

# TEST REPORT

**1. Applicant**

\* Client Name : KH FEELUX Co. Ltd.  
\* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-Si Gyeonggi-do South Korea  
\* Date of Receipt : 240508

**2. Purpose of Report :****3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 240508 FNL3D SC(22K-40K)45-1M FULL**5. Test Period :** 240508 ~ 240508**6. Test Environment**

\* Ambient Temp. : 25.0 +- 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	
	장상윤	Sign	장상윤	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
KH FEELUX			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4436 , 0.3997	
Correlated Color Temperature	K	2853	
Ra		94.45	
Power Factor		1.000	
Input Voltage	V	23.901	
Input Current	A	0.824	
Input Watt	W	19.7	
Lamp Flux	lm	1422.7	
Efficient	lm/W	72.22	
luminous Intensity (Max , Center)	cd	1686 , 1686	
Illuminance	lx	1686	1 m
		422	2 m
		187	3 m

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

\* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23Filename 240508 FNL3D SC(22K-40K)45-1M FULL.jdt

Lamp flux (lm) 1423

Current (A)

0.0Operator

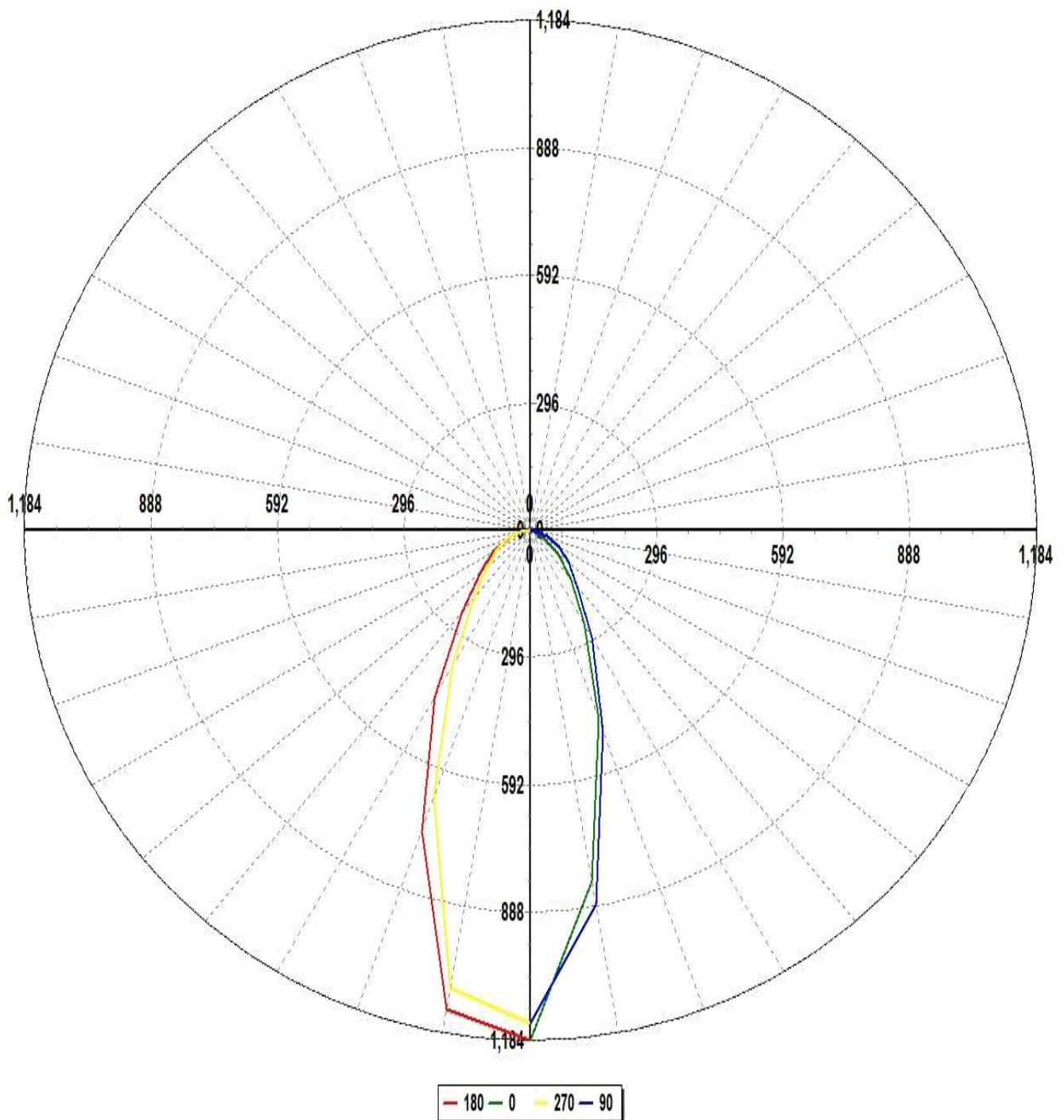
Total flux (lm) 1423

Power Factor

Date

2024-05-08 오후 5:15:47

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

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Voltage (V)

23Filename 240508 FNL3D SC(22K-40K)45-1M FULL.jdt

Lamp flux (lm) 1423

Current (A)

0.iOperator

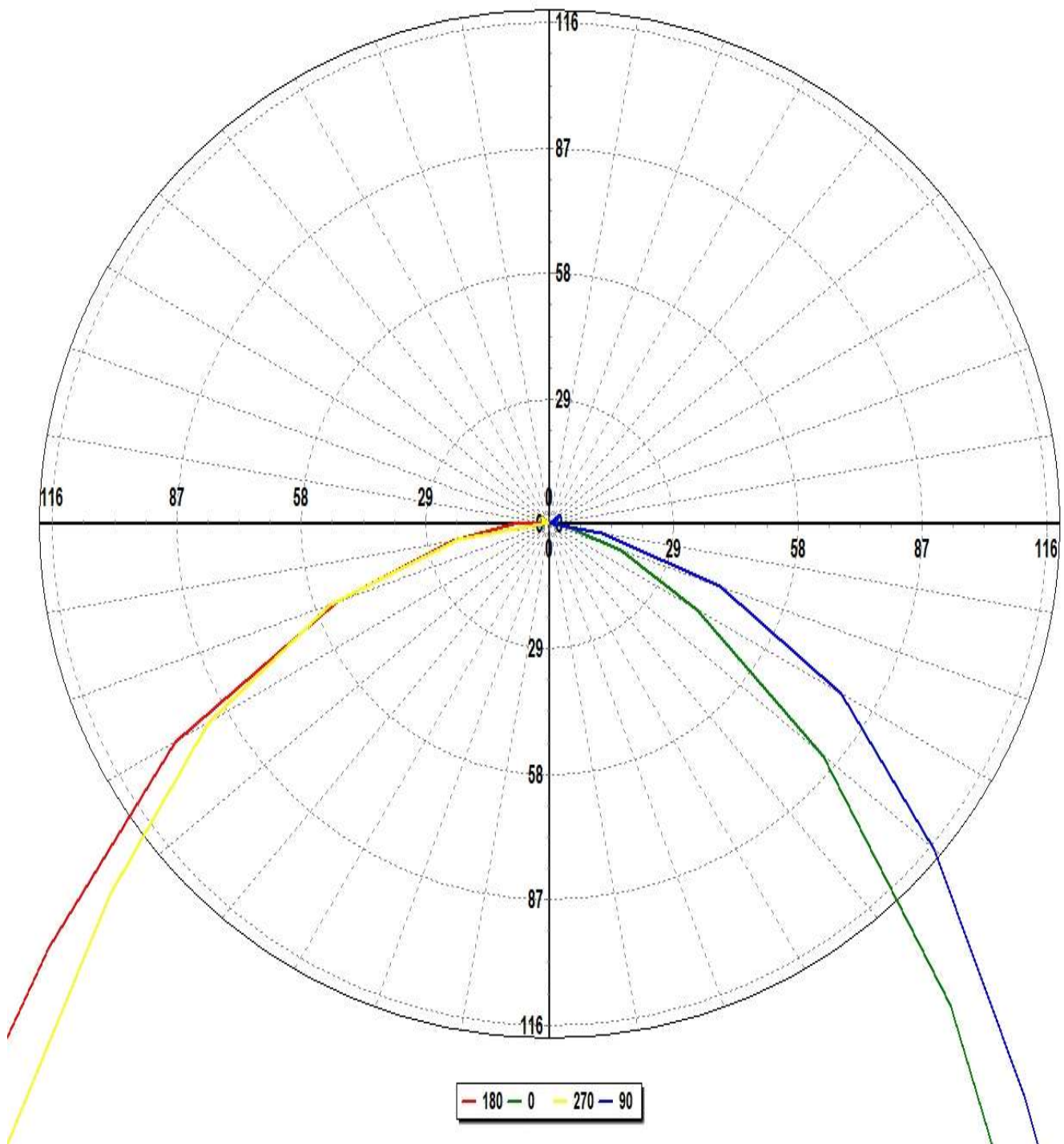
Total flux (lm) 1423

Power Factor

Date

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## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

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KH FEELUX

No. of lamps 1

Voltage (V)

23Filename 240508 FNL3D SC(22K-40K)45-1M FULL.jdt

Lamp flux (lm) 1423

Current (A)

0.1Operator

Total flux (lm) 1423

Power Factor

Date

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## Luminous Intensity Data

Maximum (cd) : 1686

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270
0	1686.44	1628.63	1656.64	1632.47	1651.95	1669.2	1686.44	1628.63	1656.64	1632.47
10	1180.22	1094.73	1187.48	1256.8	1464.25	1442.64	1609.24	1653.03	1539.19	1536.99
20	663.04	644.52	683.13	704.65	850.77	868.06	1059.99	1111.6	976.02	936.93
30	355.68	347.98	373.9	409.86	472.52	511.57	635.66	630.84	575.77	516.21
40	206.84	207.13	221.83	245.04	275.68	293.82	354.74	353.4	324.79	293.15
50	118.69	129.18	149.23	166.58	183.79	187.73	217.03	217.67	207.79	190.4
60	56.36	64.34	93.24	111.82	123.37	124.48	143.43	144.48	141.53	131.05
70	25.11	27.06	42.52	60.11	69.54	63.06	75.09	84.81	84.78	77.36
80	7.46	7.21	11.11	17.59	25.14	25.87	32.67	35.03	36.41	30.88
90	1.46	1.43	0.89	1.23	3.67	6.38	12.01	10.78	6.9	2.61
100	1.6	1.89	1.55	1.57	1.98	1.77	2.1	2.12	1.33	0.8
110	2.66	1.6	1.88	1.8	1.61	1.74	1.24	1.54	0.93	1.61
120	3.25	3.56	2.81	2.44	2.94	2.69	1.47	1.16	2.45	2.53
130	4.02	4.86	4.8	4.96	3.53	4.26	2.18	3.23	3.23	3.32

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Lamp flux (lm) 1423

Current (A)

Operator

Total flux (lm) 1423

Power Factor

Date

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## Luminous Intensity Data (Continued)

Maximum (cd) : 1686

Minimum (cd) : 1

G/C	300	330	360
0	1651.95	1669.2	1686.44
10	1378.13	1446.79	1180.22
20	797.66	807.54	663.04
30	458.33	433.39	355.68
40	262.52	246.24	206.84
50	169.74	155.83	118.69
60	109.85	86.6	56.36
70	58.75	38.29	25.11
80	18.79	13.49	7.46
90	1.85	1.94	1.46
100	1.45	1.32	1.6
110	1.97	1.79	2.66
120	2.15	2.1	3.25
130	4.33	3.45	4.02

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0.1Operator

Total flux (lm) 1423

Power Factor

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## Luminous Flux Table

Total Lamp Lumens: 1422.7

Luminaire Efficiency (lm/W): 72.22

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	39.55	39.55	2.78	2.78
10	266.09	305.64	21.48	21.48
20	315.40	621.05	43.65	43.65
30	261.11	882.15	62.01	62.00
40	192.73	1074.89	75.55	75.55
50	146.38	1221.27	85.84	85.84
60	105.17	1326.44	93.23	93.23
70	60.59	1387.03	97.49	97.49
80	23.52	1410.54	99.15	99.14
90	4.67	1415.21	99.47	99.47
100	1.75	1416.96	99.60	99.60
110	1.75	1418.71	99.72	99.72
120	2.33	1421.04	99.88	99.88
130	1.67	1422.72	100.00	100.00



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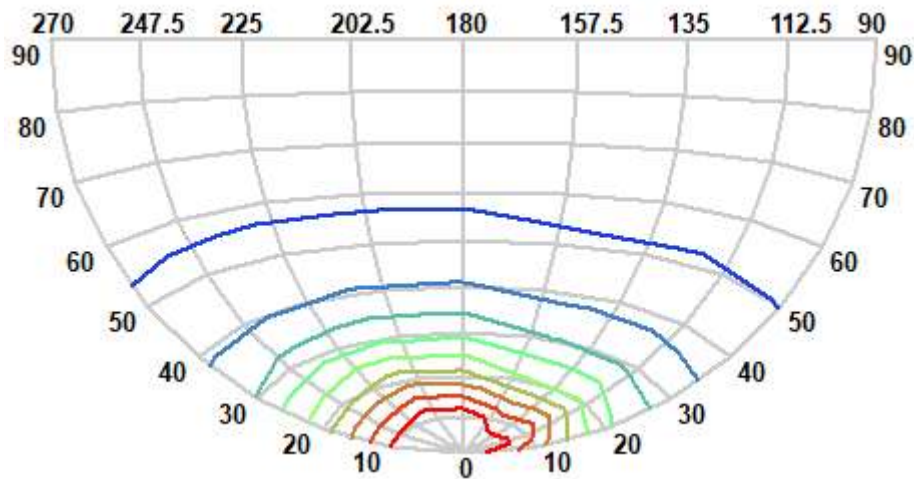
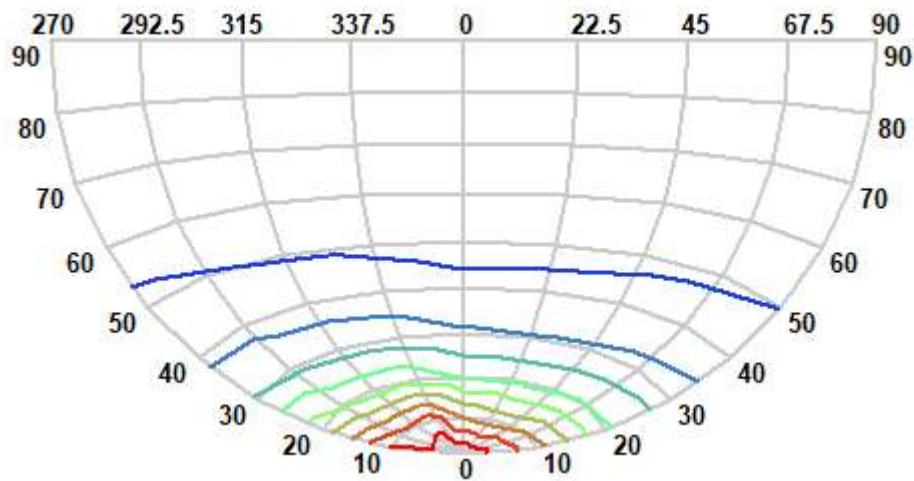
Total flux (lm) 1423

Power Factor

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## IsoCandela (Type C)





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Current (A)

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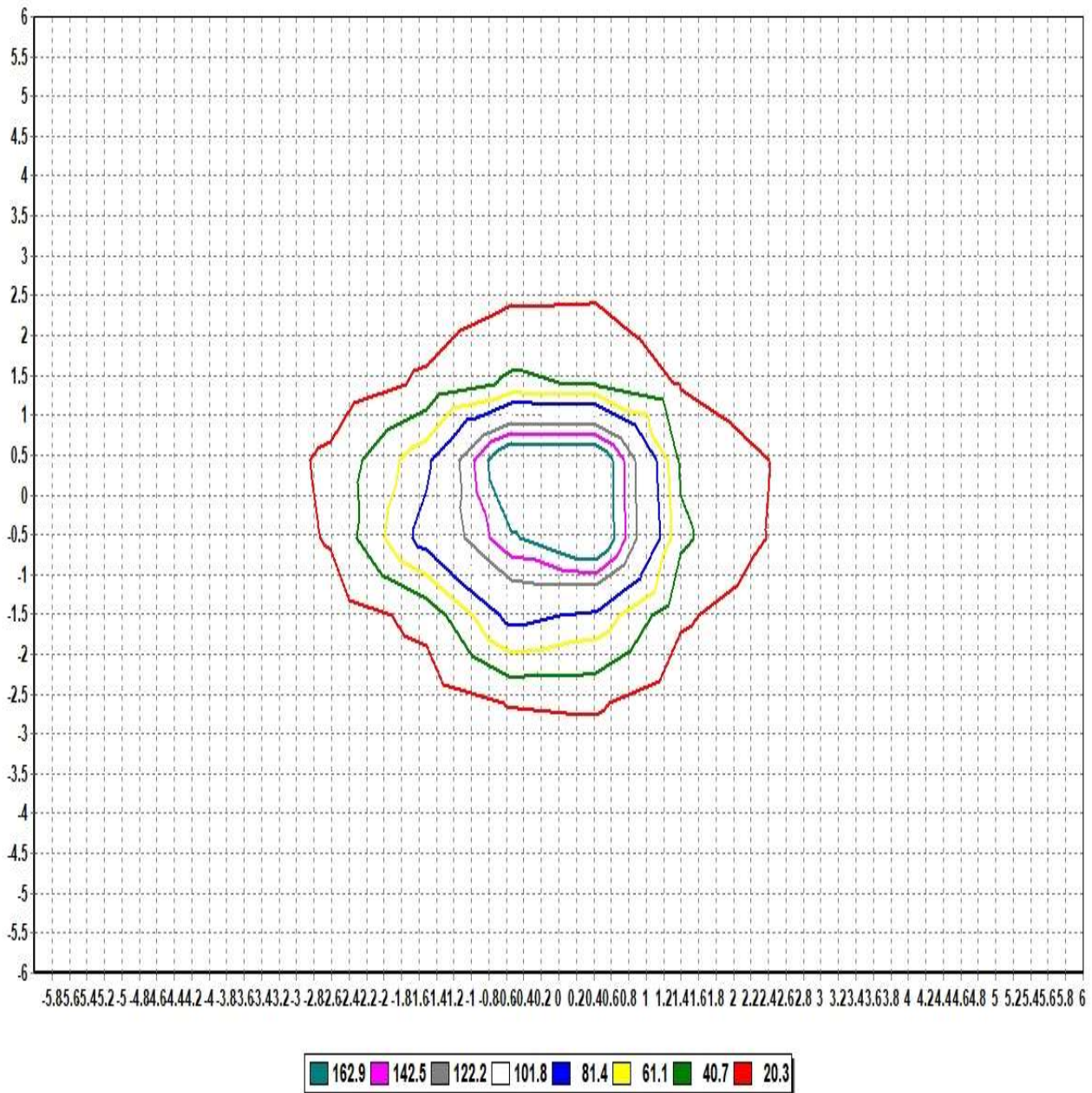
Total flux (lm) 1423

Power Factor

Date

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## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23Filename 240508 FNL3D SC(22K-40K)45-1M FULL.jdt

Lamp flux (lm) 1423

Current (A)

0.0Operator

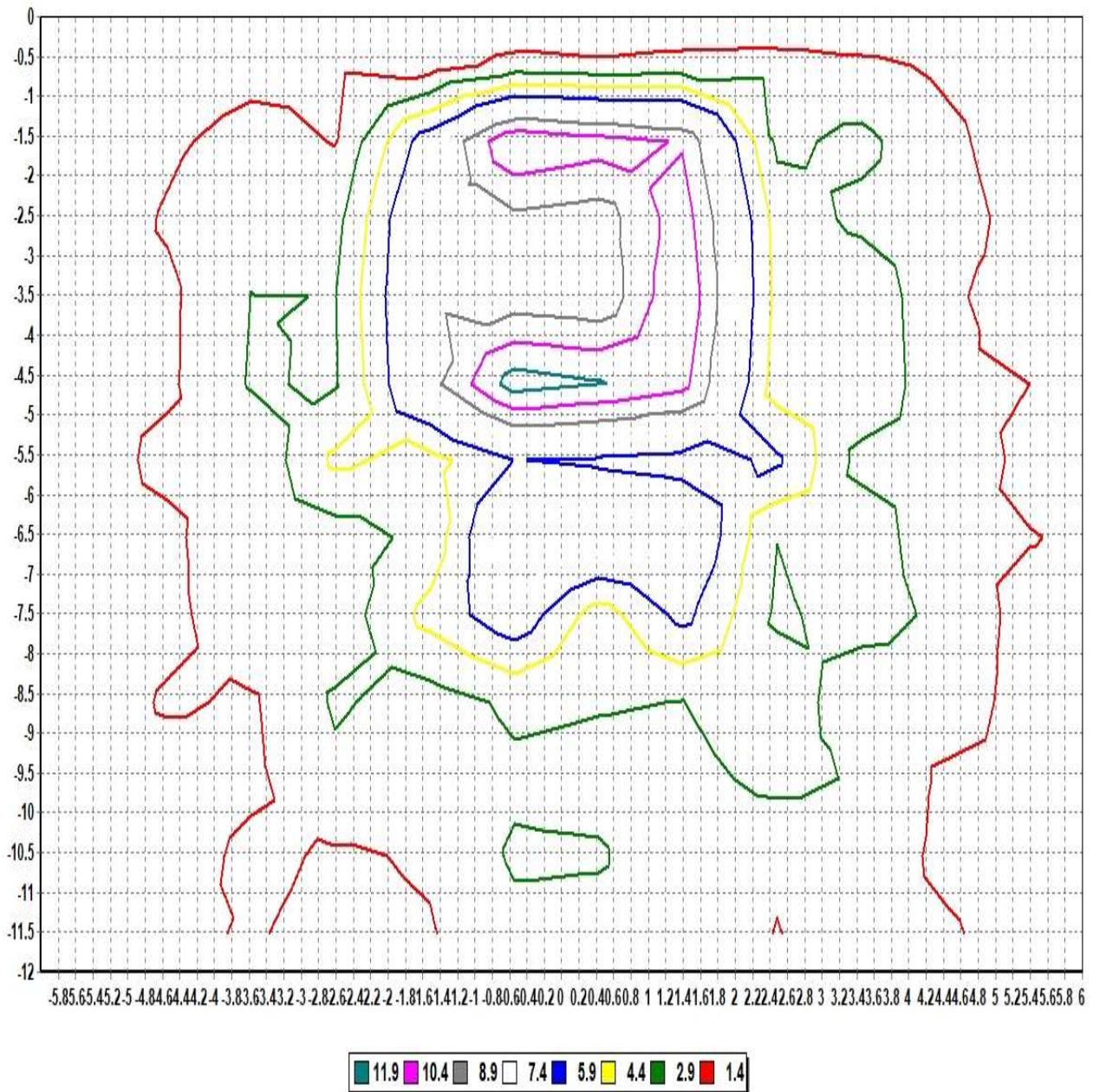
Total flux (lm) 1423

Power Factor

Date

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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)	23.901
Lamp flux (lm)	1423	Current (A)	0.8242
Total flux (lm)	1423	Power Factor	1

Report

KH FEELUX

Filename 240508 FNL3D SC(22K-40K)45-1M FULL.jdt

Operator

Date

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## Illuminance Levels (Ground)

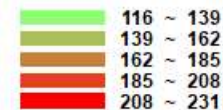
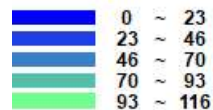
6.00	0.40	0.53	0.38	0.56	0.68	0.62	0.78	0.69	0.38	0.26	0.26	0.38	0.20
5.00	0.57	0.43	0.63	0.87	1.97	2.03	2.32	2.09	1.40	0.68	0.41	0.18	0.27
4.00	0.40	0.66	1.64	2.37	2.44	2.70	3.21	2.73	1.42	1.99	1.05	0.28	0.16
3.00	0.57	0.95	2.60	2.80	6.60	6.81	7.48	5.28	5.81	1.61	1.63	0.41	0.24
2.00	0.70	2.03	2.47	7.64	9.32	17.50	21.51	13.41	6.97	5.30	1.34	1.29	0.31
1.00	0.89	2.69	3.53	7.14	17.87	49.63	140.15	40.33	13.31	4.85	2.11	1.80	0.47
0.00	0.99	3.02	4.16	10.04	32.19	180.03	231.34	131.61	18.40	5.59	1.96	1.60	0.36
-1.00	0.84	2.60	3.50	8.42	22.80	70.55	171.67	55.00	16.79	6.34	2.07	1.67	0.40
-2.00	0.84	2.38	2.89	9.19	12.08	22.58	26.38	17.13	9.75	6.48	2.16	1.79	0.55
-3.00	0.68	1.10	3.02	3.44	8.58	8.27	8.66	6.85	7.60	2.87	2.18	0.64	0.47
-4.00	0.47	0.78	2.02	2.93	2.88	3.52	3.72	3.54	2.25	2.59	1.68	0.47	0.26
-5.00	0.66	0.53	0.81	1.14	2.36	2.59	2.66	2.64	1.92	1.05	0.70	0.45	0.43
-6.00	0.49	0.66	0.52	0.69	0.86	0.93	0.95	0.96	0.68	0.51	0.46	0.57	0.41
-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.) : 231.34

Illum. (Min.) : 0.1599

Illum. (Avg.) : 9.8494

All illuminance level values are in lux.





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Lamp flux (lm) 1423

Current (A)

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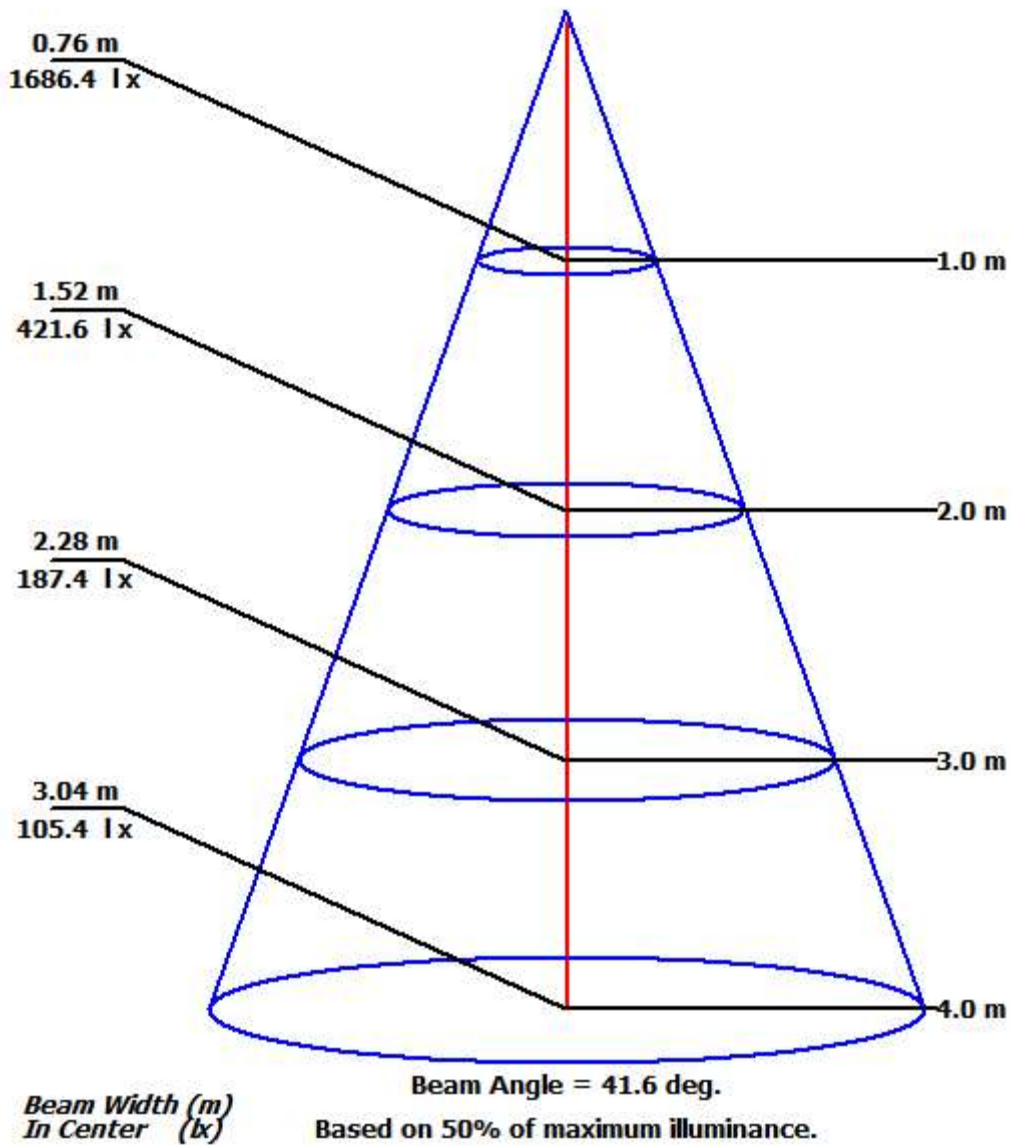
Total flux (lm) 1423

Power Factor

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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.901
Lamp flux (lm)	1423	Current (A)	0.8242
Total flux (lm)	1423	Power Factor	1

Report

KH FEELUX

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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