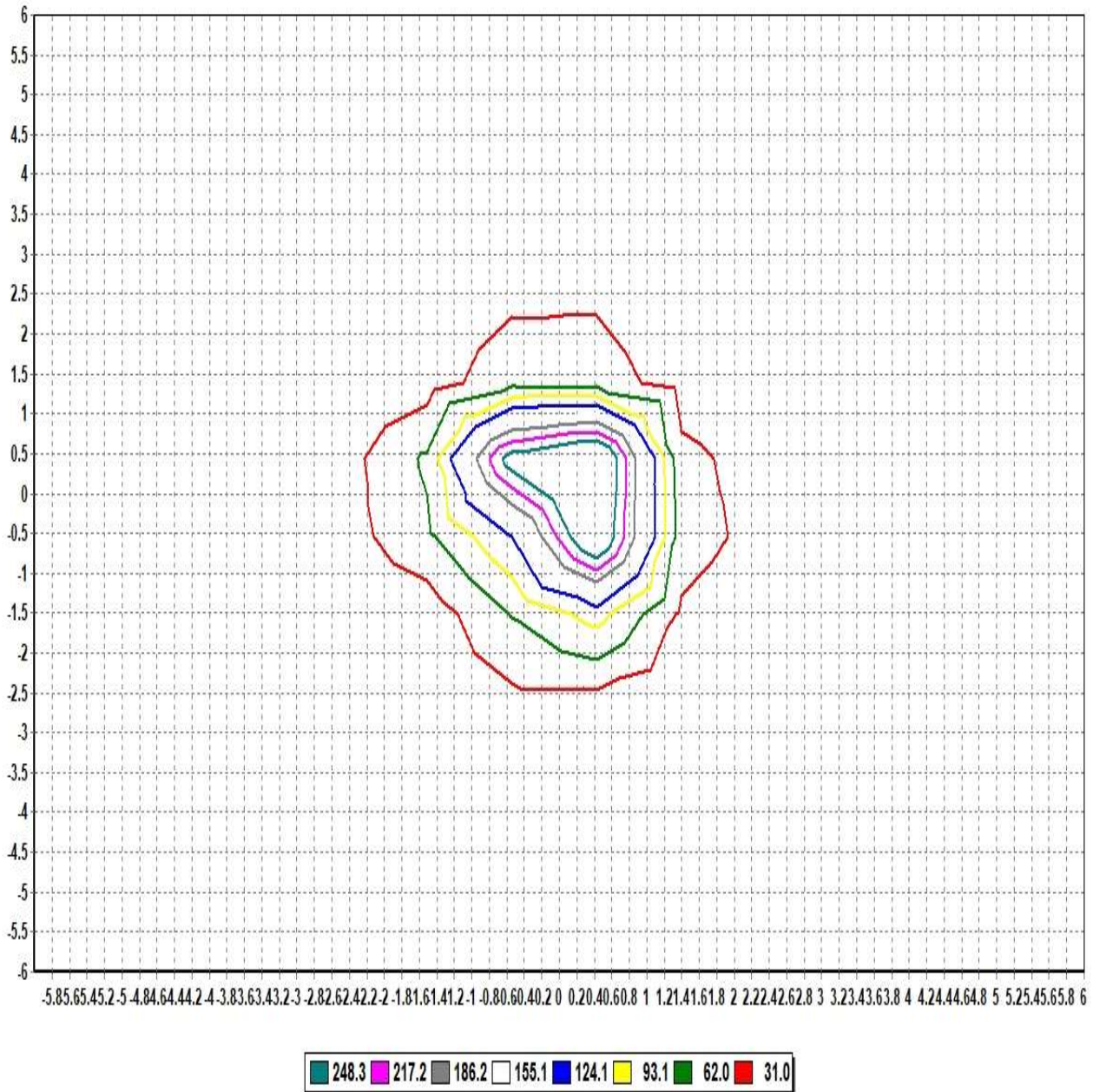
Total flux (lm) 1400

Power Factor

Date

2023-11-23 오후 12:04:20

## 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:Filename 231123 FNL 3D 27K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1400

Current (A)

0.7Operator

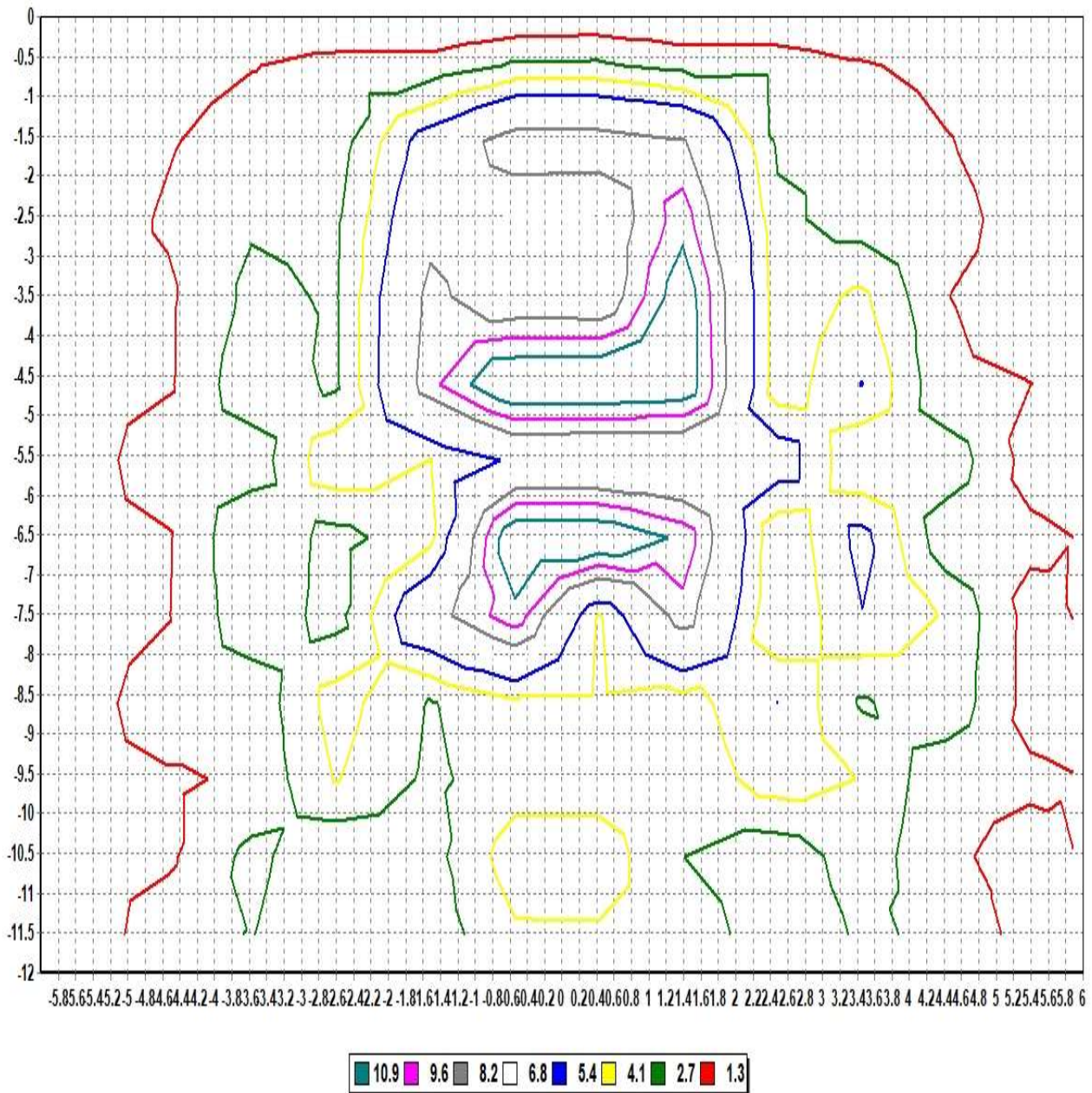
Total flux (lm) 1400

Power Factor

Date

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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

No. of lamps	1	Voltage (V)	23.909
Lamp flux (lm)	1400	Current (A)	0.7651
Total flux (lm)	1400	Power Factor	1

Report

KH FEELUX

Filename 231123 FNL 3D 27K-24V-C90-20x40-1M.jdt

Operator

Date 2023-11-23 오후 12:04:20

## Illuminance Levels (Ground)

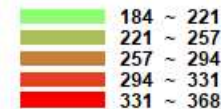
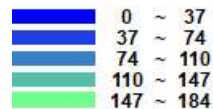
6.00	0.30	0.41	0.33	0.39	0.51	0.63	0.68	0.64	0.48	0.36	0.32	0.39	0.24
5.00	0.32	0.34	0.51	0.75	1.47	1.88	2.14	1.93	1.30	0.72	0.49	0.28	0.32
4.00	0.23	0.38	1.29	2.05	1.68	2.47	2.85	2.48	1.49	1.85	1.00	0.40	0.25
3.00	0.38	0.50	1.46	2.15	7.53	5.43	7.67	4.78	6.05	1.68	1.47	0.55	0.34
2.00	0.44	1.30	1.60	4.42	8.50	15.13	30.17	12.40	6.07	4.54	1.44	1.20	0.42
1.00	0.40	1.19	1.58	4.56	14.01	63.65	234.13	41.88	11.88	4.23	1.88	1.44	0.50
0.00	0.40	1.21	1.66	4.10	14.04	152.84	367.76	218.33	16.46	4.84	1.97	1.44	0.49
-1.00	0.41	1.23	1.59	3.77	11.07	36.88	239.77	70.96	15.53	5.09	1.87	1.41	0.48
-2.00	0.36	1.07	1.29	3.94	5.41	11.69	32.95	16.57	9.18	5.14	1.78	1.45	0.50
-3.00	0.29	0.45	1.26	1.47	5.79	4.46	8.21	5.90	8.00	2.33	1.68	0.60	0.43
-4.00	0.20	0.33	0.87	1.75	1.35	2.51	3.06	2.48	1.85	2.22	1.40	0.45	0.28
-5.00	0.27	0.23	0.44	0.66	1.20	1.99	2.30	1.89	1.60	0.80	0.55	0.37	0.37
-6.00	0.21	0.35	0.29	0.30	0.42	0.65	0.72	0.61	0.56	0.44	0.36	0.45	0.33
-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.) : 367.76

Illum. (Min.) : 0.2007

Illum. (Avg.) : 11.186

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

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Current (A)

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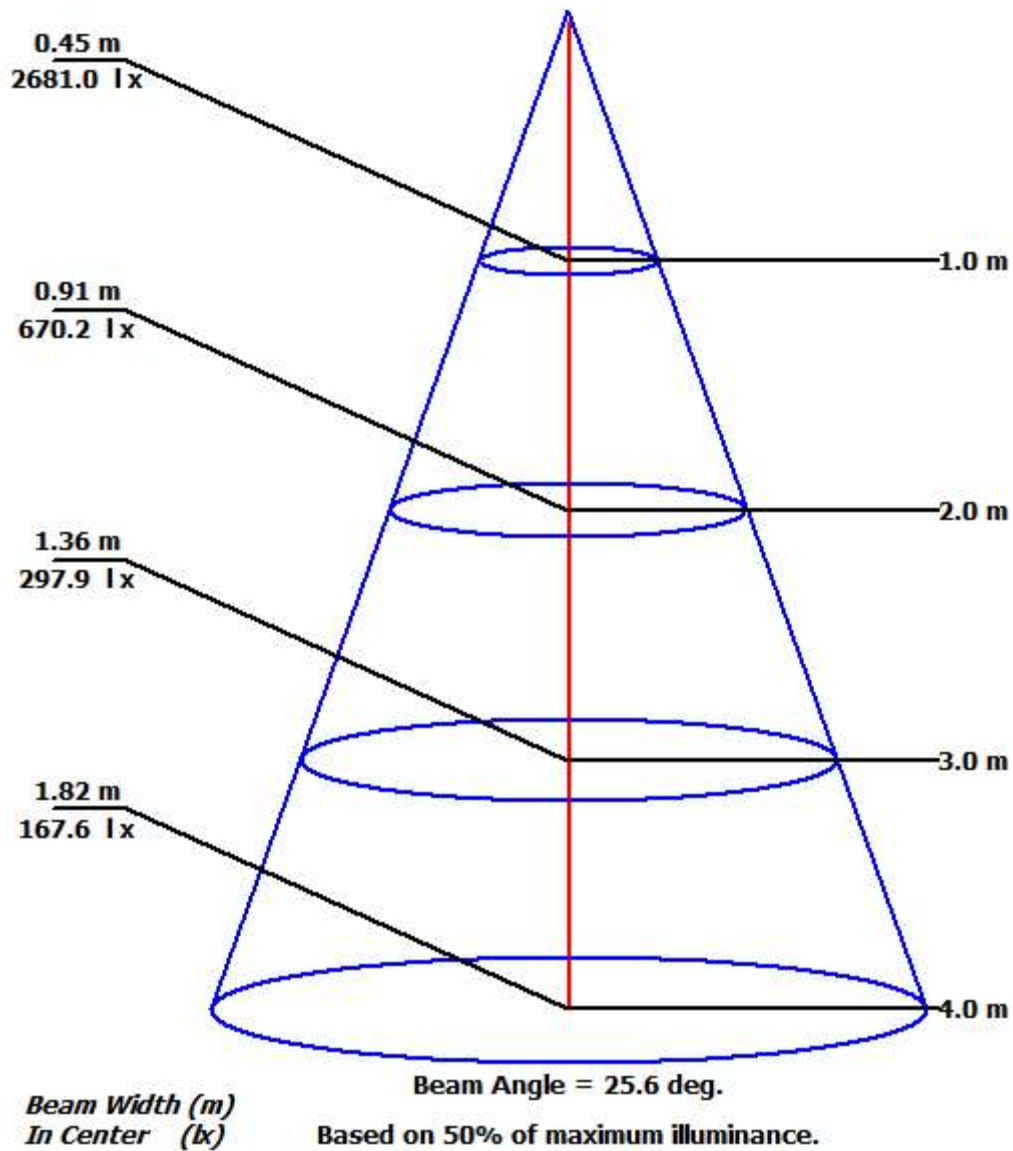
Total flux (lm) 1400

Power Factor

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2023-11-23 오후 12:04:20

## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.909
Lamp flux (lm)	1400	Current (A)	0.7651
Total flux (lm)	1400	Power Factor	1

Report

KH FEELUX

Filename 231123 FNL 3D 27K-24V-C90-20x40-1M.jdt

Operator

Date 2023-11-23 오후 12:04:20

## 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