

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84  
\* Date of Receipt : 230711

**2. Purpose of Report :**

**3. Number of Report :** 230712

**4. Test Standard / Item :** / 230712 FTS5 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 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
230712			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.5026 , 0.4122	
Correlated Color Temperature	K	2203	
Ra		92.39	
Power Factor		1.000	
Input Voltage	V	23.971	
Input Current	A	0.194	
Input Watt	W	4.6588	
Lamp Flux	lm	363.2	
Efficient	lm/W	77.96	
luminous Intensity (Max , Center)	cd	137 , 137	
Illuminance	lx	137	1 m
		34	2 m
		15	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) 23.971

Filename 230712 FTS5 22K 1m.jdt

Lamp flux (lm) 363

Current (A) 0.19435

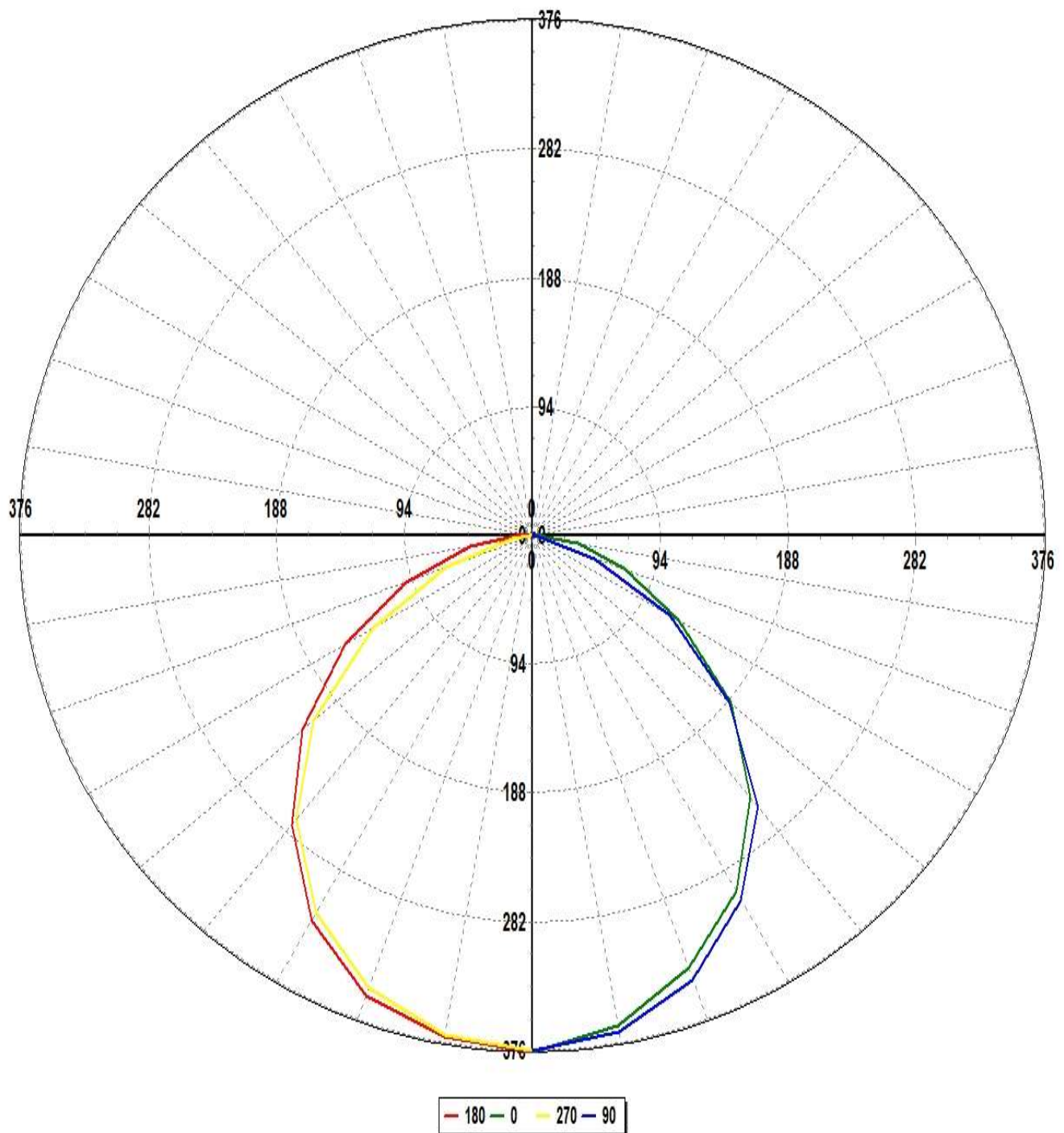
Operator

Total flux (lm) 363

Power Factor 1

Date 2023-07-12 오전 11:54:21

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

230712

No. of lamps 1

Voltage (V) 23.971

Filename 230712 FTS5 22K 1m.jdt

Lamp flux (lm) 363

Current (A) 0.19435

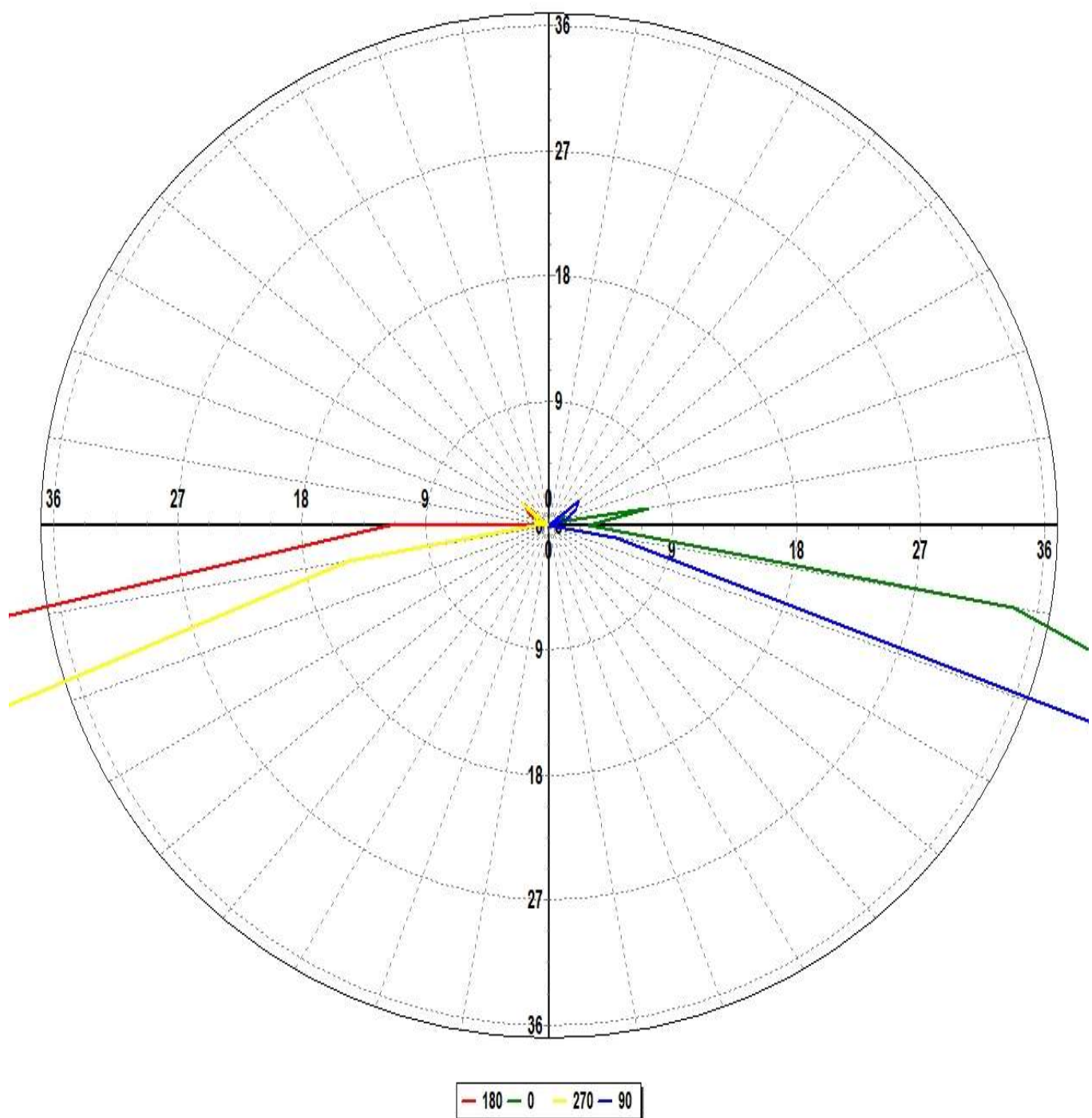
Operator

Total flux (lm) 363

Power Factor 1

Date 2023-07-12 오전 11:54:21

## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

230712

No. of lamps 1

Voltage (V) 23.971

Filename 230712 FTS5 22K 1m.jdt

Lamp flux (lm) 363

Current (A) 0.19435

Operator

Total flux (lm) 363

Power Factor 1

Date 2023-07-12 오전 11:54:21

## Luminous Intensity Data

Maximum (cd) : 137

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	137.02	136.88	136.68	136.43	136.53	136.42	137.02	136.88	136.68	136.43	136.53
10	131.91	132.86	132.63	133.5	133.89	133.83	135.09	135.21	134.35	134.44	134.43
20	122.16	123.47	123.61	125.29	126.59	127.51	129.97	128.82	128.31	127.57	126.88
30	109.07	108.79	110.23	111.53	113.65	114.08	117.89	117.8	117.16	115.74	114.16
40	90.46	90.28	91.9	93.79	95.91	96.14	100.03	101.02	100.76	98.21	96.55
50	69.27	68.9	69.77	68.44	73.96	74.84	80.35	79.74	79.56	76.34	75.38
60	45.12	44.87	45.75	42.32	49.33	51.09	57.58	57.05	55.63	49.19	51.18
70	25.94	26.52	26.65	17.62	28.3	31.41	35.91	35.84	32.79	24.27	29.8
80	12.46	13.84	11.33	1.79	12.02	14.93	16.94	18.61	15.69	5.37	14.01
90	1.05	0.76	0.4	-0.18	1.05	3.22	4.21	4.41	2.45	0.38	0.33
100	2.68	1.37	0.5	0.02	0.99	2.38	-0.08	1.51	0.03	-0.03	-0.02
110	0.18	0.9	1.36	0.47	-0.12	0.29	-0.31	0.76	0.55	0.36	1.13
120	0.48	0.74	1.01	0.82	1.05	-0.22	0.59	0.92	0.28	0.35	0.28
130	0.46	0.67	0.36	1.03	0.44	1.43	0.9	0.76	1.24	0.91	0.83

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.971
Lamp flux (lm)	363	Current (A)	0.19435
Total flux (lm)	363	Power Factor	1

Report 230712

Filename 230712 FTS5 22K 1m.jdt

Operator

Date 2023-07-12 오전 11:54:21

## Luminous Intensity Data (Continued)

Maximum (cd) : 137

Minimum (cd) : 0

G/C	330	360
0	136.42	137.02
10	133.33	131.91
20	126.17	122.16
30	112.41	109.07
40	95.9	90.46
50	75.43	69.27
60	51.62	45.12
70	30.97	25.94
80	16.03	12.46
90	-0.3	1.05
100	2.65	2.68
110	1.15	0.18
120	0.74	0.48
130	1.1	0.46

Luminaire KH FEELUX

Lamp

Report

230712

No. of lamps 1

Voltage (V) 23.971

Filename 230712 FTS5 22K 1m.jdt

Lamp flux (lm) 363

Current (A) 0.19435

Operator

Total flux (lm) 363

Power Factor 1

Date 2023-07-12 오전 11:54:21

## Luminous Flux Table

Total Lamp Lumens: 363.23

Luminaire Efficiency (lm/W): 77.97

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	3.27	3.27	0.90	0.90
10	25.44	28.71	7.91	7.90
20	47.33	76.05	20.94	20.94
30	62.18	138.22	38.06	38.05
40	67.52	205.75	56.65	56.64
50	62.36	268.11	73.82	73.81
60	47.48	315.60	86.89	86.89
70	29.68	345.27	95.06	95.06
80	13.75	359.03	98.85	98.84
90	1.62	360.65	99.30	99.29
100	1.08	361.73	99.59	99.59
110	0.58	362.30	99.75	99.75
120	0.56	362.86	99.91	99.90
130	0.37	363.23	100.01	100.00



Luminaire KH FEELUX

Lamp

Report

230712

No. of lamps 1

Voltage (V) 23.971

Filename 230712 FTS5 22K 1m.jdt

Lamp flux (lm) 363

Current (A) 0.19435

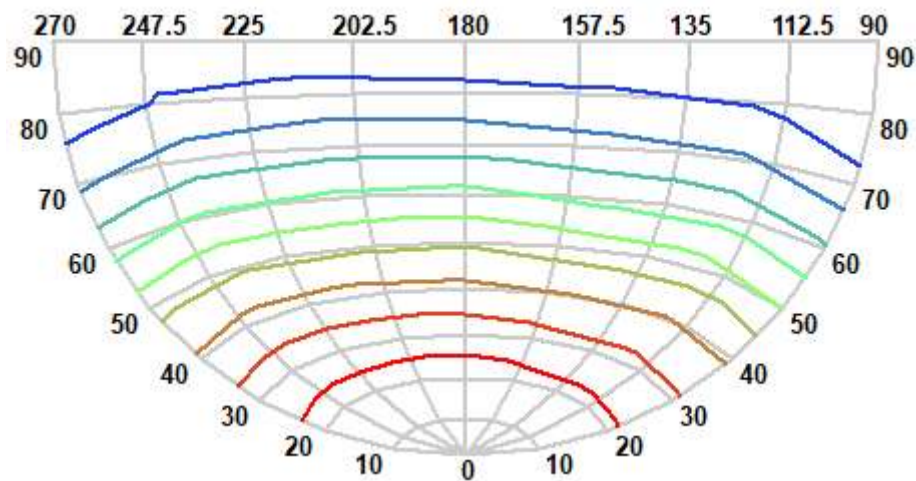
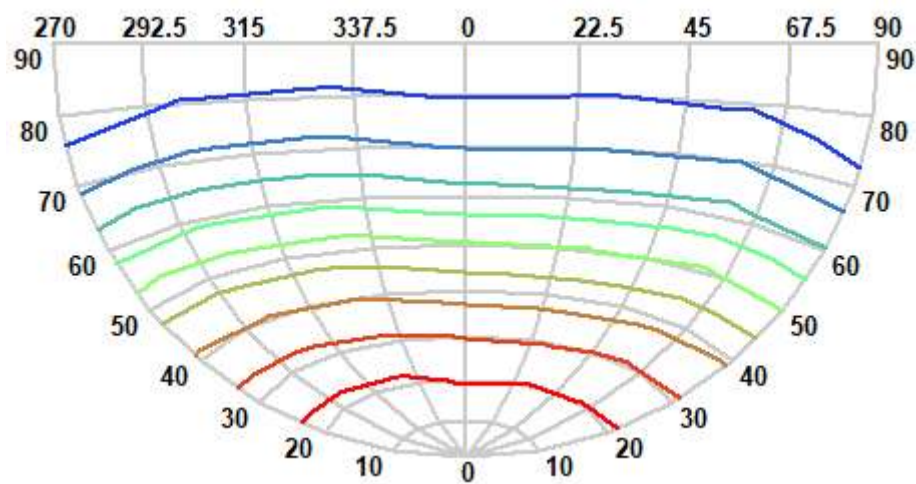
Operator

Total flux (lm) 363

Power Factor 1

Date 2023-07-12 오전 11:54:21

## IsoCandela (Type C)





Luminaire KH FEELUX

Lamp

Report

230712

No. of lamps 1

Voltage (V) 23.971

Filename 230712 FTS5 22K 1m.jdt

Lamp flux (lm) 363

Current (A) 0.19435

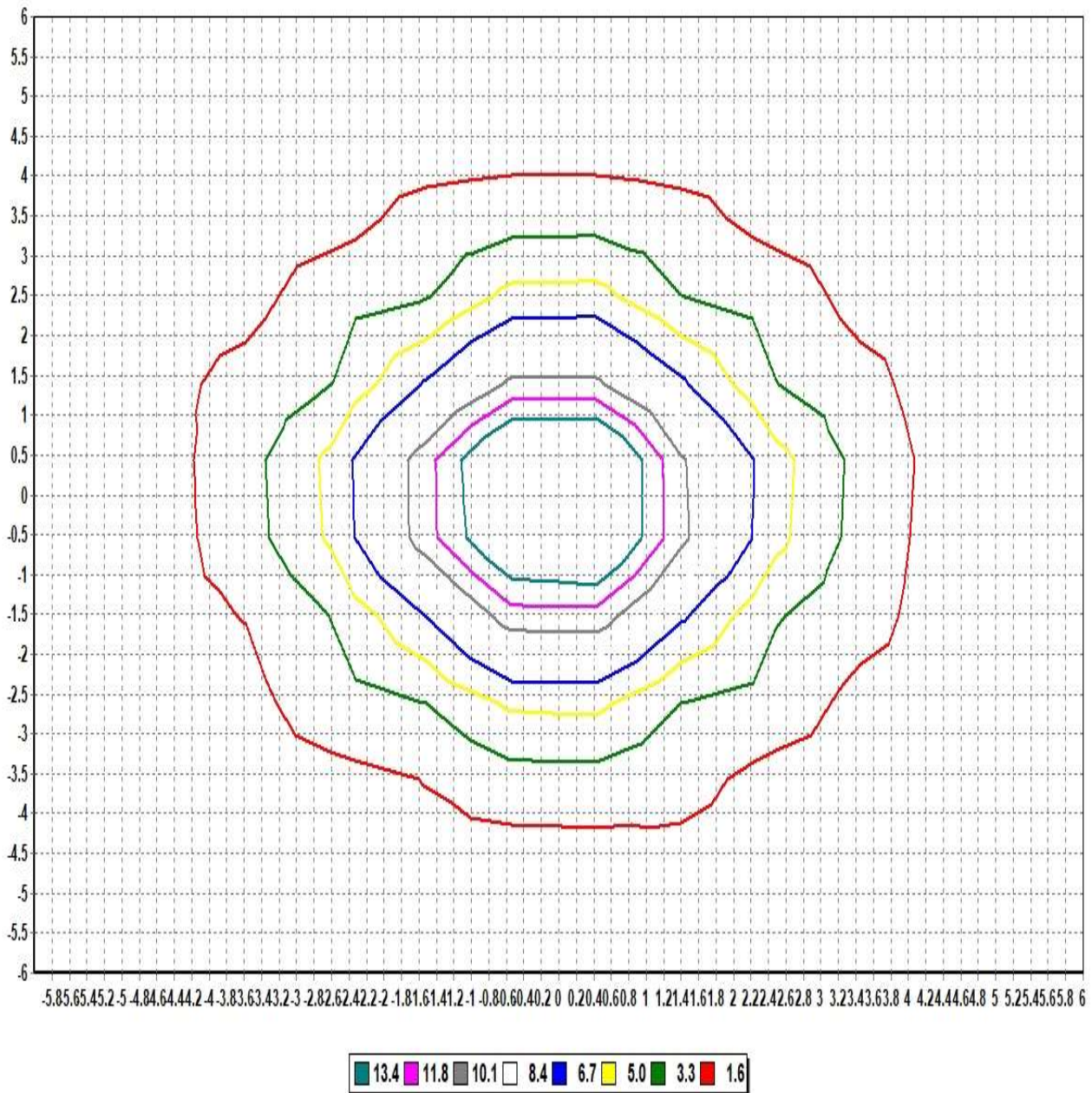
Operator

Total flux (lm) 363

Power Factor 1

Date 2023-07-12 오전 11:54:21

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

230712

No. of lamps 1

Voltage (V) 23.971

Filename 230712 FTS5 22K 1m.jdt

Lamp flux (lm) 363

Current (A) 0.19435

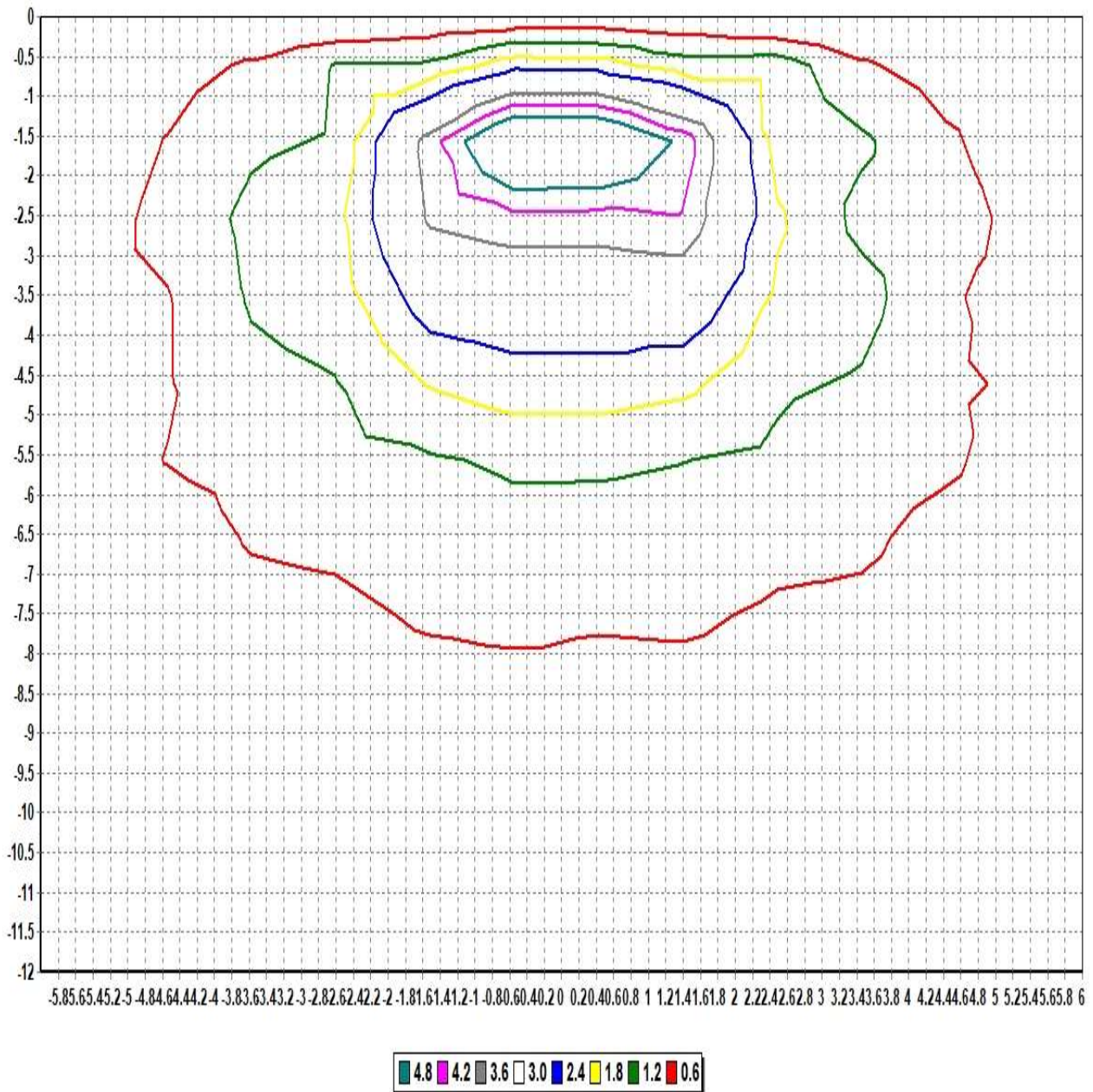
Operator

Total flux (lm) 363

Power Factor 1

Date 2023-07-12 오전 11:54:21

## 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

Report 230712

No. of lamps 1 Voltage (V) 23.971

Filename 230712 FTS5 22K 1m.jdt

Lamp flux (lm) 363 Current (A) 0.19435

Operator

Total flux (lm) 363 Power Factor 1

Date 2023-07-12 오전 11:54:21

## Illuminance Levels (Ground)

6.00	0.15	0.20	0.12	0.22	0.26	0.29	0.27	0.27	0.27	0.21	0.16	0.21	0.16
5.00	0.23	0.16	0.22	0.30	0.79	0.90	0.94	0.89	0.75	0.37	0.26	0.17	0.21
4.00	0.19	0.29	0.66	0.96	0.97	1.18	1.27	1.17	0.90	0.97	0.64	0.25	0.16
3.00	0.23	0.42	1.04	1.11	2.54	2.74	3.02	2.64	2.50	1.08	0.96	0.36	0.21
2.00	0.30	0.81	0.99	2.64	3.61	6.04	7.11	5.71	3.47	2.47	0.90	0.75	0.27
1.00	0.39	1.03	1.40	2.83	6.05	11.04	15.07	10.70	5.70	2.63	1.27	0.96	0.34
0.00	0.43	1.13	1.60	3.46	7.56	15.26	18.80	14.89	6.90	3.02	1.32	0.96	0.32
-1.00	0.37	1.01	1.39	3.04	6.36	11.50	15.18	11.24	6.09	2.87	1.26	0.94	0.32
-2.00	0.35	0.89	1.13	2.77	3.95	6.37	7.42	6.10	3.78	2.64	1.02	0.83	0.31
-3.00	0.29	0.47	1.13	1.34	2.78	3.03	3.31	2.88	2.69	1.20	1.05	0.42	0.24
-4.00	0.22	0.34	0.77	1.11	1.13	1.36	1.44	1.37	1.02	1.06	0.71	0.29	0.19
-5.00	0.27	0.24	0.32	0.45	0.89	1.01	1.06	1.03	0.83	0.37	0.26	0.18	0.24
-6.00	0.20	0.26	0.20	0.28	0.34	0.33	0.33	0.36	0.29	0.24	0.16	0.23	0.17
-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.) : 18.796

Illum. (Min.) : 0.1195

Illum. (Avg.) : 2.0658

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

Report

230712

No. of lamps 1

Voltage (V) 23.971

Filename 230712 FTS5 22K 1m.jdt

Lamp flux (lm) 363

Current (A) 0.19435

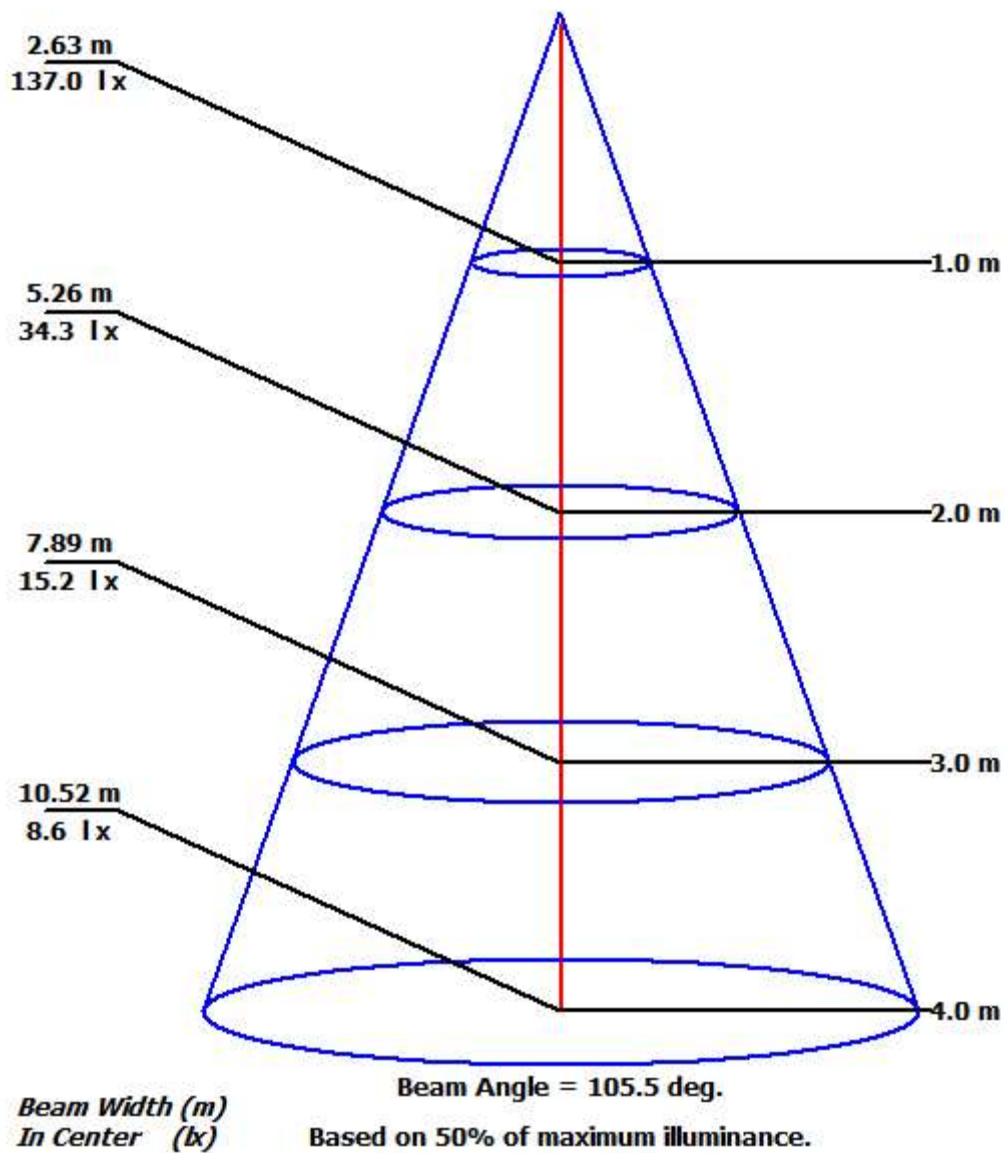
Operator

Total flux (lm) 363

Power Factor 1

Date 2023-07-12 오전 11:54:21

## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report 230712

No. of lamps 1 Voltage (V) 23.971

Filename 230712 FTS5 22K 1m.jdt

Lamp flux (lm) 363 Current (A) 0.19435

Operator

Total flux (lm) 363 Power Factor 1

Date 2023-07-12 오전 11:54:21

## 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