

# 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 : 240826

**2. Purpose of Report :****3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 240828 MCR-SP1 27K-24V-32D-BK**5. Test Period :** 240828 ~ 240828**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		0.4558 , 0.4107	
Correlated Color Temperature	K	2757	
Ra		91.87	
Power Factor		1.000	
Input Voltage	V	23.984	
Input Current	A	0.049	
Input Watt	W	1.181	
Lamp Flux	lm	70.7	
Efficient	lm/W	59.87	
luminous Intensity (Max , Center)	cd	161 , 161	
Illuminance	lx	161	1 m
		40	2 m
		18	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)

23.984Filename 240828 MCR-SP1 27K-24V-32D-BK.jdt

Lamp flux (lm) 71

Current (A)

0.04924Operator

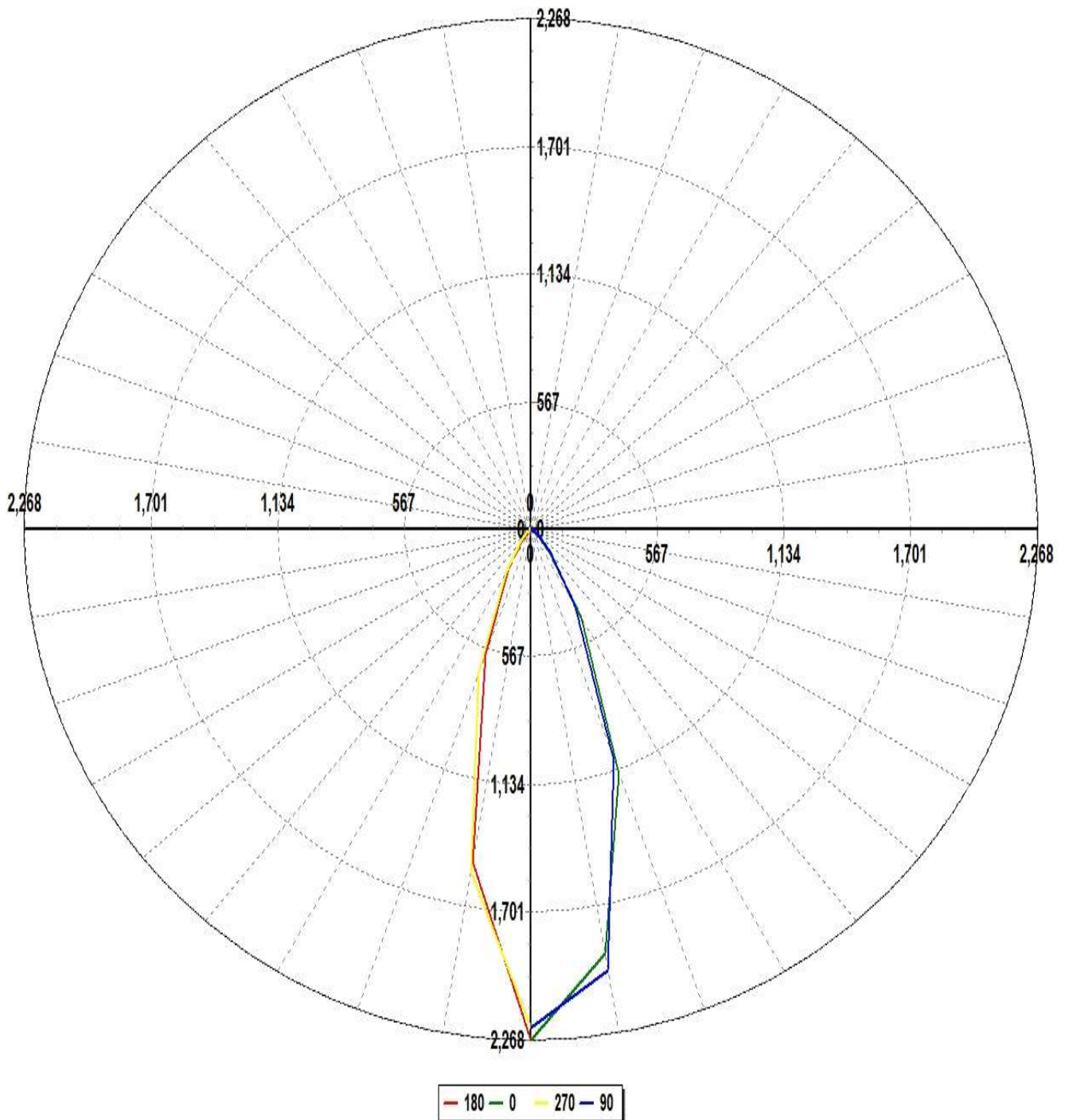
Total flux (lm) 71

Power Factor

1Date

2024-08-28 오전 9:30:58

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

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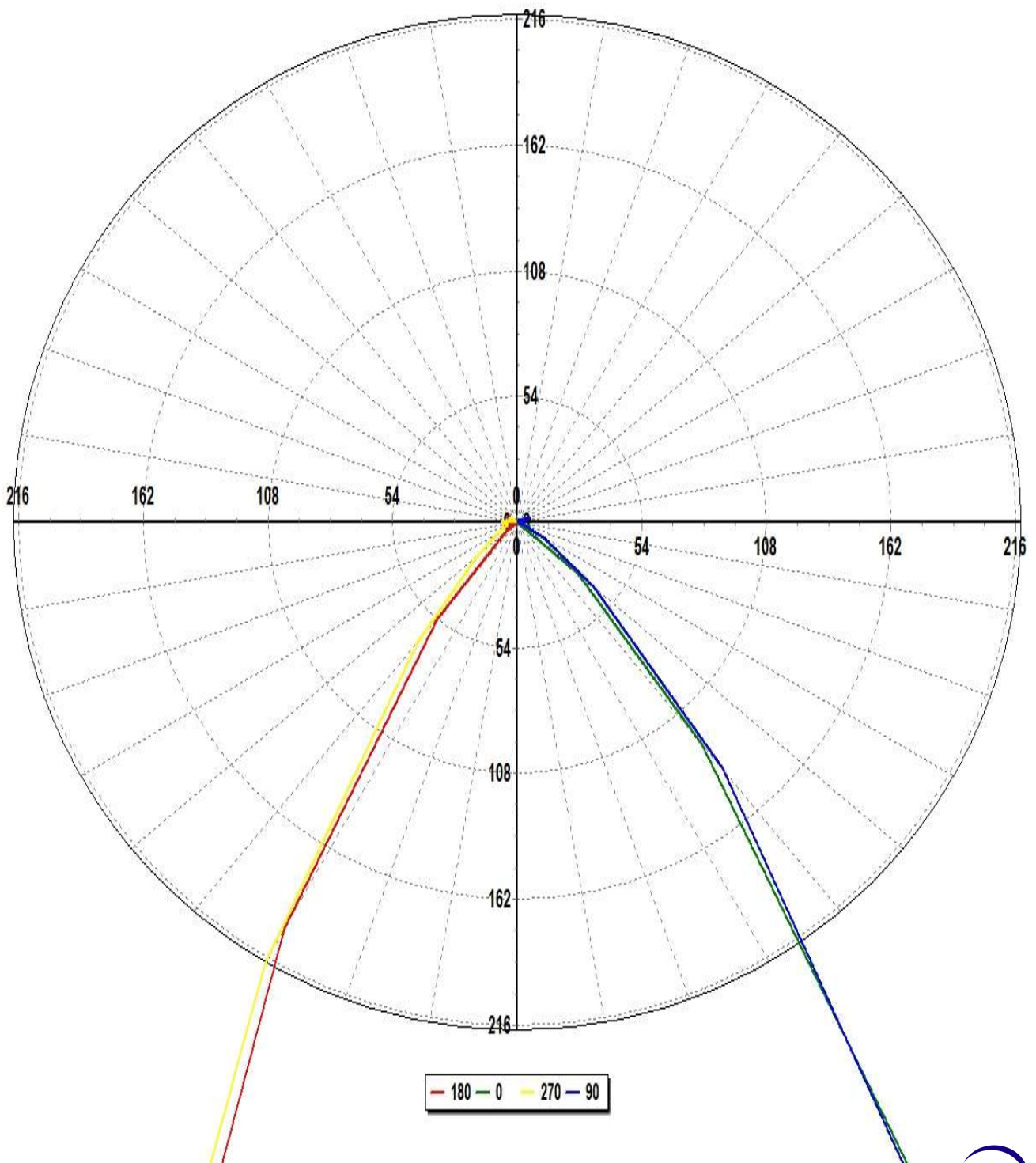
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## Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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## Luminous Intensity Data

Maximum (cd) : 161

Minimum (cd) : -1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	160.66	157.84	159.42	156.96	157.25	153.45	160.66	157.84	159.42	156.96	157.25
10	135.42	144.6	149.69	140.84	124.03	107.29	106.53	101.24	102.09	109.11	119.96
20	81.63	93.53	93.92	77.16	58.06	43.6	42.06	40.14	40.31	48.28	61
30	31.79	36.77	36.56	28.3	21.16	14.67	14.27	13.99	13.66	15.48	20.17
40	8.77	11.27	11.53	9.79	7.38	4.81	3.82	5.12	4.58	4.73	6.59
50	2.43	3.45	4.22	3.07	2.8	0.92	0.43	0.5	1.13	1.65	2.76
60	-0.1	0.58	1.09	0.94	0.38	-0.07	-0.34	-0.54	0.09	0.73	1.14
70	0.43	-0.66	0.04	0.05	-0.11	-0.36	0.26	-0.26	-0.19	0.32	0.39
80	-0.23	0.18	-0.34	-0.43	0.71	-0.22	-0.21	-0.01	-0.62	0.29	0.11
90	0.02	0.24	0.32	-0.02	0.2	0.01	0.35	0.33	-0.14	0.5	0.14
100	-0.65	0.11	-0.1	0.19	-0.37	-0.2	-0.12	-0.23	0.57	-0.37	0.12
110	-0.36	0.08	0.31	0.44	0.22	-0.08	-0.34	-0.51	0.58	0.15	0.16
120	-0.19	0.39	-0.7	0.23	-0.1	-0.67	0.35	0.47	0.55	0.28	0.5
130	0.13	-0.47	0.14	0.05	-0.14	0.36	-0.43	-0.27	1.04	0.09	-0.32

Luminaire KH FEELUX

Lamp

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## Luminous Intensity Data (Continued)

Maximum (cd) : 161

Minimum (cd) : -1

G/C	330	360
0	153.45	160.66
10	131.1	135.42
20	77.1	81.63
30	27.85	31.79
40	8.53	8.77
50	2.73	2.43
60	0.71	-0.1
70	-0.27	0.43
80	0.31	-0.23
90	0.56	0.02
100	-0.11	-0.65
110	-0.17	-0.36
120	0.34	-0.19
130	-0.3	0.13

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.984	Filename	240828 MCR-SP1 27K-24V-32D-BK.jdt
Lamp flux (lm)	71	Current (A)	0.04924	Operator	
Total flux (lm)	71	Power Factor	1	Date	2024-08-28 오전 9:30:58

## Luminous Flux Table

Total Lamp Lumens: 70.747

Luminaire Efficiency (lm/W): 59.90

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	3.77	3.77	5.33	5.33
10	23.33	27.10	38.33	38.30
20	23.62	50.72	71.74	71.69
30	12.53	63.25	89.47	89.41
40	5.10	68.35	96.68	96.62
50	1.82	70.18	99.26	99.20
60	0.37	70.54	99.78	99.71
70	-0.03	70.51	99.74	99.67
80	-0.04	70.47	99.68	99.61
90	0.23	70.70	100.00	99.93
100	-0.11	70.60	99.85	99.79
110	0.04	70.64	99.91	99.84
120	0.11	70.75	100.07	100.01
130	0.00	70.75	100.07	100.00

Luminaire KH FEELUX

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Voltage (V)

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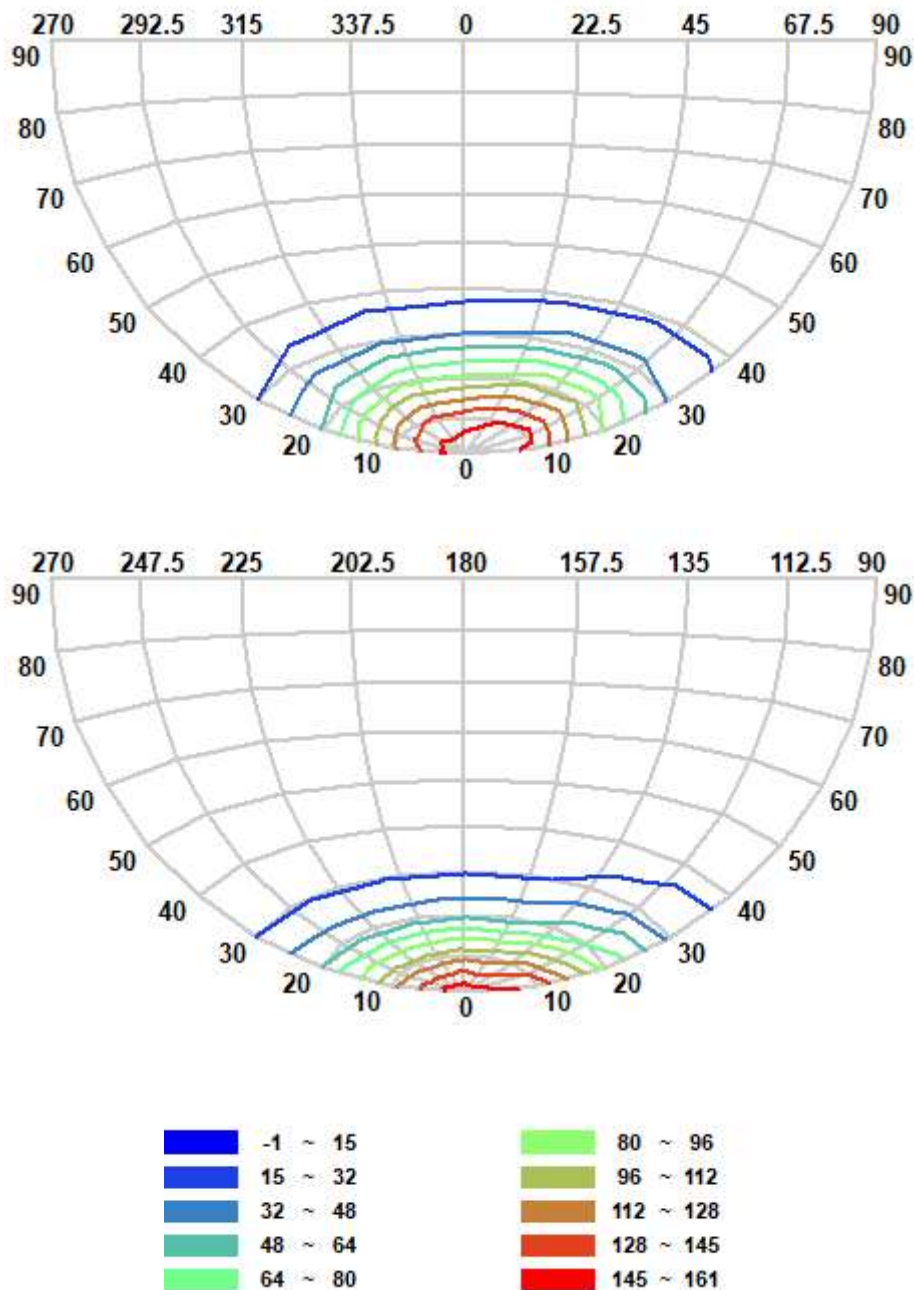
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## IsoCandela (Type C)





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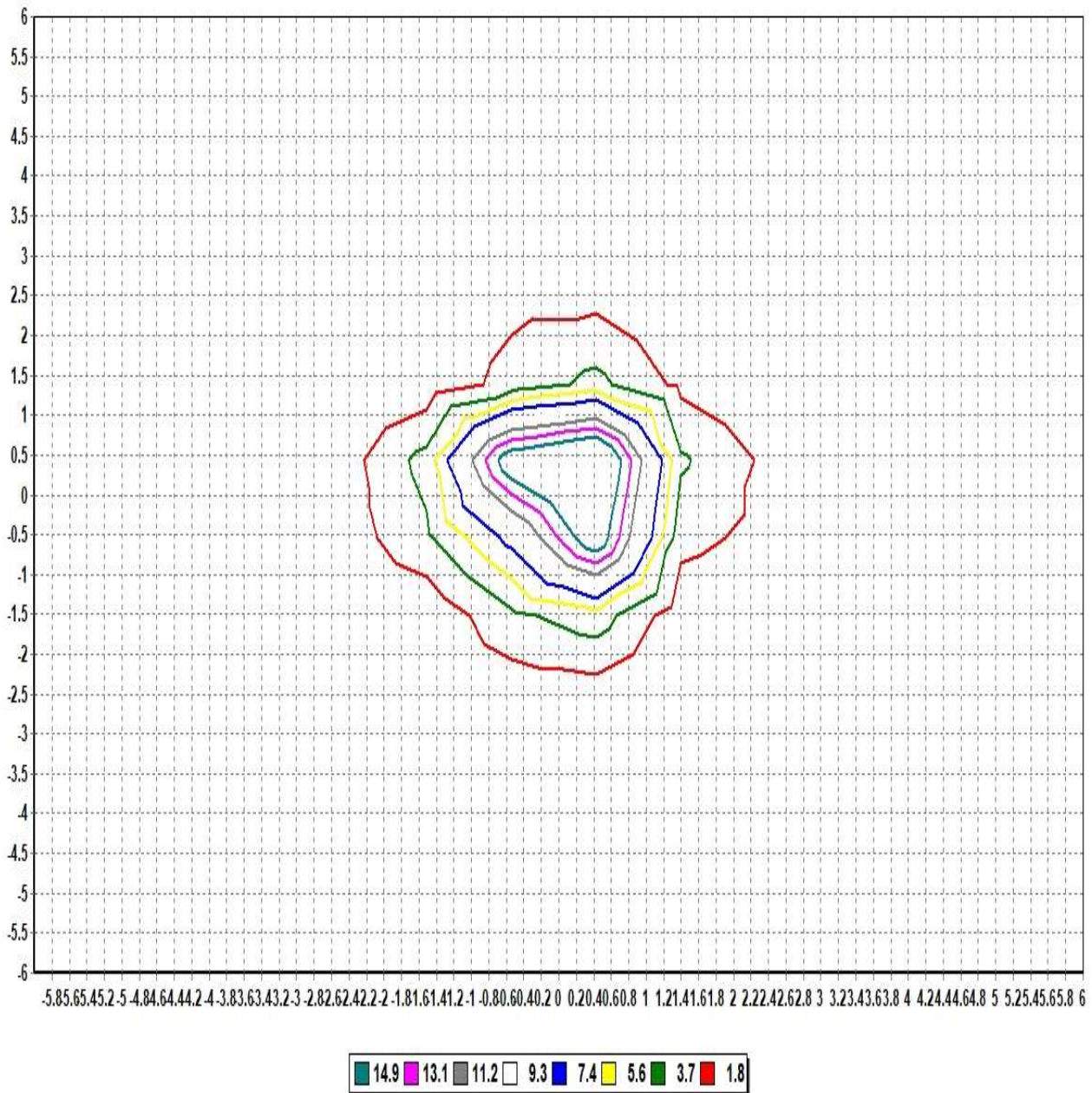
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## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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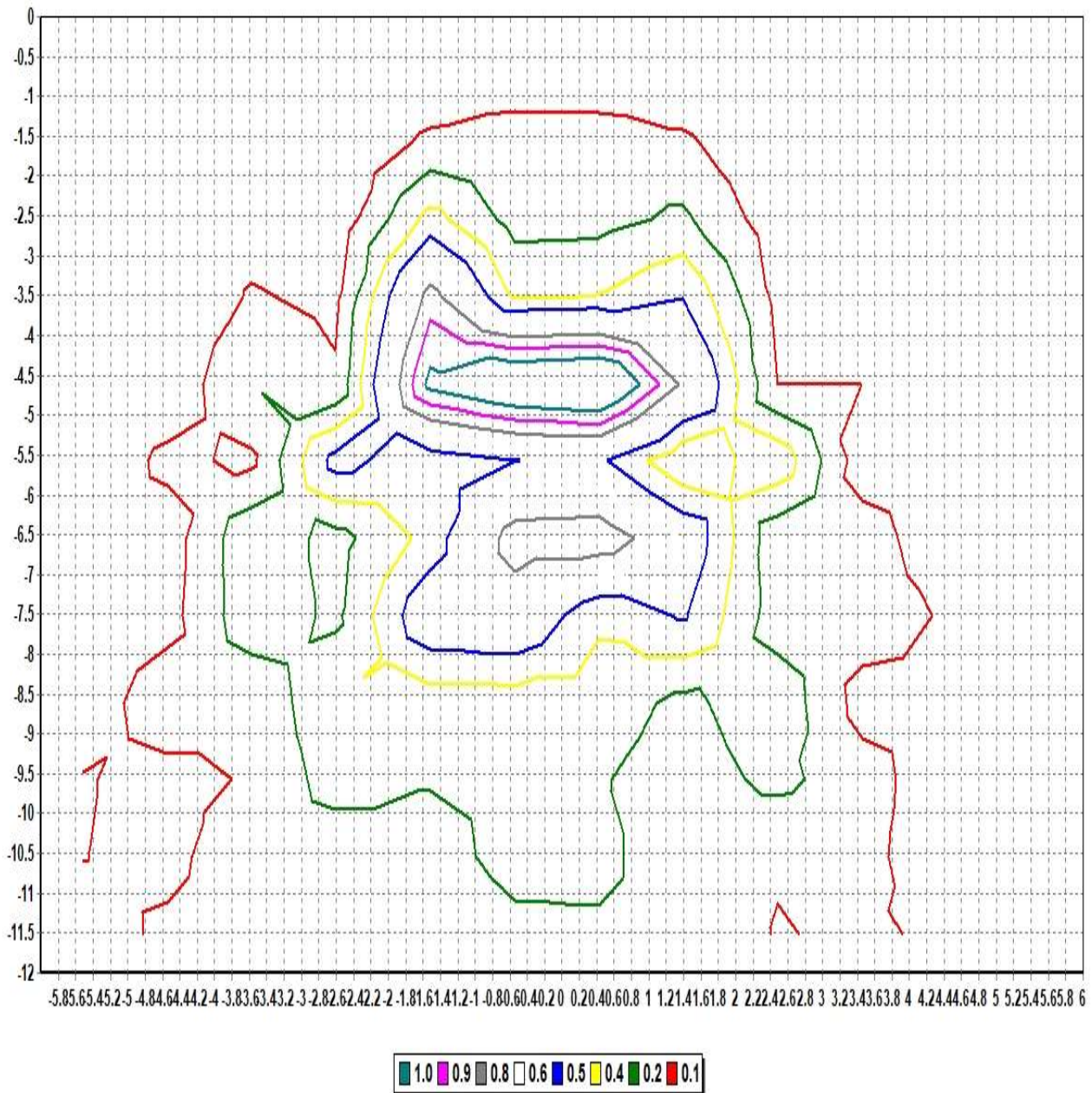
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## IsoLux Diagram (Wall)



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)	23.984
Lamp flux (lm)	71	Current (A)	0.04924
Total flux (lm)	71	Power Factor	1

Report

KH FEELUX

Filename 240828 MCR-SP1 27K-24V-32D-BK.jdt

Operator

Date

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## Illuminance Levels (Ground)

6.00	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
5.00	0.00	0.00	0.00	0.00	0.03	0.05	0.04	0.04	0.03	0.01	0.00	0.00	0.00
4.00	0.00	0.00	0.02	0.04	0.01	0.04	0.04	0.04	0.02	0.05	0.02	0.00	0.00
3.00	0.00	0.00	0.02	0.03	0.22	0.12	0.18	0.15	0.27	0.02	0.03	0.00	0.00
2.00	0.00	0.02	0.01	0.11	0.23	0.51	1.15	0.77	0.25	0.21	0.02	0.03	0.00
1.00	0.00	0.01	0.00	0.09	0.47	3.32	15.70	4.47	0.75	0.13	0.02	0.03	0.00
0.00	0.00	0.00	0.00	0.05	0.53	11.82	22.04	15.12	1.19	0.15	0.02	0.03	0.00
-1.00	0.00	0.01	0.00	0.03	0.33	1.95	12.12	2.53	0.46	0.11	0.02	0.03	0.00
-2.00	0.00	0.00	-0.01	0.08	0.09	0.34	0.60	0.43	0.16	0.19	0.02	0.03	0.00
-3.00	0.00	0.00	0.00	0.00	0.10	0.04	0.09	0.09	0.12	0.03	0.04	0.00	0.00
-4.00	0.00	0.00	0.00	0.01	-0.01	0.02	0.03	0.02	0.02	0.03	0.02	0.00	0.00
-5.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.01	0.00	0.00	0.00
-6.00	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
-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.) : 22.039

Illum. (Min.) : -0.0077

Illum. (Avg.) : 0.5981

All illuminance level values are in lux.



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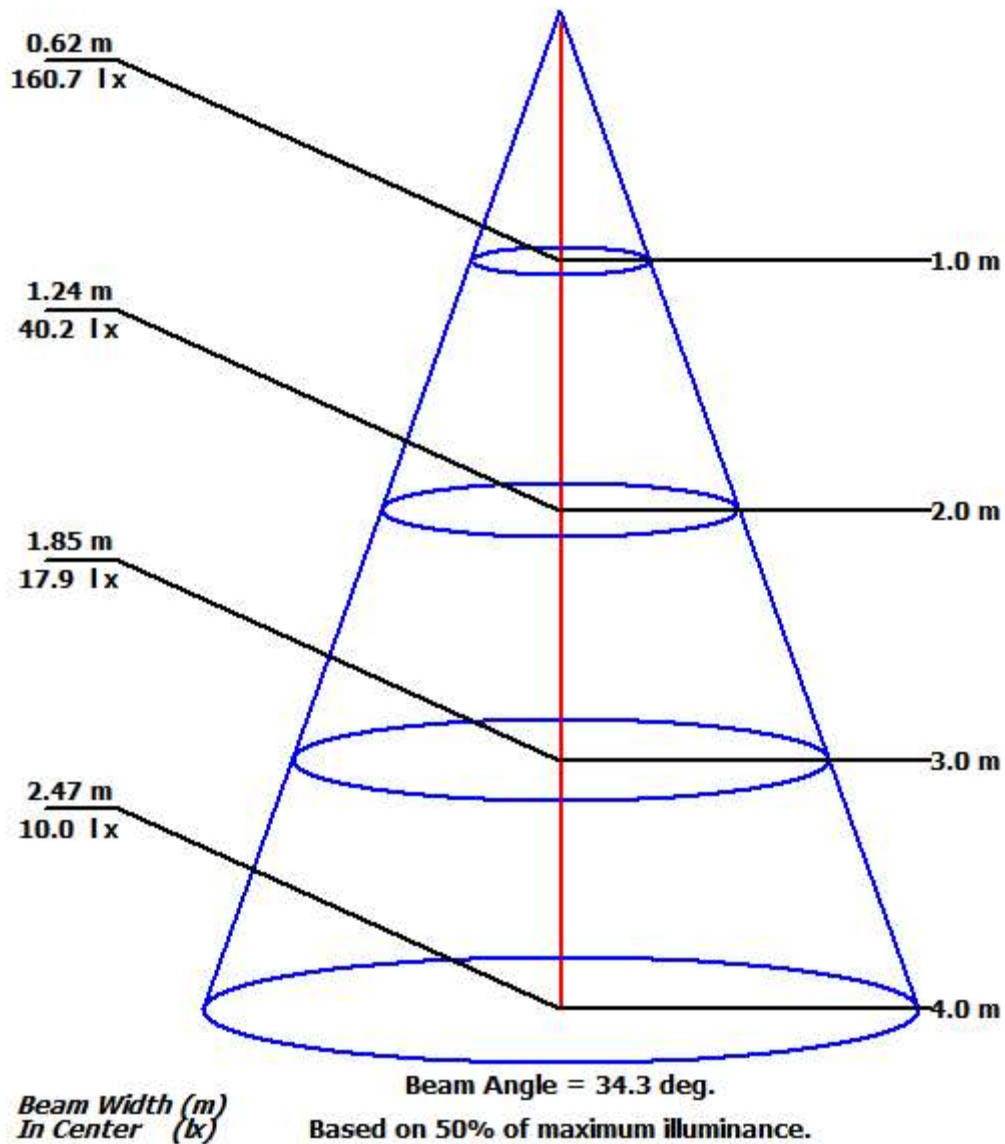
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## Illuminance Cone Diagram





Luminaire KH FEELUX

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No. of lamps 1 Voltage (V) 23.984

Filename 240828 MCR-SP1 27K-24V-32D-BK.jdt

Lamp flux (lm) 71 Current (A) 0.04924

Operator

Total flux (lm) 71 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