

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844  
\* Date of Receipt : 231011

**2. Purpose of Report :****3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 231006 FN3D-24K-24V-C90**5. Test Period :** 231011 ~ 231011**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	
	JSY	Sign	JSY	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		0.4900 , 0.4116	
Correlated Color Temperature	K	2328	
Ra		93.71	
Power Factor		1.000	
Input Voltage	V	23.923	
Input Current	A	0.605	
Input Watt	W	14.473	
Lamp Flux	lm	861.5	
Efficient	lm/W	59.53	
luminous Intensity (Max , Center)	cd	307 , 307	
Illuminance	lx	307	1 m
		77	2 m
		34	3 m

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

\* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.923

Lamp flux (lm) 862

Current (A) 0.60496

Total flux (lm) 862

Power Factor 1

Report

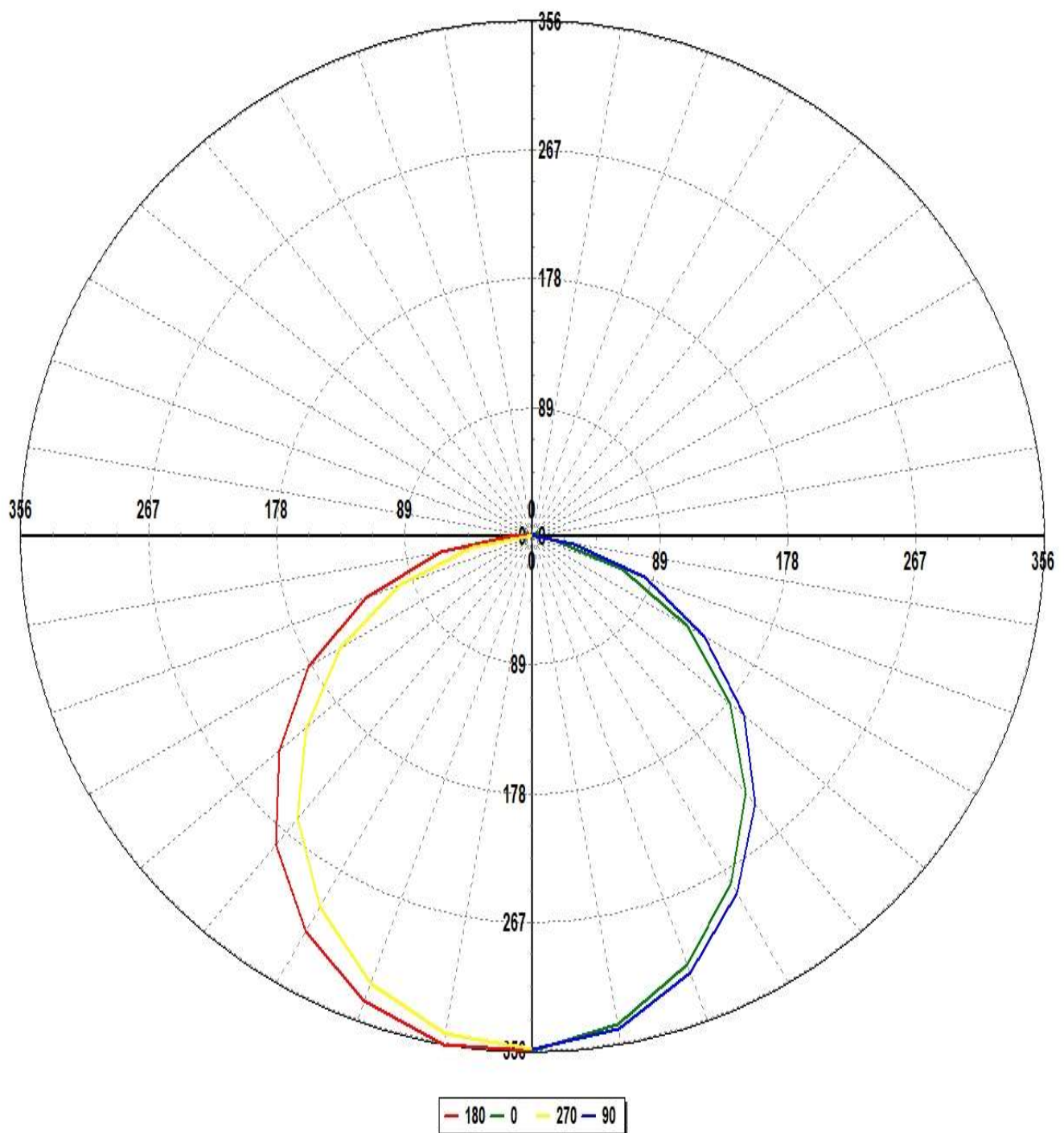
KH FEELUX

Filename 231006 FN3D-24K-24V-C90.jdt

Operator

Date 2023-10-06 오후 5:35:31

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

No. of lamps 1

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Lamp flux (lm) 862

Current (A) 0.60496

Total flux (lm) 862

Power Factor 1

Report

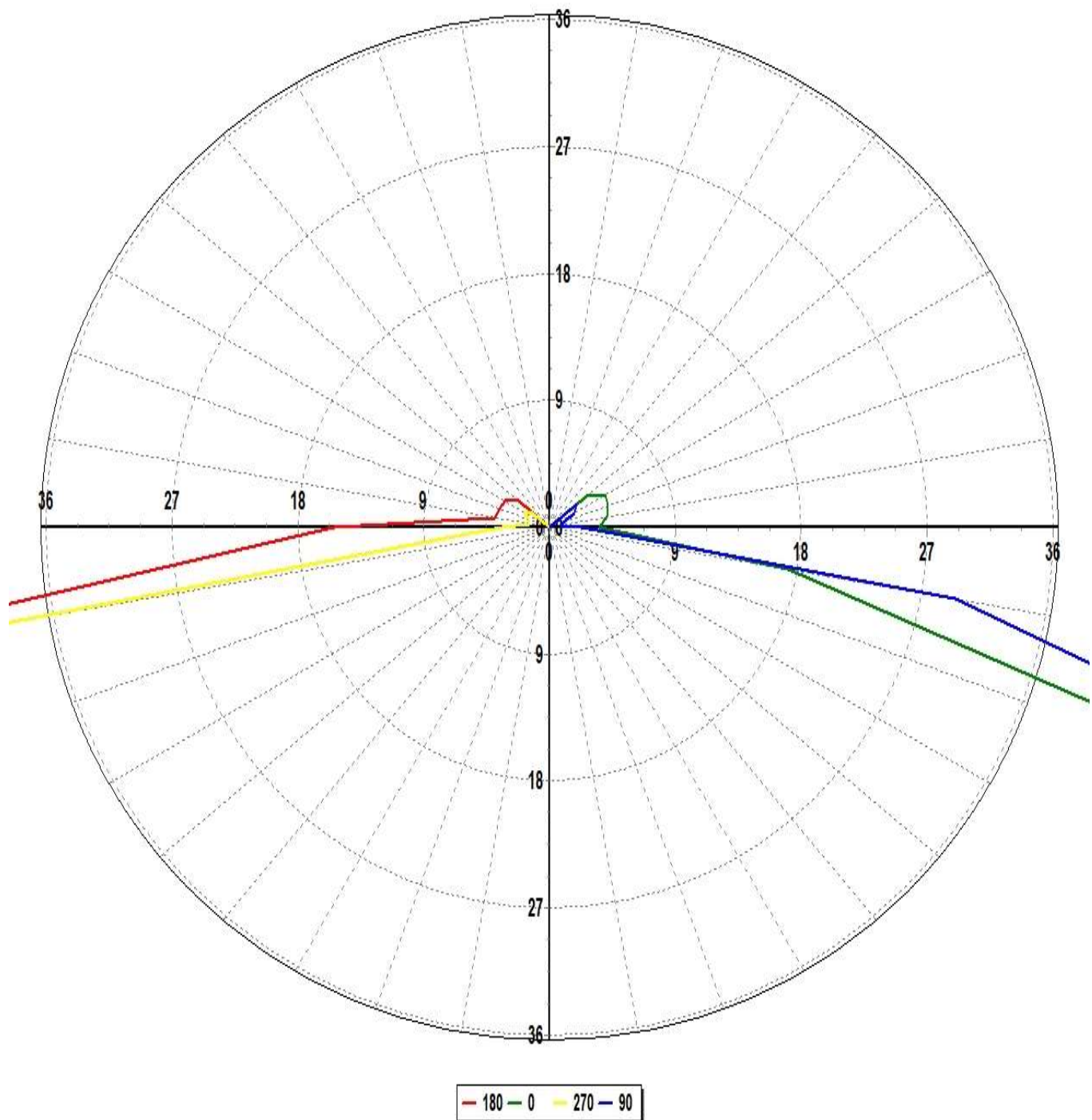
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## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

No. of lamps 1

Lamp flux (lm) 862

Total flux (lm) 862

Voltage (V) 23.923

Current (A) 0.60496

Power Factor 1

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KH FEELUX

## Luminous Intensity Data

Maximum (cd) : 307

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	306.78	305.97	305.25	305.58	305.37	305.58	306.78	305.97	305.25	305.58	305.37
10	294.96	293.42	295.5	297.56	300.37	302.61	307.25	306.65	302.35	300.44	298.47
20	271.18	270.17	273.38	276.93	282.66	286.04	294.71	293.35	288.55	283.45	278.3
30	238.65	237.99	241.34	245.4	254.44	260.36	271.63	269.69	262.67	254.67	248.59
40	199.38	198.47	202.96	208.34	217.93	226.09	239.27	237.28	227.85	219.37	211.67
50	155.01	155.15	159.87	165.5	177.15	185.03	198.42	197.08	187.84	177.49	169.18
60	106.9	107.09	113.16	119.25	129.93	138.89	154.88	152.67	142.12	132.59	123.35
70	57.44	57.87	64.02	71.6	83	90.69	105.95	103.94	93.72	84.18	74.98
80	14.91	15.17	18.65	25.39	35.24	42.37	55.54	54.39	45.46	36.16	27.94
90	3.06	3.1	2.6	1.97	4.46	5.91	13.25	12.89	7.35	2.89	3.11
100	3.62	3.21	3.05	0.68	2.52	3.5	3.45	2.4	2.47	1.29	2.92
110	3.8	3.21	2.64	1.04	2.75	3.61	3.26	3.48	3.15	1.34	2.3
120	3.95	3.08	2.27	1.74	2.01	2.75	3.19	2.54	2.87	1.85	1.71
130	2.95	2.62	2.28	2.19	1.94	2.5	2.59	3.07	1.82	1.39	2.21

Luminaire KH FEELUX

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Total flux (lm) 862

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Current (A) 0.60496

Power Factor 1

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## Luminous Intensity Data (Continued)

Maximum (cd) : 307

Minimum (cd) : 1

G/C	330	360
0	305.58	306.78
10	296.94	294.96
20	276.67	271.18
30	246.44	238.65
40	209.05	199.38
50	166.38	155.01
60	120.03	106.9
70	70.03	57.44
80	24.48	14.91
90	3.23	3.06
100	3.83	3.62
110	3.59	3.8
120	3.35	3.95
130	2.21	2.95

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.923
Lamp flux (lm)	862	Current (A)	0.60496
Total flux (lm)	862	Power Factor	1

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## Luminous Flux Table

Total Lamp Lumens: 861.51

Luminaire Efficiency (lm/W): 59.53

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	7.31	7.31	0.85	0.85
10	57.00	64.31	7.46	7.46
20	105.37	169.68	19.70	19.70
30	138.36	308.03	35.76	35.75
40	152.40	460.43	53.45	53.44
50	146.41	606.84	70.44	70.44
60	121.79	728.63	84.58	84.58
70	82.11	810.75	94.11	94.11
80	35.57	846.32	98.24	98.24
90	5.82	852.14	98.91	98.91
100	2.96	855.10	99.26	99.26
110	2.93	858.03	99.60	99.60
120	2.48	860.51	99.88	99.88
130	1.01	861.51	100.00	100.00



Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 862

Current (A) 0.60496

Total flux (lm) 862

Power Factor 1

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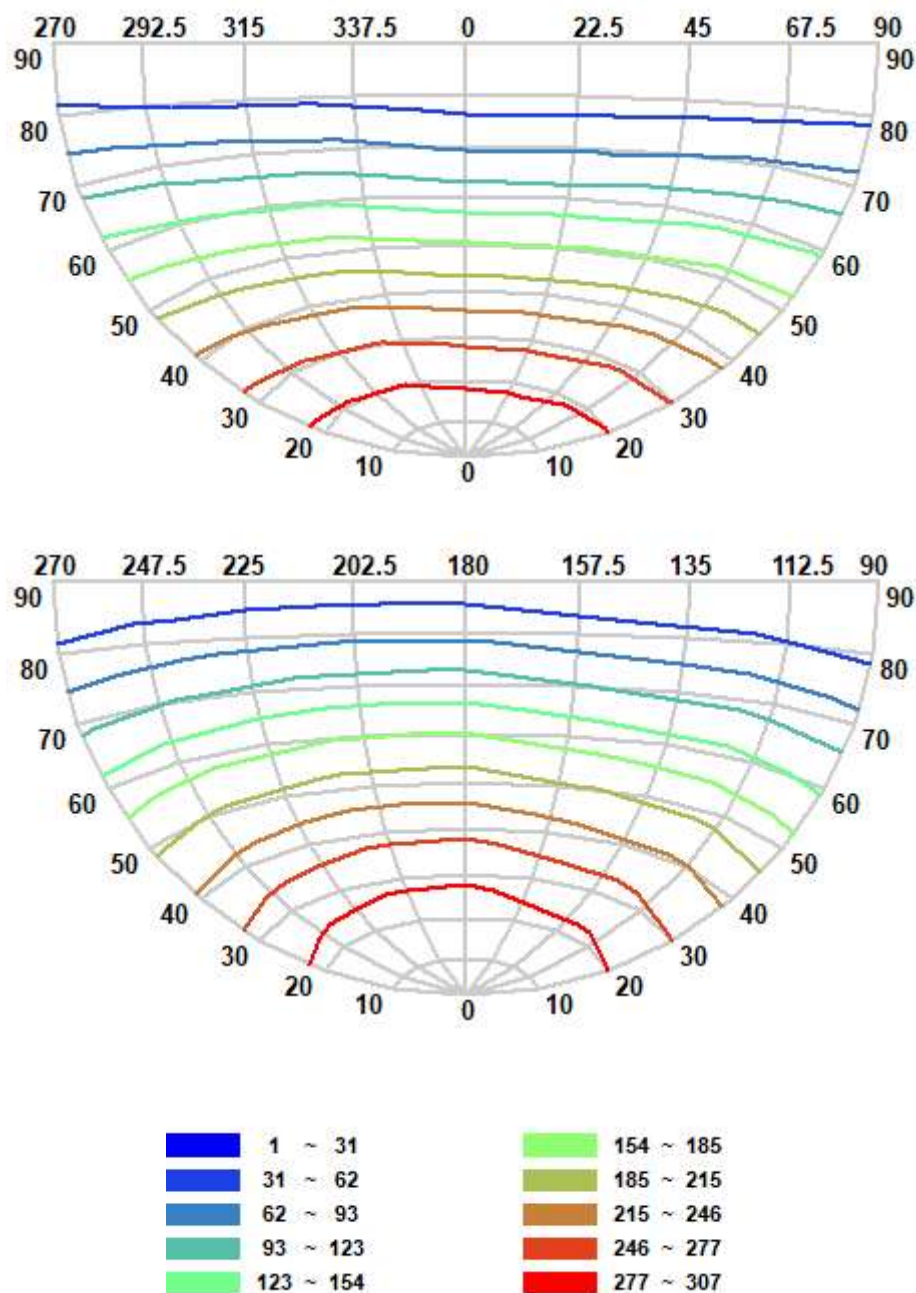
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## IsoCandela (Type C)





Luminaire KH FEELUX

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Lamp flux (lm) 862

Current (A) 0.60496

Total flux (lm) 862

Power Factor 1

Report

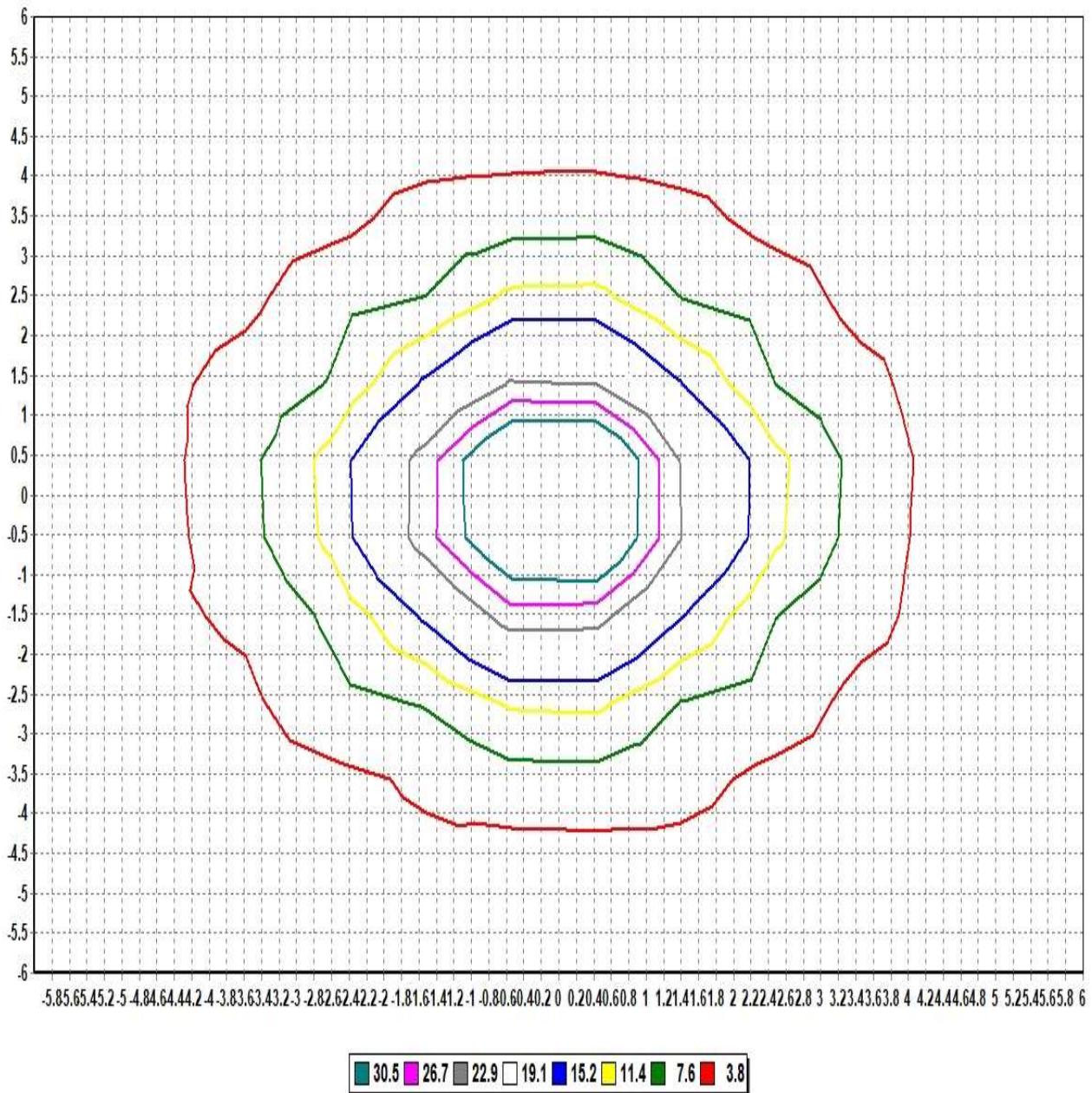
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## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.923

Lamp flux (lm) 862

Current (A) 0.60496

Total flux (lm) 862

Power Factor 1

Report

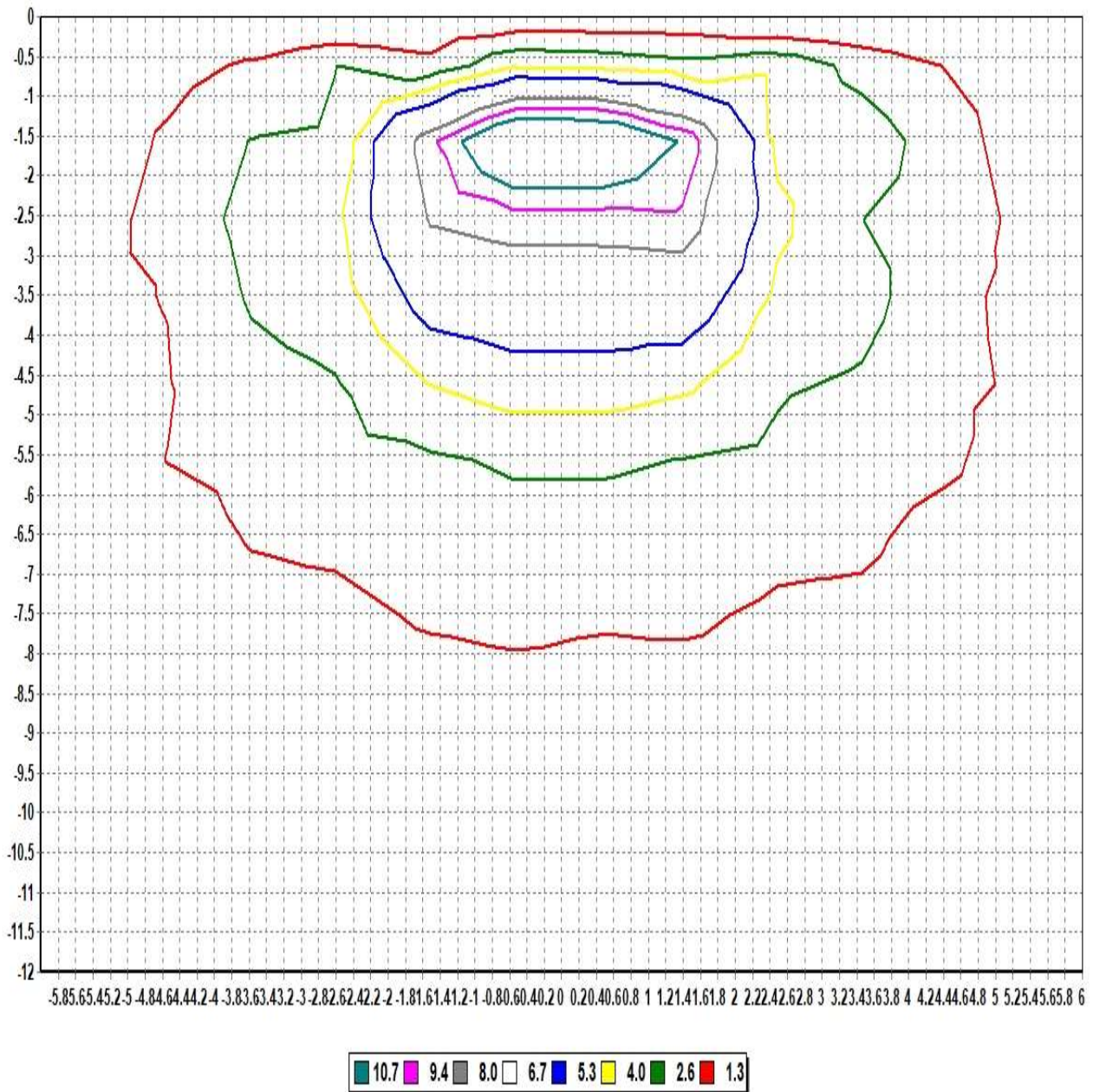
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## IsoLux Diagram (Wall)



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)	23.923
Lamp flux (lm)	862	Current (A)	0.60496
Total flux (lm)	862	Power Factor	1

Report

KH FEELUX

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## Illuminance Levels (Ground)

6.00	0.43	0.57	0.45	0.65	0.77	0.78	0.87	0.81	0.63	0.49	0.39	0.51	0.36
5.00	0.63	0.51	0.71	0.97	1.95	2.14	2.32	2.16	1.73	0.89	0.61	0.39	0.49
4.00	0.55	0.82	1.65	2.36	2.54	2.95	3.31	2.96	2.14	2.22	1.46	0.58	0.36
3.00	0.66	1.16	2.58	2.89	5.79	6.56	7.15	5.97	5.58	2.52	2.17	0.83	0.48
2.00	0.84	2.02	2.58	6.27	8.43	13.67	15.74	12.56	7.73	5.47	2.13	1.72	0.61
1.00	1.10	2.59	3.65	6.84	13.80	24.50	33.58	23.45	12.54	5.91	2.91	2.14	0.78
0.00	1.20	2.82	4.14	8.48	17.83	34.71	42.08	33.28	15.16	6.73	3.03	2.17	0.74
-1.00	1.05	2.54	3.63	7.50	14.96	26.33	33.92	24.65	13.33	6.39	2.89	2.10	0.74
-2.00	1.00	2.25	2.99	6.68	9.60	14.88	16.49	13.40	8.53	5.79	2.43	1.89	0.73
-3.00	0.81	1.32	2.81	3.50	6.39	7.34	7.63	6.55	6.06	2.95	2.35	0.96	0.60
-4.00	0.64	0.96	1.95	2.69	2.96	3.42	3.62	3.43	2.45	2.48	1.68	0.69	0.43
-5.00	0.72	0.68	0.89	1.20	2.22	2.42	2.50	2.45	1.93	1.09	0.77	0.52	0.56
-6.00	0.54	0.67	0.58	0.80	0.96	0.97	0.99	1.01	0.78	0.61	0.51	0.60	0.45
-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.) : 42.082

Illum. (Min.) : 0.3554

Illum. (Avg.) : 4.7819

All illuminance level values are in lux.





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Lamp

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Total flux (lm) 862

Power Factor 1

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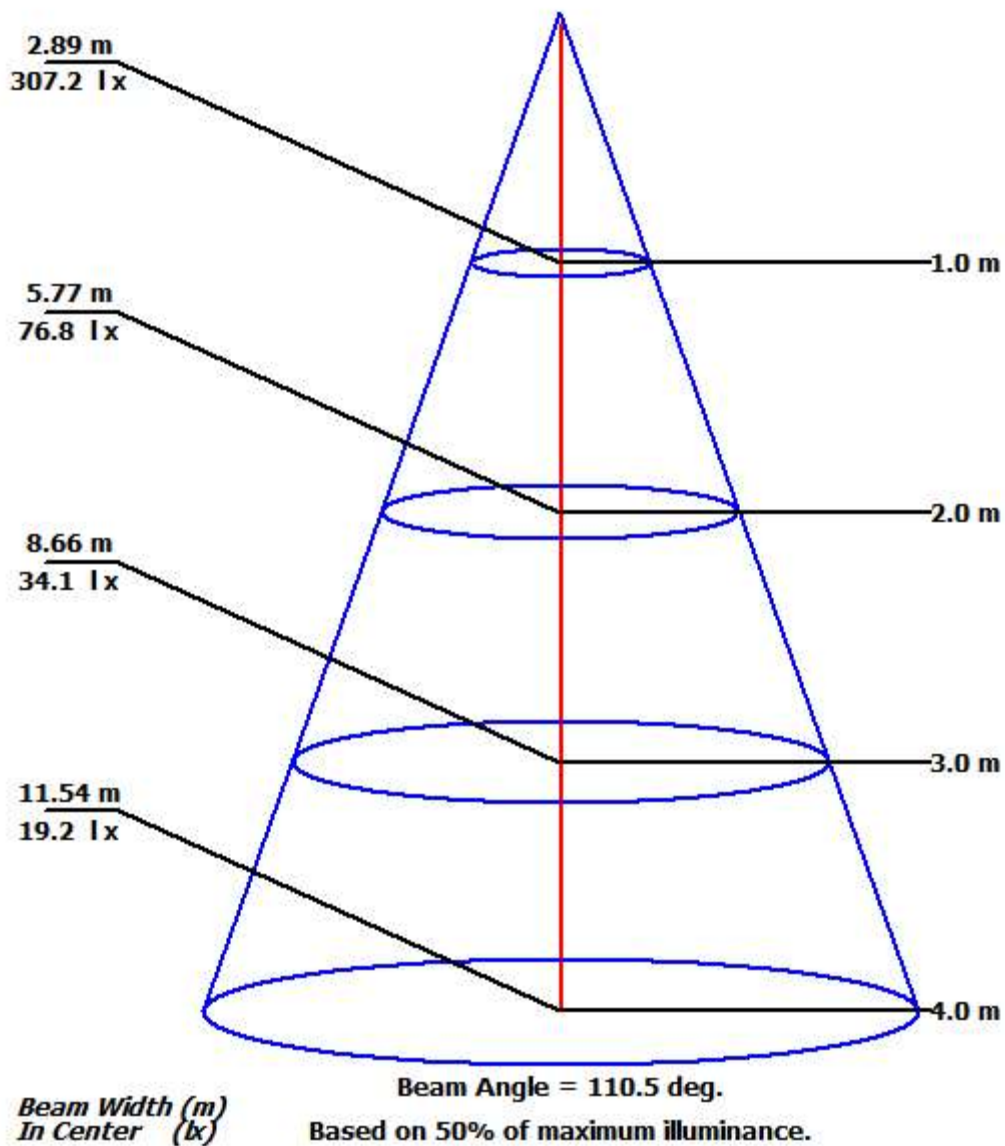
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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

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No. of lamps 1 Voltage (V) 23.923

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Lamp flux (lm) 862 Current (A) 0.60496

Operator

Total flux (lm) 862 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