

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 : 220121

2. Purpose of Report :**3. Number of Report :** 220121**4. Test Standard / Item :** / FTS5 27K-24V-C90-1M**5. Test Period :** 220121 ~ 220121**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
220121			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4544 , 0.3947	
Correlated Color Temperature	K	2643	
Ra		91.16	
Power Factor		1.000	
Input Voltage	V	23.906	
Input Current	A	0.189	
Input Watt	W	4.5183	
Lamp Flux	lm	406	
Efficient	lm/W	89.86	
luminous Intensity (Max , Center)	cd	147 , 146	
Illuminance	lx	146	1 m
		36	2 m
		16	3 m

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

220121

No. of lamps 1

Voltage (V) 23.906

Filename FTS5 27K-24V-C90-1M.jdt

Lamp flux (lm) 406

Current (A) 0.189

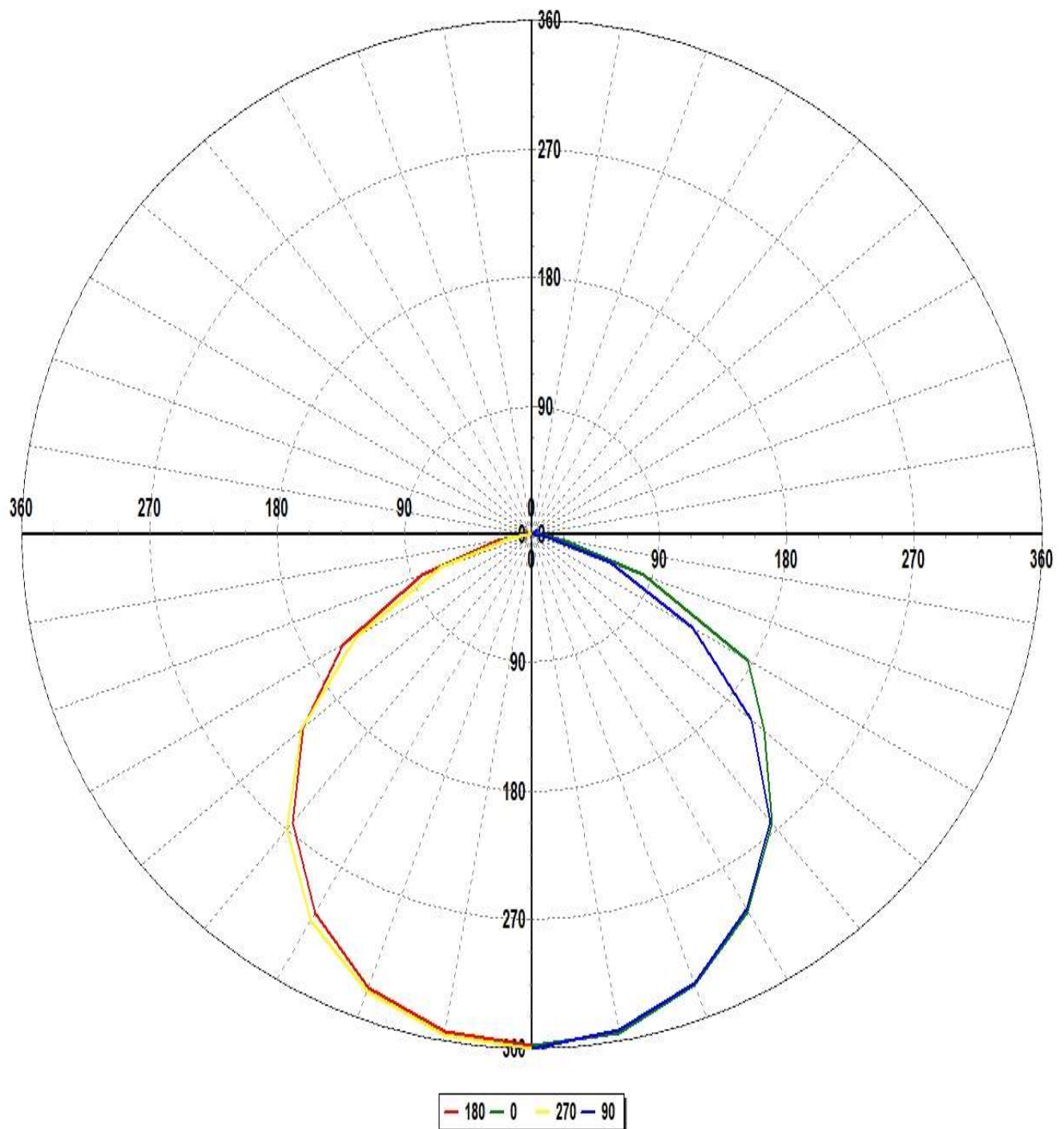
Operator YKI

Total flux (lm) 406

Power Factor 1

Date 2022-01-21 오전 9:05:24

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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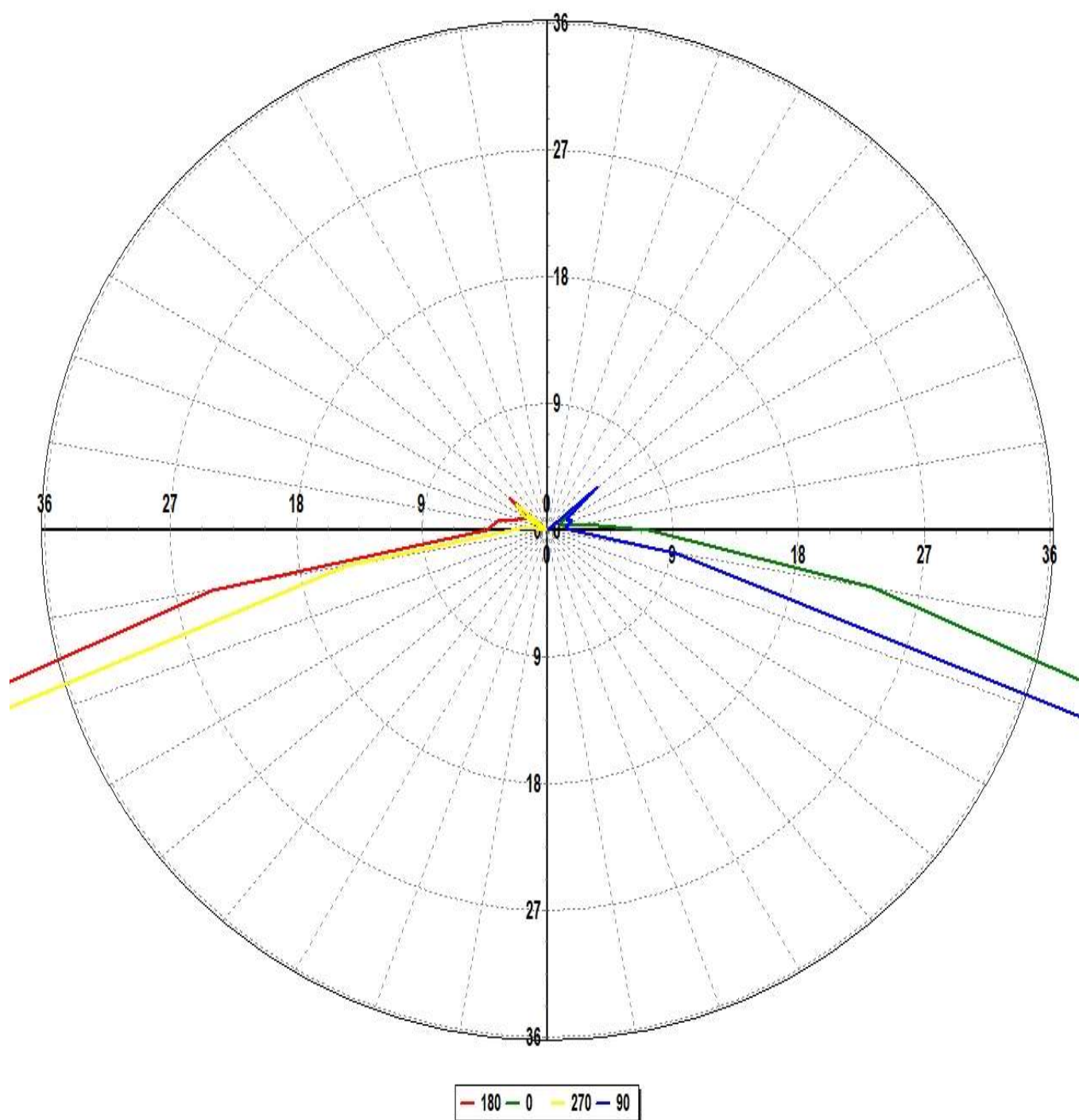
Operator YKI

Total flux (lm) 406

Power Factor 1

Date 2022-01-21 오전 9:05:24

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Power Factor 1

Date 2022-01-21 오전 9:05:24

Luminous Intensity Data

Maximum (cd) : 147

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	145.56	146.36	146.47	146.27	146.69	146.39	145.56	146.36	146.47	146.27	146.69
10	144.01	143.86	143.66	143.32	143.11	144.31	143.64	144.36	143.65	144.27	145.33
20	136.53	134.86	136.51	135.98	136.86	135.35	137.22	136.43	137.01	138.16	136.85
30	123.66	123.52	124.02	123.09	122.84	122.82	124.51	124.88	125.92	126.79	125.86
40	106.88	105.97	106.56	106.33	105.62	105.36	106.79	108.16	109.39	109.54	108.99
50	86.88	86.01	84.96	81.99	84.57	83.07	85.63	86.79	86.46	86.24	88.3
60	71.48	66.1	59.91	53.4	58.44	58.25	62.75	62.13	61.85	58.27	63.56
70	34.13	34.31	33.93	23.78	30.81	30.2	33.58	34.03	34.24	27.82	36.72
80	9.61	9.89	11.74	3.8	8.5	8.76	9.91	11.12	11.15	5.93	13.08
90	2.96	3.16	2.24	0.7	1.36	1.71	1.75	1.81	1.82	1.03	2.91
100	1.03	0.27	0.13	0.53	1.21	1.84	1.47	2.04	0.59	0.57	0.82
110	0.39	0.38	1.03	0.77	0.29	0.76	0.91	0.85	0.44	0.05	0.62
120	0.45	0.85	0.97	0.64	0.47	1.05	0.64	1.36	0.8	0.77	0.89
130	1.54	1.03	1.46	1.91	1.16	1.05	1.47	1.44	1.17	1.2	0.88

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Total flux (lm) 406

Power Factor 1

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Luminous Intensity Data (Continued)

Maximum (cd) : 147

Minimum (cd) : 0

G/C	330	360
0	146.39	145.56
10	144.88	144.01
20	137.74	136.53
30	125.36	123.66
40	108.21	106.88
50	88.7	86.88
60	67.96	71.48
70	40.39	34.13
80	12.63	9.61
90	3.56	2.96
100	0.47	1.03
110	0.65	0.39
120	0.94	0.45
130	0.51	1.54

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Luminous Flux Table

Total Lamp Lumens: 405.98

Luminaire Efficiency (lm/W): 89.85

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	3.50	3.50	0.86	0.86
10	27.39	30.89	7.61	7.61
20	51.18	82.07	20.21	20.21
30	68.14	150.21	37.00	37.00
40	75.55	225.76	55.61	55.61
50	71.99	297.75	73.34	73.34
60	58.81	356.56	87.82	87.83
70	33.79	390.35	96.15	96.15
80	10.44	400.79	98.72	98.72
90	2.28	403.07	99.28	99.28
100	0.99	404.06	99.52	99.53
110	0.61	404.67	99.67	99.68
120	0.78	405.45	99.86	99.87
130	0.54	405.98	100.00	100.00

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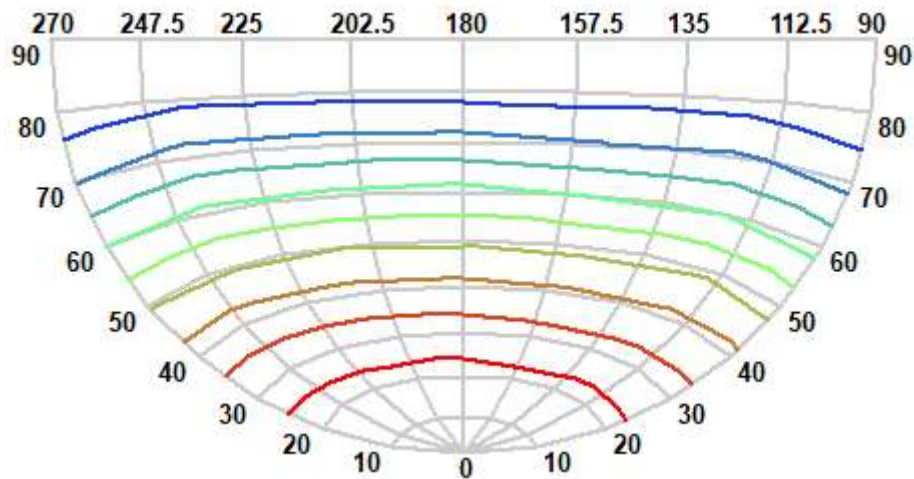
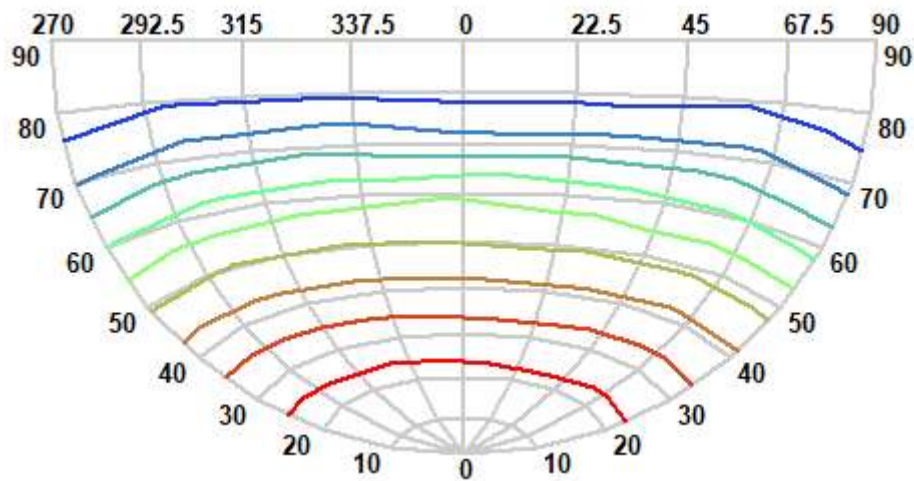
Operator YKI

Total flux (lm) 406

Power Factor 1

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IsoCandela (Type C)



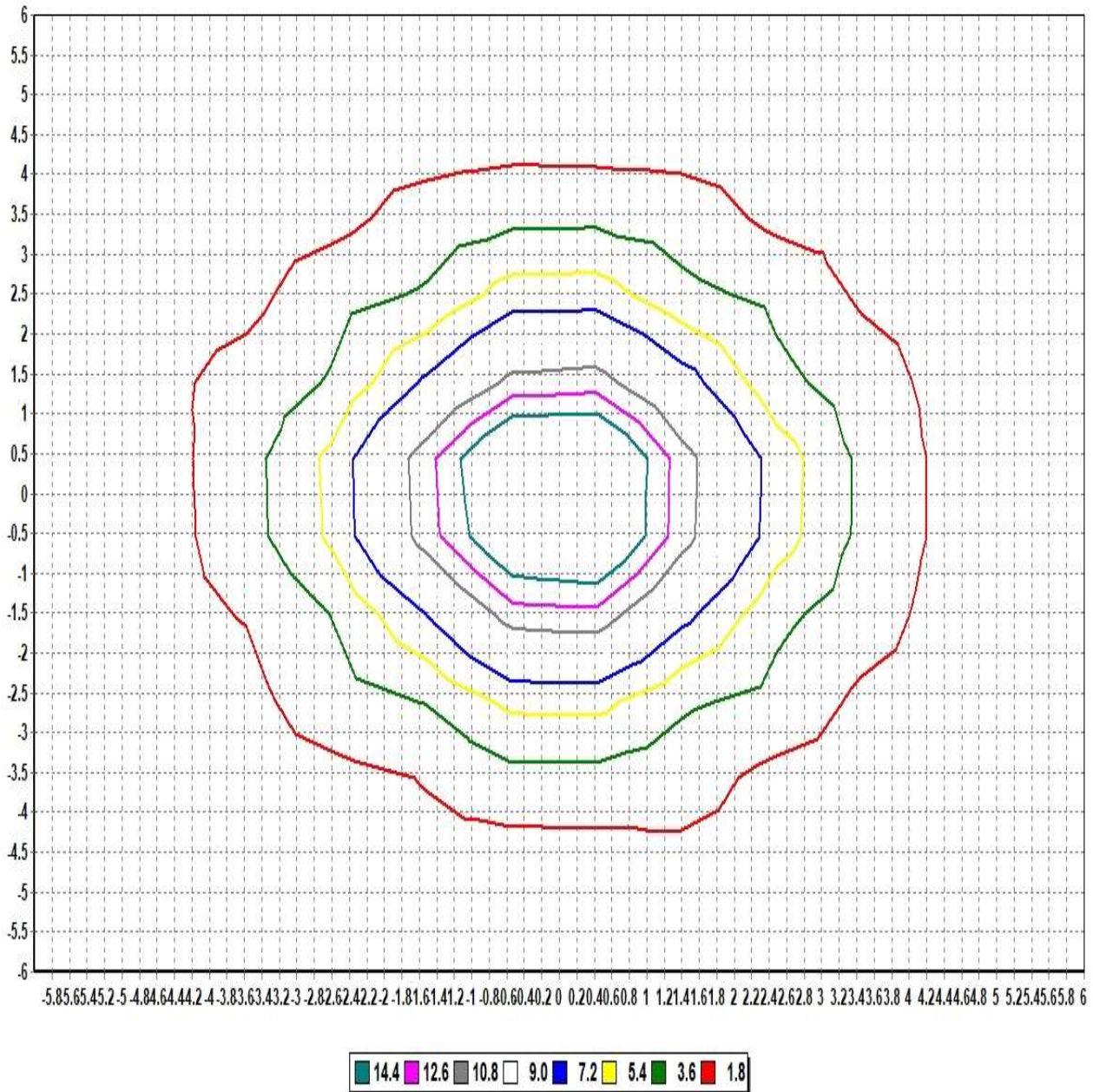
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Lamp

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Lamp flux (lm)	406	Current (A)	0.189
Total flux (lm)	406	Power Factor	1

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Operator	YKI
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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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Report

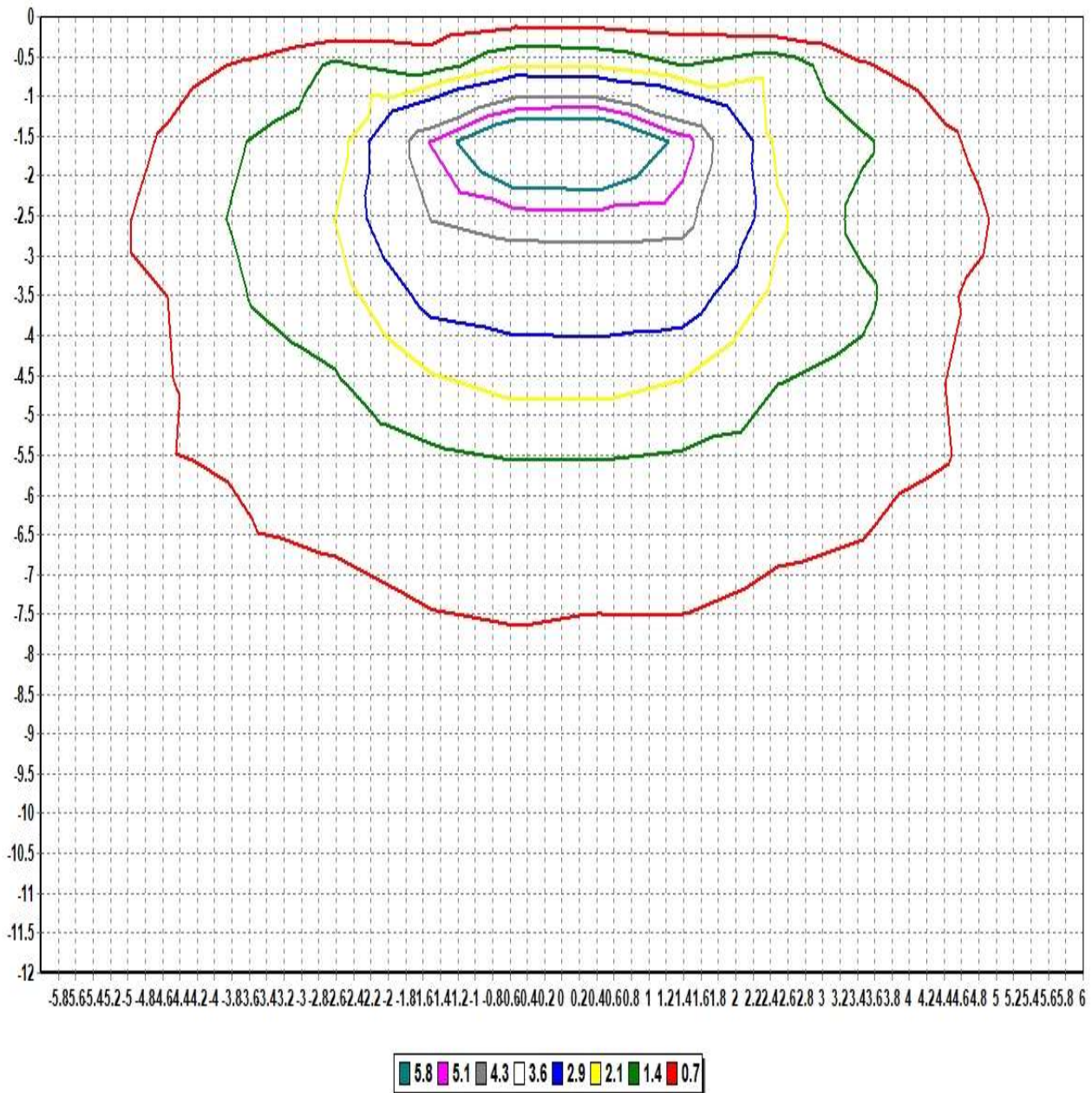
220121

Filename FTS5 27K-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

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Total flux (lm)	406	Power Factor	1

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Illuminance Levels (Ground)

6.00	0.19	0.25	0.15	0.25	0.31	0.38	0.34	0.35	0.36	0.29	0.21	0.28	0.23
5.00	0.27	0.19	0.27	0.39	0.92	1.10	1.14	1.09	0.97	0.47	0.34	0.23	0.32
4.00	0.19	0.31	0.78	1.15	1.15	1.48	1.56	1.47	1.28	1.20	0.86	0.36	0.21
3.00	0.26	0.45	1.17	1.33	2.91	3.18	3.57	3.25	2.95	1.55	1.24	0.53	0.29
2.00	0.33	0.93	1.16	2.91	4.14	6.66	7.98	6.69	4.23	2.97	1.30	0.99	0.37
1.00	0.40	1.12	1.54	3.19	6.66	12.03	16.18	12.06	6.69	3.28	1.70	1.18	0.46
0.00	0.44	1.21	1.73	3.69	8.04	16.23	19.97	16.26	8.02	3.73	1.87	1.24	0.47
-1.00	0.39	1.11	1.53	3.28	6.81	12.16	16.30	12.30	6.86	3.36	1.70	1.18	0.45
-2.00	0.35	0.97	1.23	2.96	4.25	6.83	8.22	6.87	4.31	3.02	1.26	0.99	0.39
-3.00	0.28	0.49	1.21	1.45	3.01	3.30	3.73	3.33	3.02	1.43	1.25	0.55	0.30
-4.00	0.21	0.34	0.83	1.21	1.23	1.54	1.67	1.55	1.25	1.21	0.83	0.38	0.24
-5.00	0.29	0.23	0.34	0.48	0.97	1.13	1.20	1.14	0.98	0.44	0.31	0.22	0.31
-6.00	0.21	0.28	0.21	0.28	0.36	0.38	0.39	0.40	0.35	0.29	0.18	0.27	0.21
-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.) : 19.967

Illum. (Min.) : 0.1549

Illum. (Avg.) : 2.3240

All illuminance level values are in lux.



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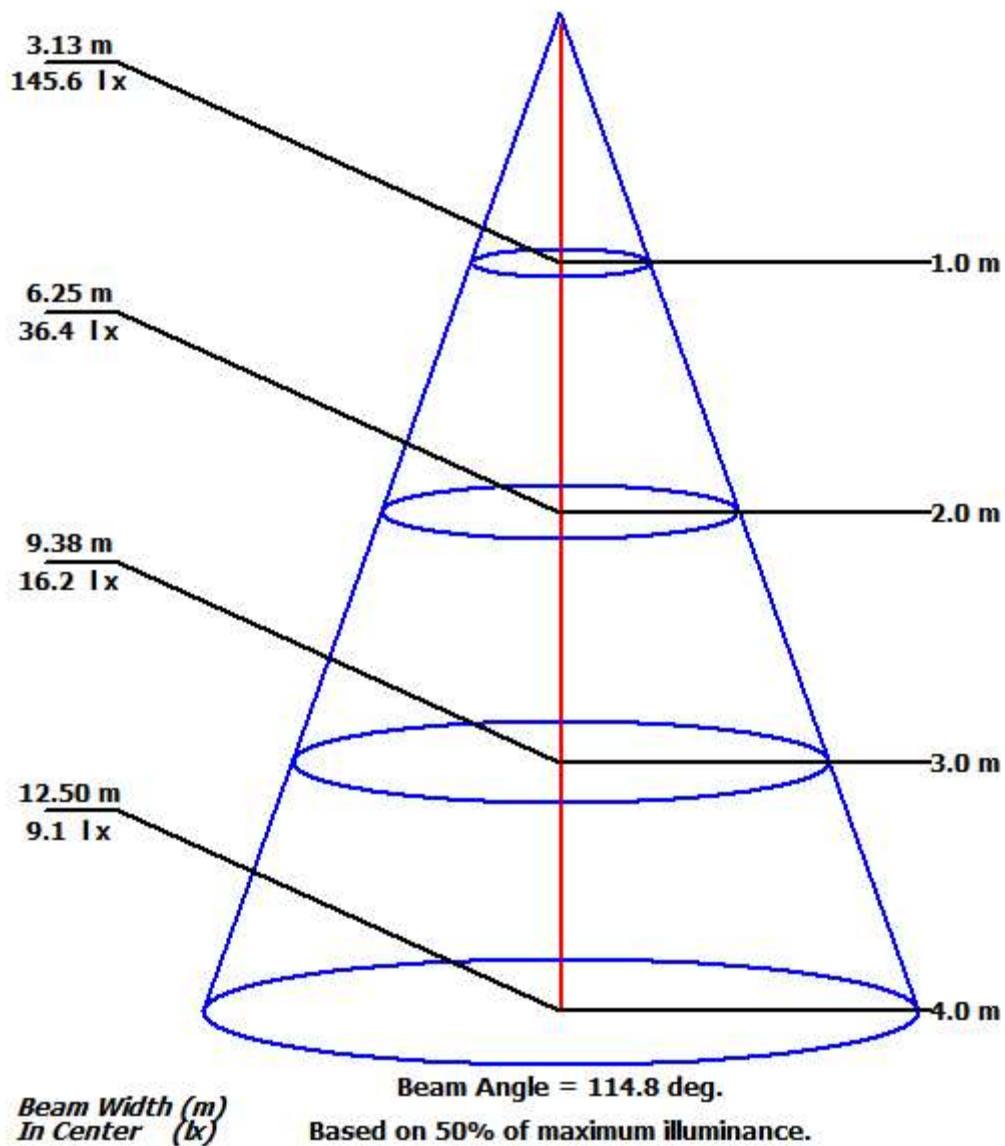
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Total flux (lm) 406

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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