

# 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 : 240508

**2. Purpose of Report :****3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 240508 FNL3D SC(22K-40K)45-1M 2200K**5. Test Period :** 240508 ~ 240508**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 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		0.5085 , 0.4165	
Correlated Color Temperature	K	2178	
Ra		92.53	
Power Factor		1.000	
Input Voltage	V	23.947	
Input Current	A	0.417	
Input Watt	W	9.976	
Lamp Flux	lm	631.9	
Efficient	lm/W	63.34	
luminous Intensity (Max , Center)	cd	749 , 737	
Illuminance	lx	737	1 m
		184	2 m
		82	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)

Filename 240508 FNL3D SC(22K-40K)45-1M 2200K.jdt

Lamp flux (lm) 632

Current (A)

0Operator

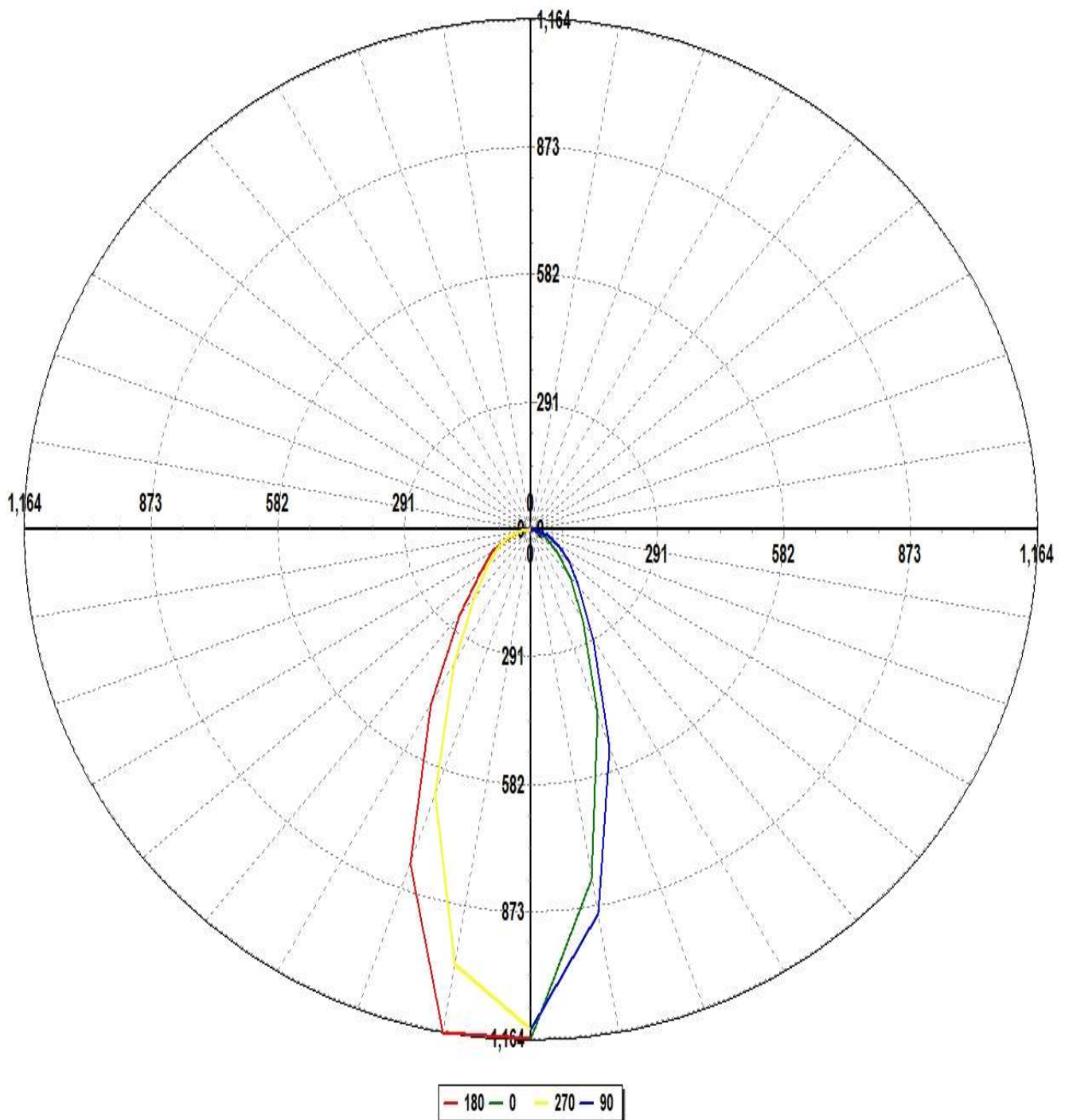
Total flux (lm) 632

Power Factor

Date 1

2024-05-08 오후 4:53:22

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

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Lamp flux (lm) 632

Current (A)

Operator

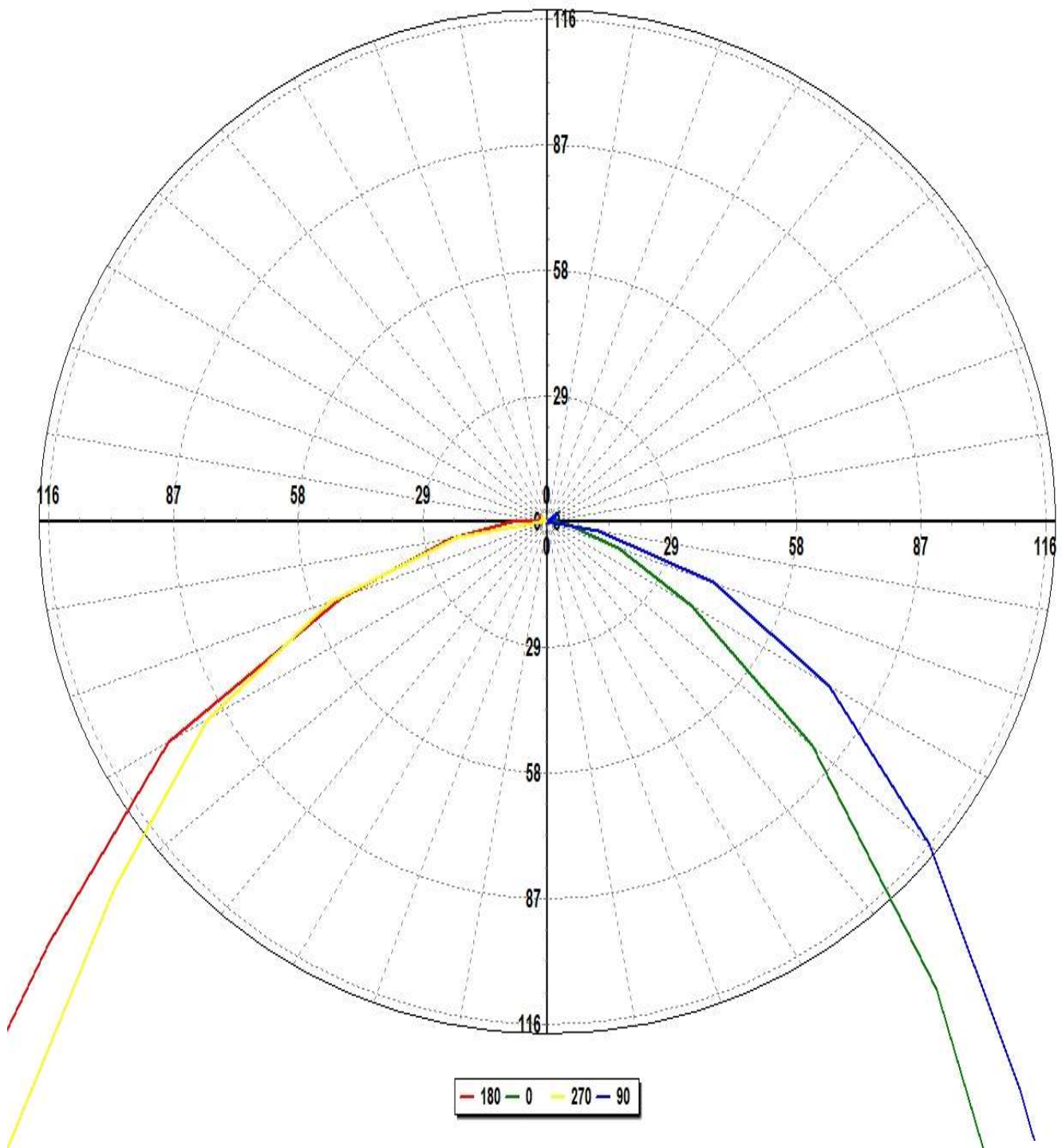
Total flux (lm) 632

Power Factor

Date 1

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## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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No. of lamps 1

Voltage (V)

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Lamp flux (lm) 632

Current (A)

0Operator

Total flux (lm) 632

Power Factor

Date 1

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## Luminous Intensity Data

Maximum (cd) : 749

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	734.58	722.67	719.01	722.06	734.15	748.5	734.58	722.67	719.01	722.06	734.15
10	511.43	498.84	521.21	561.87	627.94	670.01	736.85	727.36	684.41	637.62	594.19
20	281.67	276.15	296.77	334.03	394.84	435.05	513.75	509.29	460.42	406.03	356.85
30	151.96	149.2	161.77	181.96	218.65	241.96	291.85	289.01	257.27	223.52	193.6
40	88.93	89.18	96.42	107.97	125.79	135.36	160.44	159.09	144.87	127.51	113.23
50	50.87	55.87	63.93	73.37	83.38	84.53	95.64	97.42	92.22	83.09	73.38
60	24.39	26.71	40.34	47.86	55.44	55.96	64.23	63.94	62.96	57.82	48.04
70	11.16	11.43	17.77	25.98	31.02	29.07	32.13	37.24	38.54	34.11	25.2
80	3.26	2.79	3.46	7.64	11.45	11.35	14.44	15.8	16.54	13.46	7.56
90	0.4	0.37	0.94	-0.17	1.91	3.23	5.2	5.51	3.39	0.92	0.48
100	0.47	0.94	0.89	0.2	0.36	0.51	1.2	0.58	1.04	1.12	0.68
110	1.42	1.44	0.7	0.42	0.83	0.86	0.46	0.71	1.14	0.06	0.9
120	1.02	1.47	1.01	1.33	0.73	1.27	1.05	0.68	0.48	0.42	1.92
130	2.42	1.72	1.28	2.21	1.43	1.93	1.57	1.06	2.07	1.12	2.1

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Lamp

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Lamp flux (lm) 632

Current (A)

0Operator

Total flux (lm) 632

Power Factor

Date 1

2024-05-08 오후 4:53:22

## Luminous Intensity Data (Continued)

Maximum (cd) : 749

Minimum (cd) : 0

G/C	330	360
0	748.5	734.58
10	583.36	511.43
20	338.71	281.67
30	181.44	151.96
40	105.34	88.93
50	67.15	50.87
60	36.82	24.39
70	16.12	11.16
80	5.41	3.26
90	0.16	0.4
100	0.97	0.47
110	0.8	1.42
120	1.86	1.02
130	2.16	2.42

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Current (A)

0Operator

Total flux (lm) 632

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## Luminous Flux Table

Total Lamp Lumens: 631.86

Luminaire Efficiency (lm/W): 63.34

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	17.46	17.46	2.76	2.76
10	116.57	134.03	21.21	21.21
20	143.70	277.73	43.95	43.95
30	116.01	393.74	62.31	62.31
40	85.31	479.05	75.81	75.82
50	64.38	543.43	86.00	86.01
60	46.20	589.63	93.31	93.32
70	26.57	616.20	97.52	97.52
80	10.17	626.37	99.13	99.13
90	2.04	628.41	99.45	99.45
100	0.80	629.22	99.58	99.58
110	0.84	630.05	99.71	99.71
120	1.05	631.10	99.87	99.88
130	0.76	631.86	99.99	100.00



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0Operator

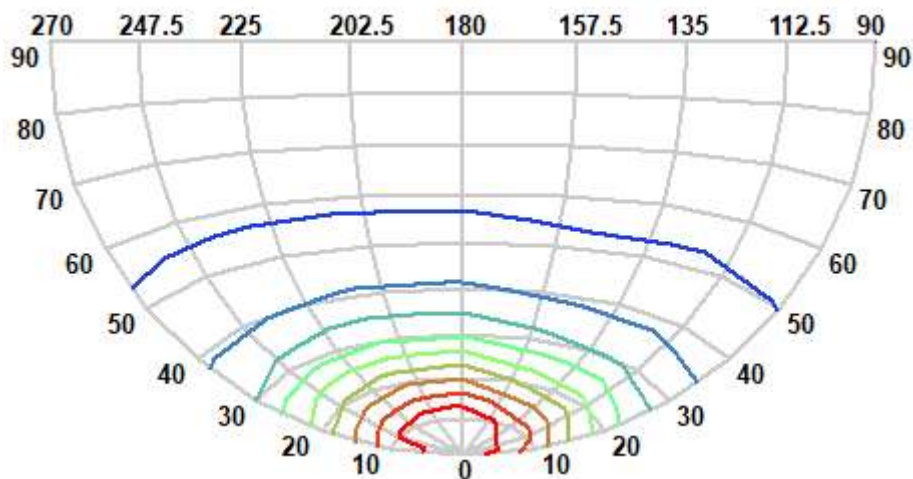
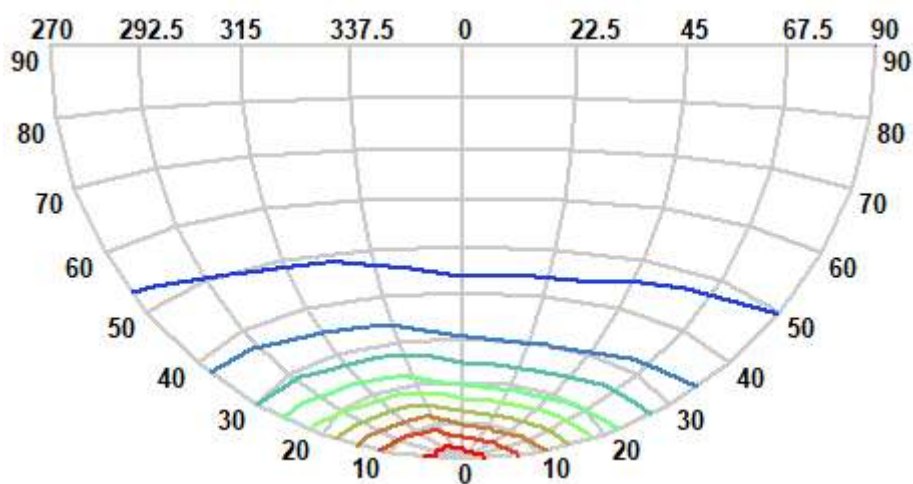
Total flux (lm) 632

Power Factor

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## IsoCandela (Type C)





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Lamp flux (lm) 632

Current (A)

0Operator

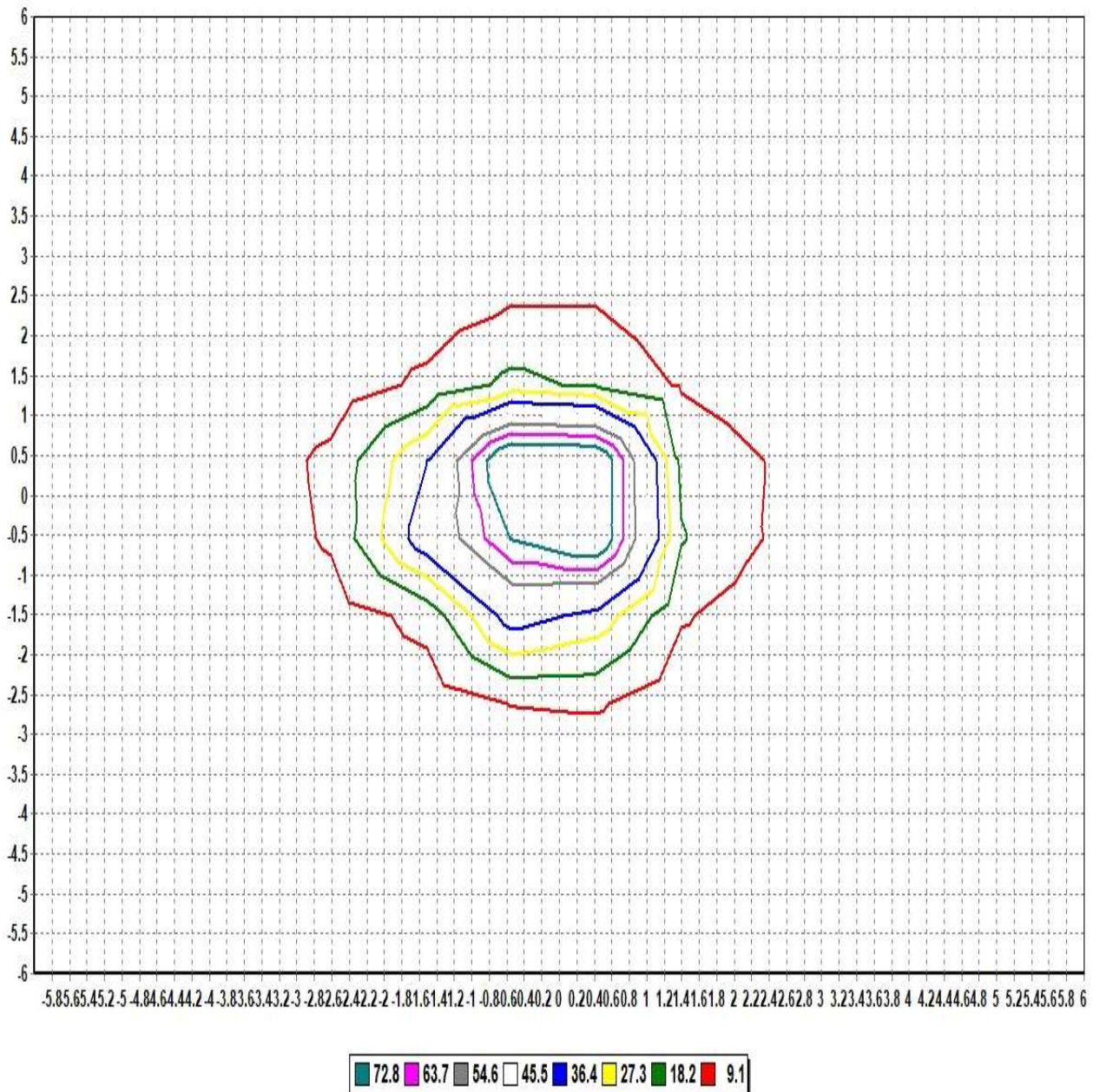
Total flux (lm) 632

Power Factor

Date 1

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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)

Filename 240508 FNL3D SC(22K-40K)45-1M 2200K.jdt

Lamp flux (lm) 632

Current (A)

0Operator

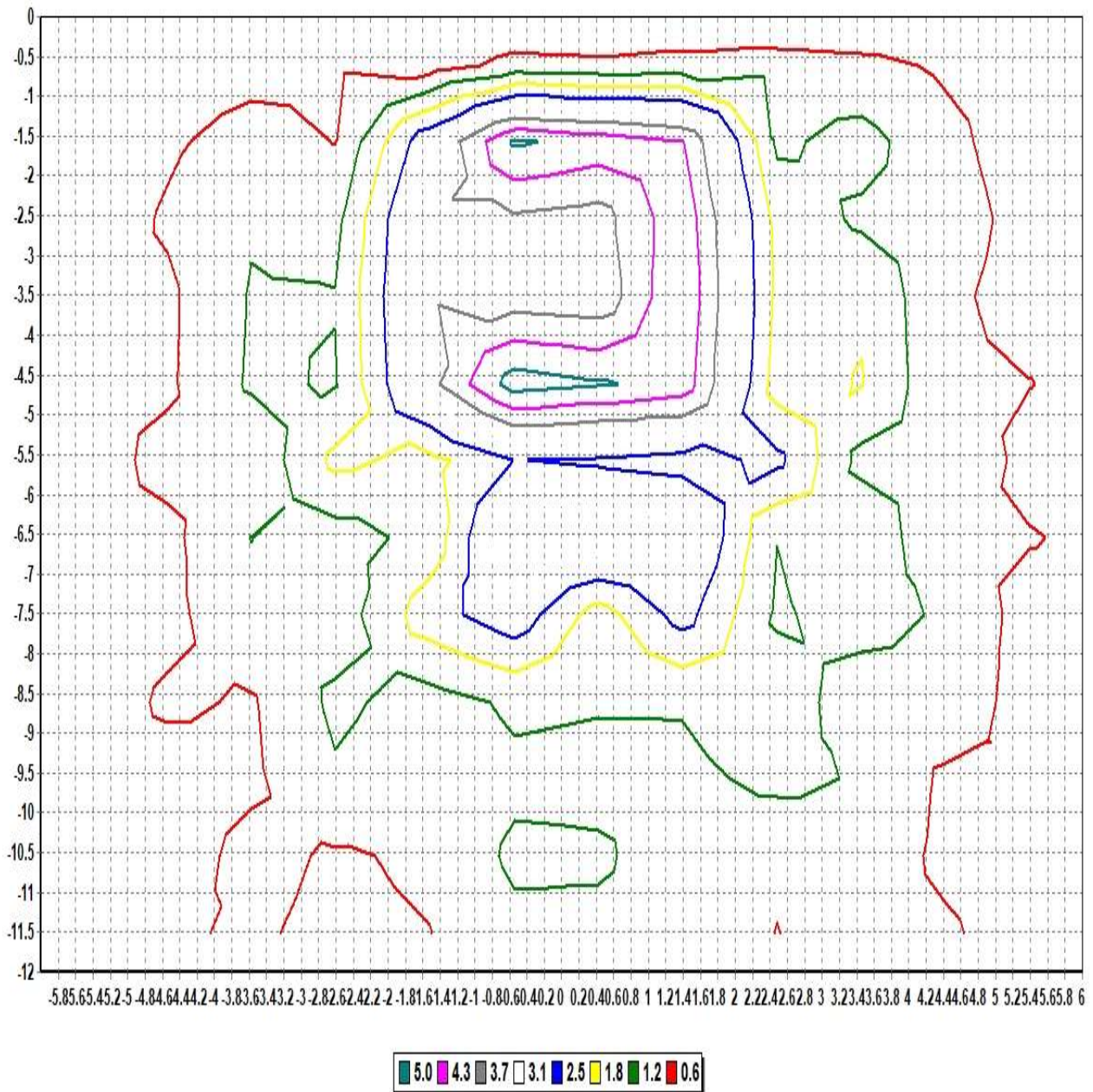
Total flux (lm) 632

Power Factor

Date 1

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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)	23.947
Lamp flux (lm)	632	Current (A)	0.41659
Total flux (lm)	632	Power Factor	1

Report	KH FEELUX
Filename	240508 FNL3D SC(22K-40K)45-1M 2200K.jdt
Operator	
Date	2024-05-08 오후 4:53:22

## Illuminance Levels (Ground)

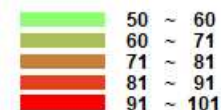
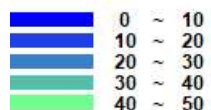
6.00	0.18	0.23	0.16	0.25	0.30	0.27	0.33	0.29	0.16	0.11	0.11	0.16	0.08
5.00	0.26	0.19	0.27	0.37	0.88	0.88	1.02	0.91	0.60	0.29	0.18	0.08	0.11
4.00	0.18	0.30	0.73	1.05	1.09	1.17	1.40	1.18	0.60	0.85	0.45	0.12	0.07
3.00	0.25	0.43	1.17	1.24	2.92	3.06	3.30	2.28	2.52	0.69	0.70	0.18	0.10
2.00	0.32	0.92	1.11	3.50	4.18	7.97	9.51	5.78	3.00	2.28	0.56	0.55	0.13
1.00	0.40	1.20	1.58	3.23	8.17	22.79	62.72	17.24	5.73	2.09	0.91	0.77	0.20
0.00	0.43	1.33	1.85	4.46	14.67	82.54	100.77	57.01	7.89	2.40	0.84	0.68	0.16
-1.00	0.38	1.16	1.57	3.75	10.28	32.66	71.28	23.77	7.22	2.74	0.89	0.72	0.17
-2.00	0.37	1.06	1.28	4.13	5.41	10.16	11.45	7.39	4.23	2.78	0.94	0.77	0.24
-3.00	0.30	0.49	1.34	1.53	3.83	3.69	3.77	2.97	3.30	1.26	0.94	0.27	0.20
-4.00	0.20	0.34	0.90	1.30	1.28	1.56	1.63	1.56	0.98	1.13	0.73	0.20	0.11
-5.00	0.29	0.23	0.36	0.51	1.05	1.14	1.16	1.17	0.83	0.46	0.31	0.20	0.18
-6.00	0.22	0.29	0.23	0.30	0.38	0.41	0.42	0.43	0.30	0.22	0.20	0.25	0.18
-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.) : 100.77

Illum. (Min.) : 0.0704

Illum. (Avg.) : 4.3367

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

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No. of lamps 1

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Lamp flux (lm) 632

Current (A)

Operator

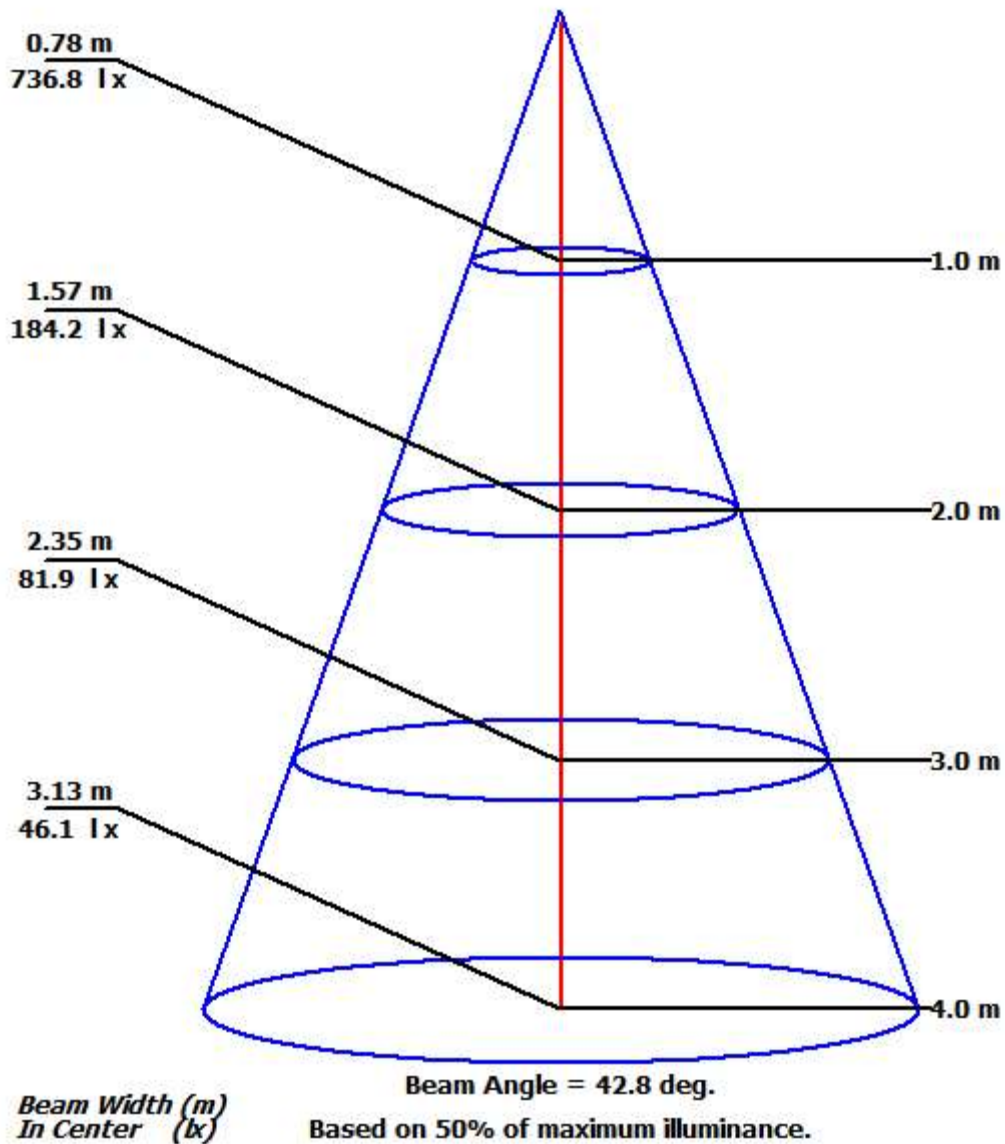
Total flux (lm) 632

Power Factor

Date 1

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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1 Voltage (V) 23.947

Filename 240508 FNL3D SC(22K-40K)45-1M 2200K.jdt

Lamp flux (lm) 632 Current (A) 0.41659

Operator

Total flux (lm) 632 Power Factor 1

Date 2024-05-08 오후 4:53:22

## 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