

# 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 30K-24V-C90-20x40-1M

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

**6. Test Environment**

\* Ambient Temp. : 26.3 +- 3 °C  
\* Relative Humidity : 30.3 +- 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		0.4413 , 0.4018	
Correlated Color Temperature	K	2909	
Ra		91.66	
Power Factor		1.000	
Input Voltage	V	23.910	
Input Current	A	0.764	
Input Watt	W	18.261	
Lamp Flux	lm	1391.6	
Efficient	lm/W	76.21	
luminous Intensity (Max , Center)	cd	2730 , 2730	
Illuminance	lx	2730	1 m
		683	2 m
		303	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)

23Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1392

Current (A)

0.7Operator

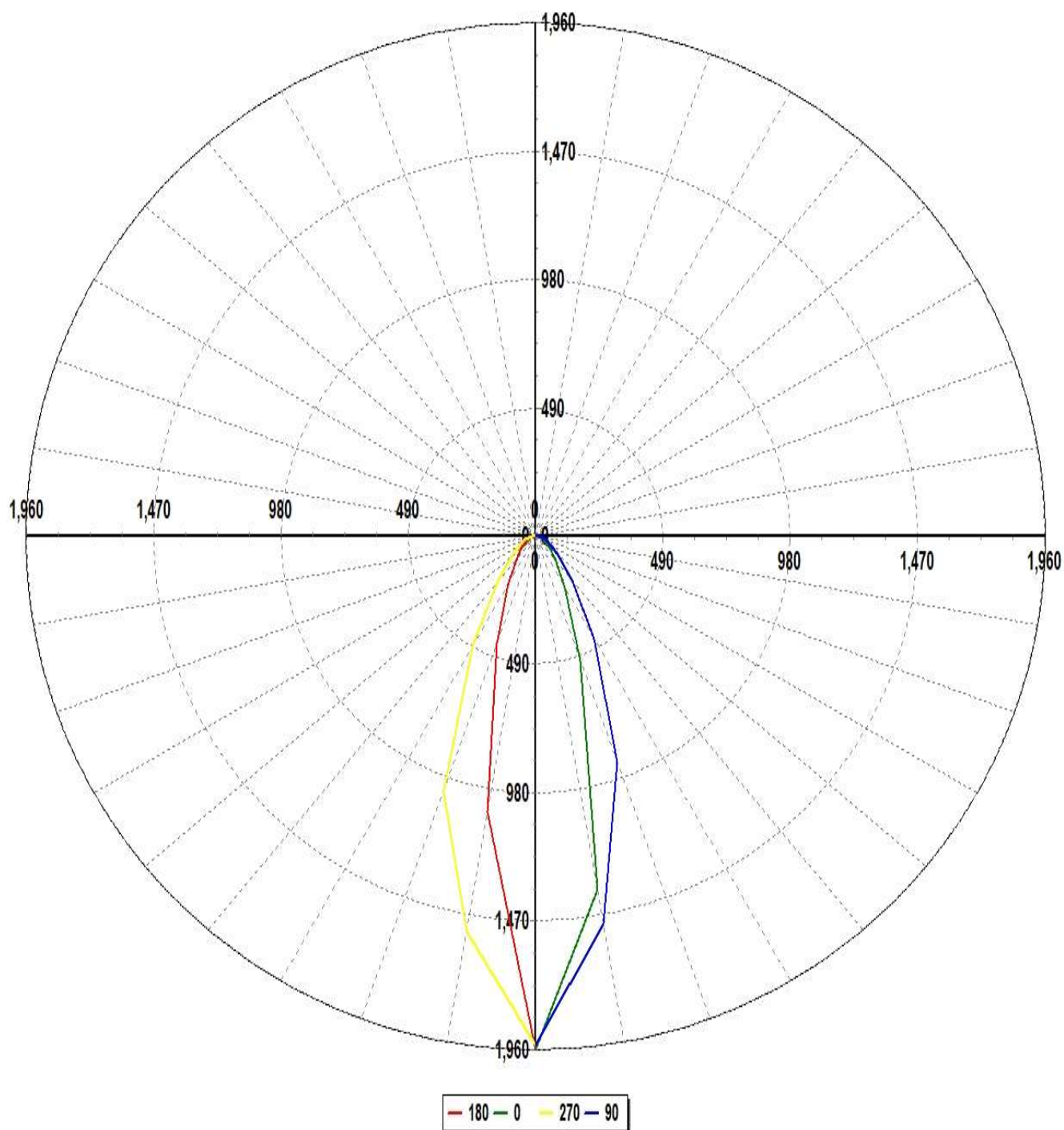
Total flux (lm) 1392

Power Factor

Date

2023-11-23 오후 12:22:13

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1392

Current (A)

0.7Operator

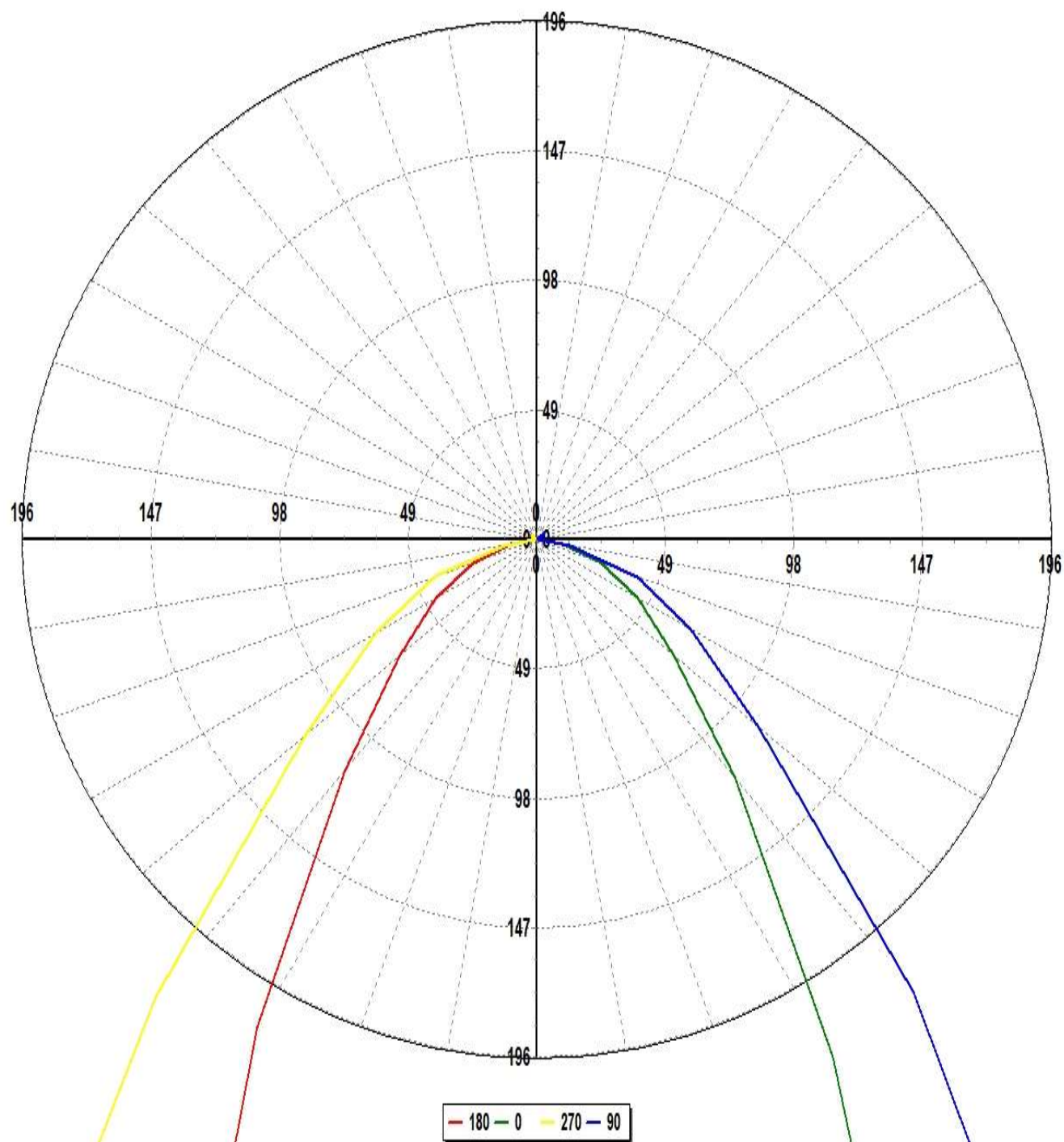
Total flux (lm) 1392

Power Factor

Date

2023-11-23 오후 12:22:13

## Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1392

Current (A)

0.7Operator

Total flux (lm) 1392

Power Factor

Date

2023-11-23 오후 12:22:13

## Luminous Intensity Data

Maximum (cd) : 2730

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	2730.11	2726.11	2706.76	2705.97	2691.77	2676.17	2730.11	2726.11	2706.76	2705.97
10	1903.25	1679.22	2196	2092.96	2070.15	1541.81	1485.89	1889.92	1866.95	2130.68
20	703.27	707.69	1040.39	1277.25	939.94	653.63	610.06	734.18	897.56	1440.6
30	314.45	352.73	488.74	629.49	451.69	325.95	296.83	338.82	457.74	673.27
40	163.34	178.87	241.48	311.08	227.17	171.09	158.42	175.16	230.48	314.91
50	95.36	108.28	137.5	153.38	131.66	106.31	94.95	106.5	131.8	159.91
60	61.69	69.72	85.86	94.45	86.35	70.25	61.83	69.67	86.11	98.24
70	35.08	38.76	51.12	57.14	52	39.93	35.77	39.63	51.52	56.89
80	13.92	15.01	18.87	17.61	19.2	15.71	14.23	15.07	18.17	17.34
90	0.89	1.61	1.2	1.02	1.53	1.38	0.38	0.67	0.97	0.73
100	1.03	0.7	1.12	0.57	0.49	0.49	0.35	1.48	1.59	0.89
110	0.77	1.58	1.77	2.1	1.56	1.98	1.03	2.12	1.71	1.41
120	1.58	2.03	1.59	2.61	2.69	2.54	2.1	1.98	2.66	3.1
130	3.68	3.27	3.43	5.3	3.91	3.59	3.48	3.67	2.62	3.29

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1392

Current (A)

0.7Operator

Total flux (lm) 1392

Power Factor

Date

2023-11-23 오후 12:22:13

## Luminous Intensity Data (Continued)

Maximum (cd) : 2730

Minimum (cd) : 0

G/C	300	330	360
0	2691.77	2676.17	2730.11
10	1941.13	1973.8	1903.25
20	887.32	749.26	703.27
30	451.88	346.37	314.45
40	226.59	178.01	163.34
50	132.82	105.49	95.36
60	84.55	67.99	61.69
70	50.67	38.17	35.08
80	17.62	15.16	13.92
90	1.56	0.88	0.89
100	1.2	1.28	1.03
110	1.95	0.82	0.77
120	2.56	2.32	1.58
130	3.71	3.26	3.68

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1392

Current (A)

0.7Operator

Total flux (lm) 1392

Power Factor

Date

2023-11-23 오후 12:22:13

## Luminous Flux Table

Total Lamp Lumens: 1391.6

Luminaire Efficiency (lm/W): 76.20

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	64.70	64.70	4.65	4.65
10	360.90	425.61	30.58	30.58
20	332.17	757.78	54.45	54.45
30	234.01	991.79	71.27	71.27
40	151.16	1142.95	82.13	82.13
50	102.35	1245.31	89.49	89.49
60	74.04	1319.35	94.81	94.81
70	46.89	1366.23	98.18	98.18
80	17.79	1384.02	99.46	99.46
90	1.17	1385.19	99.54	99.54
100	1.01	1386.20	99.61	99.61
110	1.61	1387.81	99.73	99.73
120	2.19	1390.01	99.89	99.89
130	1.57	1391.57	100.00	100.00

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1392

Current (A)

0.7Operator

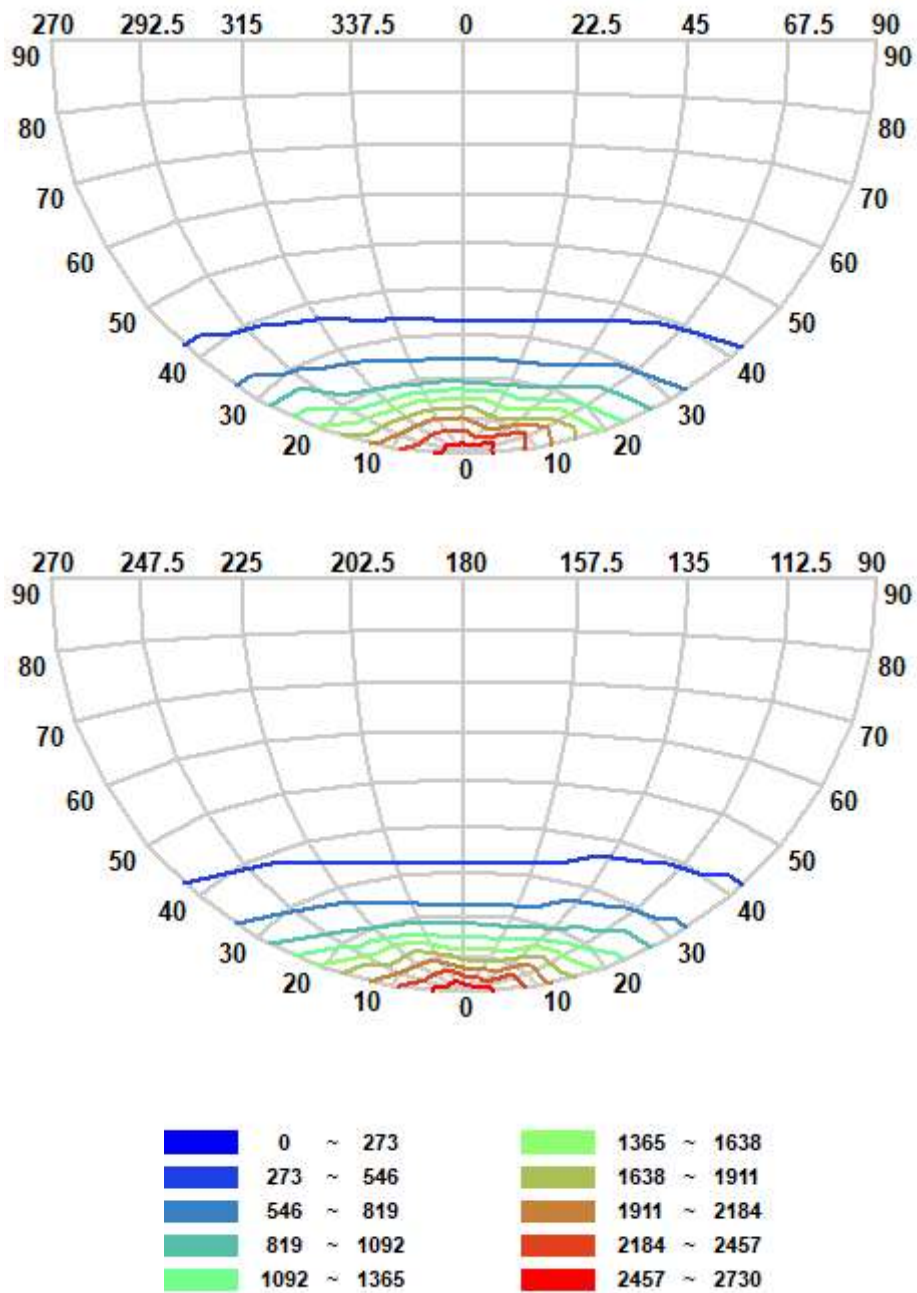
Total flux (lm) 1392

Power Factor

Date

2023-11-23 오후 12:22:13

## IsoCandela (Type C)





Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1392

Current (A)

0.7Operator

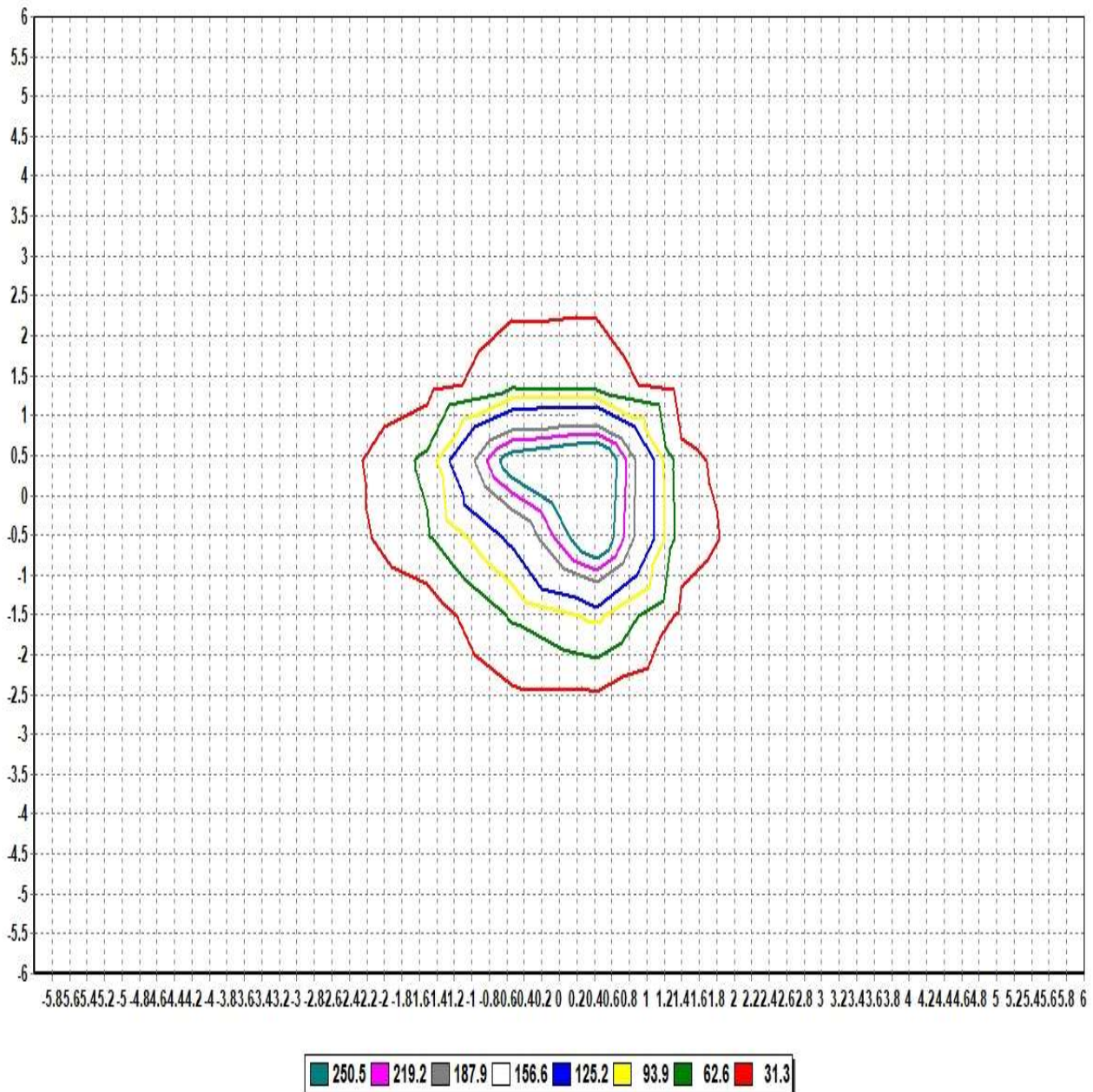
Total flux (lm) 1392

Power Factor

Date

2023-11-23 오후 12:22:13

## 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)

23Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1392

Current (A)

0.7Operator

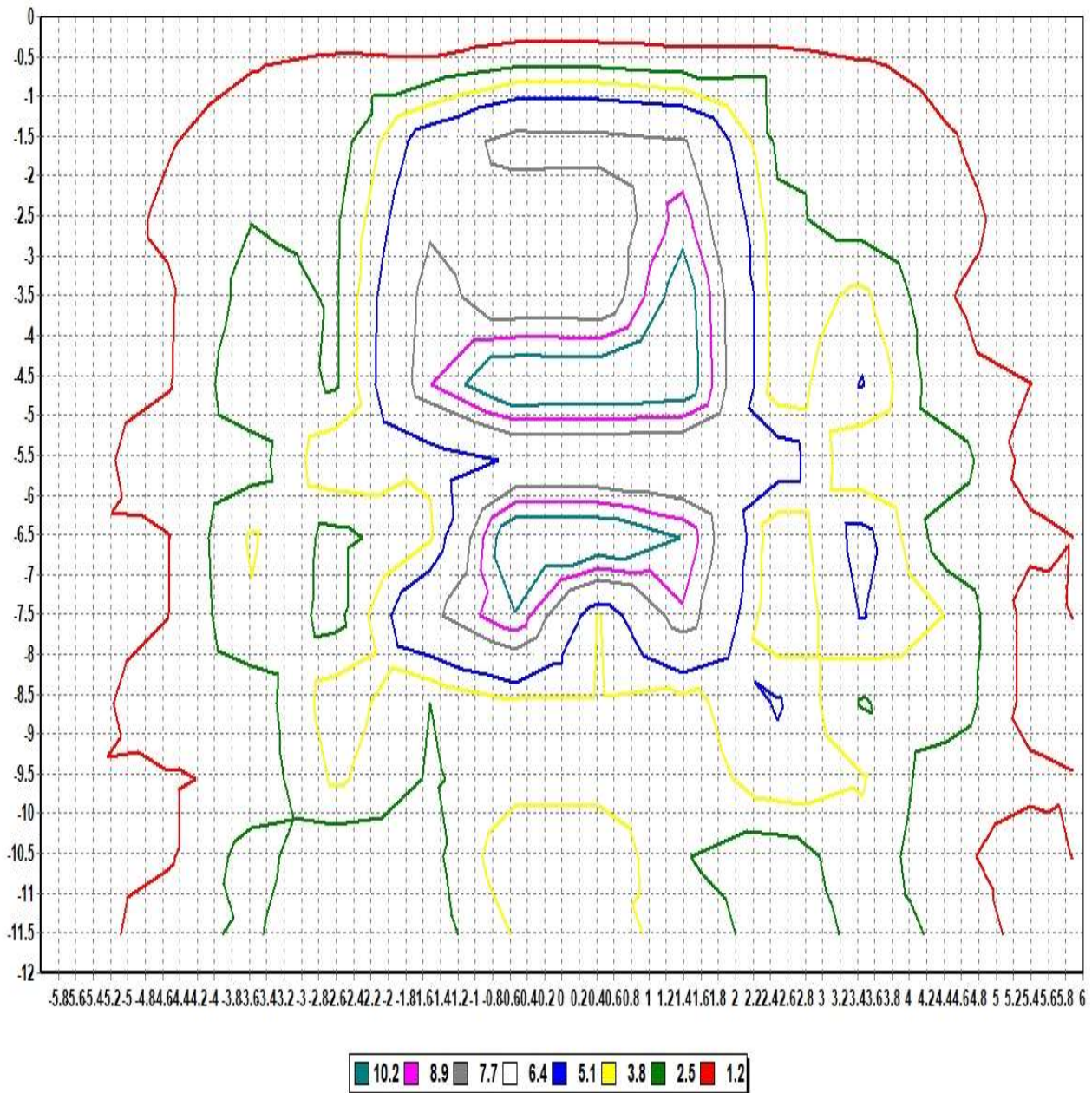
Total flux (lm) 1392

Power Factor

Date

2023-11-23 오후 12:22:13

## 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)	23.91
Lamp flux (lm)	1392	Current (A)	0.7637
Total flux (lm)	1392	Power Factor	1

Report

KH FEELUX

Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Operator

Date 2023-11-23 오후 12:22:13

## Illuminance Levels (Ground)

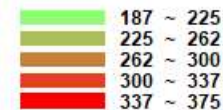
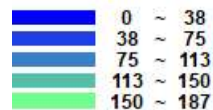
6.00	0.31	0.42	0.35	0.42	0.54	0.61	0.69	0.64	0.45	0.33	0.30	0.37	0.23
5.00	0.35	0.36	0.53	0.76	1.50	1.86	2.12	1.91	1.26	0.69	0.46	0.25	0.30
4.00	0.25	0.42	1.31	2.05	1.75	2.43	2.84	2.44	1.44	1.81	0.94	0.36	0.22
3.00	0.41	0.56	1.56	2.19	7.48	5.48	7.59	4.64	5.97	1.58	1.36	0.49	0.32
2.00	0.48	1.36	1.69	4.62	8.53	15.38	30.01	12.08	5.75	4.24	1.38	1.14	0.39
1.00	0.44	1.29	1.73	4.73	14.33	64.30	233.77	40.16	11.49	4.01	1.73	1.32	0.44
0.00	0.44	1.32	1.81	4.42	14.70	164.88	374.50	210.91	15.36	4.47	1.81	1.32	0.44
-1.00	0.46	1.33	1.75	3.96	11.23	38.26	238.50	67.15	14.36	4.75	1.72	1.29	0.43
-2.00	0.39	1.13	1.38	4.14	5.64	11.77	31.27	15.39	8.67	4.73	1.67	1.36	0.46
-3.00	0.32	0.49	1.35	1.58	5.72	4.51	7.83	5.60	7.60	2.23	1.55	0.54	0.40
-4.00	0.22	0.36	0.93	1.75	1.44	2.48	2.96	2.46	1.74	2.12	1.33	0.41	0.24
-5.00	0.30	0.25	0.46	0.69	1.24	1.93	2.21	1.85	1.52	0.78	0.53	0.36	0.34
-6.00	0.23	0.37	0.31	0.33	0.45	0.65	0.70	0.62	0.54	0.41	0.34	0.43	0.32
-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.) : 374.50

Illum. (Min.) : 0.2186

Illum. (Avg.) : 11.175

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1392

Current (A)

0.7Operator

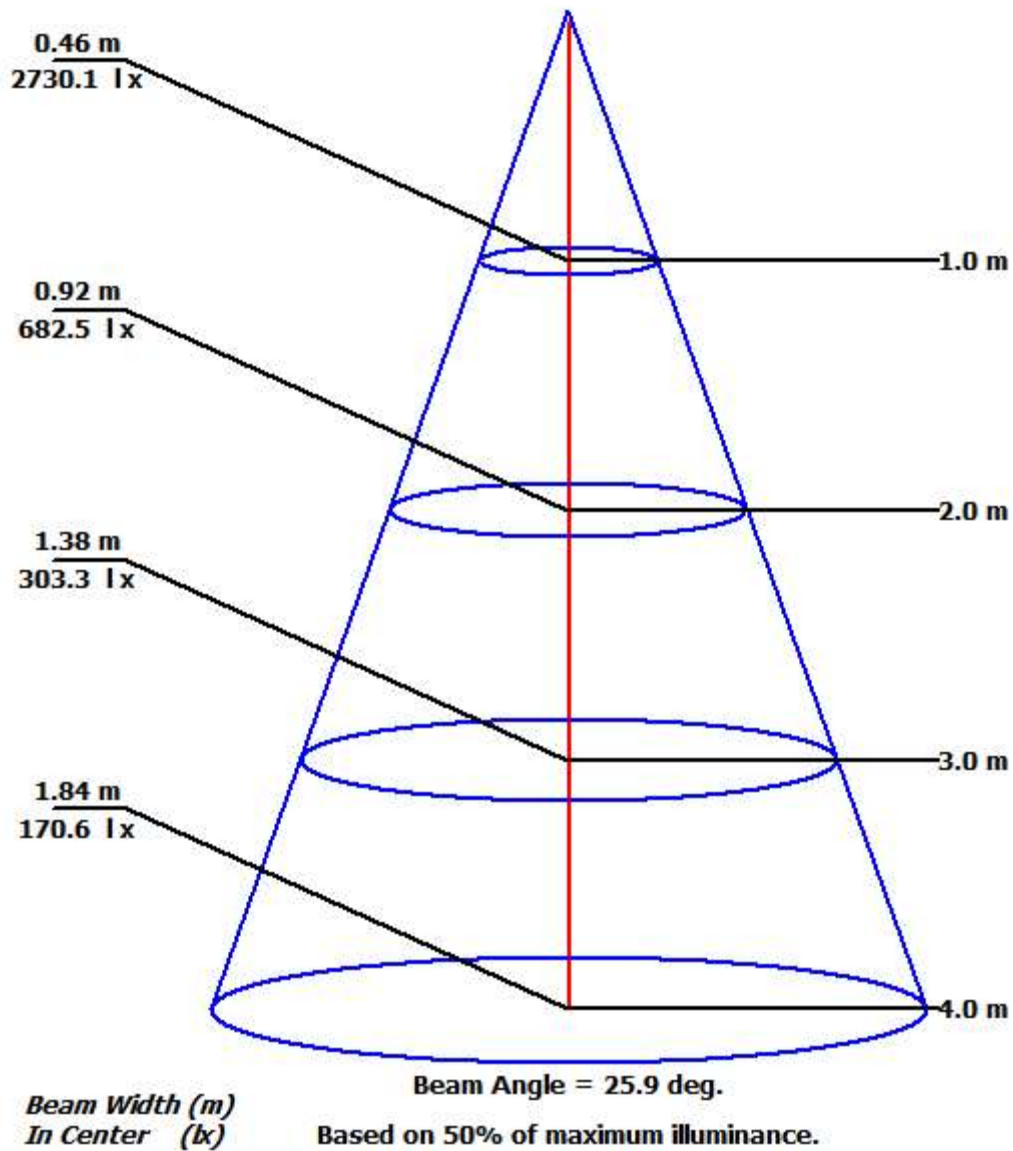
Total flux (lm) 1392

Power Factor

Date

2023-11-23 오후 12:22:13

## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.91
Lamp flux (lm)	1392	Current (A)	0.7637
Total flux (lm)	1392	Power Factor	1

Report

KH FEELUX

Filename 231123 FNL 3D 30K-24V-C90-20x40-1M.jdt

Operator

Date 2023-11-23 오후 12:22:13

## 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