

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844  
\* Date of Receipt : 230711

**2. Purpose of Report :****3. Number of Report :** 230712**4. Test Standard / Item :** / 230712 FTS10 22K 1m**5. Test Period :** 230711 ~ 230711**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	
	PKW	Sign	PKW	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
230712			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.5046 , 0.4149	
Correlated Color Temperature	K	2203	
Ra		92.47	
Power Factor		1.000	
Input Voltage	V	23.949	
Input Current	A	0.401	
Input Watt	W	9.61	
Lamp Flux	lm	742.4	
Efficient	lm/W	77.25	
luminous Intensity (Max , Center)	cd	280 , 280	
Illuminance	lx	280	1 m
		70	2 m
		31	3 m

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

\* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

230712

No. of lamps 1

Voltage (V) 23.949

Filename 230712 FTS10 22K 1m.jdt

Lamp flux (lm) 742

Current (A) 0.40126

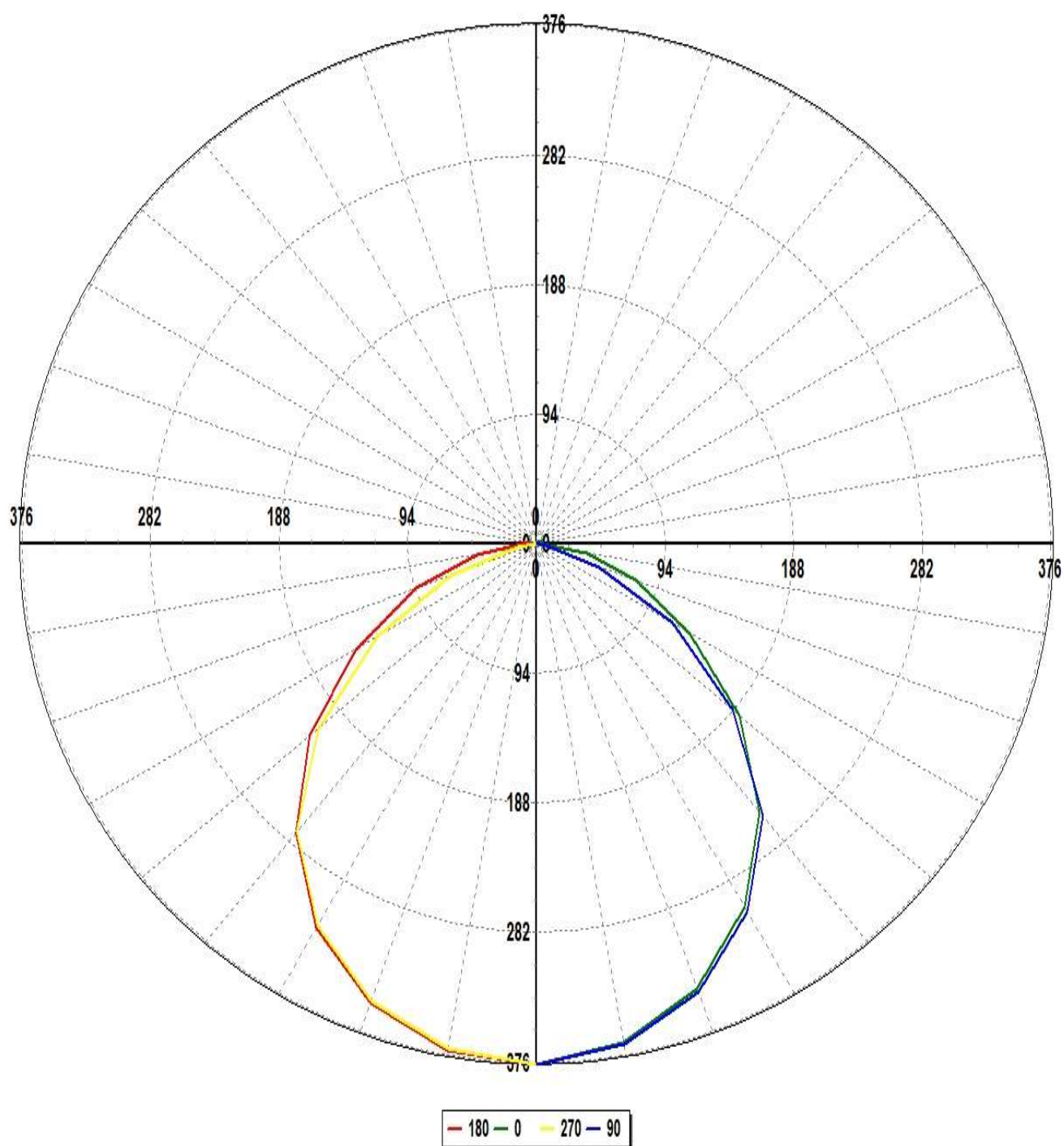
Operator

Total flux (lm) 742

Power Factor 1

Date 2023-07-12 오후 12:30:51

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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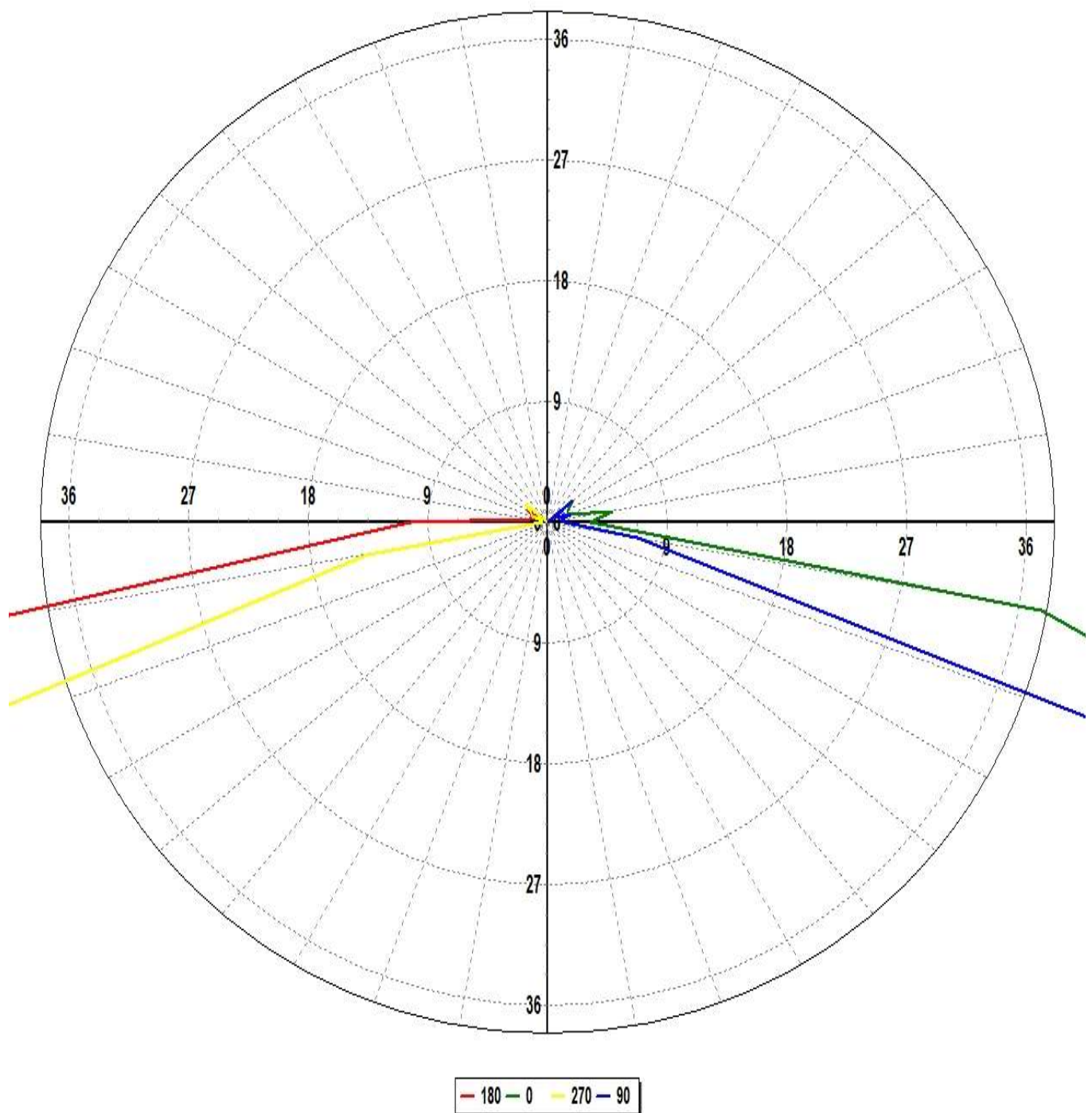
Operator

Total flux (lm) 742

Power Factor 1

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## Luminous Intensity Distribution (Lowest 10%)



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Current (A) 0.40126

Operator

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Power Factor 1

Date 2023-07-12 오후 12:30:51

## Luminous Intensity Data

Maximum (cd) : 280

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	280.25	280.2	279.28	280.37	279.91	280.15	280.25	280.2	279.28	280.37	279.91
10	272.93	272.74	272.99	273.77	273.59	275.21	276.51	275.78	276.12	275.99	275.14
20	254.82	254.58	256.04	256.78	257.72	258.17	263.28	263.44	262.49	261.78	261.08
30	226.06	225.79	228.32	228.84	231.35	230.71	238.77	239.22	237.54	236.97	235.24
40	188.47	187.77	190.39	191.09	194.61	193.34	203.21	204.64	204.21	202.04	200.15
50	143.58	143.64	144.34	138.66	147.46	147.58	160.31	161.24	159.44	154.31	156.05
60	96.34	96.17	95.88	85.18	98.54	100.25	113.05	112.02	110.4	100.07	107.15
70	57.41	56.97	54.6	36.42	56.49	60.88	69.66	69.8	64.46	49.38	62.3
80	27.97	30.63	24.74	5.1	22.48	27.89	32.79	35.24	31.7	10.24	31.22
90	2.39	0.98	0.62	0.94	1.06	4.51	7.65	7.41	4.07	0.27	0.93
100	3.66	2.23	0.76	0.75	1.54	2.3	1	4.52	1.2	0.29	1.14
110	1.25	1.03	1.57	1.35	1.03	1.4	0.66	1.04	1.32	0.94	1.04
120	1.24	1.57	1.09	0.44	0.98	1.23	1.35	1.08	1.48	1.02	0.76
130	1.89	1.08	1.98	1.81	1.32	2.07	1.37	1.24	2.25	1.62	1.12

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Power Factor 1

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## Luminous Intensity Data (Continued)

Maximum (cd) : 280

Minimum (cd) : 0

G/C	330	360
0	280.15	280.25
10	275.35	272.93
20	259.99	254.82
30	234.63	226.06
40	199.67	188.47
50	156.48	143.58
60	108.73	96.34
70	66.13	57.41
80	36.72	27.97
90	0.8	2.39
100	4.58	3.66
110	2.02	1.25
120	0.96	1.24
130	2.17	1.89

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Power Factor 1

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## Luminous Flux Table

Total Lamp Lumens: 742.38

Luminaire Efficiency (lm/W): 77.25

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	6.70	6.70	0.90	0.90
10	52.24	58.93	7.94	7.94
20	97.09	156.02	21.02	21.02
30	127.48	283.50	38.19	38.19
40	138.43	421.93	56.83	56.83
50	126.76	548.69	73.91	73.91
60	96.73	645.42	86.94	86.94
70	60.42	705.84	95.08	95.08
80	28.47	734.31	98.91	98.91
90	2.89	737.20	99.30	99.30
100	2.16	739.36	99.59	99.59
110	1.25	740.61	99.76	99.76
120	1.04	741.65	99.90	99.90
130	0.72	742.38	100.00	100.00



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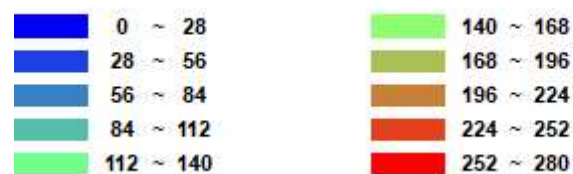
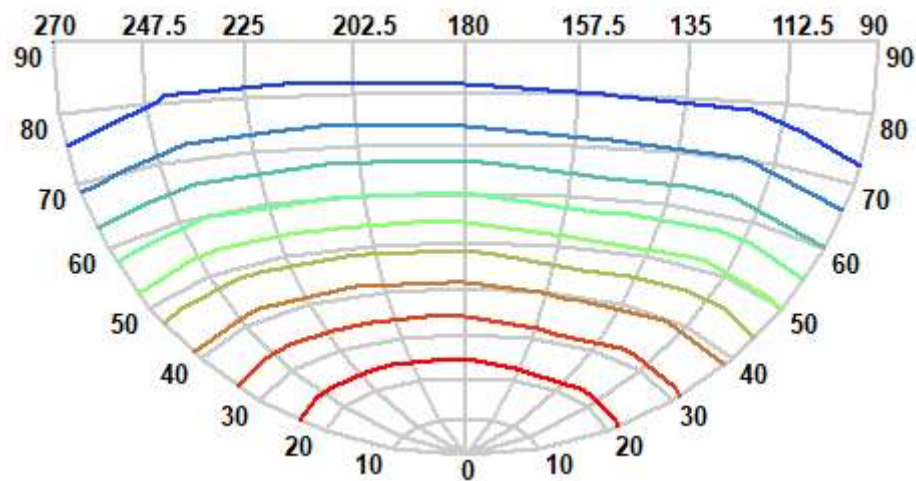
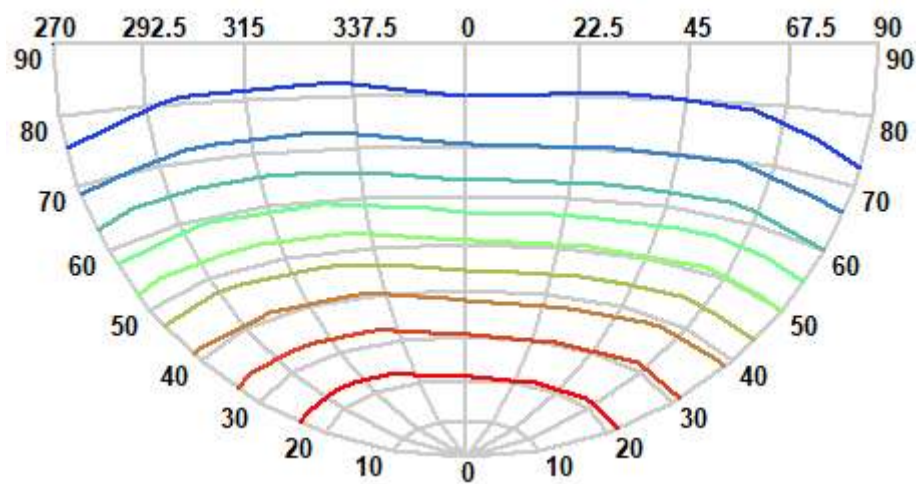
Operator

Total flux (lm) 742

Power Factor 1

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## IsoCandela (Type C)





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Lamp

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Total flux (lm) 742

Power Factor 1

Report

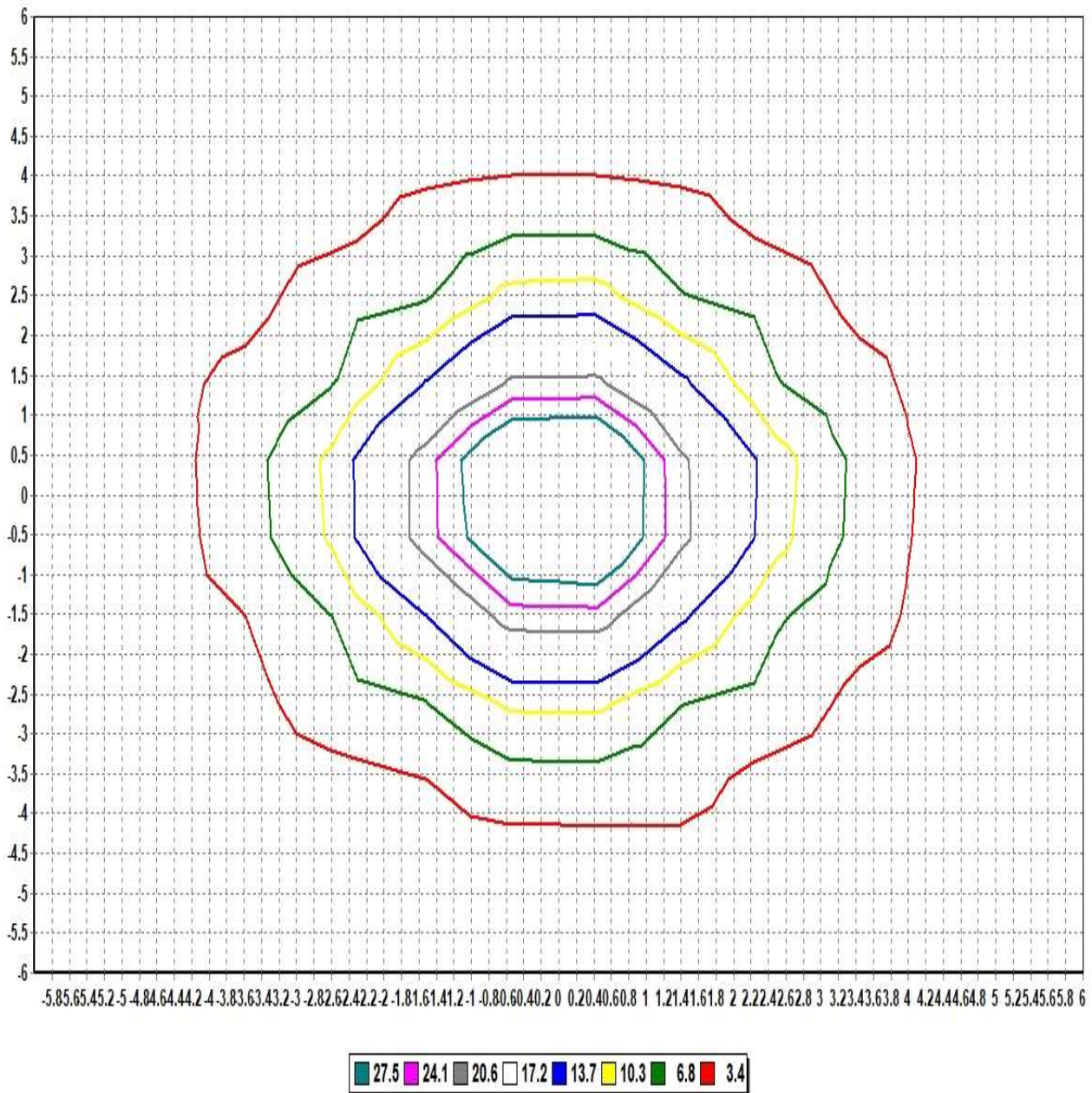
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Operator

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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) 23.949

Lamp flux (lm) 742

Current (A) 0.40126

Total flux (lm) 742

Power Factor 1

Report

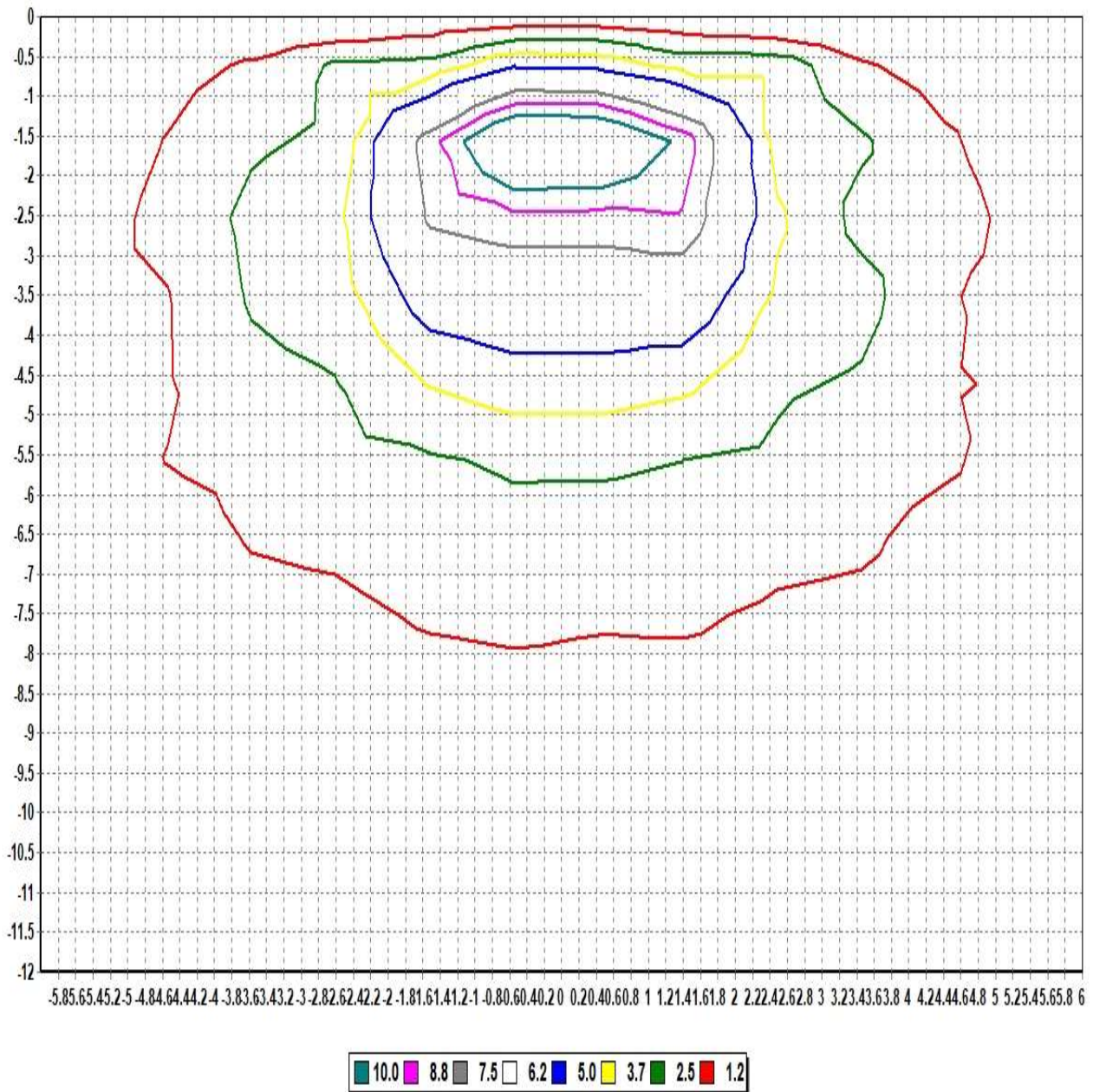
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## IsoLux Diagram (Wall)



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)	23.949
Lamp flux (lm)	742	Current (A)	0.40126
Total flux (lm)	742	Power Factor	1

Report 230712

Filename 230712 FTS10 22K 1m.jdt

Operator

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## Illuminance Levels (Ground)

6.00	0.31	0.41	0.24	0.45	0.52	0.60	0.54	0.55	0.57	0.46	0.34	0.44	0.33
5.00	0.46	0.31	0.45	0.62	1.58	1.85	1.91	1.83	1.58	0.76	0.54	0.38	0.44
4.00	0.37	0.57	1.32	1.94	1.94	2.42	2.56	2.41	1.92	2.01	1.34	0.55	0.35
3.00	0.46	0.81	2.06	2.22	5.17	5.50	6.12	5.49	5.19	2.29	2.00	0.78	0.46
2.00	0.59	1.62	1.97	5.29	7.29	12.26	14.53	11.87	7.22	5.15	1.92	1.58	0.58
1.00	0.76	2.05	2.76	5.63	12.27	22.55	30.91	22.19	11.86	5.48	2.67	1.99	0.73
0.00	0.83	2.25	3.17	6.93	15.34	31.23	38.44	30.81	14.34	6.26	2.77	2.00	0.70
-1.00	0.73	2.00	2.74	6.12	12.89	23.34	31.17	23.08	12.62	5.95	2.65	1.95	0.70
-2.00	0.69	1.79	2.23	5.61	7.98	12.90	15.24	12.64	7.77	5.49	2.14	1.73	0.64
-3.00	0.56	0.92	2.25	2.64	5.62	6.11	6.73	5.92	5.52	2.47	2.19	0.88	0.51
-4.00	0.43	0.66	1.53	2.23	2.22	2.74	2.93	2.75	2.12	2.15	1.45	0.62	0.40
-5.00	0.52	0.46	0.63	0.88	1.78	2.04	2.14	2.06	1.71	0.76	0.54	0.37	0.50
-6.00	0.39	0.51	0.40	0.55	0.68	0.67	0.67	0.72	0.60	0.50	0.32	0.47	0.35
-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.) : 38.443

Illum. (Min.) : 0.2449

Illum. (Avg.) : 4.2251

All illuminance level values are in lux.





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Lamp

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Total flux (lm) 742

Power Factor 1

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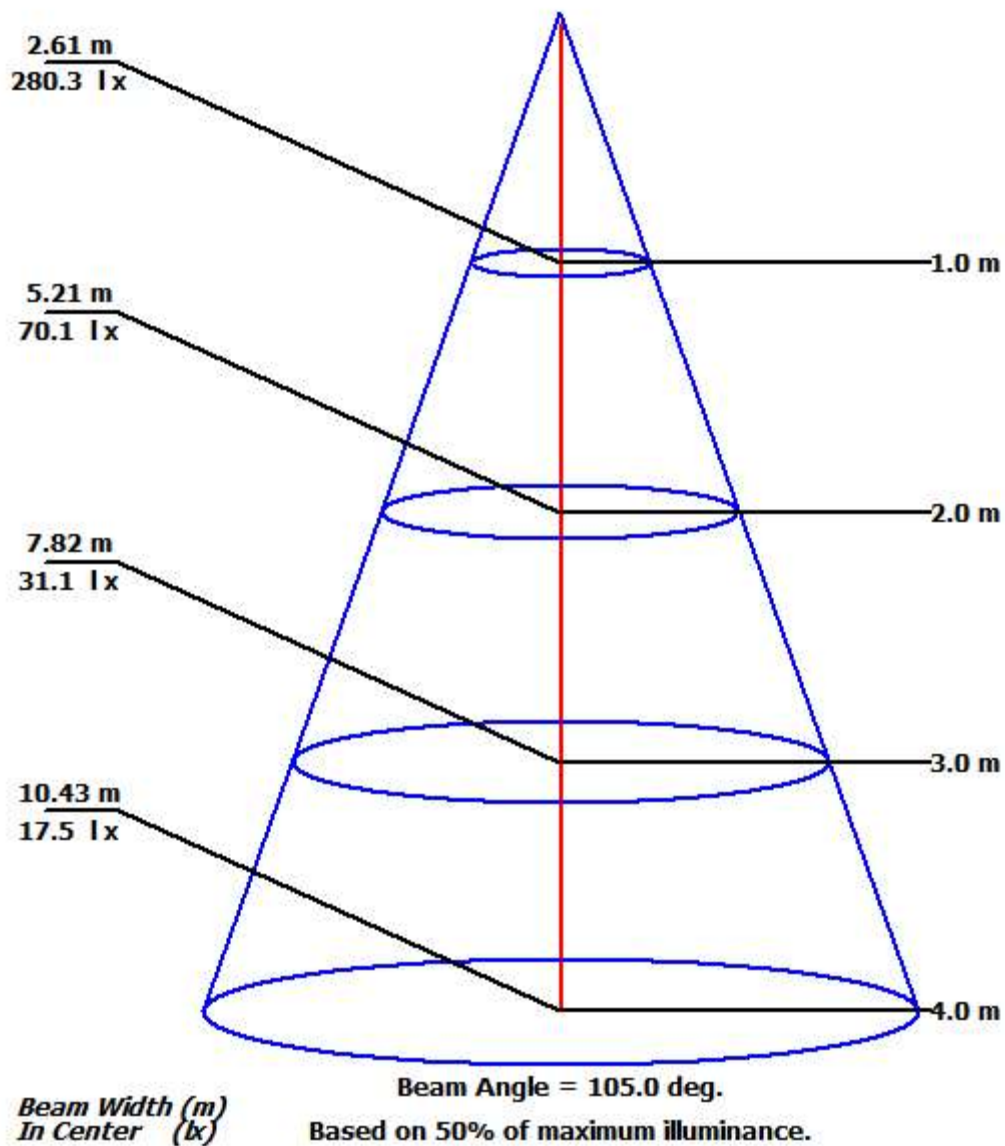
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## Illuminance Cone Diagram



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Total flux (lm) 742 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