

# TEST REPORT

**1. Applicant**

\* Client Name : KH FEELUX Co. Ltd.  
\* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-Si Gyeonggi-do South Korea  
\* Date of Receipt : 240523

**2. Purpose of Report :**

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

**4. Test Standard / Item :** / 240613 FNL 3D 35K-24V-C90-45D-1M

**5. Test Period :** 240613 ~ 240613

**6. Test Environment**

\* Ambient Temp. : 25.0 +- 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	
	장상윤	Sign	장상윤	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		0.4209 , 0.3998	
Correlated Color Temperature	K	3255	
Ra		93.11	
Power Factor		1.000	
Input Voltage	V	23.897	
Input Current	A	0.826	
Input Watt	W	19.739	
Lamp Flux	lm	1456.1	
Efficient	lm/W	73.77	
luminous Intensity (Max , Center)	cd	1594 , 1594	
Illuminance	lx	1594	1 m
		398	2 m
		177	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)

23.89Filename 240613 FNL 3D 35K-24V-C90-45D-1M.jdt

Lamp flux (lm) 1456

Current (A)

0.82Operator

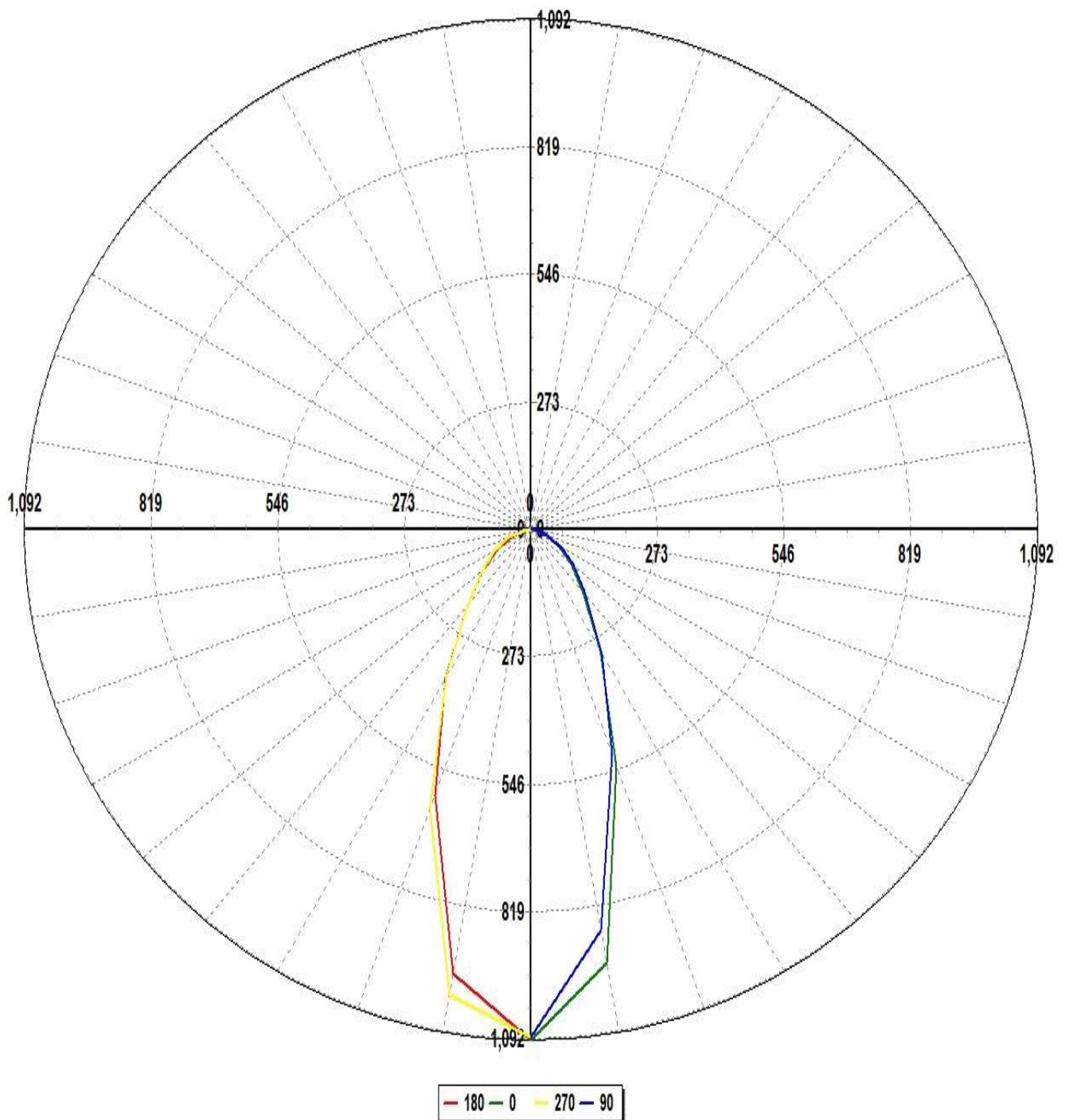
Total flux (lm) 1456

Power Factor

Date

2024-06-13 오후 2:50:16

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

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Current (A)

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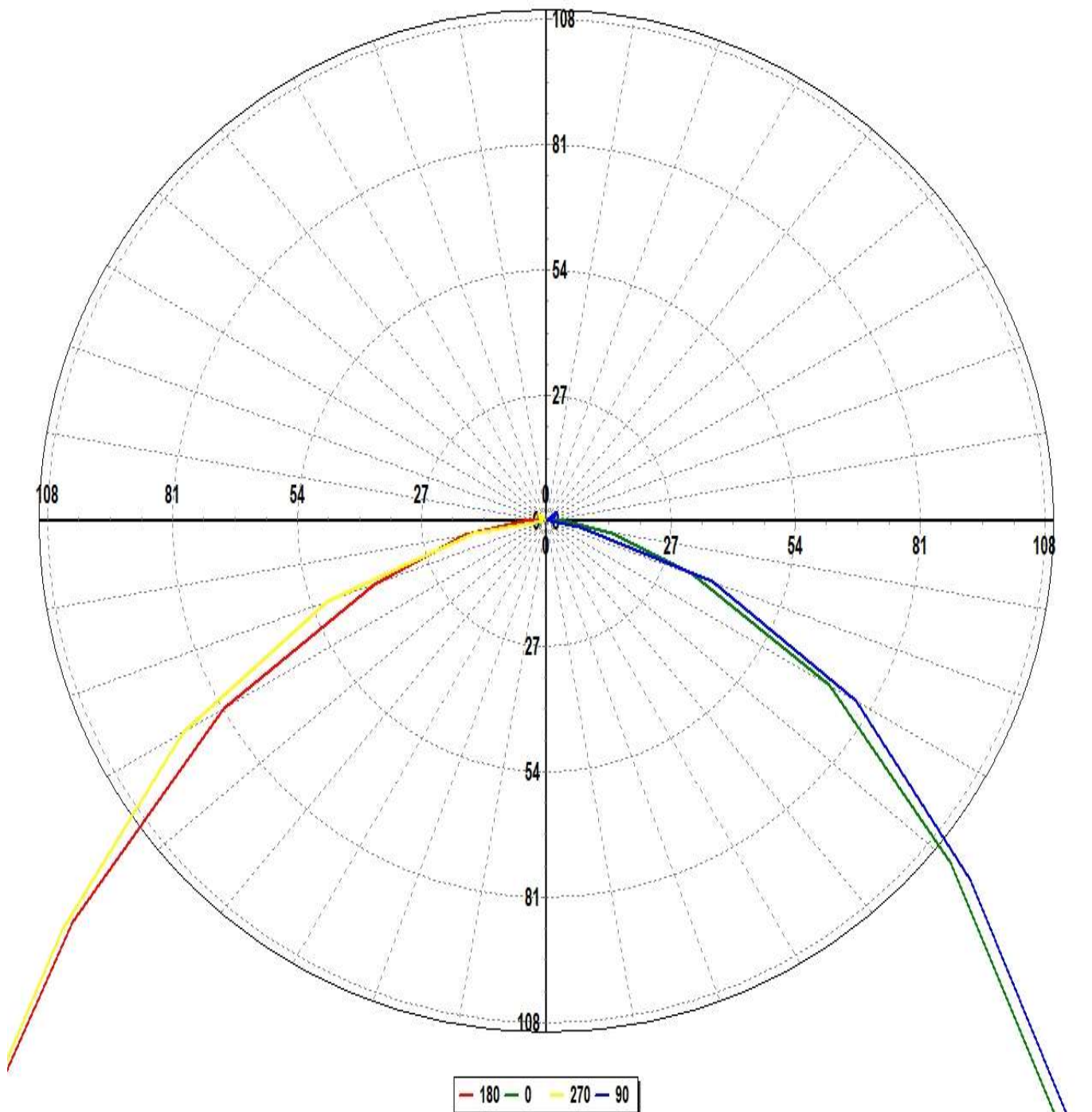
Total flux (lm) 1456

Power Factor

Date

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## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.8	Filename	240613 FNL 3D 35K-24V-C90-45D-1M.jdt
Lamp flux (lm)	1456	Current (A)	0.82	Operator	
Total flux (lm)	1456	Power Factor		Date	2024-06-13 오후 2:50:16

## Luminous Intensity Data

Maximum (cd) : 1594

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270
0	1593.55	1588.13	1587.64	1584.84	1583.87	1579.43	1593.55	1588.13	1587.64	1584.84
10	1371.68	1264.31	1365.33	1269.35	1367.61	1263.34	1405.85	1482.28	1400.81	1475.21
20	787.47	733.77	789.18	746.1	801.72	749.13	883.01	937.33	880.16	927.36
30	437.64	433.09	445.04	446.31	458.19	452.4	537.24	543.1	534.59	532.17
40	256.57	255.96	267.14	267.84	274.6	268.48	310.55	314.96	313.23	311.05
50	166.52	168.35	178.49	174.88	180.71	173.79	195.25	199.38	201.61	199.28
60	103.28	107.75	117.91	112.84	119.66	107.15	117.59	128.6	135.84	132.2
70	48.85	51.65	64.39	55.62	63.64	49.22	57.68	66.13	78.92	73.43
80	21.22	21.58	21.41	10.74	20.63	19.5	25.98	27.64	29.57	23.25
90	6.03	4.51	2.46	1.39	2.4	4.11	7.01	7.28	5.23	1.06
100	2.01	1.71	1.66	1.08	1.36	0.74	1.26	1.74	1.13	1.18
110	2.1	2.11	1.64	2.15	1.96	2.42	1.37	1	1.92	1.63
120	3.43	3.21	2.72	3.02	2.56	3.44	2.23	2.47	2.45	2.37
130	4.1	3.88	4.44	4.65	3.97	4.07	3.93	3.32	3.4	3.5

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Current (A)

0.82Operator

Total flux (lm) 1456

Power Factor

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## Luminous Intensity Data (Continued)

Maximum (cd) : 1594

Minimum (cd) : 1

G/C	300	330	360
0	1583.87	1579.43	1593.55
10	1396.24	1478.02	1371.68
20	870.34	924.71	787.47
30	521.38	524.64	437.64
40	303.95	301.18	256.57
50	197.9	191.79	166.52
60	133.62	127.33	103.28
70	78.9	69.26	48.85
80	31.81	29.58	21.22
90	6.18	8.7	6.03
100	1.25	1.75	2.01
110	1.45	2.13	2.1
120	2.57	2.46	3.43
130	3.15	3.14	4.1

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## Luminous Flux Table

Total Lamp Lumens: 1456.1

Luminaire Efficiency (lm/W): 73.77

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	37.93	37.93	2.60	2.60
10	262.14	300.06	20.61	20.61
20	313.10	613.17	42.11	42.11
30	267.68	880.85	60.49	60.49
40	202.14	1082.99	74.38	74.38
50	155.77	1238.76	85.07	85.07
60	114.12	1352.87	92.91	92.91
70	64.98	1417.86	97.37	97.38
80	25.43	1443.28	99.12	99.12
90	5.14	1448.43	99.47	99.47
100	1.52	1449.94	99.58	99.58
110	1.88	1451.82	99.71	99.71
120	2.60	1454.43	99.88	99.89
130	1.65	1456.08	100.00	100.00



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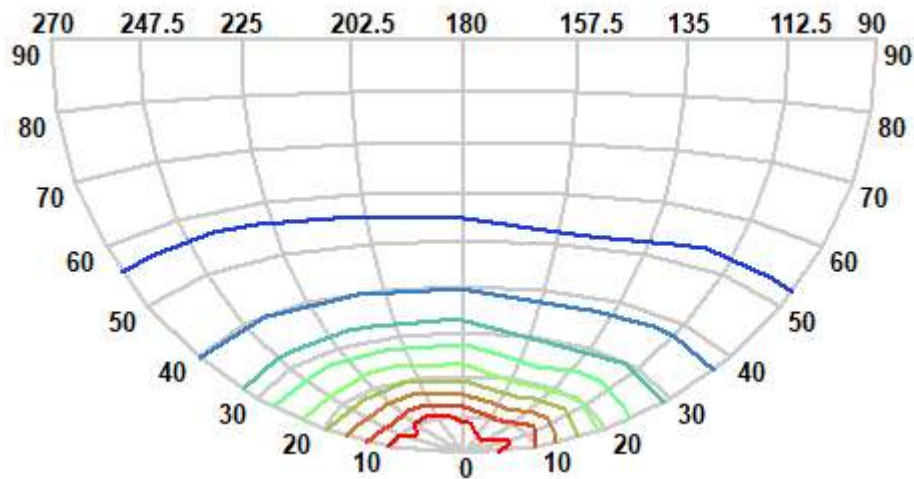
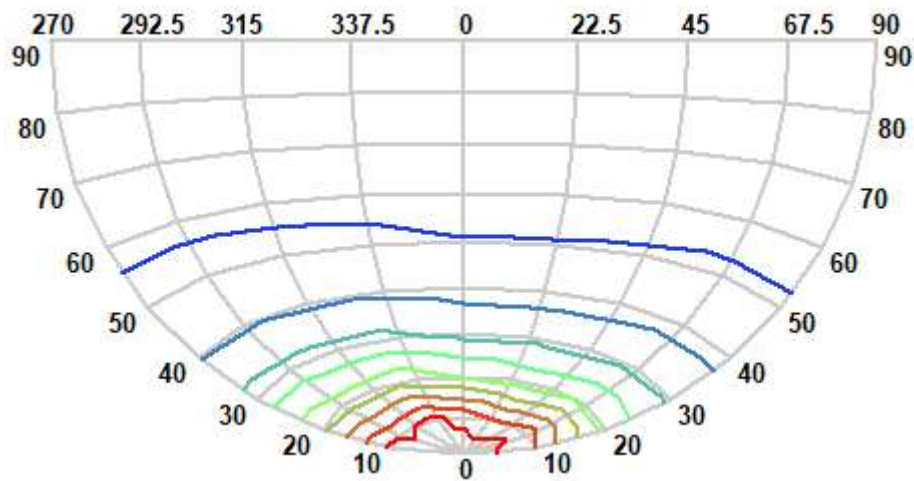
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## IsoCandela (Type C)





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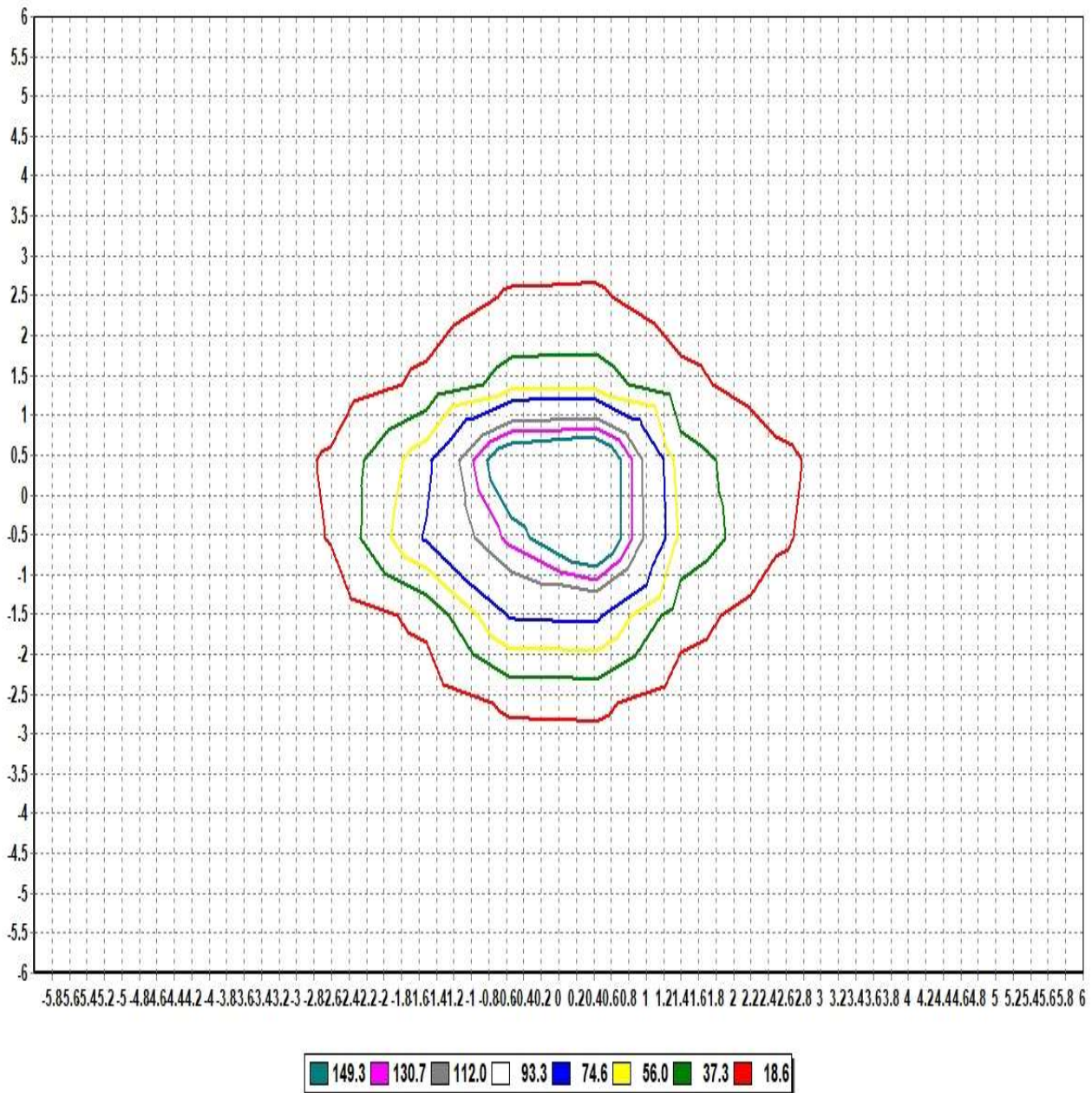
Total flux (lm) 1456

Power Factor

Date

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## 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)

23.89Filename 240613 FNL 3D 35K-24V-C90-45D-1M.jdt

Lamp flux (lm) 1456

Current (A)

0.82Operator

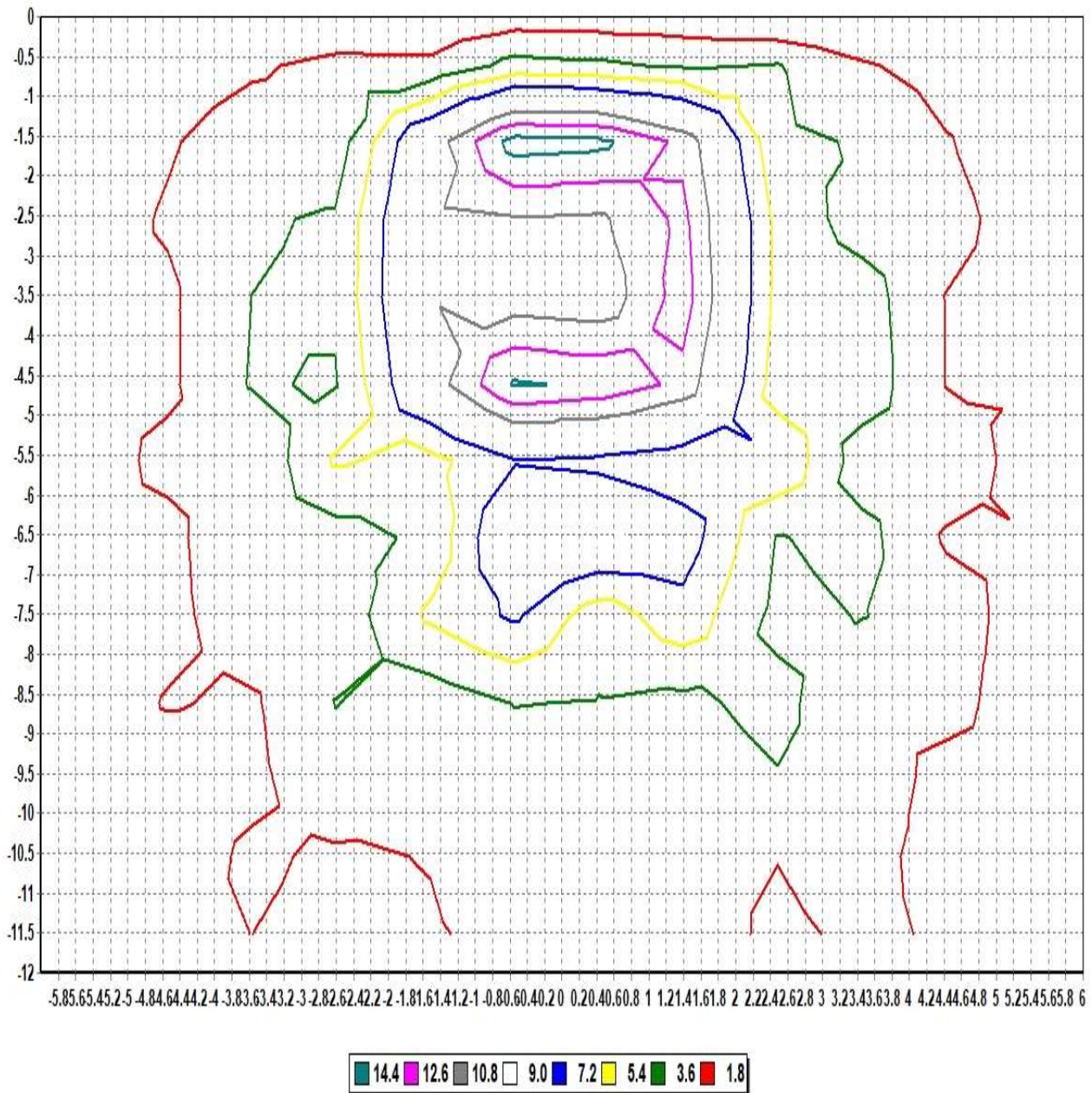
Total flux (lm) 1456

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)	23.897
Lamp flux (lm)	1456	Current (A)	0.826
Total flux (lm)	1456	Power Factor	1

Report

KH FEELUX

Filename 240613 FNL 3D 35K-24V-C90-45D-1M.jdt

Operator

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## Illuminance Levels (Ground)

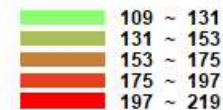
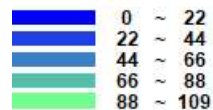
6.00	0.39	0.53	0.35	0.53	0.65	0.76	0.76	0.74	0.61	0.46	0.39	0.52	0.35
5.00	0.51	0.40	0.60	0.85	1.96	2.31	2.42	2.30	1.86	0.92	0.61	0.34	0.48
4.00	0.32	0.56	1.65	2.44	2.38	3.05	3.31	3.04	2.19	2.45	1.53	0.53	0.31
3.00	0.52	0.79	2.42	2.79	7.06	6.87	7.94	6.63	7.02	2.57	2.31	0.77	0.44
2.00	0.63	1.95	2.37	7.07	9.58	17.58	23.47	16.53	9.03	6.74	2.16	1.82	0.56
1.00	0.72	2.41	3.07	6.86	17.59	50.35	141.67	48.82	16.46	6.46	3.08	2.37	0.78
0.00	0.79	2.69	3.57	8.96	27.70	157.12	218.59	153.03	22.73	7.57	3.09	2.30	0.68
-1.00	0.69	2.35	3.05	7.64	20.23	59.82	164.87	58.59	19.53	7.54	3.05	2.29	0.71
-2.00	0.68	2.15	2.56	8.11	10.82	20.25	27.60	19.60	10.77	7.89	2.65	2.16	0.77
-3.00	0.55	0.89	2.70	3.00	8.21	7.73	9.10	7.65	8.12	3.17	2.69	0.99	0.63
-4.00	0.37	0.62	1.80	2.80	2.60	3.50	3.82	3.51	2.66	2.77	1.85	0.71	0.43
-5.00	0.55	0.42	0.74	1.08	2.18	2.62	2.77	2.63	2.18	1.04	0.74	0.51	0.59
-6.00	0.42	0.61	0.48	0.57	0.75	0.90	0.93	0.91	0.78	0.63	0.46	0.61	0.46
-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.) : 218.59

Illum. (Min.) : 0.3080

Illum. (Avg.) : 9.9363

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

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0.82Operator

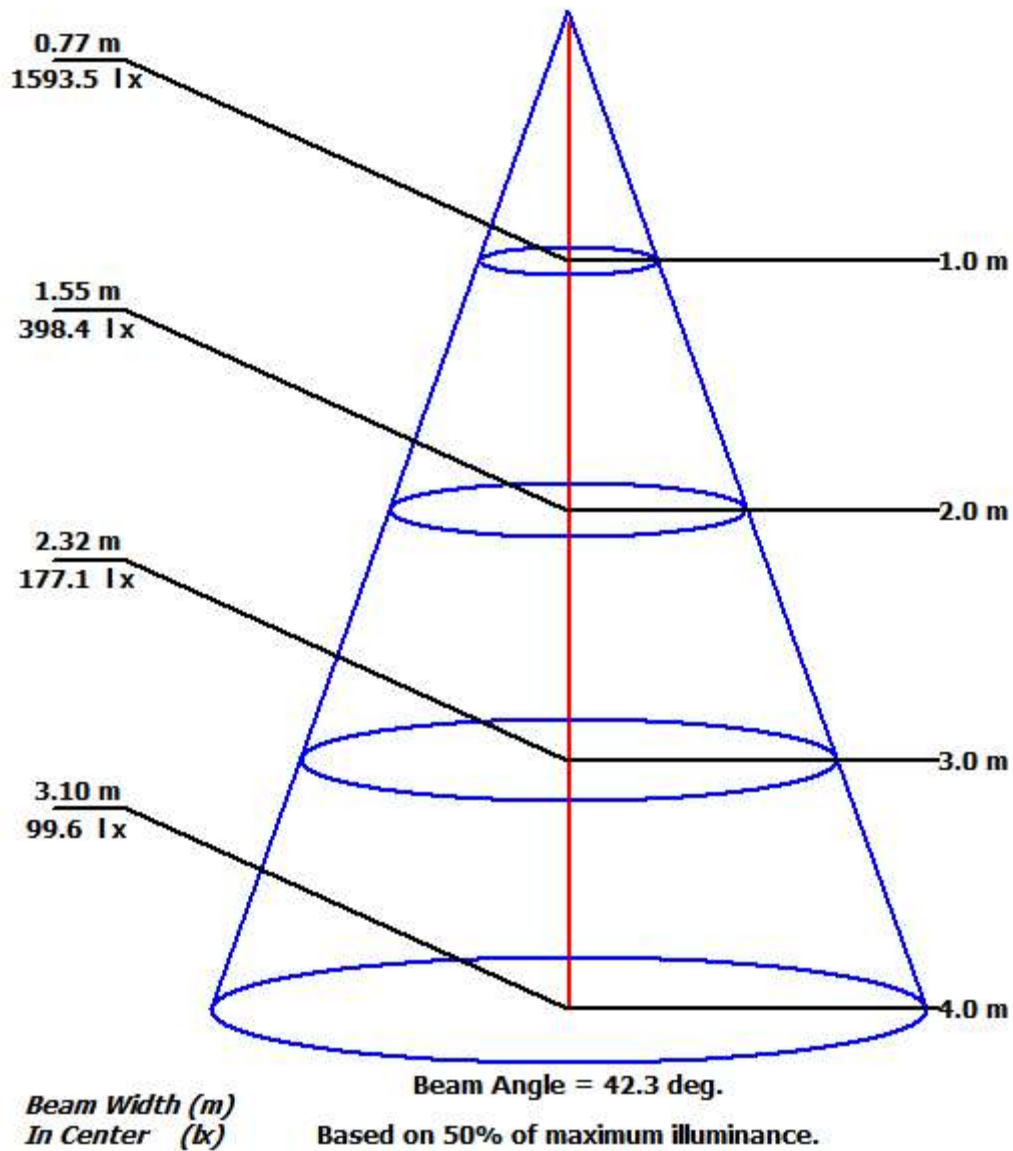
Total flux (lm) 1456

Power Factor

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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1 Voltage (V) 23.897

Filename 240613 FNL 3D 35K-24V-C90-45D-1M.jdt

Lamp flux (lm) 1456 Current (A) 0.826

Operator

Total flux (lm) 1456 Power Factor 1

Date 2024-06-13 오후 2:50:16

## 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