

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844  
\* Date of Receipt : 231115

**2. Purpose of Report :****3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 231123 FNL 3D 24K-24V-C90-20x40-1M**5. Test Period :** 231123 ~ 231123**6. Test Environment**

\* Ambient Temp. : 26.4 +- 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 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		0.4882 , 0.4176	
Correlated Color Temperature	K	2393	
Ra		89.86	
Power Factor		1.000	
Input Voltage	V	23.905	
Input Current	A	0.792	
Input Watt	W	18.941	
Lamp Flux	lm	1267.6	
Efficient	lm/W	66.93	
luminous Intensity (Max , Center)	cd	2387 , 2387	
Illuminance	lx	2387	1 m
		597	2 m
		265	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 24K-24V-C90-20x40-1M.jdt

Lamp flux (lm) 1268

Current (A)

0.7:Operator

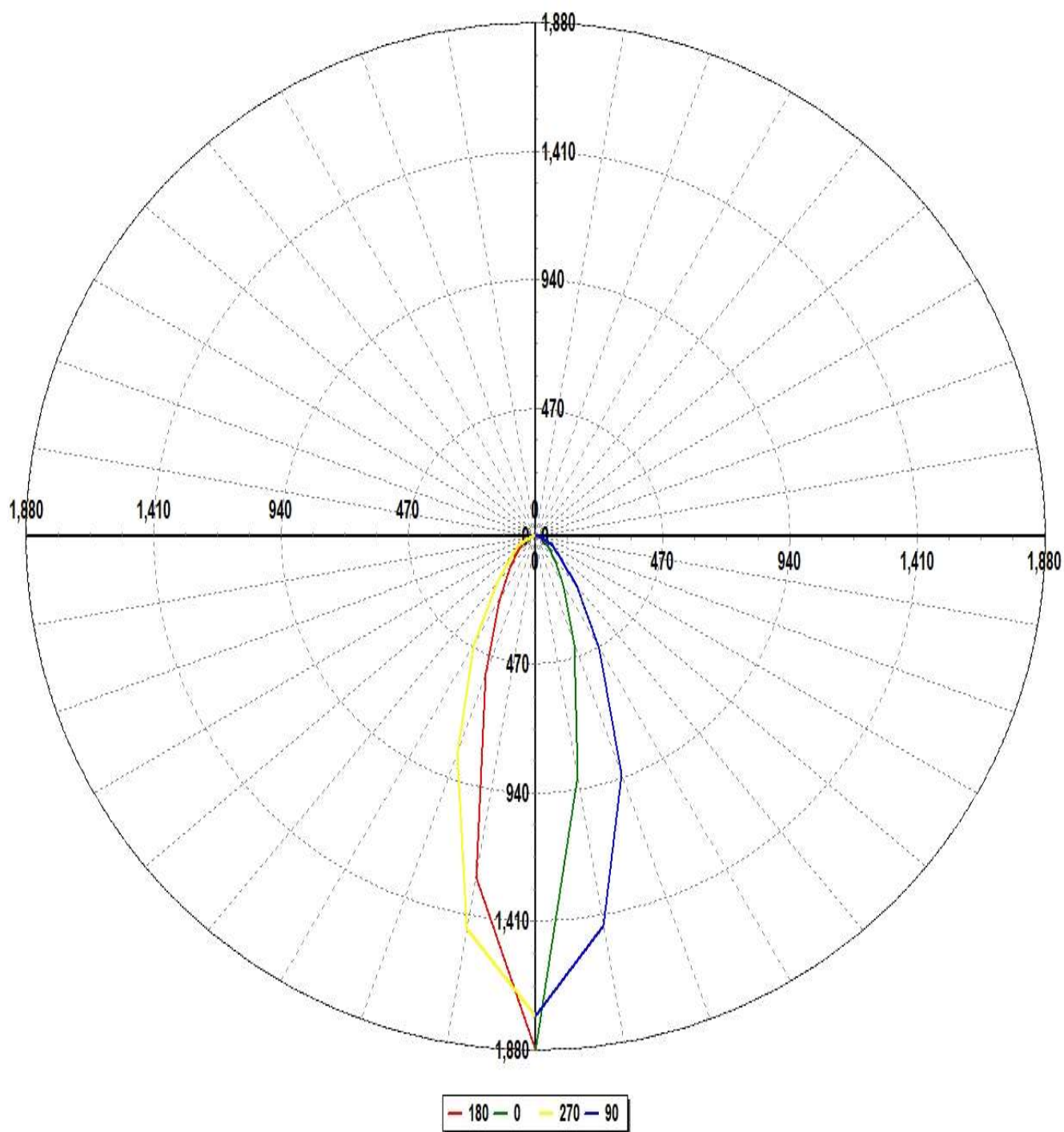
Total flux (lm) 1268

Power Factor

Date

2023-11-23 오전 11:47:26

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

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Lamp flux (lm) 1268

Current (A)

0.7:Operator

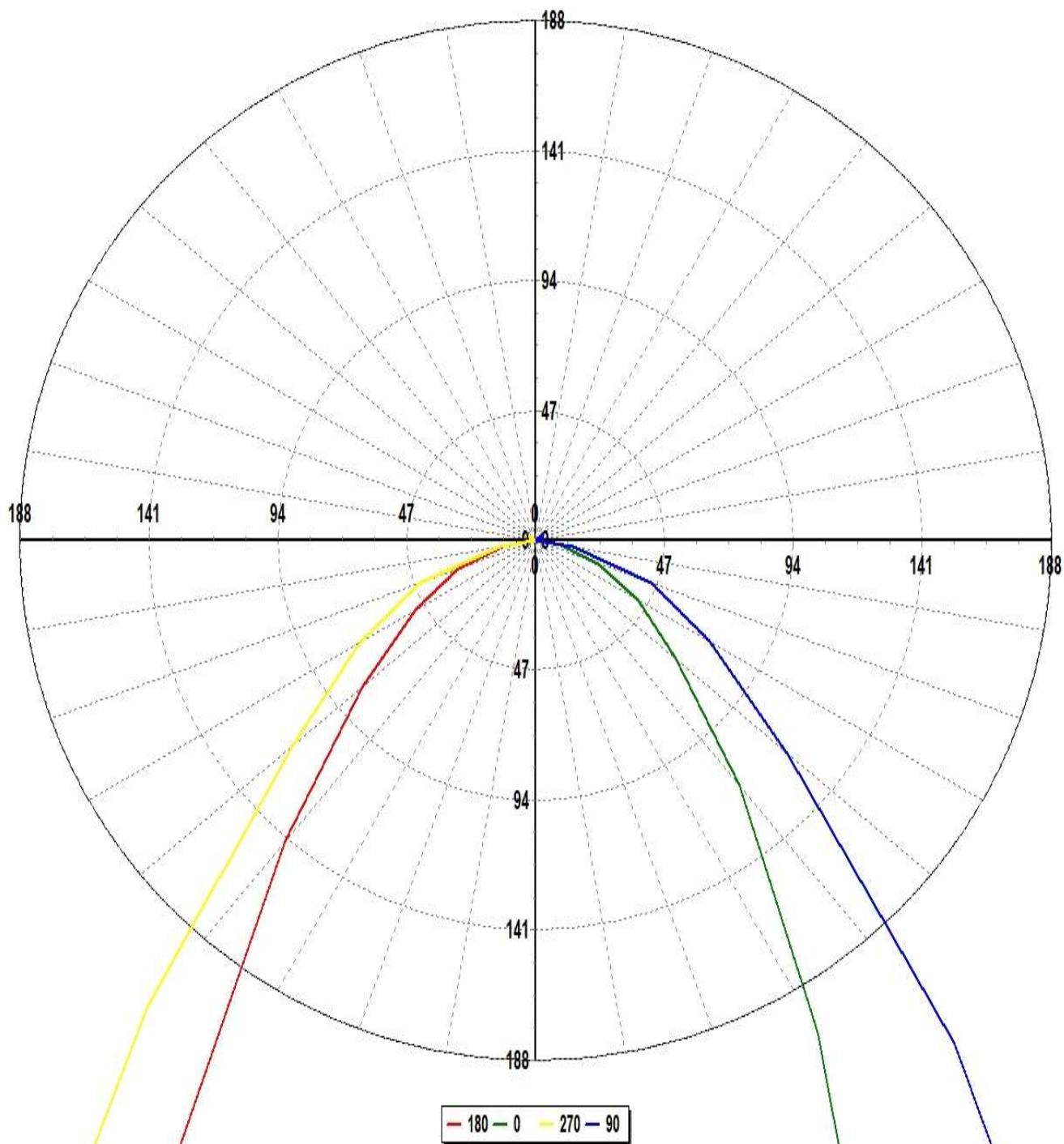
Total flux (lm) 1268

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

Lamp flux (lm) 1268

Current (A)

0.7Operator

Total flux (lm) 1268

Power Factor

Date

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## Luminous Intensity Data

Maximum (cd) : 2387

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	2386.52	2260.86	2251.29	2227.59	2223.47	2337.54	2386.52	2260.86	2251.29	2227.59
10	1132.65	1187.41	1636.18	1835.72	2076.38	1702.54	1604.81	1966.71	1844.41	1853.12
20	532.68	538.62	770.01	1178.88	1030.79	737.73	680.03	795.44	935.86	1076.29
30	260.51	281.19	393.29	598.4	493.23	375.61	341.54	388.45	485.6	583.47
40	146.72	155.07	206.13	300.87	244.64	194.59	180.2	203.23	246.03	279.47
50	84.64	95.54	121.76	152.44	138.34	114.05	104.79	117.71	139.58	147.33
60	54.93	60.78	78.1	92.87	86.67	71.9	64.22	72.97	88.96	93.66
70	30.77	33.24	46.68	57.05	53.45	41.3	38.17	40.61	52.05	57.17
80	11.65	11.97	16.46	17.4	20.55	17.95	15.7	16.48	18.39	16.77
90	0.78	0.47	0.92	0.57	2.05	1.72	2.2	2.37	0.74	0.25
100	0.64	1.14	1.84	1.16	0.63	0.29	0.57	0.89	1.21	0.79
110	1.12	1.88	0.65	2.23	1.93	2.08	0.63	1.29	1.94	1.07
120	2.41	2.59	3.01	2.61	2.49	2.3	1.85	1.52	2.38	3.18
130	3.26	3.49	4.16	3.94	3.16	3.1	2.46	2.63	2.67	3.77

Luminaire KH FEELUX

Lamp

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KH FEELUX

No. of lamps 1

Voltage (V)

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Lamp flux (lm) 1268

Current (A)

0.7Operator

Total flux (lm) 1268

Power Factor

Date

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## Luminous Intensity Data (Continued)

Maximum (cd) : 2387

Minimum (cd) : 0

G/C	300	330	360
0	2223.47	2337.54	2386.52
10	1354.12	1136.31	1132.65
20	667.55	560.6	532.68
30	368.29	281.18	260.51
40	198.66	157.71	146.72
50	121.29	96.98	84.64
60	75.89	61.07	54.93
70	42.77	33.56	30.77
80	13.21	11.71	11.65
90	0.83	-0.02	0.78
100	1.3	1.81	0.64
110	1.47	1.29	1.12
120	1.5	2.61	2.41
130	3.05	3.81	3.26

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.1	Filename	231123 FNL 3D 24K-24V-C90-20x40-1M.jdt
Lamp flux (lm)	1268	Current (A)	0.7	Operator	
Total flux (lm)	1268	Power Factor		Date	2023-11-23 오전 11:47:26

## Luminous Flux Table

Total Lamp Lumens: 1267.6

Luminaire Efficiency (lm/W): 66.92

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	54.54	54.54	4.30	4.30
10	306.36	360.90	28.47	28.47
20	296.69	657.60	51.88	51.88
30	221.36	878.96	69.34	69.34
40	147.45	1026.41	80.97	80.98
50	100.29	1126.70	88.88	88.89
60	71.30	1197.99	94.51	94.51
70	45.18	1243.18	98.07	98.08
80	16.92	1260.10	99.41	99.41
90	1.18	1261.27	99.50	99.50
100	1.10	1262.37	99.59	99.59
110	1.51	1263.88	99.71	99.71
120	2.25	1266.13	99.88	99.89
130	1.43	1267.56	100.00	100.00

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

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

Lamp flux (lm) 1268

Current (A)

0.7:Operator

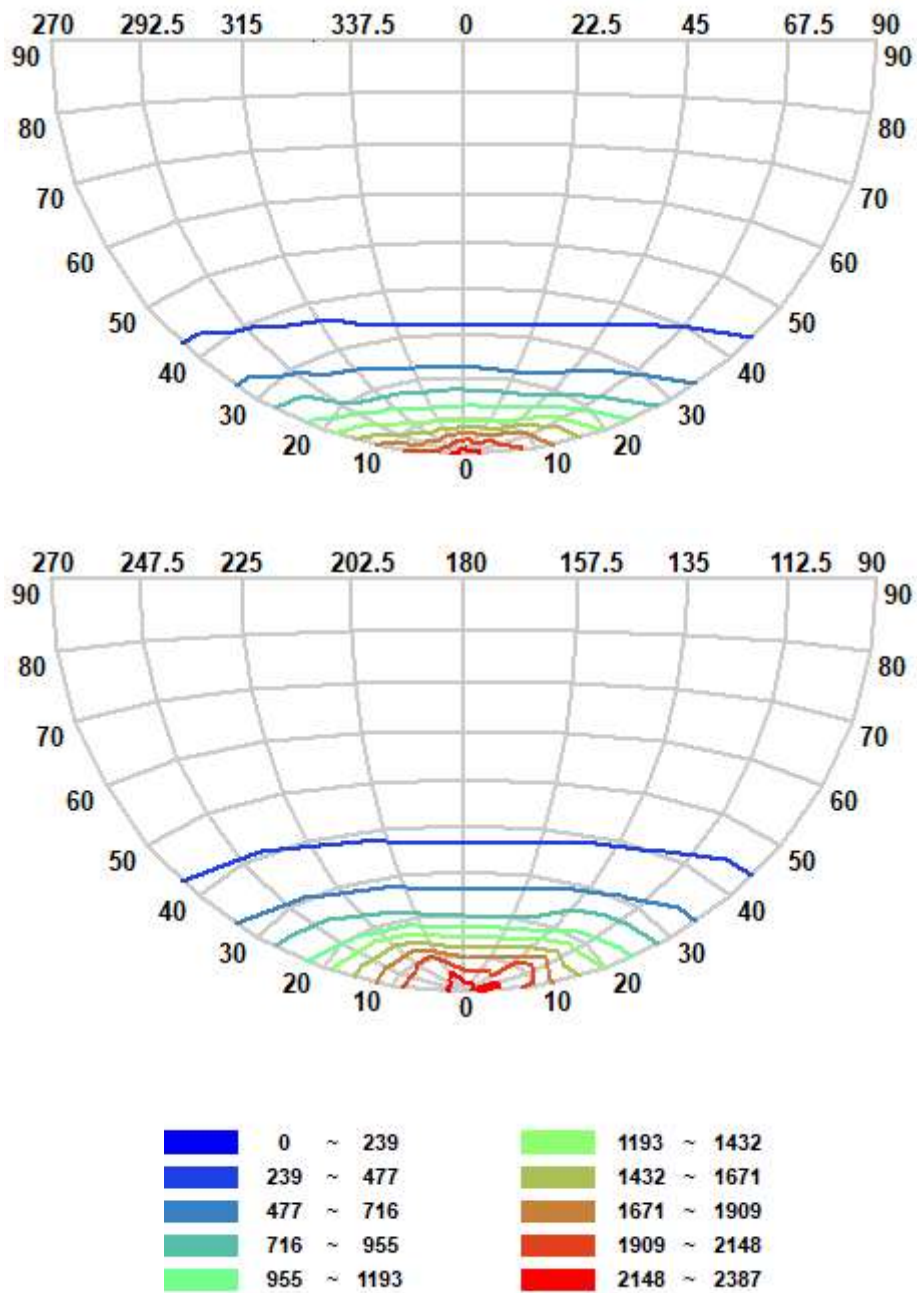
Total flux (lm) 1268

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) 1268

Current (A)

0.7:Operator

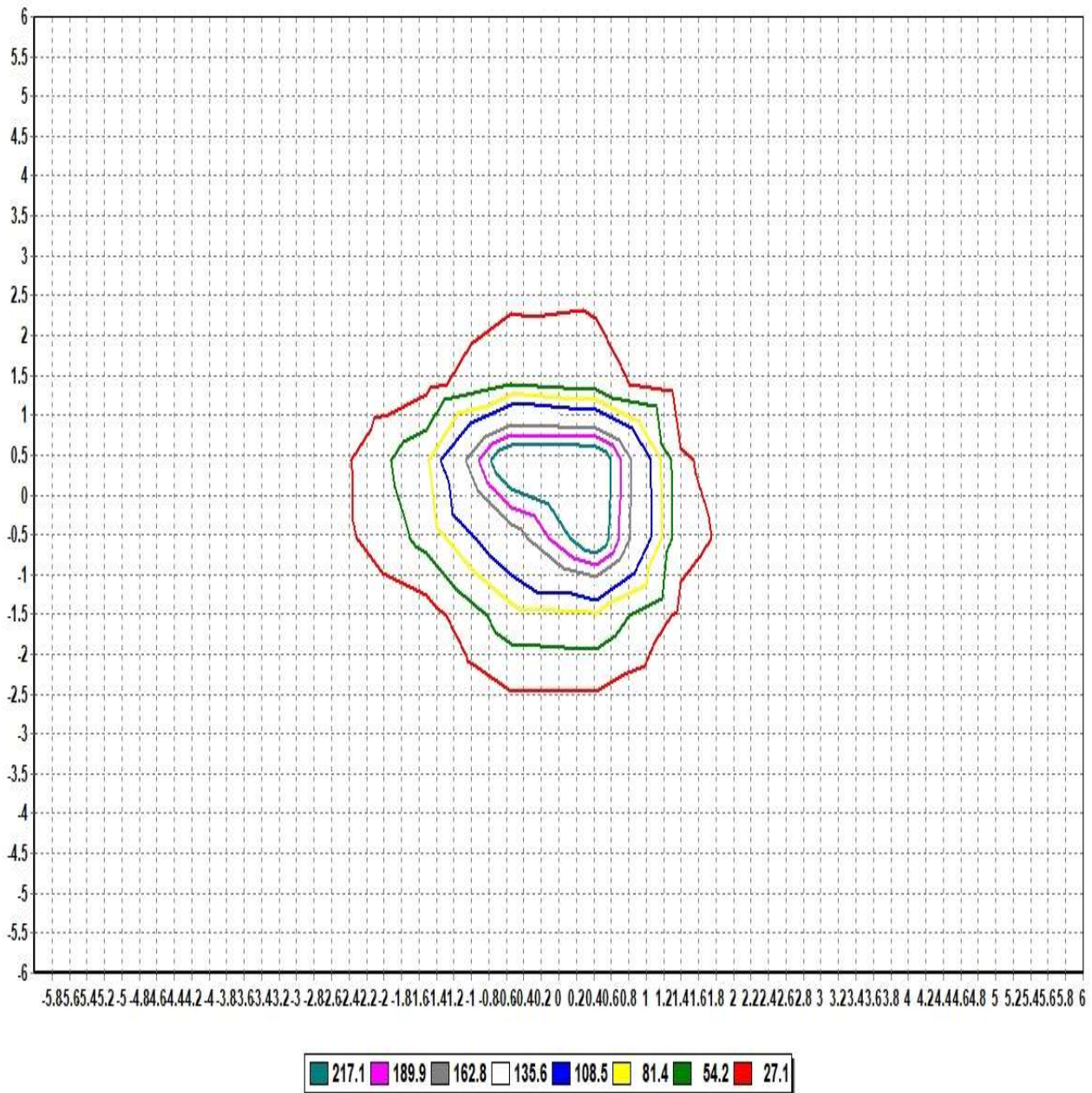
Total flux (lm) 1268

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

Lamp flux (lm) 1268

Current (A)

0.7:Operator

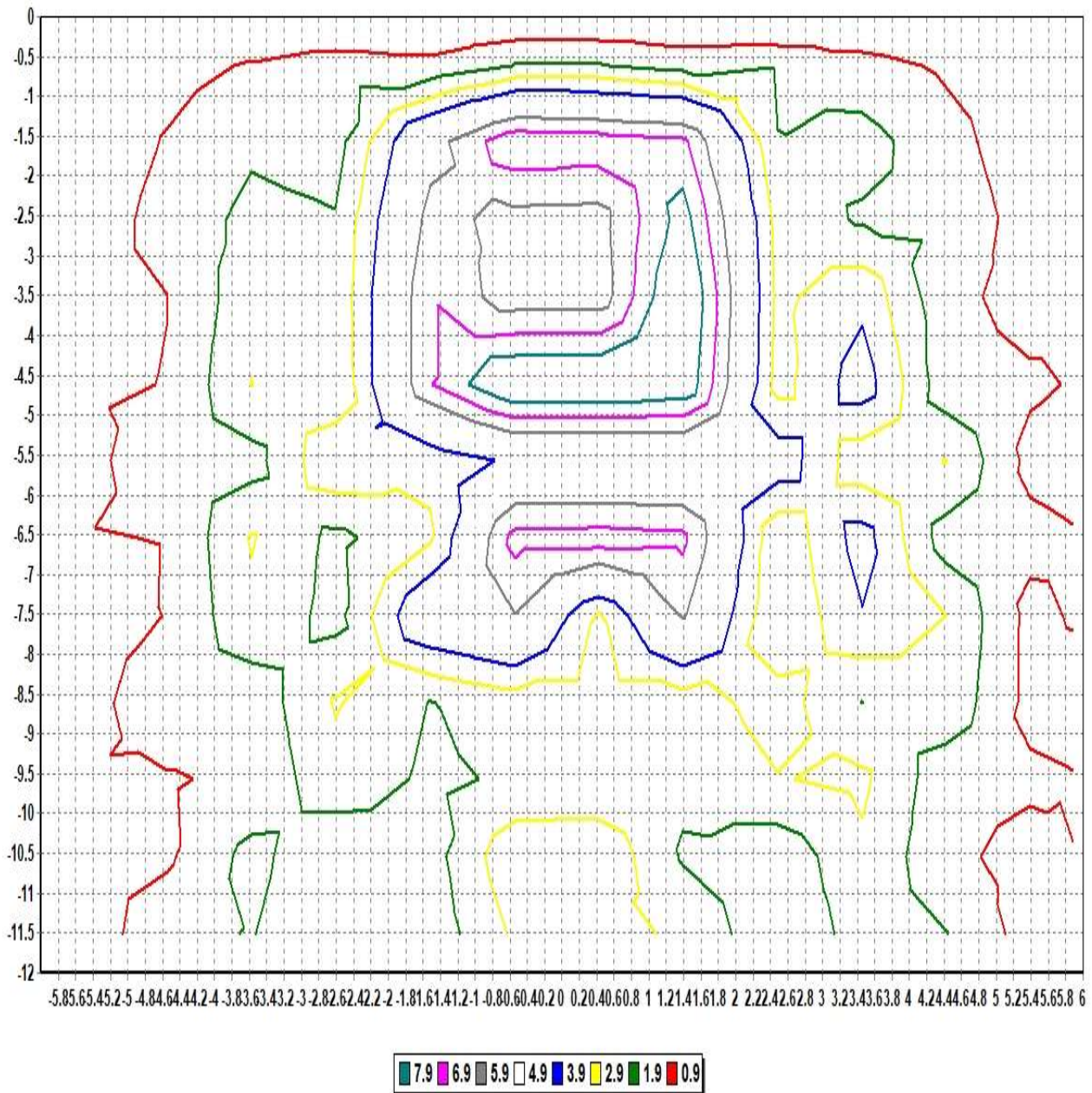
Total flux (lm) 1268

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)	23.905
Lamp flux (lm)	1268	Current (A)	0.7923
Total flux (lm)	1268	Power Factor	1

Report

KH FEELUX

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

Operator

Date 2023-11-23 오전 11:47:26

## Illuminance Levels (Ground)

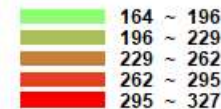
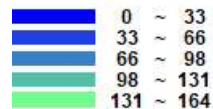
6.00	0.31	0.42	0.35	0.43	0.54	0.58	0.68	0.62	0.39	0.29	0.28	0.33	0.20
5.00	0.35	0.36	0.53	0.76	1.53	1.73	2.10	1.82	1.11	0.62	0.41	0.21	0.26
4.00	0.26	0.43	1.32	2.06	1.77	2.29	2.81	2.32	1.26	1.60	0.83	0.31	0.19
3.00	0.42	0.58	1.65	2.20	7.34	5.63	7.47	4.09	5.14	1.40	1.21	0.43	0.27
2.00	0.49	1.42	1.72	5.15	8.68	16.32	28.77	10.39	5.08	3.79	1.21	1.00	0.34
1.00	0.46	1.40	1.83	5.02	15.53	64.60	205.25	31.77	9.95	3.54	1.55	1.20	0.39
0.00	0.47	1.44	1.93	4.92	16.81	178.15	327.37	125.93	13.25	3.98	1.61	1.17	0.39
-1.00	0.47	1.43	1.84	4.38	12.99	43.17	206.78	54.27	12.54	4.33	1.54	1.16	0.38
-2.00	0.41	1.23	1.46	4.69	6.36	13.49	27.40	13.46	7.80	4.22	1.50	1.24	0.41
-3.00	0.33	0.52	1.49	1.68	6.14	4.91	7.13	5.11	6.79	2.06	1.42	0.48	0.34
-4.00	0.24	0.38	1.01	1.86	1.51	2.44	2.77	2.43	1.57	1.96	1.23	0.36	0.21
-5.00	0.31	0.26	0.47	0.71	1.33	1.88	2.04	1.85	1.39	0.76	0.51	0.33	0.30
-6.00	0.24	0.38	0.31	0.34	0.46	0.64	0.69	0.62	0.49	0.36	0.34	0.40	0.29
-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.) : 327.37

Illum. (Min.) : 0.1914

Illum. (Avg.) : 9.9398

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

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No. of lamps 1

Voltage (V)

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Lamp flux (lm) 1268

Current (A)

0.7:Operator

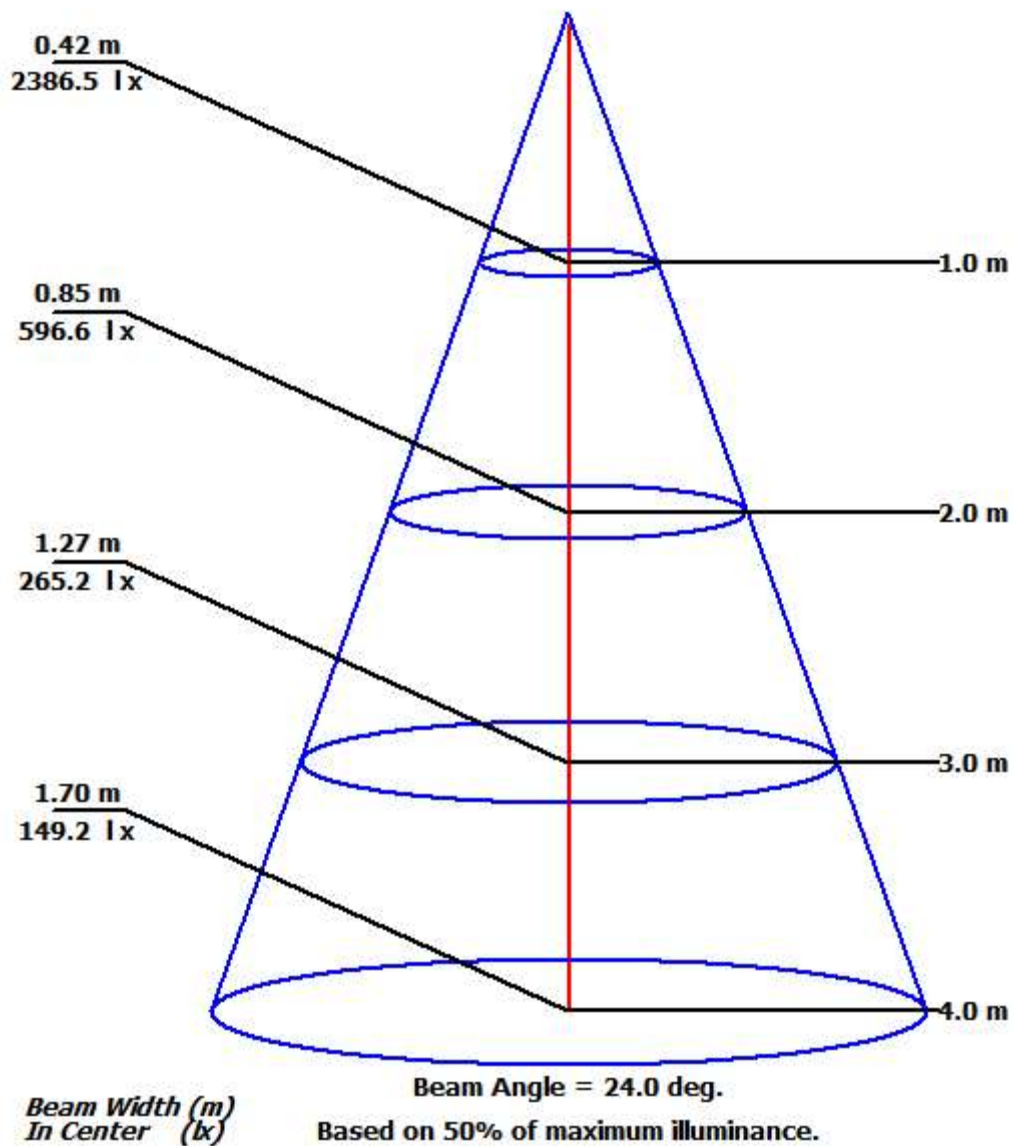
Total flux (lm) 1268

Power Factor

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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1 Voltage (V) 23.905

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

Lamp flux (lm) 1268 Current (A) 0.7923

Operator

Total flux (lm) 1268 Power Factor 1

Date 2023-11-23 오전 11:47:26

## 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