

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 : 240403

2. Purpose of Report :**3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 240409 FNL3D SC(22K+40K)-24V-C90-35D-1M_MASS PRODUCTION VER_22K O**5. Test Period :** 240409 ~ 240409**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 reporduced, 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		0.5083 , 0.4180	
Correlated Color Temperature	K	2191	
Ra		91.51	
Power Factor		1.000	
Input Voltage	V	23.948	
Input Current	A	0.414	
Input Watt	W	9.925	
Lamp Flux	lm	648	
Efficient	lm/W	65.29	
luminous Intensity (Max , Center)	cd	949 , 949	
Illuminance	lx	949	1 m
		237	2 m
		106	3 m

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

* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp Report

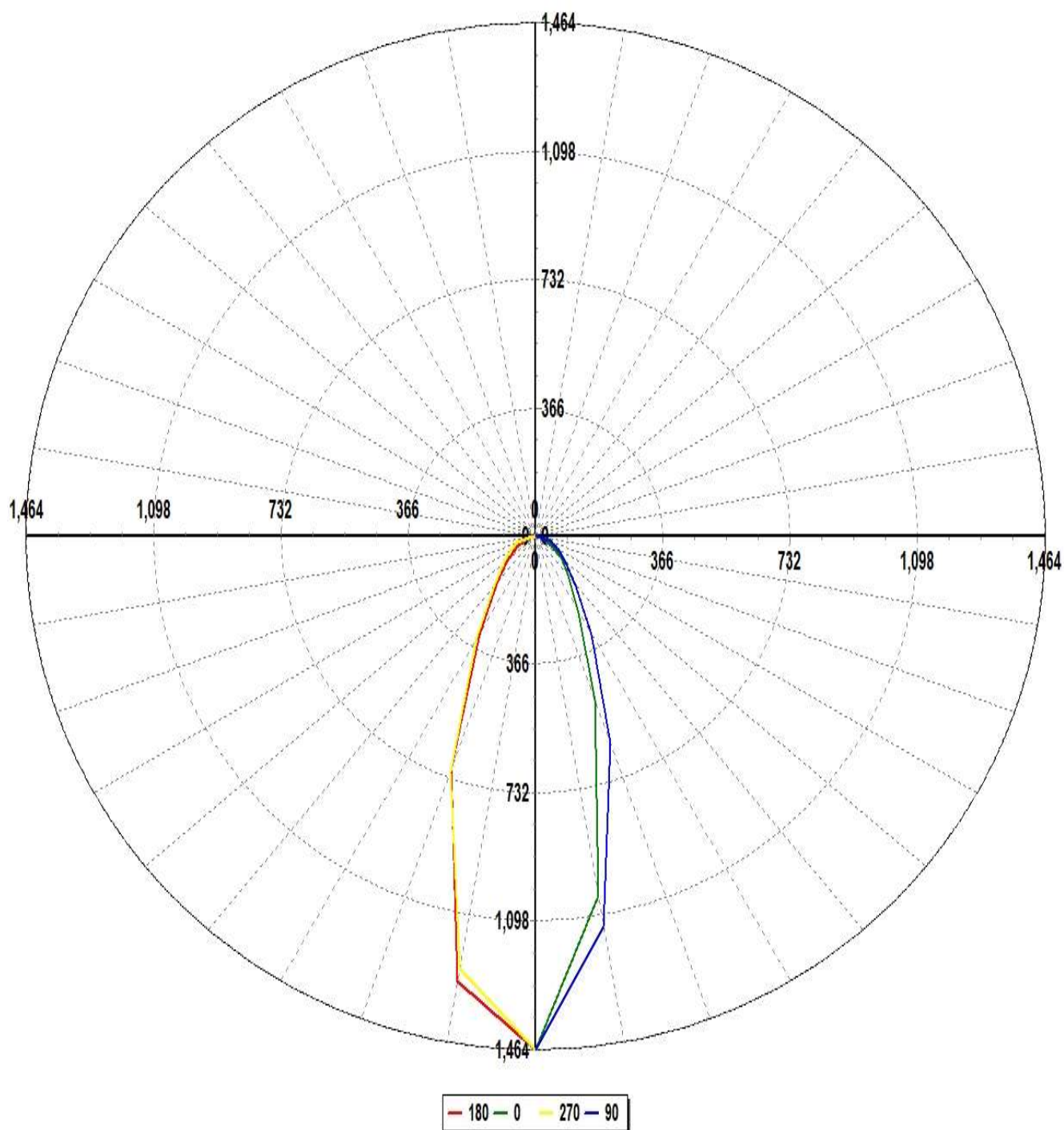
KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-35D-1M_MASS PRODUCTION VER_22K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41442

Total flux (lm) Date:48 Power Factor 1 2024-04-09 오후 3:17:15

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp Report

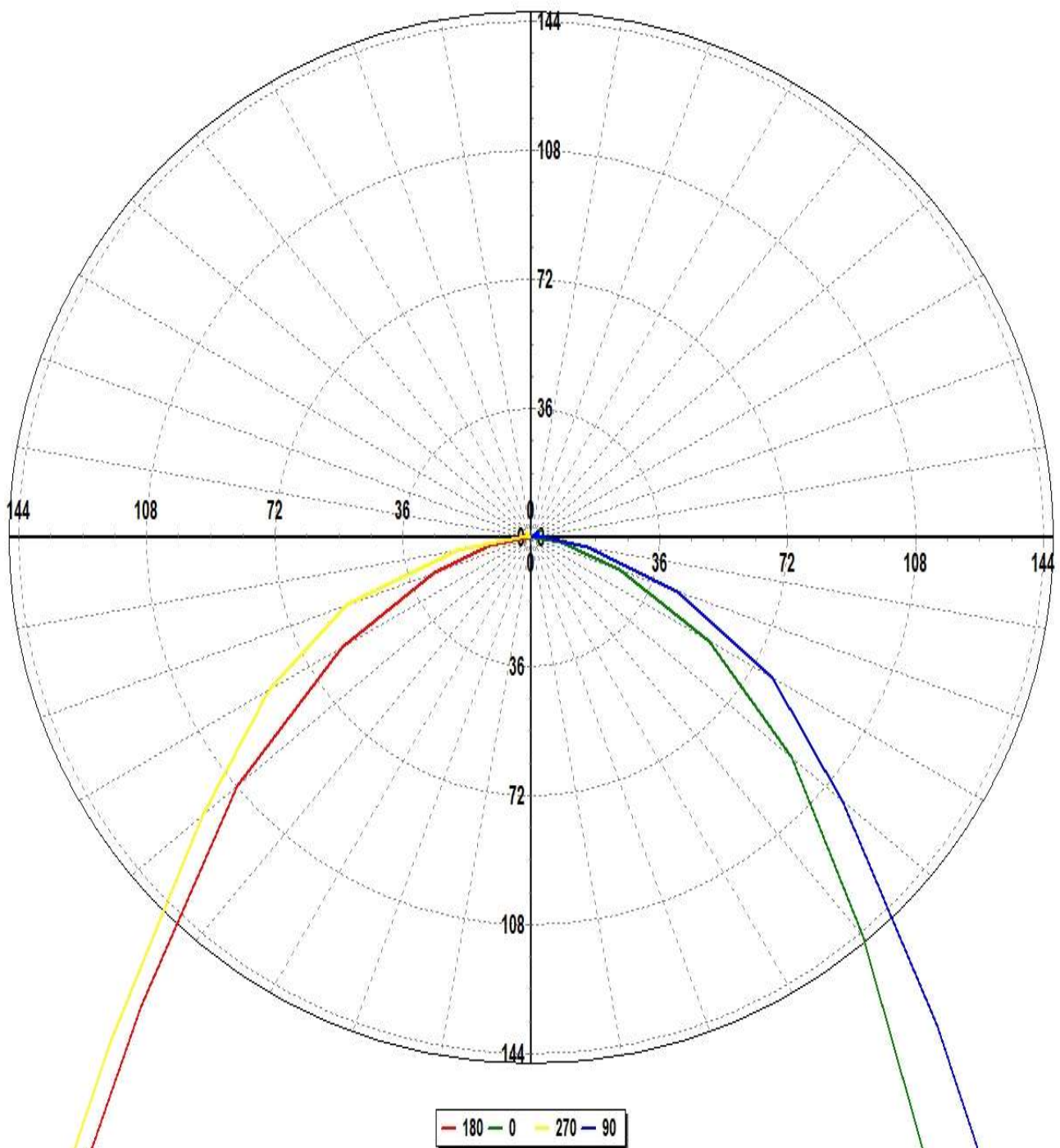
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Luminous Intensity Distribution (Lowest 10%)



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Total flux (lm) Date 48 Power Factor 1 2024-04-09 오후 3:17:15

Luminous Intensity Data

Maximum (cd) : 949

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	949.5	948.58	948.09	948.48	948.88	949	949.5	948.58	948.09	948.48	948.88
10	673.82	679.13	712.48	732	743.94	729.13	835.9	837.8	824.78	813.48	788.09
20	322.01	333.41	379.16	407.71	403.32	365.67	458.38	470.02	470.35	463.98	431.97
30	157.46	165.2	192.17	209.44	197.68	175.13	209.56	216.85	220.48	219.38	205.14
40	93.72	96.94	109.78	115	111.3	99.52	110.32	114.92	117.33	119.44	113.87
50	61.85	64.32	72.49	74.13	71.78	63.98	69.77	72.04	76.59	78.07	75.56
60	37.41	41.41	46.97	50.68	46.3	36.27	39.83	45.54	51.65	54.93	51.89
70	17.02	18.83	25.7	28.29	24.77	15.43	18.75	22.14	30.85	35.67	29.09
80	5.58	5.93	7.83	10.47	7.98	5.12	7.72	7.95	11.35	13.61	11.42
90	0.71	0.35	1.66	2.5	1.67	0.52	0.53	1.57	2.07	2.07	0.95
100	0.73	0.89	0.78	0.42	0.84	1.03	0.06	0.51	0.6	0.6	0.18
110	0.58	0.8	0.54	0.7	0.56	0.93	0.43	0.48	1.08	0.46	0.32
120	0.79	1.4	1.08	1.7	1.4	1.69	1.13	0.89	1.46	0.63	0.44
130	2.3	2.06	2.28	1.61	2.32	2	1.77	0.62	1.6	1.64	1.25

Luminaire KH FEELUX

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Luminous Intensity Data (Continued)

Maximum (cd) : 949

Minimum (cd) : 0

G/C	330	360
0	949	949.5
10	783.21	673.82
20	412.93	322.01
30	195.92	157.46
40	109.16	93.72
50	71.32	61.85
60	46.76	37.41
70	23.68	17.02
80	8.84	5.58
90	1.39	0.71
100	0.94	0.73
110	0.48	0.58
120	0.8	0.79
130	1.59	2.3

Luminaire KH FEELUX

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48 Power Factor 1

Luminous Flux Table

Total Lamp Lumens: 647.96

Luminaire Efficiency (lm/W): 65.29

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	22.68	22.68	3.50	3.50
10	145.08	167.76	25.89	25.89
20	153.55	321.31	49.58	49.59
30	107.90	429.21	66.24	66.24
40	76.93	506.14	78.11	78.11
50	59.56	565.70	87.30	87.30
60	43.44	609.14	94.00	94.01
70	24.89	634.04	97.85	97.85
80	9.33	643.37	99.28	99.29
90	1.46	644.83	99.51	99.52
100	0.68	645.51	99.62	99.62
110	0.63	646.14	99.71	99.72
120	1.06	647.20	99.88	99.88
130	0.76	647.96	99.99	100.00

Luminaire KH FEELUX

Lamp Report

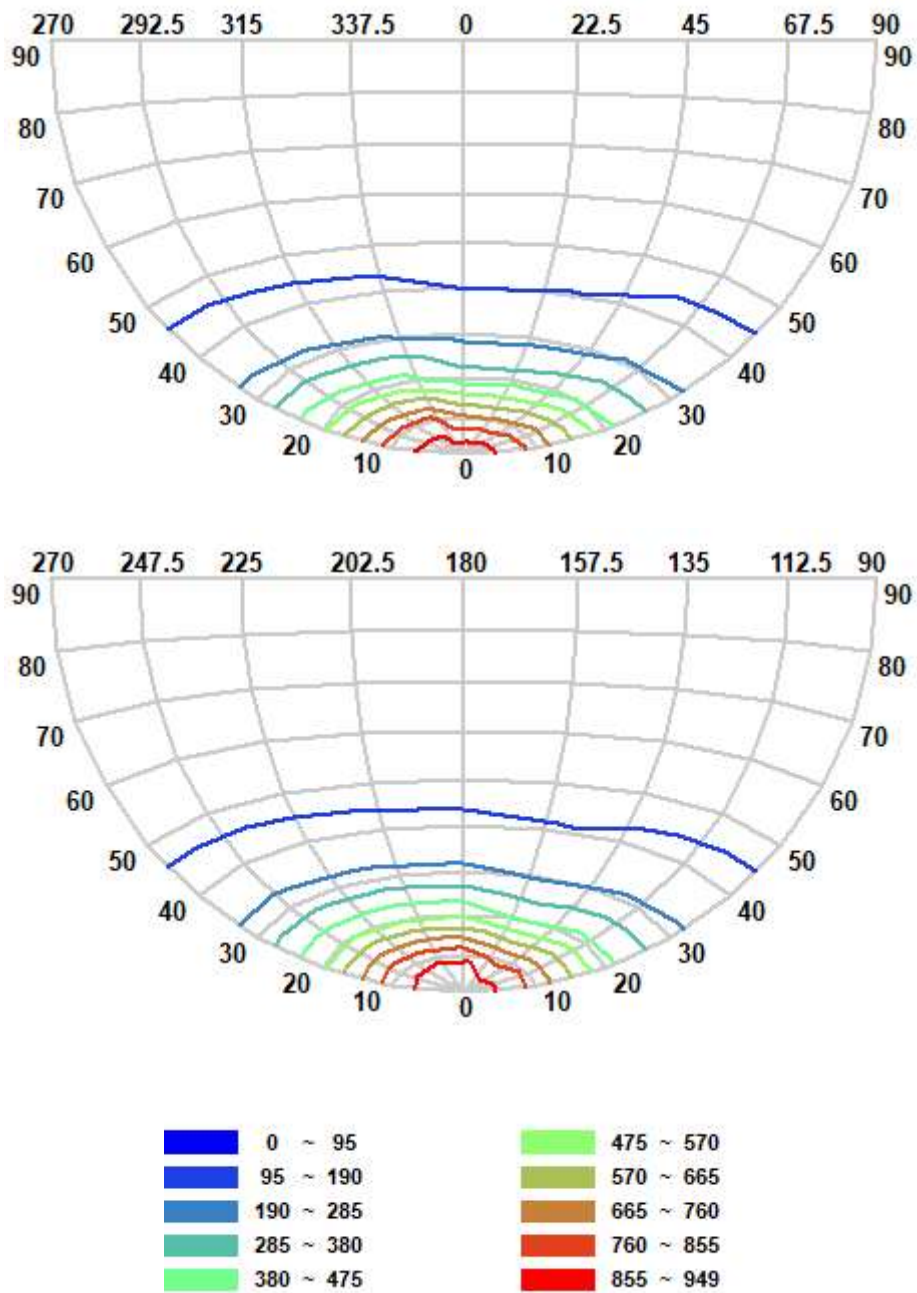
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IsoCandela (Type C)



Luminaire KH FEELUX

Lamp Report

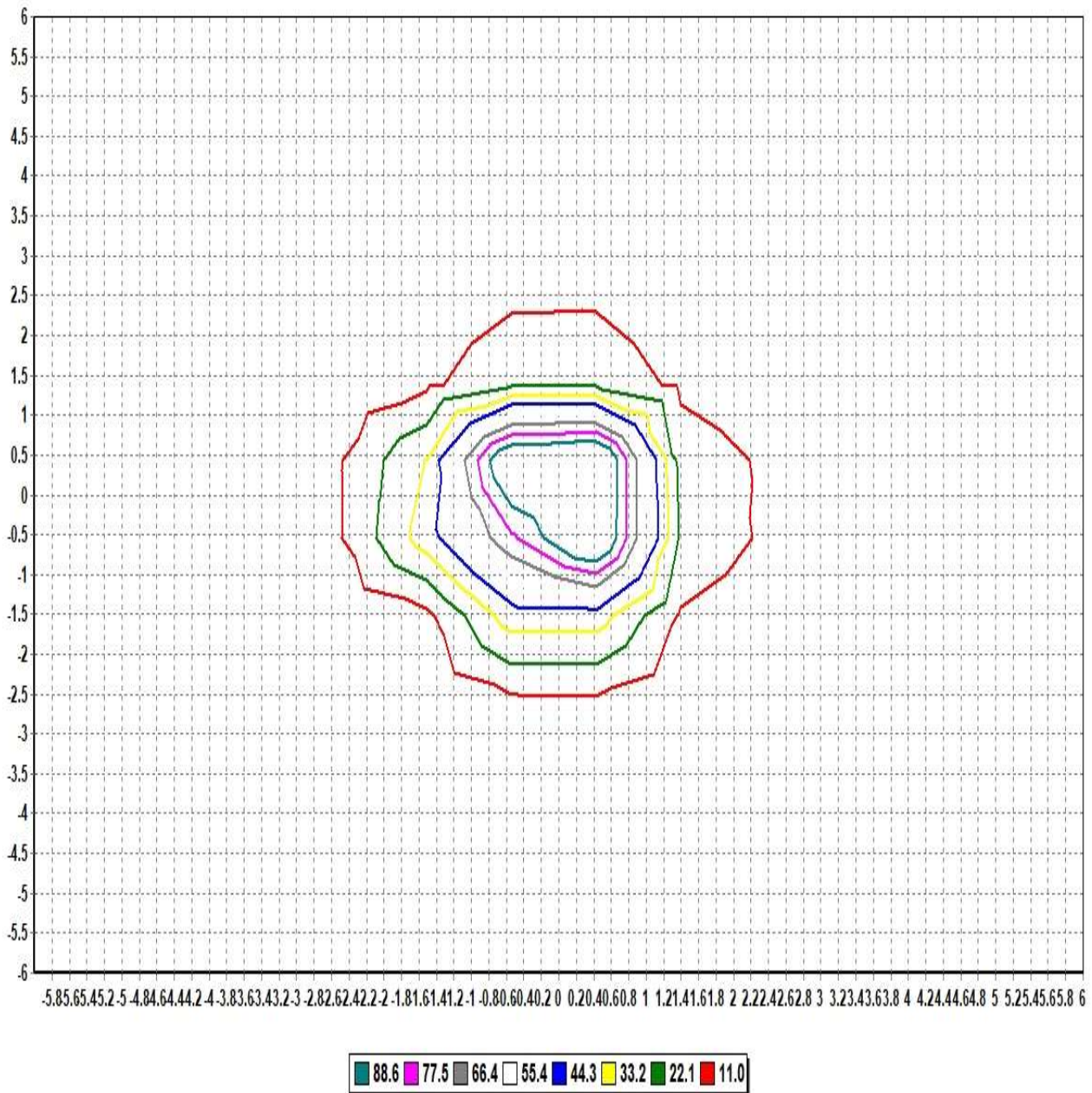
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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp Report

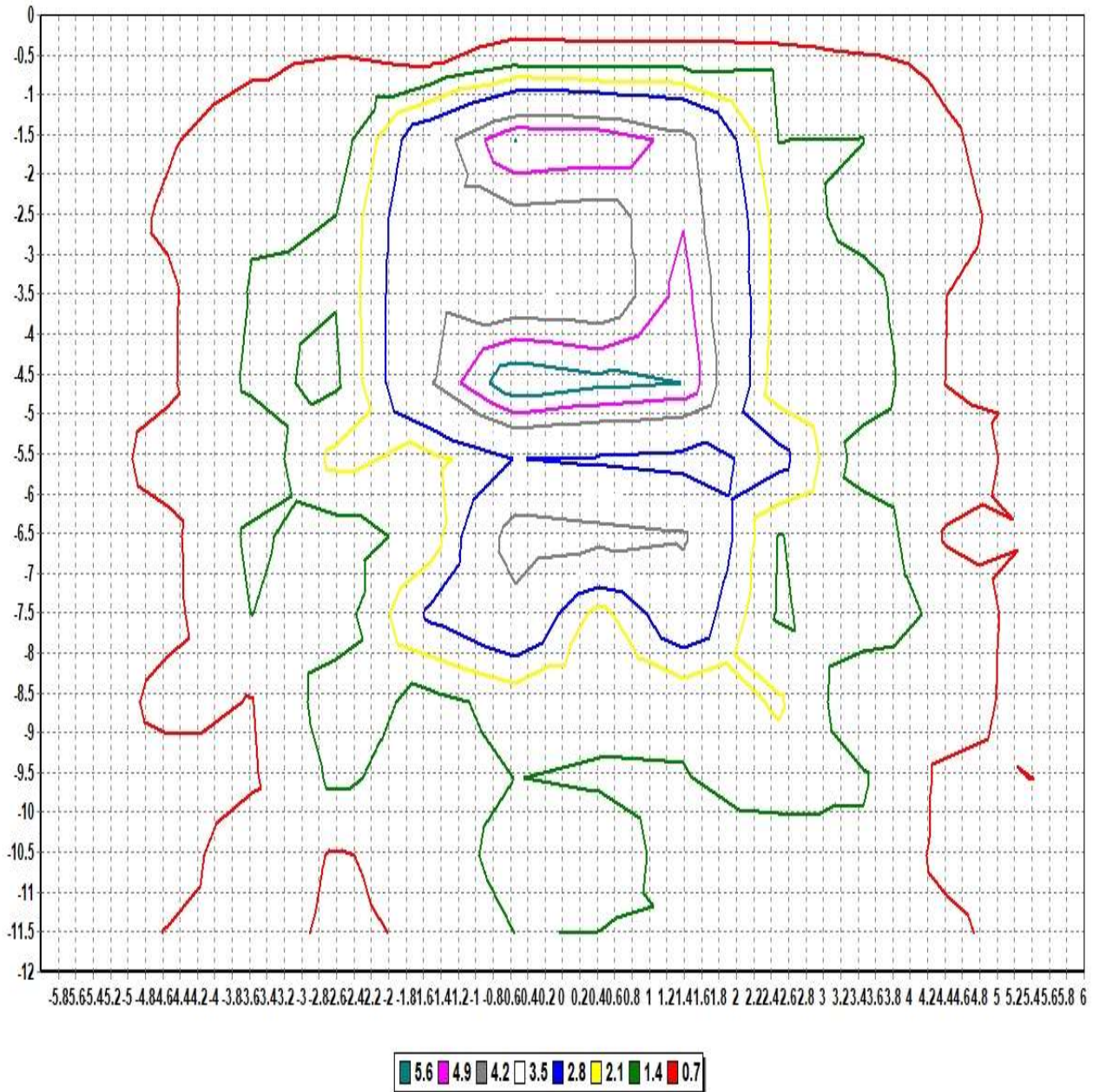
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IsoLux Diagram (Wall)



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

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.948	Filename	240409 FNL3D SC(22K+40K)-24V-C90-35D-1M_MASS PRODUCTION VER_22K ON.jdt
Lamp flux (lm)	648	Current (A)	0.41442	Operator	
Total flux (lm)	648	Power Factor	1	Date	2024-04-09 오후 3:17:15

Illuminance Levels (Ground)

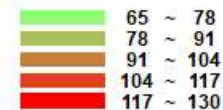
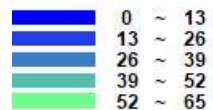
6.00	0.17	0.23	0.17	0.21	0.27	0.32	0.36	0.33	0.24	0.17	0.15	0.21	0.13
5.00	0.18	0.18	0.27	0.40	0.79	0.95	1.03	0.96	0.72	0.36	0.24	0.12	0.18
4.00	0.10	0.19	0.68	1.03	0.94	1.28	1.44	1.28	0.85	0.98	0.58	0.19	0.11
3.00	0.20	0.26	0.90	1.16	3.00	2.80	3.38	2.60	2.85	0.96	0.86	0.27	0.16
2.00	0.23	0.75	0.91	2.65	3.96	7.20	10.52	6.33	3.38	2.48	0.82	0.69	0.21
1.00	0.24	0.86	1.07	2.65	7.09	23.95	81.62	19.12	6.21	2.44	1.13	0.88	0.28
0.00	0.26	0.95	1.25	3.20	10.30	93.18	130.25	74.93	8.25	2.80	1.13	0.85	0.24
-1.00	0.23	0.85	1.06	2.75	7.40	25.97	90.74	25.53	7.31	2.85	1.12	0.85	0.25
-2.00	0.23	0.77	0.91	2.89	3.89	7.46	10.97	7.39	4.13	2.89	1.02	0.82	0.28
-3.00	0.19	0.30	0.96	1.05	3.07	2.85	3.54	2.95	3.12	1.26	1.01	0.36	0.23
-4.00	0.12	0.21	0.64	1.05	0.93	1.38	1.54	1.37	1.04	1.08	0.73	0.26	0.15
-5.00	0.19	0.14	0.28	0.41	0.80	1.02	1.09	1.01	0.84	0.46	0.32	0.21	0.22
-6.00	0.14	0.23	0.18	0.20	0.27	0.38	0.42	0.37	0.32	0.24	0.21	0.25	0.19
-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.) : 130.25

Illum. (Min.) : 0.1046

Illum. (Avg.) : 4.7694

All illuminance level values are in lux.



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Lamp Report

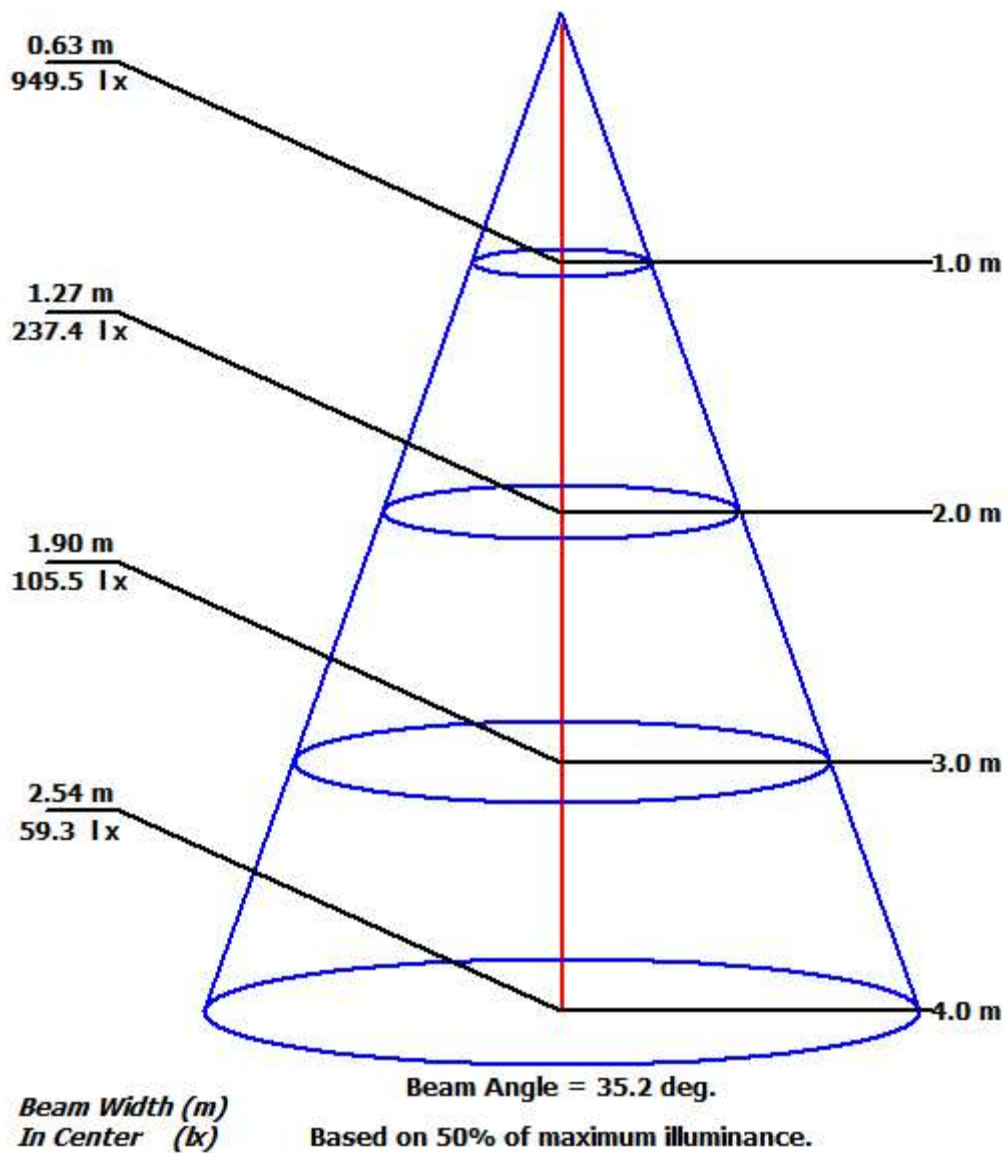
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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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Total flux (lm)	648	Power Factor	1	Date	2024-04-09 오후 3:17:15

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