

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84  
\* Date of Receipt : 231011

**2. Purpose of Report :**

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

**4. Test Standard / Item :** / 231010 FN3D-22K-24V-C90

**5. Test Period :** 231011 ~ 231011

**6. Test Environment**

\* Ambient Temp. : 22.0 +- 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	
	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		0.4997 , 0.4090	
Correlated Color Temperature	K	2208	
Ra		92.67	
Power Factor		1.000	
Input Voltage	V	0.070	
Input Current	A	0.000	
Input Watt	W	1	
Lamp Flux	lm	847	
Efficient	lm/W	847.00	
luminous Intensity (Max , Center)	cd	303 , 303	
Illuminance	lx	303	1 m
		76	2 m
		34	3 m

\* This test result is for the sample provided by the client.

\* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	0.07
Lamp flux (lm)	847	Current (A)	0
Total flux (lm)	847	Power Factor	1

Report

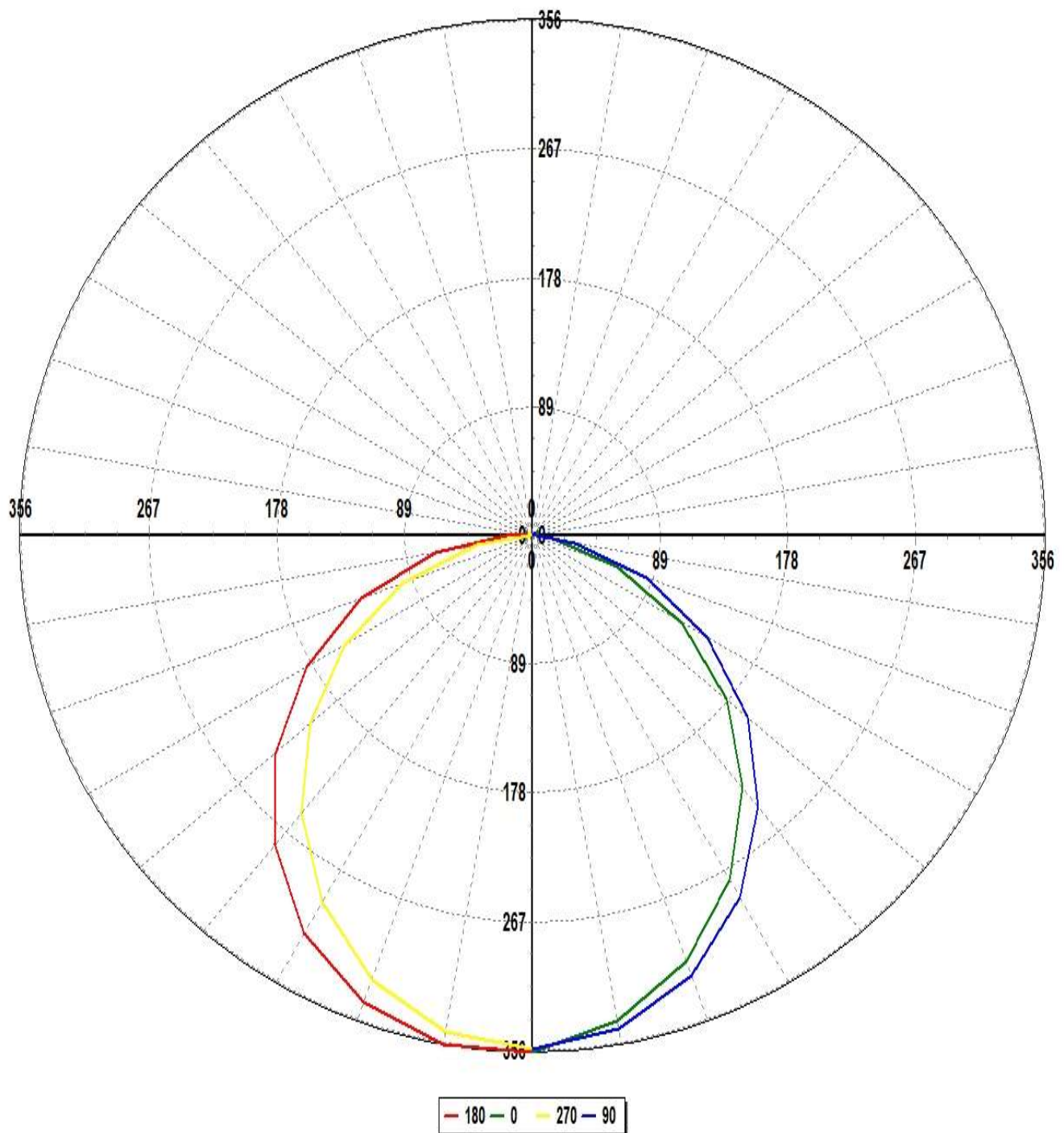
KH FEELUX

Filename 231010 FN3D-22K-24V-C90.jdt

Operator

Date 2023-10-10 오전 10:37:10

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 0.07

Filename 231010 FN3D-22K-24V-C90.jdt

Lamp flux (lm) 847

Current (A) 0

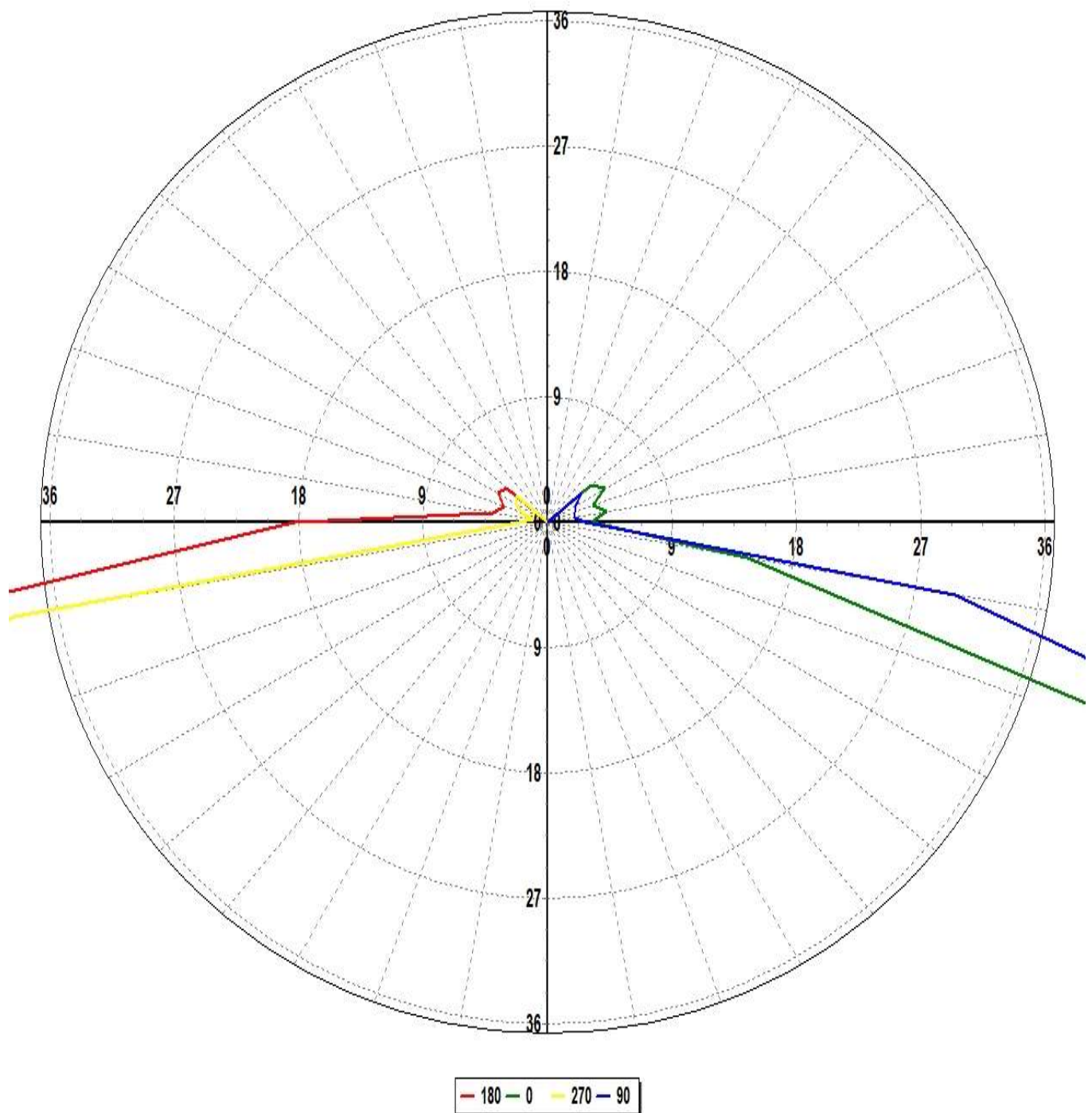
Operator

Total flux (lm) 847

Power Factor 1

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## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	0.07
Lamp flux (lm)	847	Current (A)	0
Total flux (lm)	847	Power Factor	1

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## Luminous Intensity Data

Maximum (cd) : 303

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	302.48	302.1	300.91	300.75	301.2	300.91	302.48	302.1	300.91	300.75	301.2
10	289.04	289.58	290.94	293.28	296.76	297.66	302.65	301.14	298.63	295.12	292.59
20	265.38	266.66	270.1	273.92	280.06	283.91	290.88	288.4	282.43	276.74	272.17
30	232.74	233.95	238.55	244.64	253.19	257.92	269.02	264.7	256.48	248.01	241.64
40	192.91	195.08	200.74	207.34	217.56	225.03	236.26	232.11	221.67	212.3	204.98
50	150.08	151.65	157.04	165.61	177.05	184.22	197.91	193.94	183.01	171.41	163.13
60	102.03	104	111.16	119.13	132.59	140.56	153.81	150.29	139.03	127.72	117.75
70	53.02	55.14	62.65	71.77	85.02	92.82	107.59	104.29	92.18	80.78	70.14
80	12.46	12.62	18.41	25.36	37.88	43.91	58.1	56.21	44.33	33.18	24.91
90	2.69	3.56	3.33	2.31	4.9	8.38	15.52	13.96	7.24	1.75	2.97
100	3.66	3.34	3.93	1.72	2.42	3.64	3.42	2.91	2.05	0.89	2.37
110	2.95	3.26	2.19	1.77	2.13	3.18	2.82	3	2.21	1.68	2.47
120	4.07	2.96	2.07	1.99	2.54	2.93	3.49	3.07	1.85	2.26	2.17
130	3.51	2.26	3.15	2.72	2.37	2.39	3.28	2.79	1.97	2.46	2.41

Luminaire KH FEELUX

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Lamp flux (lm)	847	Current (A)	0
Total flux (lm)	847	Power Factor	1

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## Luminous Intensity Data (Continued)

Maximum (cd) : 303

Minimum (cd) : 1

G/C	330	360
0	300.91	302.48
10	291.83	289.04
20	270.33	265.38
30	240.48	232.74
40	202.62	192.91
50	160.15	150.08
60	113.59	102.03
70	65.45	53.02
80	20.46	12.46
90	3.03	2.69
100	3.09	3.66
110	3.21	2.95
120	3.66	4.07
130	2.62	3.51

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	0.07
Lamp flux (lm)	847	Current (A)	0
Total flux (lm)	847	Power Factor	1

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## Luminous Flux Table

Total Lamp Lumens: 847.04

Luminaire Efficiency (lm/W): 847.04

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	7.21	7.21	0.85	0.85
10	56.09	63.30	7.47	7.47
20	103.67	166.97	19.71	19.71
30	136.05	303.02	35.78	35.77
40	149.52	452.54	53.43	53.43
50	143.69	596.23	70.39	70.39
60	119.49	715.71	84.50	84.50
70	80.69	796.41	94.03	94.02
80	34.86	831.27	98.14	98.14
90	6.36	837.62	98.89	98.89
100	3.01	840.63	99.25	99.24
110	2.65	843.27	99.56	99.55
120	2.61	845.89	99.87	99.86
130	1.16	847.04	100.01	100.00



Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	0.07
Lamp flux (lm)	847	Current (A)	0
Total flux (lm)	847	Power Factor	1

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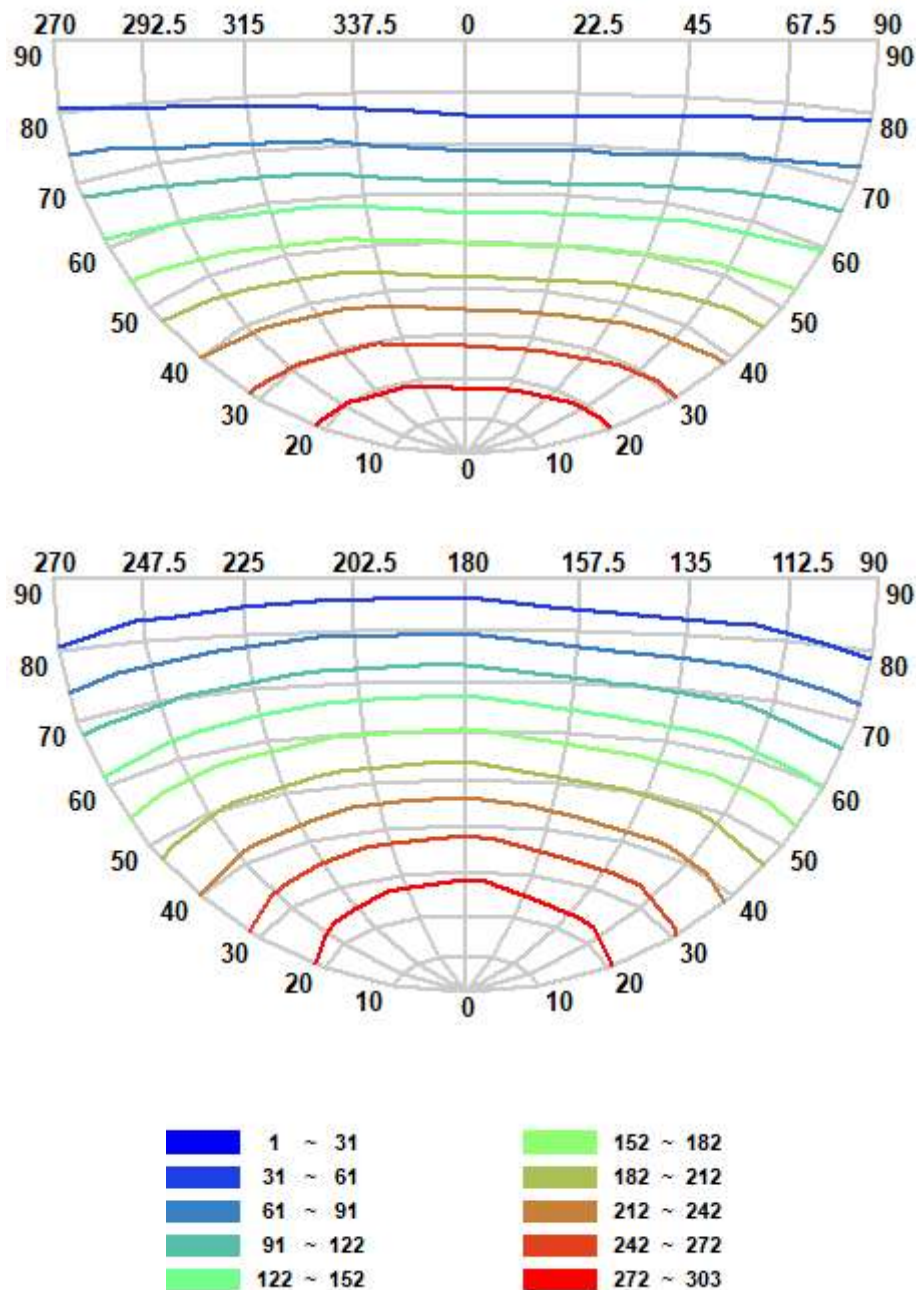
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## IsoCandela (Type C)





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Lamp

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Lamp flux (lm)	847	Current (A)	0
Total flux (lm)	847	Power Factor	1

Report

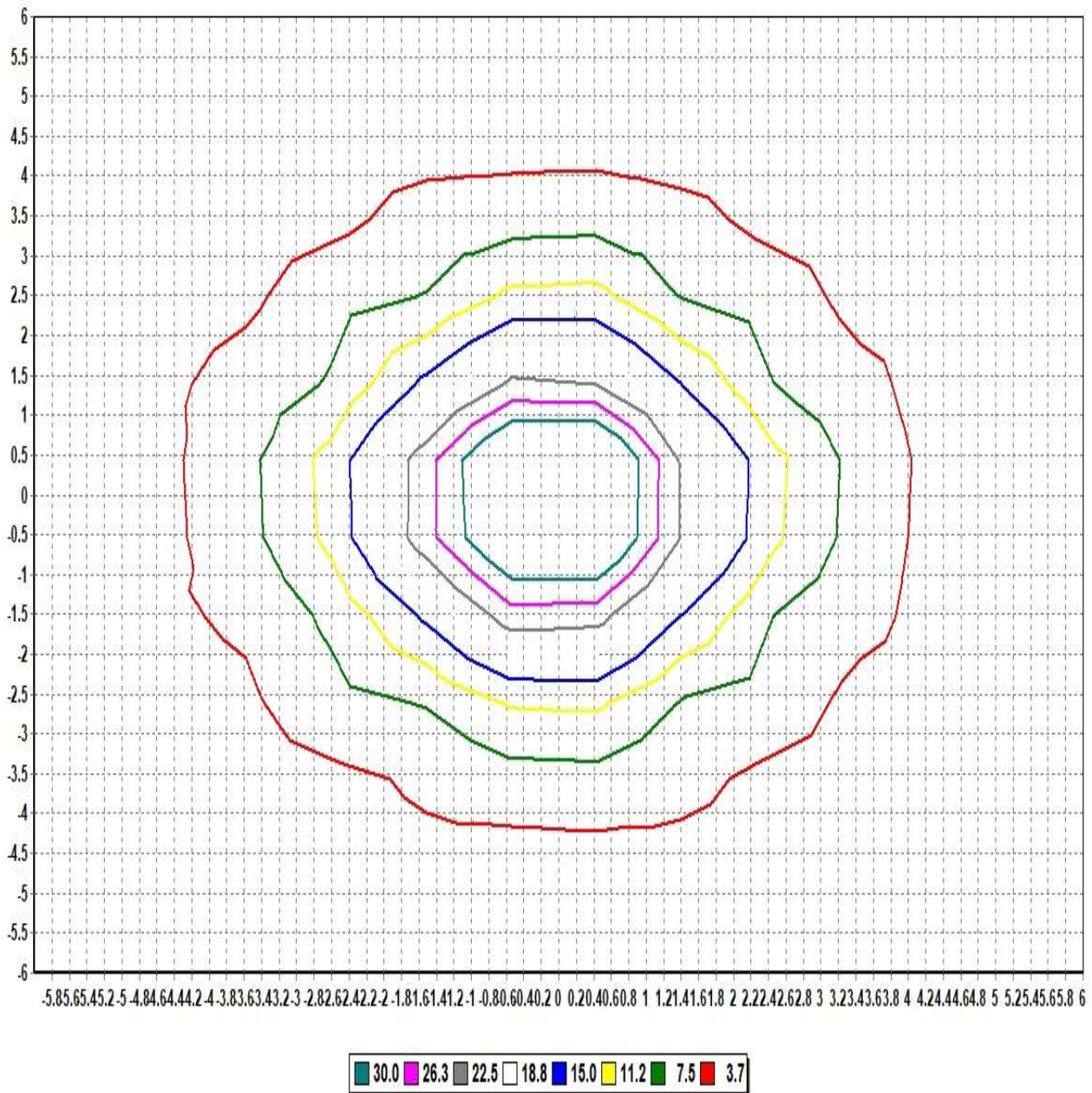
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## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 0.07

Lamp flux (lm) 847

Current (A) 0

Total flux (lm) 847

Power Factor 1

Report

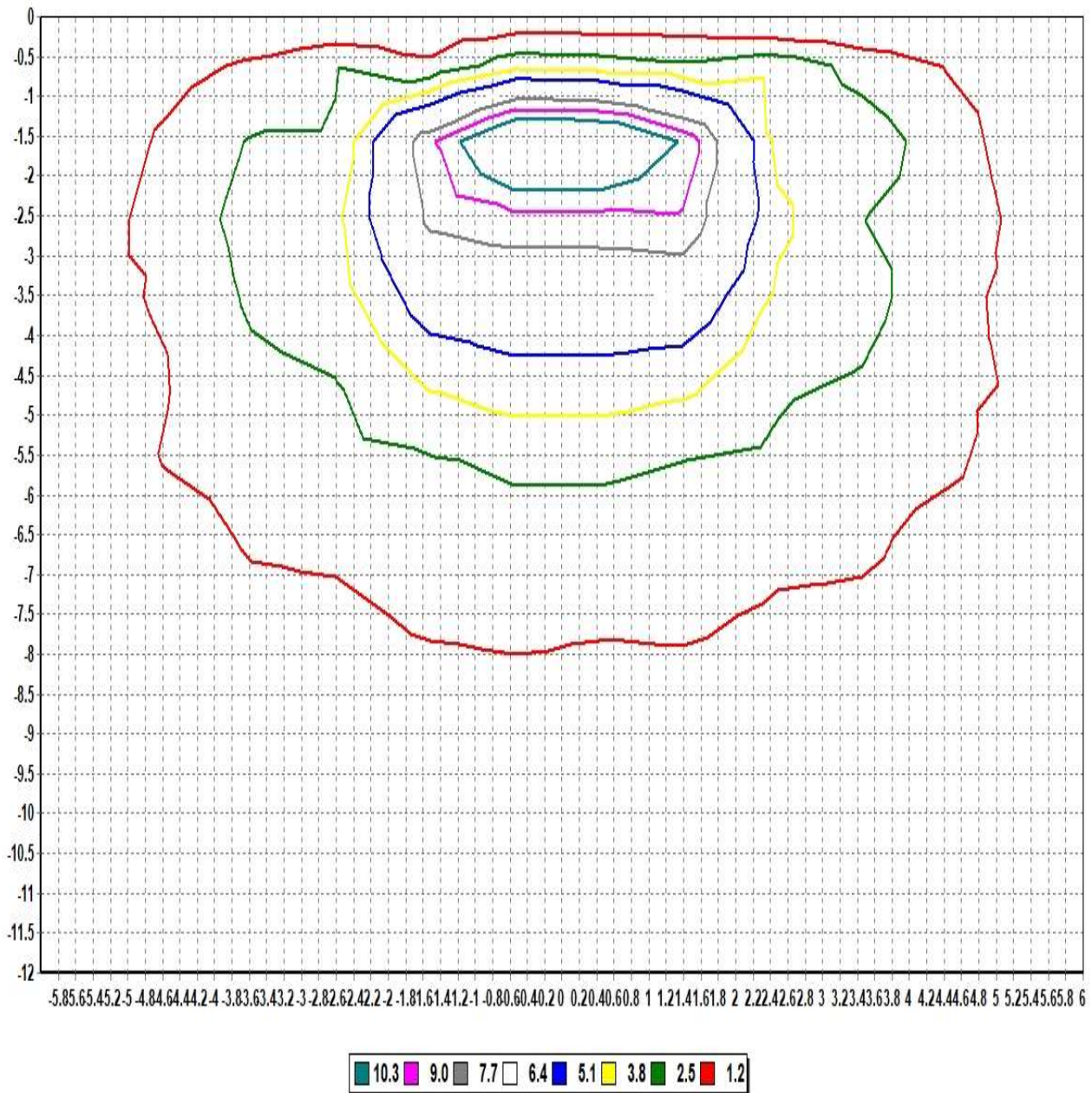
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## IsoLux Diagram (Wall)



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)	0.07
Lamp flux (lm)	847	Current (A)	0
Total flux (lm)	847	Power Factor	1

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## Illuminance Levels (Ground)

6.00	0.44	0.57	0.45	0.66	0.79	0.77	0.87	0.80	0.61	0.47	0.38	0.50	0.35
5.00	0.64	0.51	0.72	0.97	1.96	2.12	2.33	2.15	1.69	0.87	0.60	0.36	0.47
4.00	0.56	0.84	1.65	2.37	2.58	2.93	3.31	2.94	2.09	2.18	1.42	0.54	0.33
3.00	0.68	1.18	2.58	2.91	5.77	6.56	7.14	5.85	5.50	2.44	2.10	0.78	0.46
2.00	0.85	2.03	2.62	6.24	8.42	13.64	15.68	12.36	7.53	5.30	2.07	1.67	0.58
1.00	1.11	2.58	3.65	6.83	13.77	24.37	33.10	22.98	12.30	5.75	2.78	2.06	0.74
0.00	1.21	2.81	4.12	8.44	17.63	34.19	41.49	32.61	14.71	6.51	2.91	2.09	0.70
-1.00	1.06	2.53	3.63	7.41	14.65	25.96	33.32	24.01	12.91	6.16	2.77	2.02	0.70
-2.00	1.00	2.23	2.95	6.61	9.48	14.55	15.99	12.98	8.24	5.60	2.32	1.81	0.69
-3.00	0.81	1.32	2.79	3.46	6.22	7.20	7.37	6.32	5.86	2.84	2.26	0.90	0.56
-4.00	0.65	0.96	1.93	2.62	2.91	3.32	3.49	3.33	2.35	2.39	1.61	0.65	0.41
-5.00	0.71	0.69	0.88	1.17	2.18	2.34	2.42	2.38	1.86	1.05	0.73	0.50	0.53
-6.00	0.54	0.66	0.57	0.80	0.95	0.94	0.95	0.98	0.74	0.57	0.48	0.57	0.43
-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.) : 41.493

Illum. (Min.) : 0.3304

Illum. (Avg.) : 4.6977

All illuminance level values are in lux.





Luminaire KH FEELUX

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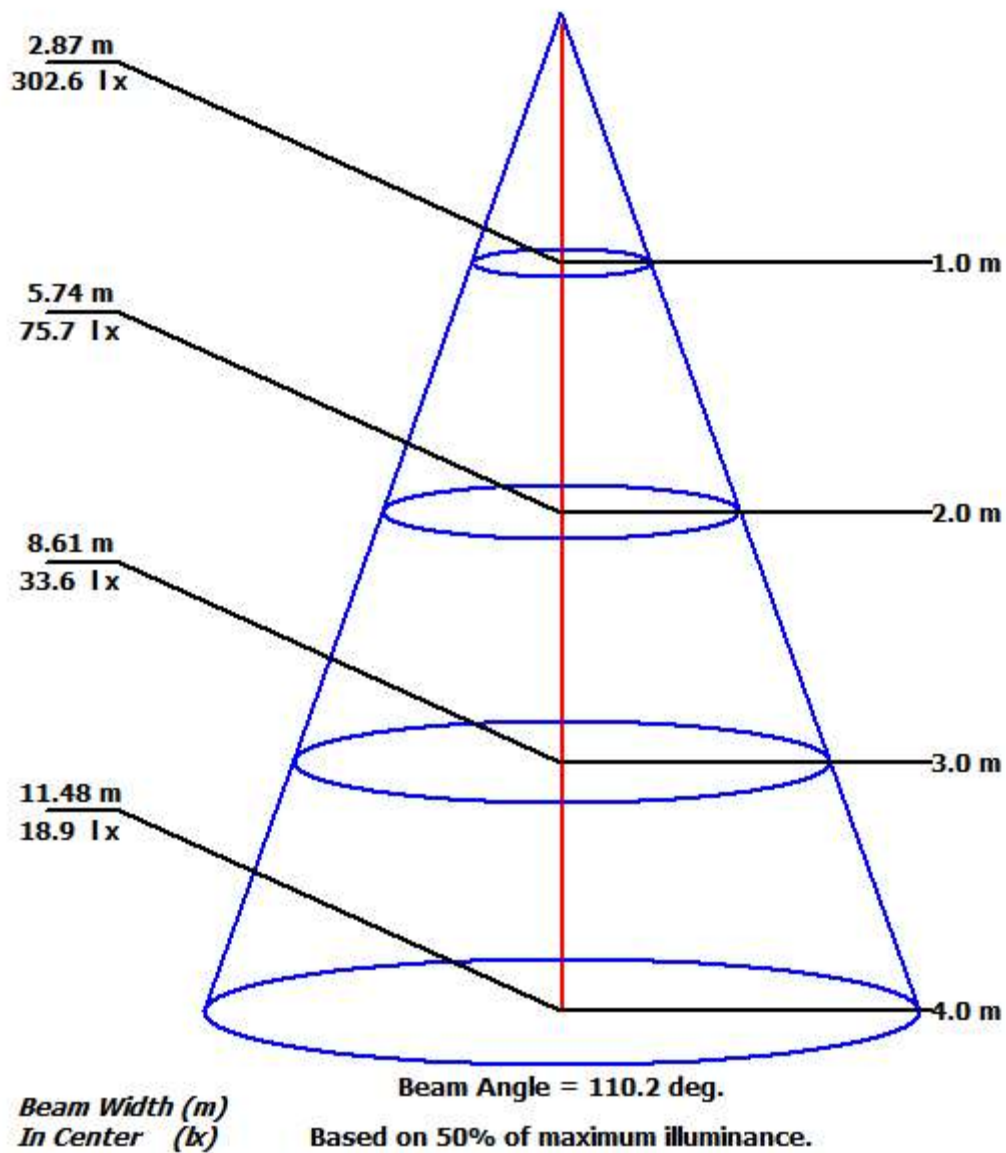
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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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No. of lamps 1 Voltage (V) 0.07

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Lamp flux (lm) 847 Current (A) 0

Operator

Total flux (lm) 847 Power Factor 1

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## 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