

# 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\_FULL

**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		0.4433 , 0.4000	
Correlated Color Temperature	K	2861	
Ra		94.03	
Power Factor		1.000	
Input Voltage	V	23.903	
Input Current	A	0.816	
Input Watt	W	19.506	
Lamp Flux	lm	1442.8	
Efficient	lm/W	73.97	
luminous Intensity (Max , Center)	cd	2026 , 2026	
Illuminance	lx	2026	1 m
		506	2 m
		225	3 m

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

\* Sample photo

[Click to load image](#)

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Lamp Report

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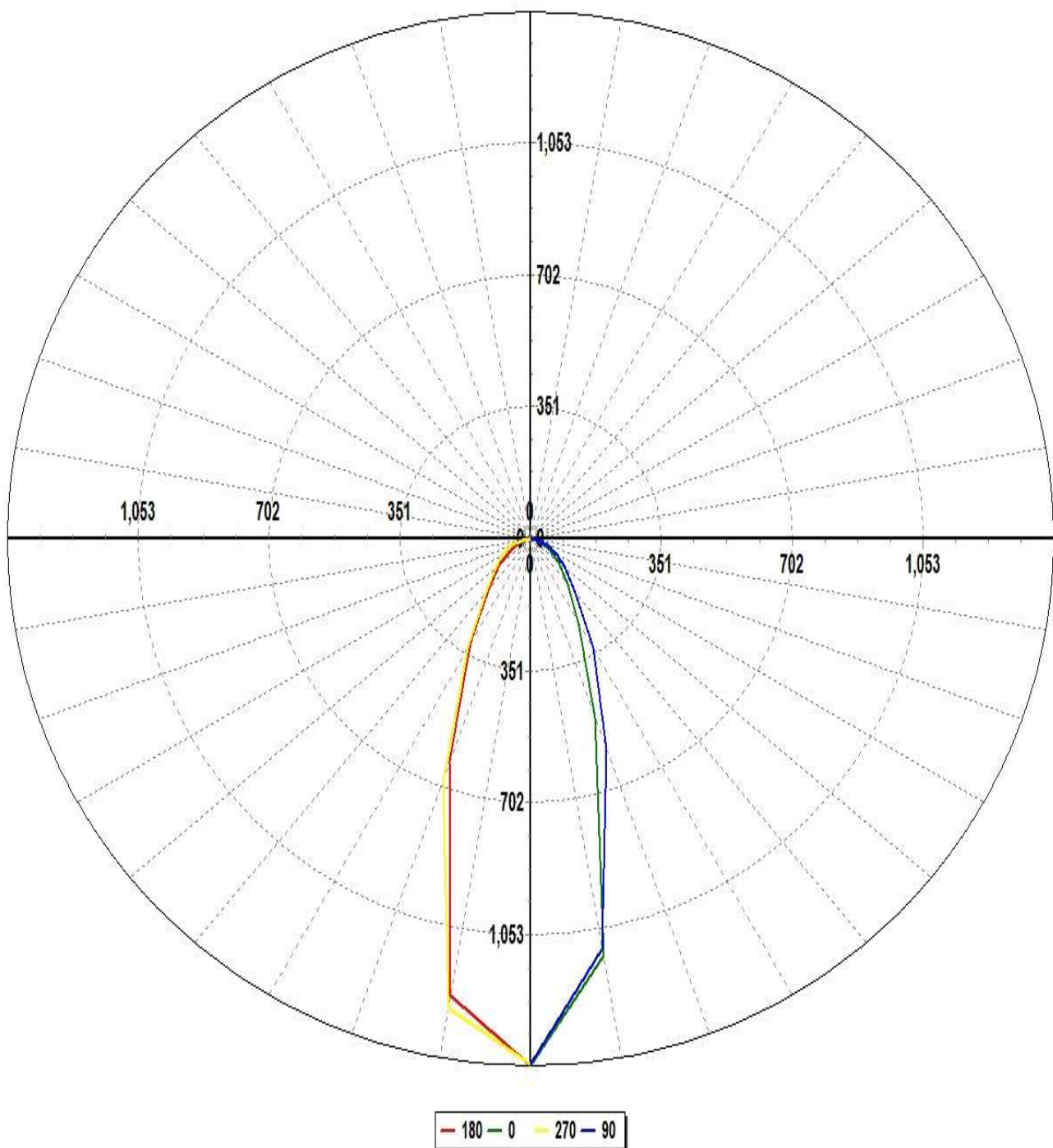
No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-35D-1M\_MASS PRODUCTION VER\_FULL ON.jdt

Lamp flux (lm)Operator:3 Current (A) 0.816

Total flux (lm)Date 1443 Power Factor 1

2024-04-09 오후 3:39:37

## Luminous Intensity Distribution



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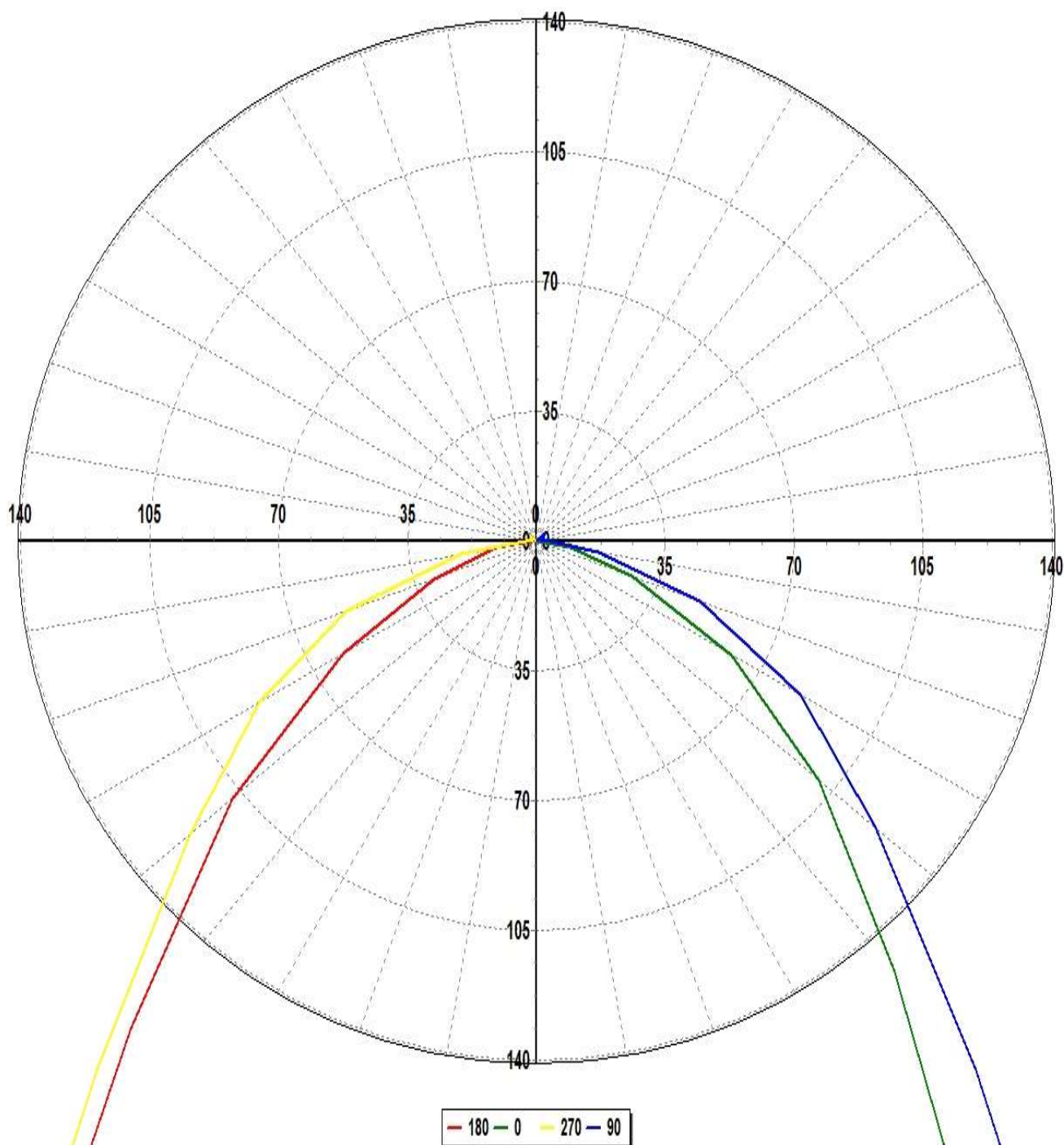
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## Luminous Intensity Distribution (Lowest 10%)



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## Luminous Intensity Data

Maximum (cd) : 2026

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270
0	2025.66	2020.21	2017.71	2019.68	2021.15	2018.49	2025.66	2020.21	2017.71	2019.68
10	1626.99	1488.89	1699.96	1602.34	1754.49	1577.6	1782.1	1883.05	1741.42	1831.56
20	731.43	709.29	863.35	863.81	905.35	752.79	914.75	1005.29	937.59	992.48
30	368.21	386.9	446.9	483.1	452.29	394.87	461.26	473.82	481.63	482.93
40	217.76	227.53	256.12	267.64	255.24	224.5	247.41	253.62	262.23	267.5
50	144.65	148.34	169.71	173.72	164.87	146.23	155.7	161.65	171.52	176.88
60	88.38	97.78	110.37	119.5	107.04	83.05	87.6	99.73	115.45	124.95
70	39.82	44.5	60.07	68.14	56.93	37.95	42.71	49.05	67.48	78.94
80	13.66	15.02	20.29	24.85	19.97	12.03	15.88	18.62	24.77	29.89
90	0.75	1.84	4.12	5.48	3.96	1.17	1.85	2.5	4.16	4.17
100	0.83	0.92	1.97	1.71	1.22	0.83	1.23	0.88	0.64	1.57
110	1.42	1.91	2.06	2.17	1.41	1.98	1.7	2	1.92	1.47
120	2.28	2.75	3.08	3.49	2.55	2.71	2.38	2.41	2.49	2.1
130	3.71	4.23	3.73	4.46	3.91	4.33	2.82	3.79	4.14	3.26

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## Luminous Intensity Data (Continued)

Maximum (cd) : 2026

Minimum (cd) : 1

G/C	300	330	360
0	2021.15	2018.49	2025.66
10	1676.12	1795.27	1626.99
20	868.55	912.93	731.43
30	458.04	442.94	368.21
40	257.69	251.05	217.76
50	172.59	162.02	144.65
60	116.4	107.9	88.38
70	65.63	55.75	39.82
80	24.7	21.07	13.66
90	4.1	3.02	0.75
100	1.05	0.81	0.83
110	1.93	1.53	1.42
120	2.71	2.46	2.28
130	4.28	4.08	3.71

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## Luminous Flux Table

Total Lamp Lumens: 1442.8

Luminaire Efficiency (lm/W): 73.97

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	48.31	48.31	3.35	3.35
10	324.26	372.57	25.82	25.82
20	326.44	699.01	48.45	48.45
30	243.36	942.38	65.32	65.32
40	175.31	1117.69	77.47	77.47
50	136.19	1253.88	86.91	86.91
60	99.45	1353.32	93.80	93.80
70	57.20	1410.53	97.76	97.76
80	21.64	1432.17	99.26	99.26
90	3.39	1435.56	99.50	99.50
100	1.23	1436.78	99.58	99.58
110	1.84	1438.63	99.71	99.71
120	2.48	1441.11	99.88	99.88
130	1.69	1442.80	100.00	100.00



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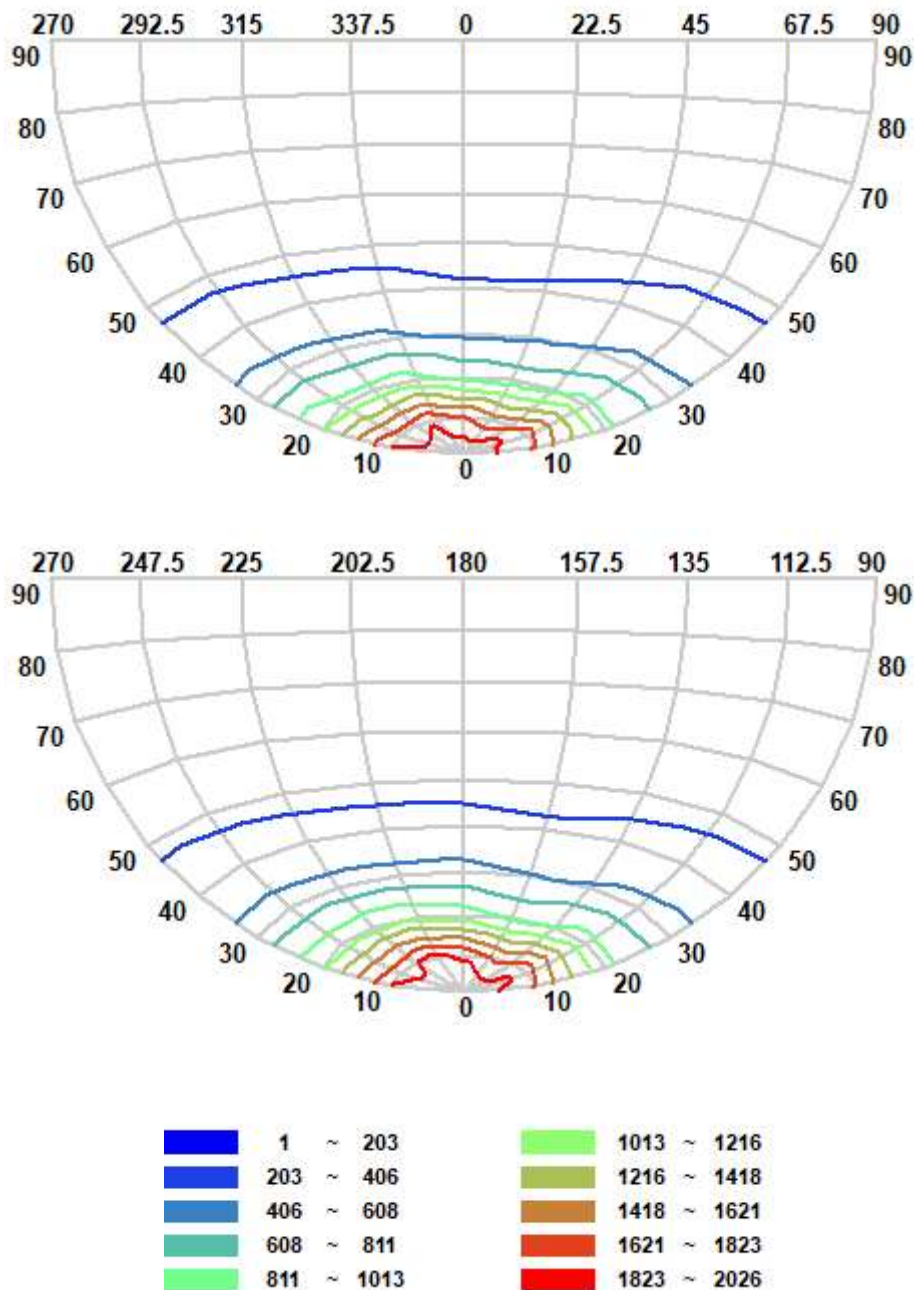
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## IsoCandela (Type C)





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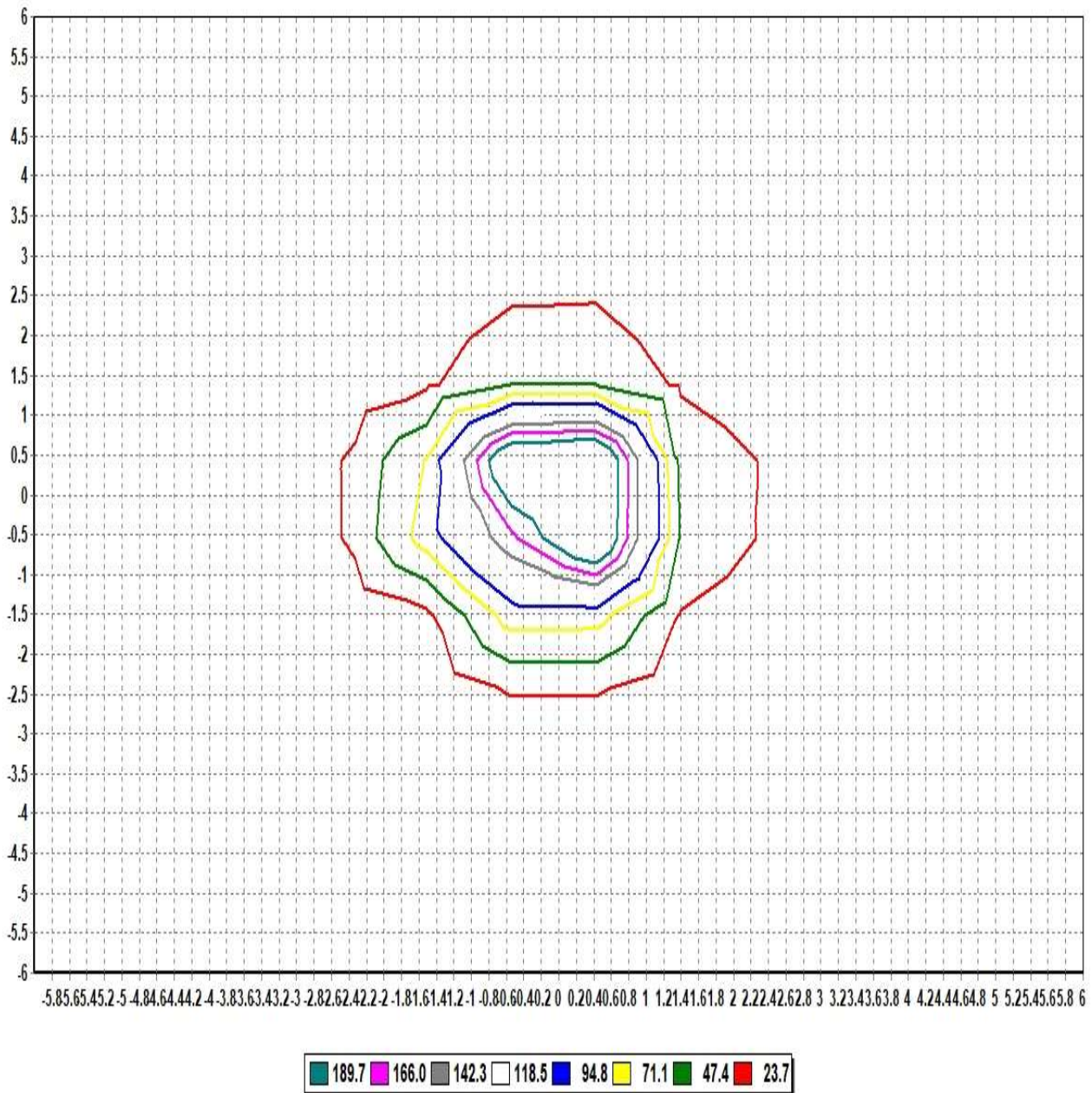
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## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

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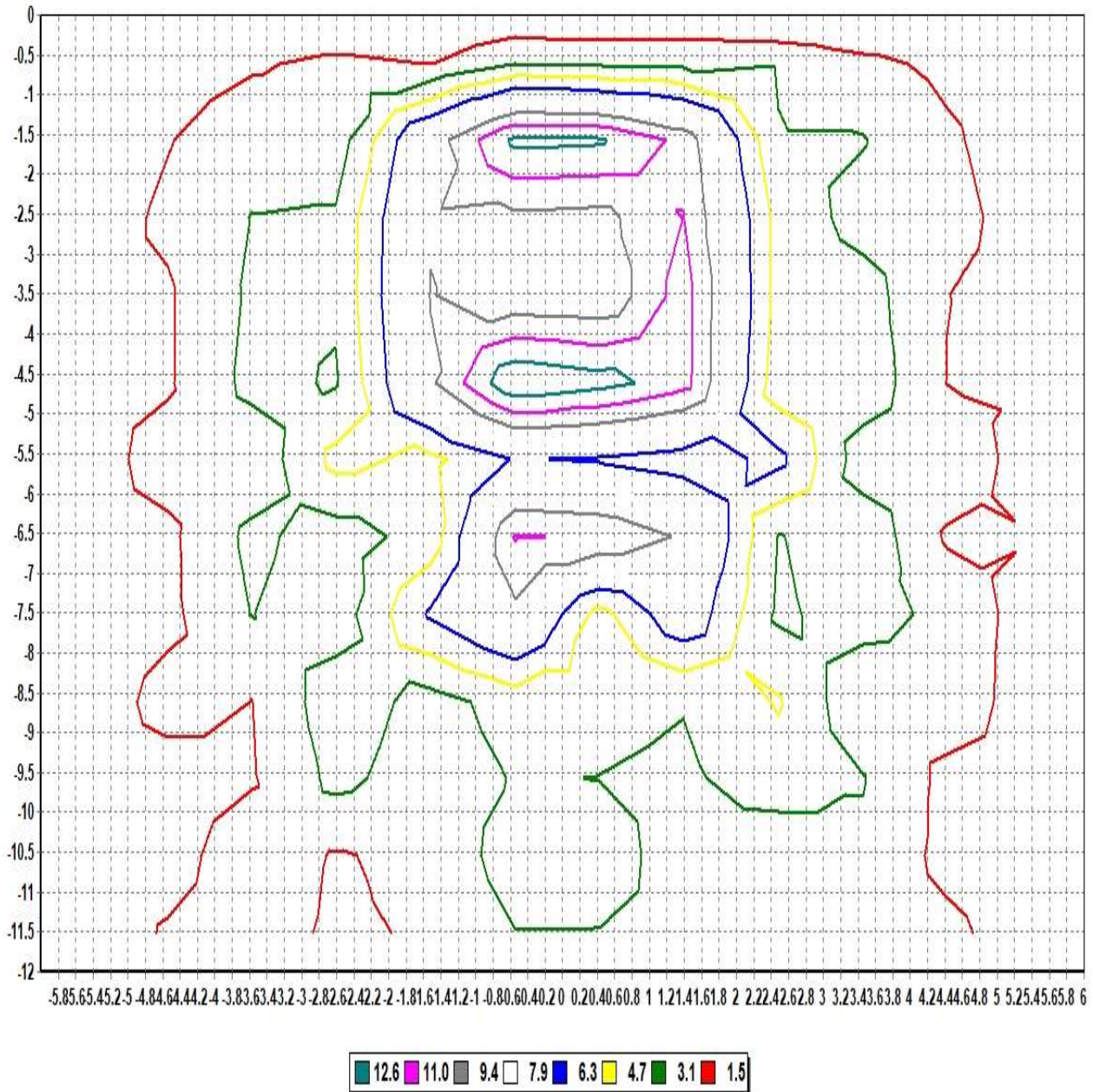
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## IsoLux Diagram (Wall)



Pole Height (m): 2.7 Wall Distance (m): 2.7

Aiming Plane: 0 Wall Height (m): 12

Total Optical Solution Provider

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Lamp

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No. of lamps 1

Voltage (V) 23.903

Filename 240409 FNL3D SC(22K+40K)-24V-C90-35D-1M\_MASS PRODUCTION VER\_FULL ON.jdt

Lamp flux (lm) 1443

Current (A) 0.816

Operator

Total flux (lm) 1443

Power Factor 1

Date

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## Illuminance Levels (Ground)

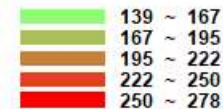
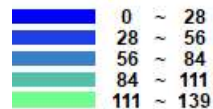
6.00	0.39	0.53	0.41	0.48	0.64	0.76	0.85	0.78	0.55	0.40	0.36	0.49	0.31
5.00	0.41	0.42	0.64	0.94	1.83	2.24	2.43	2.26	1.68	0.85	0.57	0.29	0.42
4.00	0.25	0.46	1.58	2.39	2.18	3.00	3.39	3.01	1.99	2.29	1.34	0.45	0.25
3.00	0.46	0.62	2.07	2.70	6.99	6.49	7.90	6.03	6.66	2.26	2.01	0.65	0.39
2.00	0.54	1.73	2.10	6.00	9.17	16.54	24.37	14.84	7.88	5.78	1.94	1.60	0.49
1.00	0.54	1.94	2.41	6.08	16.22	53.96	178.55	43.70	14.55	5.66	2.63	2.02	0.65
0.00	0.58	2.13	2.76	7.14	22.89	198.42	277.87	180.77	19.22	6.54	2.67	1.99	0.57
-1.00	0.52	1.91	2.40	6.15	16.36	55.64	204.12	55.19	16.56	6.49	2.60	1.96	0.59
-2.00	0.51	1.71	2.00	6.47	8.69	16.46	24.36	16.69	9.35	6.61	2.30	1.86	0.65
-3.00	0.41	0.66	2.15	2.33	6.86	6.38	8.00	6.70	7.02	2.85	2.29	0.83	0.53
-4.00	0.27	0.47	1.42	2.35	2.05	3.11	3.50	3.10	2.34	2.46	1.65	0.59	0.35
-5.00	0.42	0.31	0.61	0.92	1.78	2.30	2.48	2.28	1.92	1.03	0.71	0.48	0.51
-6.00	0.32	0.51	0.40	0.43	0.59	0.86	0.93	0.82	0.71	0.55	0.47	0.56	0.42
-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.) : 277.87

Illum. (Min.) : 0.2525

Illum. (Avg.) : 10.635

All illuminance level values are in lux.





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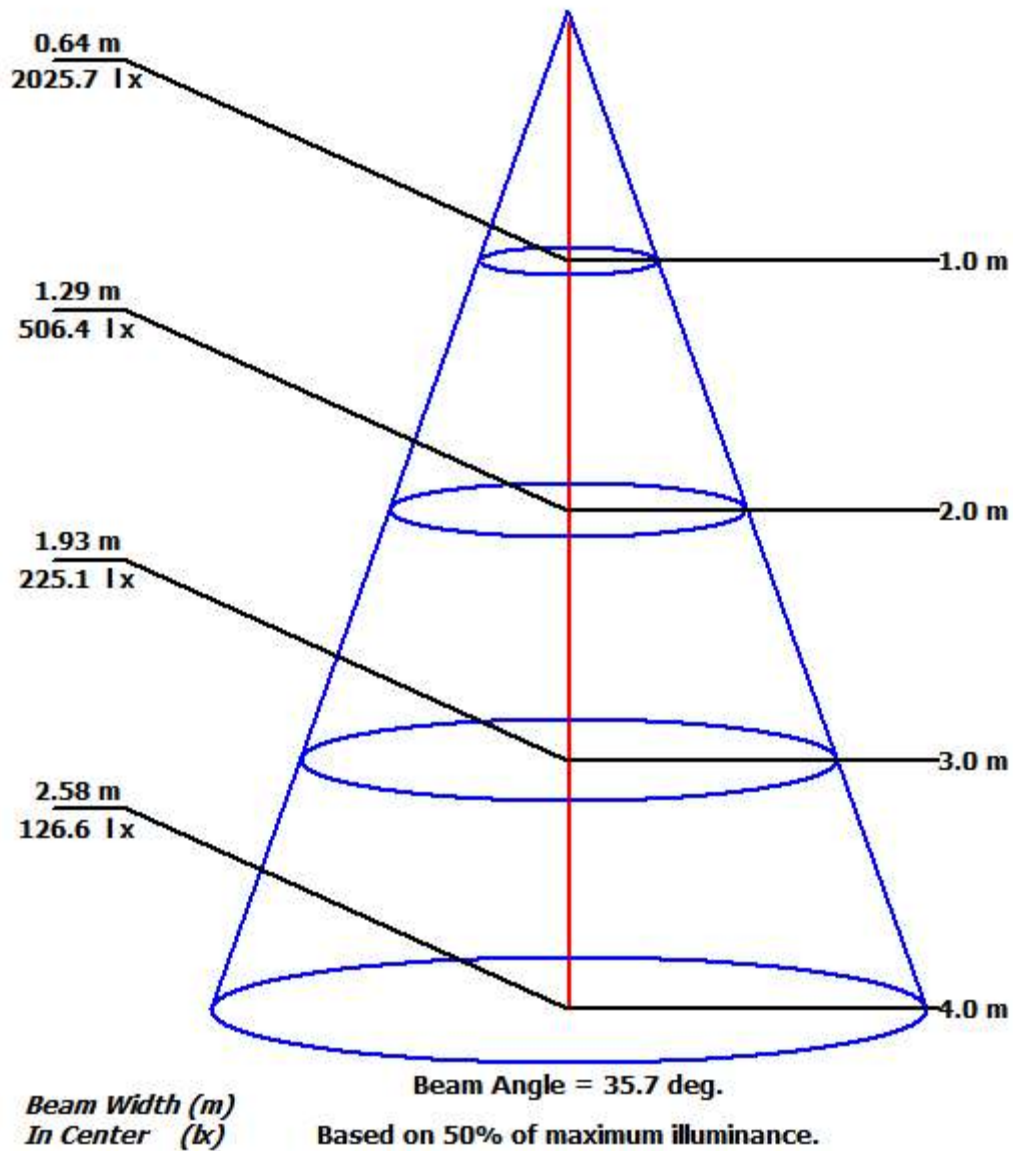
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## Illuminance Cone Diagram



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No. of lamps	1	Voltage (V)	23.903	Filename	240409 FNL3D SC(22K+40K)-24V-C90-35D-1M_MASS PRODUCTION VER_FULL ON.jdt
Lamp flux (lm)	1443	Current (A)	0.816	Operator	
Total flux (lm)	1443	Power Factor	1	Date	2024-04-09 오후 3:39:37

## 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