

TEST REPORT

1. Applicant

* Client Name : KH-FEELUX Co. Ltd.
* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-si Gyeonggi-do 482-844 Korea
* Date of Receipt : 220120

2. Purpose of Report :**3. Number of Report :** 220120**4. Test Standard / Item :** / FTS5 24K-24V-C90-1M**5. Test Period :** 220120 ~ 220120**6. Test Environment**

* Ambient Temp. : 23.0 +- 3 °C
* Relative Humidity : 25.0 +- 10 % RH

7. Test Item

* Name of Product :
* Rating :
* Model :

8. Test Result : Refer to the attachment

Confirmation	Test by		Technical manager	
	YKI	Sign	YKI	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
220120			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4937 , 0.4216	
Correlated Color Temperature	K	2362	
Ra		95.03	
Power Factor		1.000	
Input Voltage	V	23.977	
Input Current	A	0.183	
Input Watt	W	4.3914	
Lamp Flux	lm	340.9	
Efficient	lm/W	77.63	
luminous Intensity (Max , Center)	cd	124 , 124	
Illuminance	lx	124	1 m
		31	2 m
		14	3 m

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

220120

No. of lamps 1

Voltage (V) 23.977

Filename FTS5 24K-24V-C90-1M.jdt

Lamp flux (lm) 341

Current (A) 0.18315

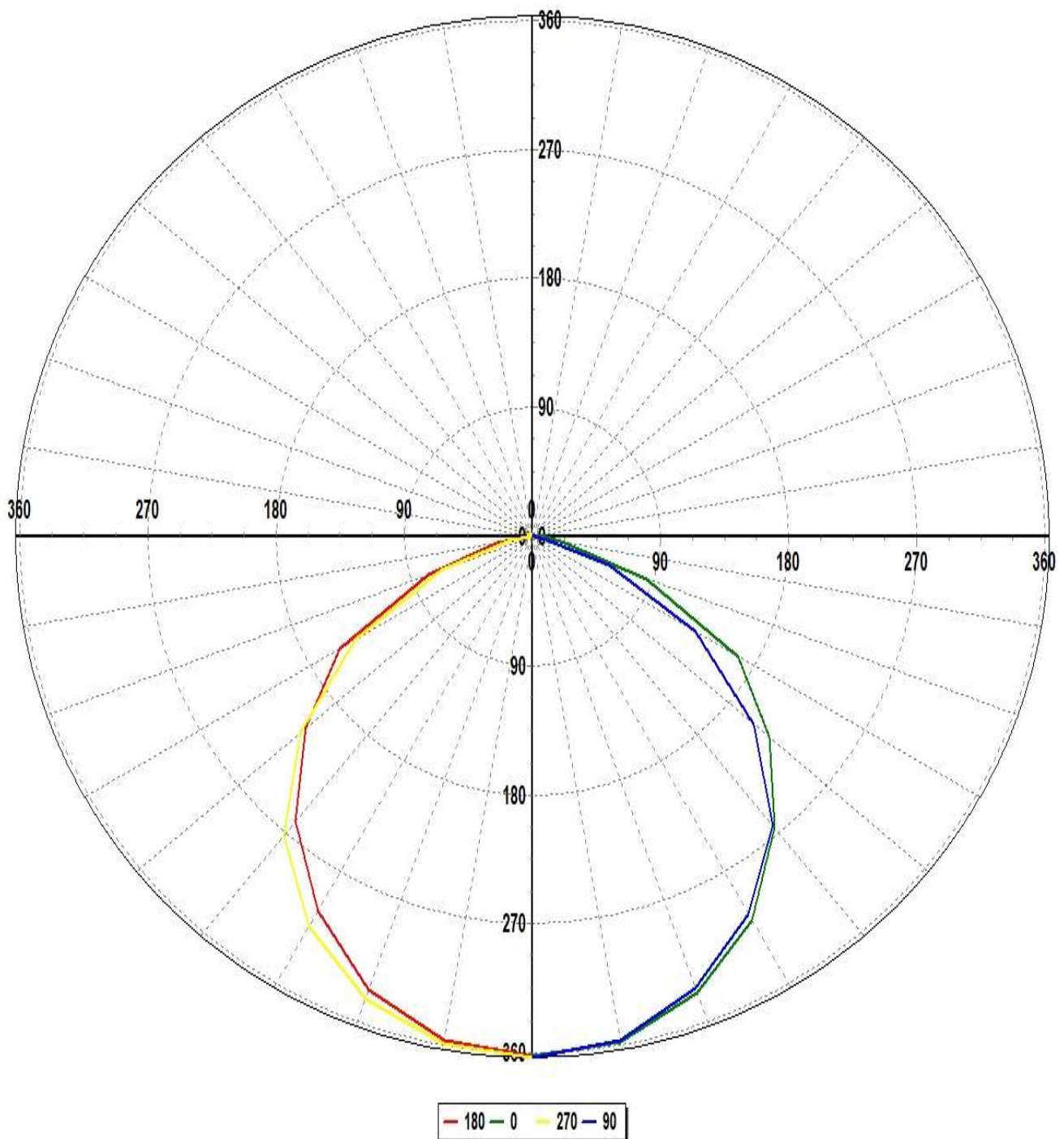
Operator YKI

Total flux (lm) 341

Power Factor 1

Date 2022-01-20 오후 3:09:43

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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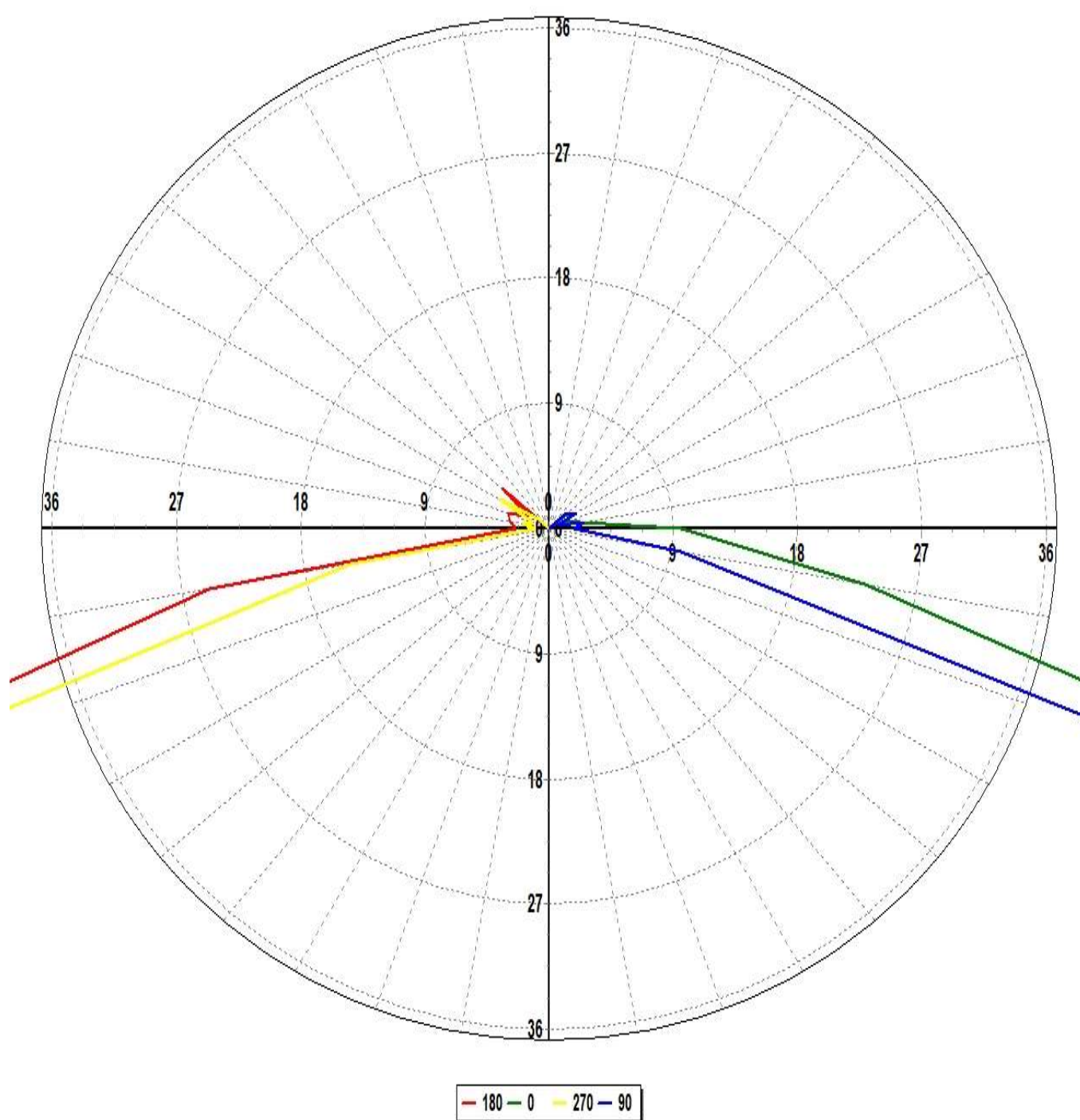
Operator YKI

Total flux (lm) 341

Power Factor 1

Date 2022-01-20 오후 3:09:43

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Power Factor 1

Date 2022-01-20 오후 3:09:43

Luminous Intensity Data

Maximum (cd) : 124

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	123.52	124.15	123.64	123.73	123.59	124.42	123.52	124.15	123.64	123.73	123.59
10	121.88	121.66	122.01	121.44	121.05	120.62	121.5	121.4	121.41	122.1	122.25
20	115.19	115.81	115.49	114.26	114	112.83	114.39	114.81	115.18	116.8	116.63
30	105.31	104.82	104.92	103.32	103.35	102.16	102.62	104.55	104.85	106.78	106.5
40	90.17	90.26	90.51	89.62	88.2	86.64	88.16	89.37	90.74	92.64	92.8
50	74.07	72.26	72.26	69.31	70.21	68.66	70.86	71.88	73.11	72.46	75.5
60	56.86	53.62	51.8	45.16	47.66	48.14	53.36	51.36	51.56	48.84	54.59
70	29.15	29.11	29.22	19.56	25.49	24.93	26.46	28.93	28.7	23.12	31.66
80	7.93	8.02	9.12	3.3	7.55	7.47	8.52	7.78	9.17	4.99	10.53
90	3.25	2.25	1.56	0.62	1.61	2.01	0.81	1.03	0.87	0.35	2.36
100	0.79	0.68	1.23	0.89	0.41	1.3	1	1.6	0.89	0.67	0.63
110	0.42	0.89	0.53	0.22	0.87	1.37	1.09	0.83	0.42	0.43	0.1
120	0.62	0.27	0.51	0.78	0.76	0.86	0.58	0.43	0.92	1.42	1
130	0.55	0.96	0.23	0.51	0.21	1.16	1.53	0.94	0.86	0.33	0.83

Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 341 Current (A) 0.18315

Operator YKI

Total flux (lm) 341 Power Factor 1

Date 2022-01-20 오후 3:09:43

Luminous Intensity Data (Continued)

Maximum (cd) : 124

Minimum (cd) : 0

G/C	330	360
0	124.42	123.52
10	122.94	121.88
20	116.94	115.19
30	106.94	105.31
40	92.97	90.17
50	75.86	74.07
60	56.92	56.86
70	33.35	29.15
80	10.48	7.93
90	3.26	3.25
100	0.23	0.79
110	0.5	0.42
120	0.48	0.62
130	1.83	0.55

Luminaire KH FEELUX

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Total flux (lm) 341 Power Factor 1

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Luminous Flux Table

Total Lamp Lumens: 340.89

Luminaire Efficiency (lm/W): 77.63

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.96	2.96	0.87	0.87
10	23.14	26.10	7.66	7.66
20	43.15	69.26	20.32	20.32
30	57.32	126.58	37.13	37.13
40	63.48	190.06	55.75	55.75
50	60.58	250.64	73.52	73.52
60	49.00	299.63	87.89	87.90
70	28.27	327.91	96.19	96.19
80	8.53	336.43	98.69	98.69
90	1.82	338.26	99.23	99.23
100	0.93	339.19	99.50	99.50
110	0.66	339.84	99.69	99.69
120	0.68	340.53	99.89	99.89
130	0.36	340.89	100.00	100.00

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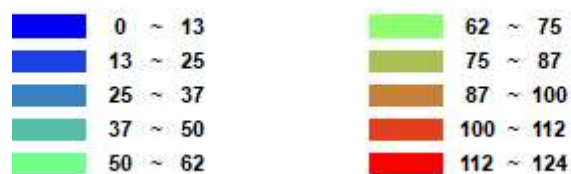
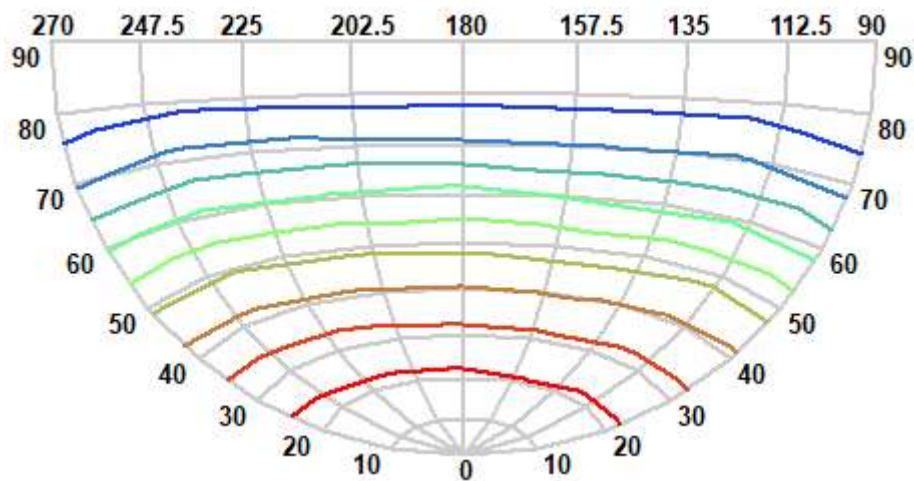
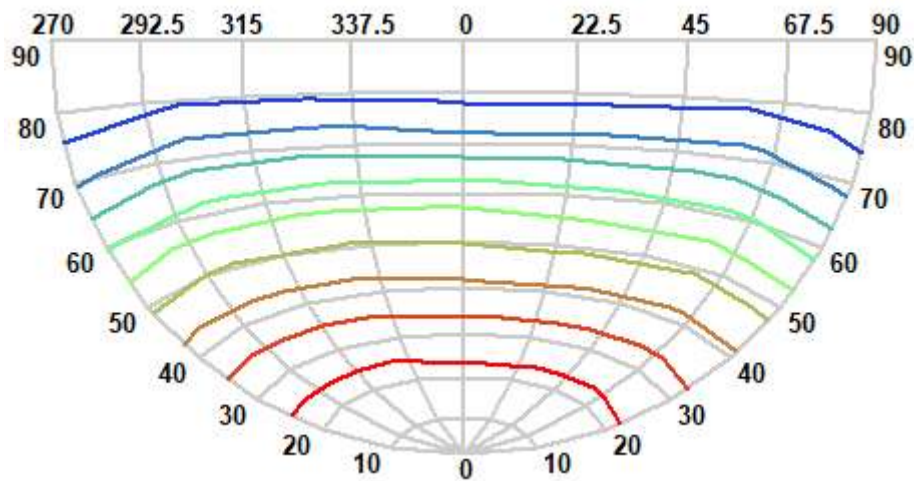
Operator YKI

Total flux (lm) 341

Power Factor 1

Date 2022-01-20 오후 3:09:43

IsoCandela (Type C)



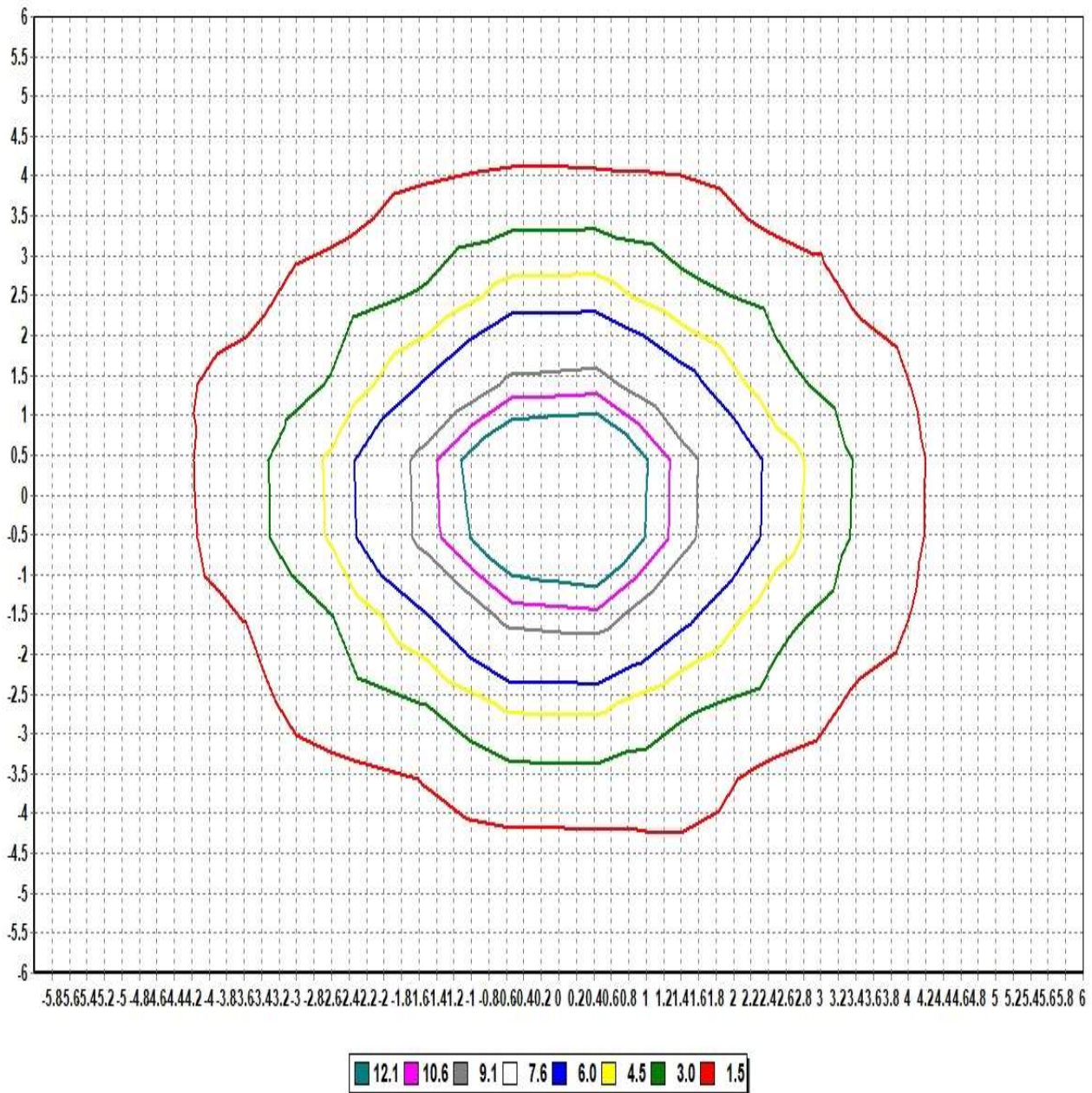
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Lamp

No. of lamps	1	Voltage (V)	23.977
Lamp flux (lm)	341	Current (A)	0.18315
Total flux (lm)	341	Power Factor	1

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Filename	FTS5 24K-24V-C90-1M.jdt
Operator	YKI
Date	2022-01-20 오후 3:09:43

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 341

Current (A) 0.18315

Total flux (lm) 341

Power Factor 1

Report

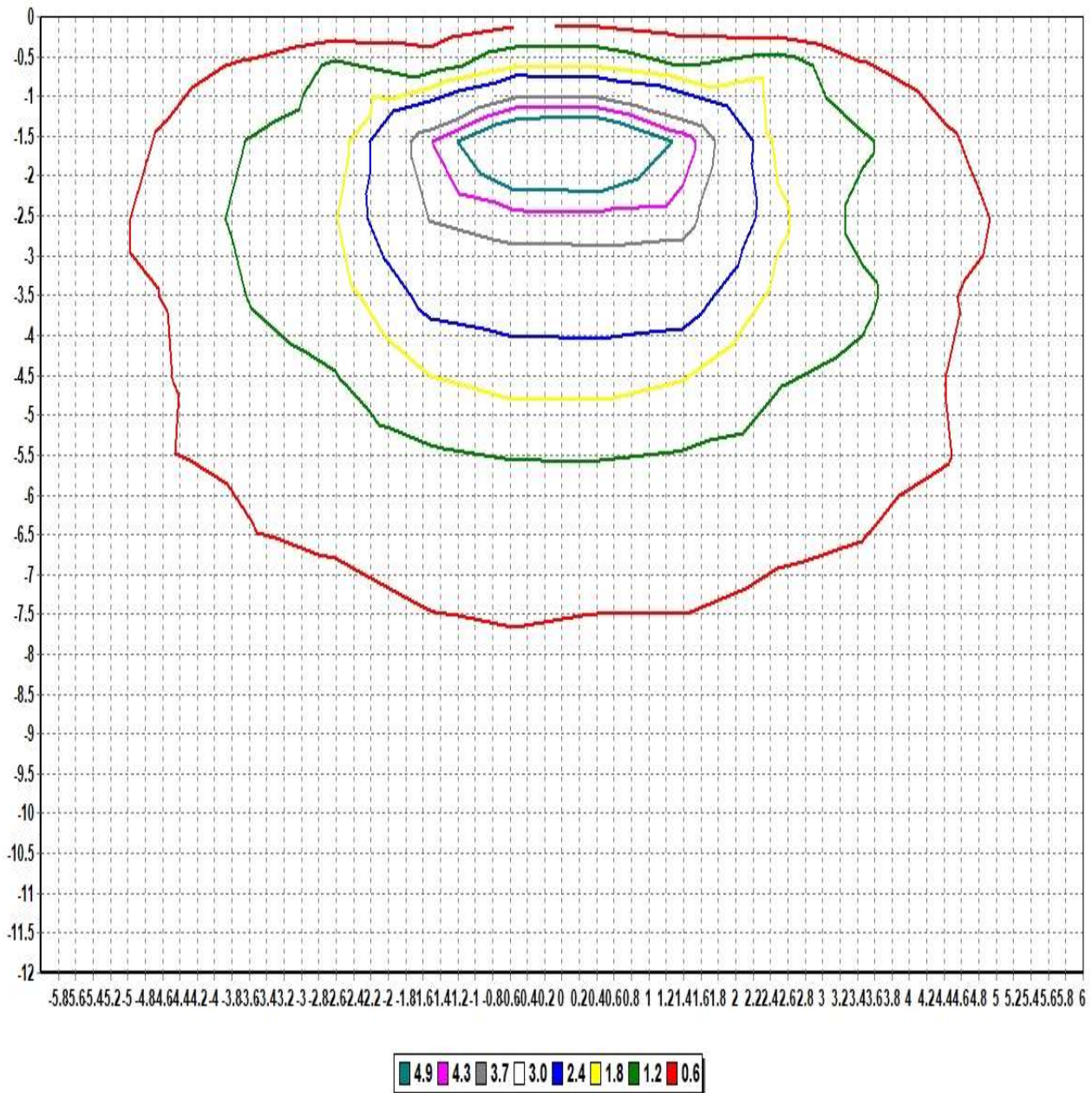
220120

Filename FTS5 24K-24V-C90-1M.jdt

Operator YKI

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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

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Total flux (lm)	341	Power Factor	1

Report 220120

Filename FTS5 24K-24V-C90-1M.jdt

Operator YKI

Date 2022-01-20 오후 3:09:43

Illuminance Levels (Ground)

6.00	0.16	0.21	0.13	0.21	0.25	0.32	0.29	0.30	0.30	0.24	0.18	0.24	0.19
5.00	0.22	0.15	0.23	0.33	0.77	0.94	0.96	0.92	0.81	0.41	0.29	0.20	0.26
4.00	0.16	0.25	0.65	0.97	0.95	1.26	1.32	1.25	1.05	1.02	0.71	0.30	0.18
3.00	0.21	0.37	0.97	1.11	2.45	2.66	3.01	2.75	2.50	1.27	1.04	0.43	0.24
2.00	0.27	0.77	0.95	2.40	3.47	5.57	6.72	5.69	3.59	2.51	1.06	0.82	0.31
1.00	0.33	0.93	1.29	2.65	5.55	10.10	13.71	10.25	5.69	2.77	1.41	1.00	0.38
0.00	0.36	1.00	1.45	3.05	6.63	13.72	16.94	13.76	6.79	3.17	1.53	1.05	0.39
-1.00	0.32	0.92	1.28	2.72	5.63	10.12	13.79	10.39	5.85	2.87	1.41	1.00	0.37
-2.00	0.29	0.80	1.02	2.45	3.51	5.65	6.94	5.85	3.65	2.59	1.08	0.85	0.33
-3.00	0.24	0.40	1.00	1.21	2.51	2.75	3.14	2.83	2.55	1.21	1.07	0.45	0.26
-4.00	0.17	0.28	0.69	1.02	1.02	1.29	1.40	1.30	1.07	1.02	0.70	0.32	0.20
-5.00	0.24	0.19	0.28	0.40	0.81	0.95	1.01	0.96	0.83	0.36	0.26	0.18	0.26
-6.00	0.18	0.24	0.18	0.24	0.30	0.32	0.32	0.33	0.30	0.25	0.15	0.23	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.) : 16.944

Illum. (Min.) : 0.1278

Illum. (Avg.) : 1.9547

All illuminance level values are in lux.



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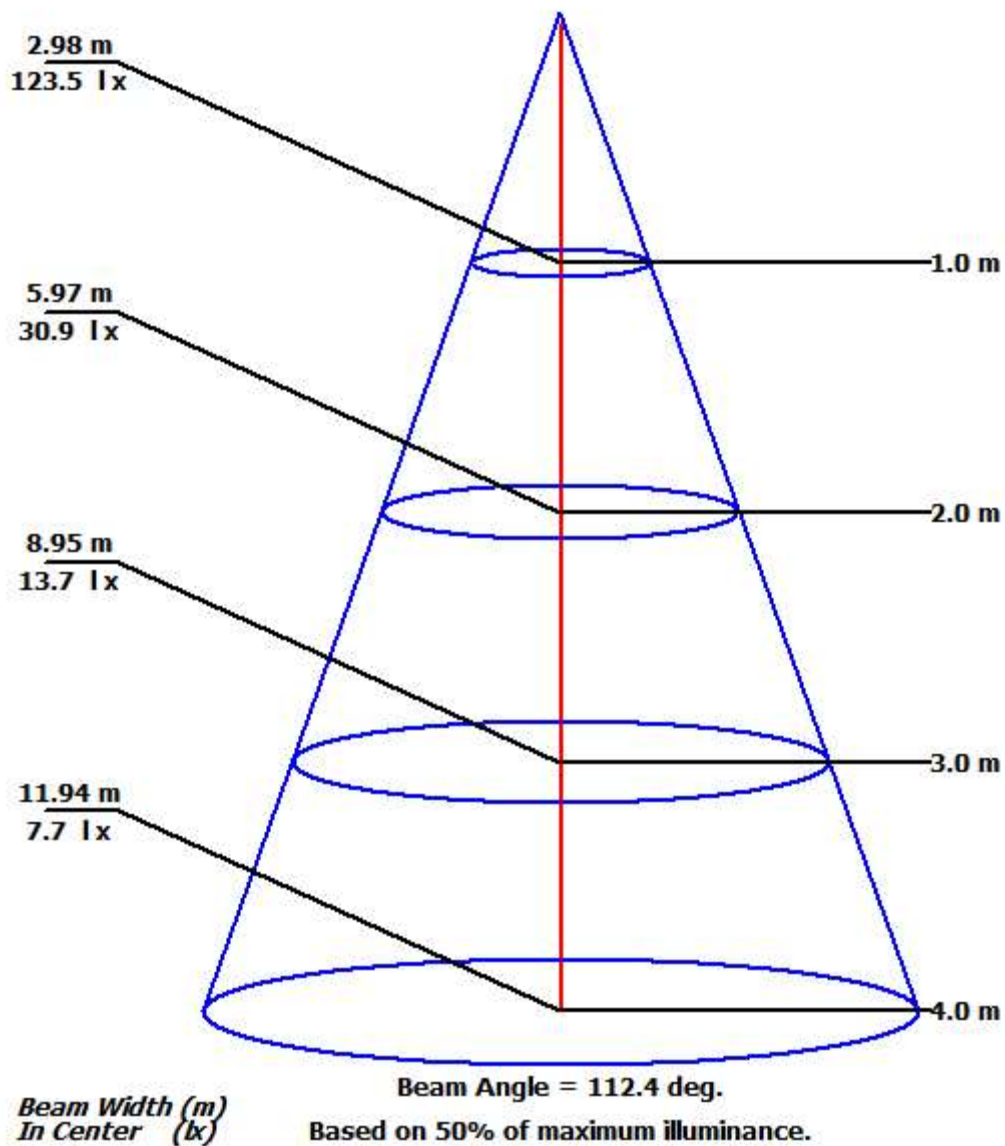
Operator YKI

Total flux (lm) 341

Power Factor 1

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Illuminance Cone Diagram



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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