

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844  
\* Date of Receipt : 230804

**2. Purpose of Report :****3. Number of Report :** 230804**4. Test Standard / Item :** / 230804 FNL 3D 30K-24V-C90-1M-20D**5. Test Period :** 230804 ~ 230804**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
230804			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4371 , 0.4037	
Correlated Color Temperature	K	2995	
Ra		91.42	
Power Factor		1.000	
Input Voltage	V	23.899	
Input Current	A	0.805	
Input Watt	W	19.242	
Lamp Flux	lm	1539.7	
Efficient	lm/W	80.02	
luminous Intensity (Max , Center)	cd	2974 , 2974	
Illuminance	lx	2974	1 m
		743	2 m
		330	3 m

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

\* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

230804

No. of lamps 1

Voltage (V)

23.89Filename 230804 FNL 3D 30K-24V-C90-1M-20D.jdt

Lamp flux (lm) 1540

Current (A)

0.805Operator

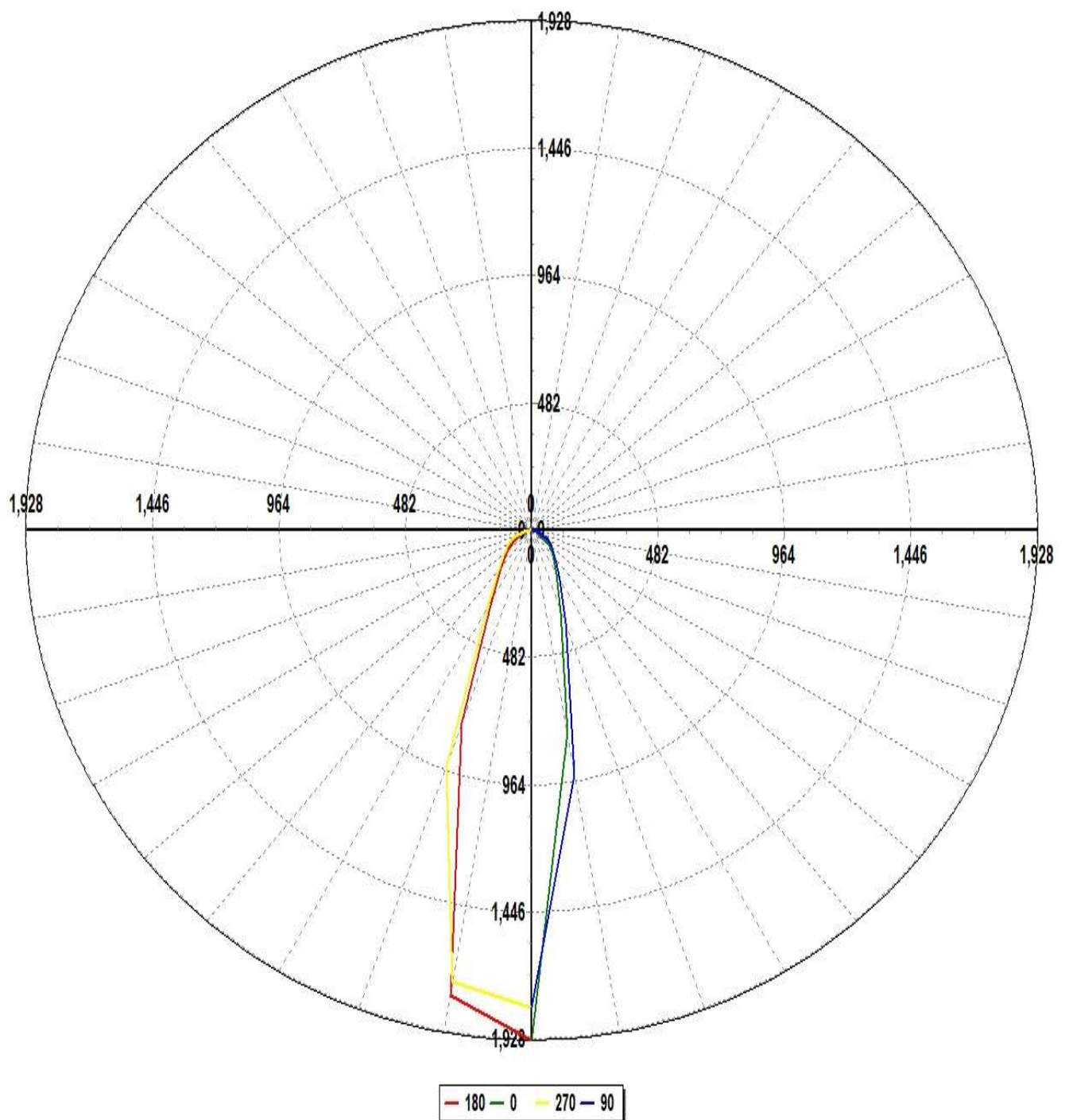
Total flux (lm) 1540

Power Factor

Date

2023-08-04 오전 11:11:32

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

230804

No. of lamps 1

Voltage (V)

23.85Filename 230804 FNL 3D 30K-24V-C90-1M-20D.jdt

Lamp flux (lm) 1540

Current (A)

0.805Operator

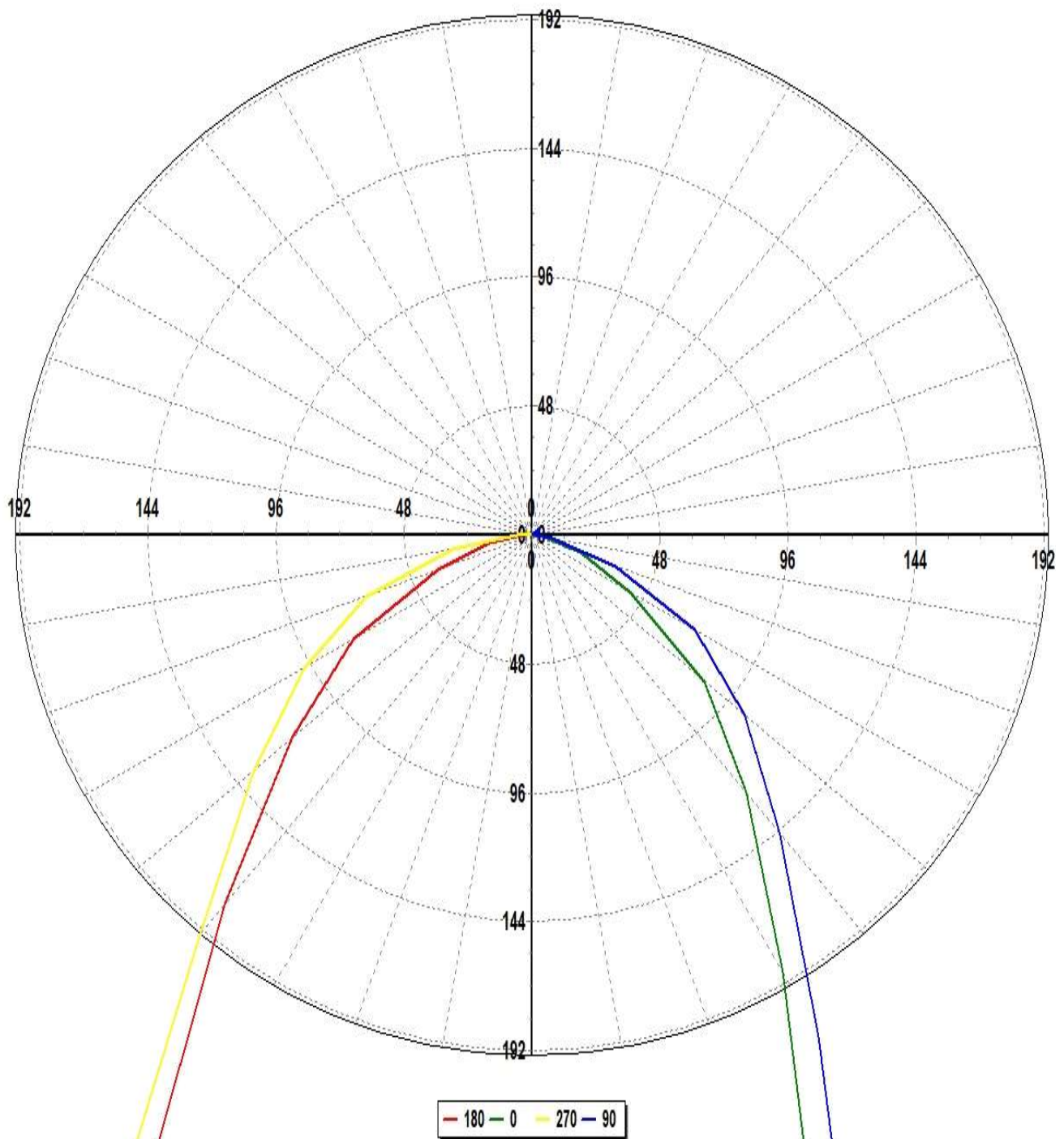
Total flux (lm) 1540

Power Factor

Date

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## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Lamp flux (lm) 1540

Current (A)

0.805Operator

Total flux (lm) 1540

Power Factor

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## Luminous Intensity Data

Maximum (cd) : 2974

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270
0	2973.87	2711.28	2800.16	2785.25	2736	2625.3	2973.87	2711.28	2800.16	2785.25
10	1199.84	1299.09	1742.66	1442.31	1506.7	1040.81	2755.06	2789.71	2732.2	2673.97
20	503.71	522	646.95	579.85	549.97	481.32	1200.47	1527.87	1284.65	1463.38
30	289.43	307.7	338.44	331.17	307.66	276.39	459.67	529.51	498.93	518.61
40	192.72	200.88	223.93	221.99	210.82	184.1	275.15	290.18	300.83	298
50	129.99	135.95	153.65	159.99	145.28	126.21	180.2	190.43	205.76	209.28
60	66.42	81.66	95.81	108.63	90.61	66.06	119.1	128.18	140.45	151.6
70	30.2	32.41	46.06	51.55	41.86	26.01	57.76	70.83	87.12	101.85
80	6.95	8.01	11.03	11.96	7.63	5	24.77	26.89	41.07	46.28
90	0.96	1.55	2.12	2.43	0.99	1.28	4.99	6.5	7.48	8.71
100	0.87	1.34	1.77	2.12	1.28	1.37	1.6	0.77	1.93	1.01
110	2.24	2.5	2.12	1.89	2.07	1.8	1.57	1.69	1.82	1.36
120	3.17	3.23	3.06	3.45	2.89	3.25	1.75	2.55	2.06	1.97
130	4.69	5.96	4.88	5.2	5.25	5.35	2.47	2.7	3.55	3.08

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0.805Operator

Total flux (lm) 1540

Power Factor

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## Luminous Intensity Data (Continued)

Maximum (cd) : 2974

Minimum (cd) : 1

G/C	300	330	360
0	2736	2625.3	2973.87
10	2609.9	2925.43	1199.84
20	1042.14	1162.52	503.71
30	484.38	490.56	289.43
40	290.12	288.47	192.72
50	205.85	195.06	129.99
60	141.94	131.76	66.42
70	87.53	80.36	30.2
80	40.76	32.24	6.95
90	8.58	7.82	0.96
100	1.5	0.81	0.87
110	1.23	1.3	2.24
120	2.28	1.74	3.17
130	3.04	2.22	4.69

Luminaire KH FEELUX

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## Luminous Flux Table

Total Lamp Lumens: 1539.7

Luminaire Efficiency (lm/W): 80.02

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	66.28	66.28	4.30	4.30
10	391.74	458.02	29.75	29.75
20	342.28	800.30	51.98	51.98
30	220.53	1020.83	66.30	66.30
40	174.66	1195.49	77.64	77.64
50	142.46	1337.95	86.90	86.90
60	104.51	1442.46	93.68	93.69
70	61.20	1503.66	97.66	97.66
80	23.60	1527.26	99.19	99.19
90	4.87	1532.13	99.51	99.51
100	1.47	1533.60	99.60	99.60
110	1.85	1535.46	99.72	99.72
120	2.48	1537.94	99.89	99.89
130	1.75	1539.69	100.00	100.00

Luminaire KH FEELUX

Lamp

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Current (A)

0.805Operator

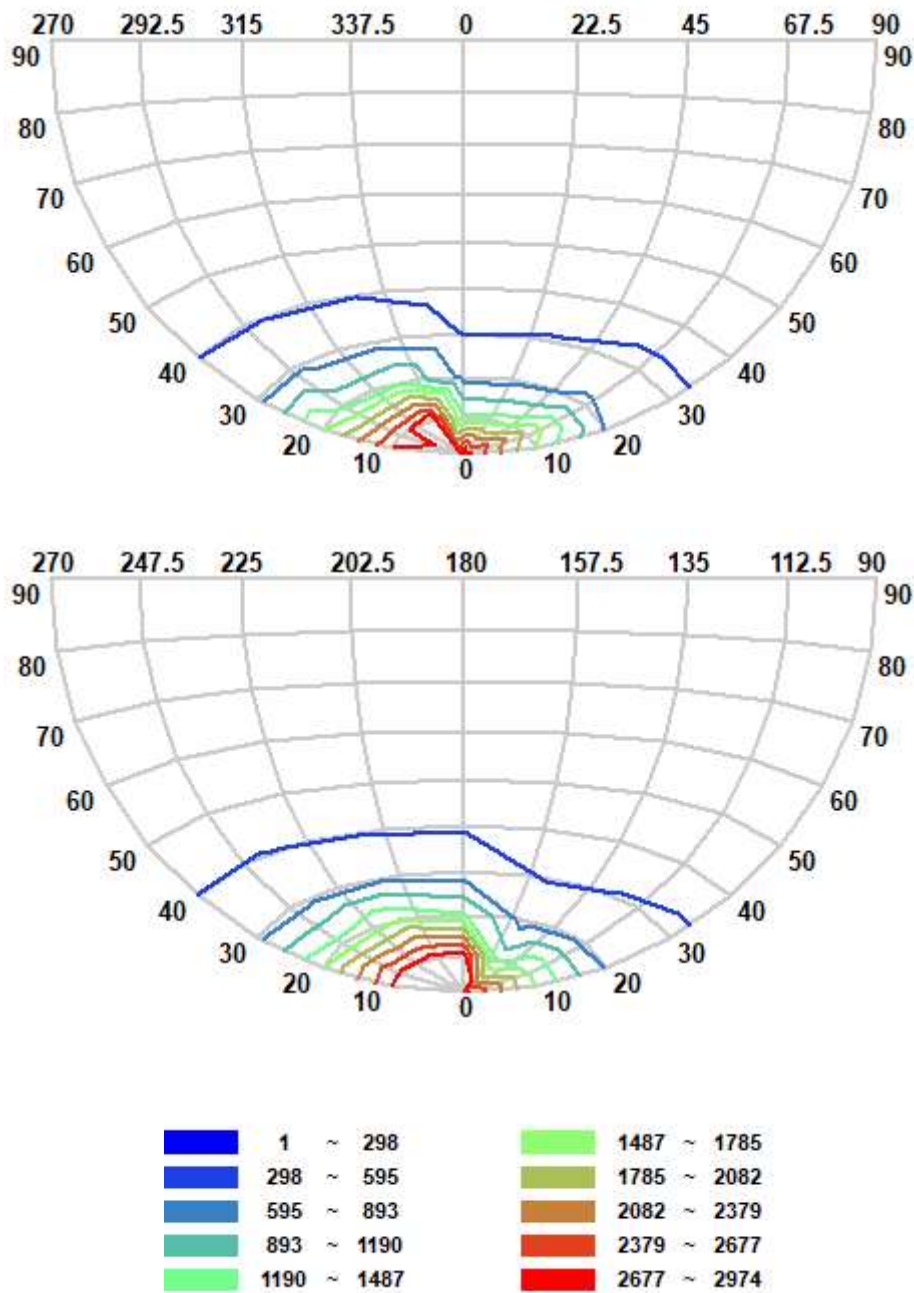
Total flux (lm) 1540

Power Factor

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## IsoCandela (Type C)





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Current (A)

0.805Operator

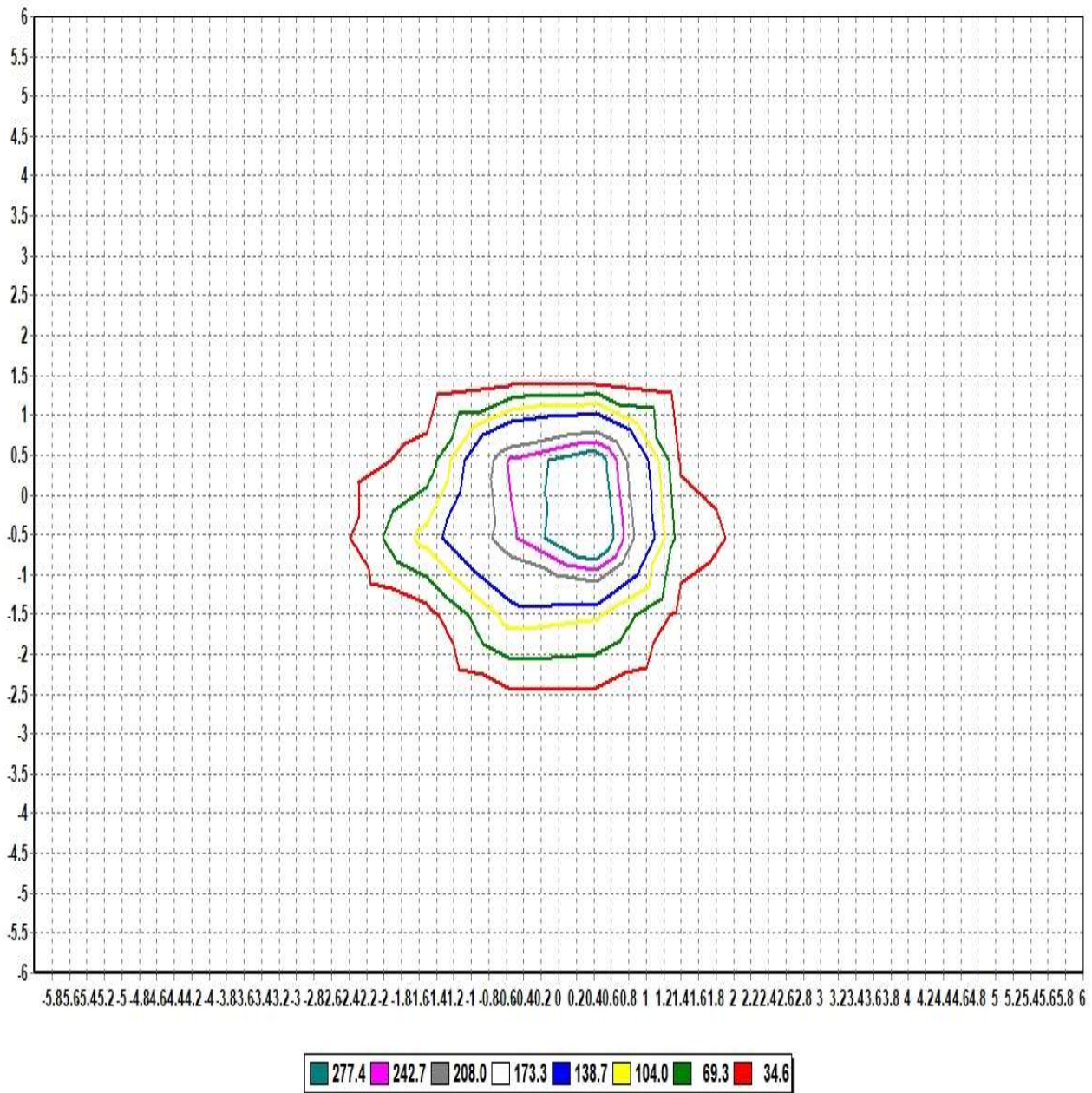
Total flux (lm) 1540

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

230804

No. of lamps 1

Voltage (V)

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Lamp flux (lm) 1540

Current (A)

0.805Operator

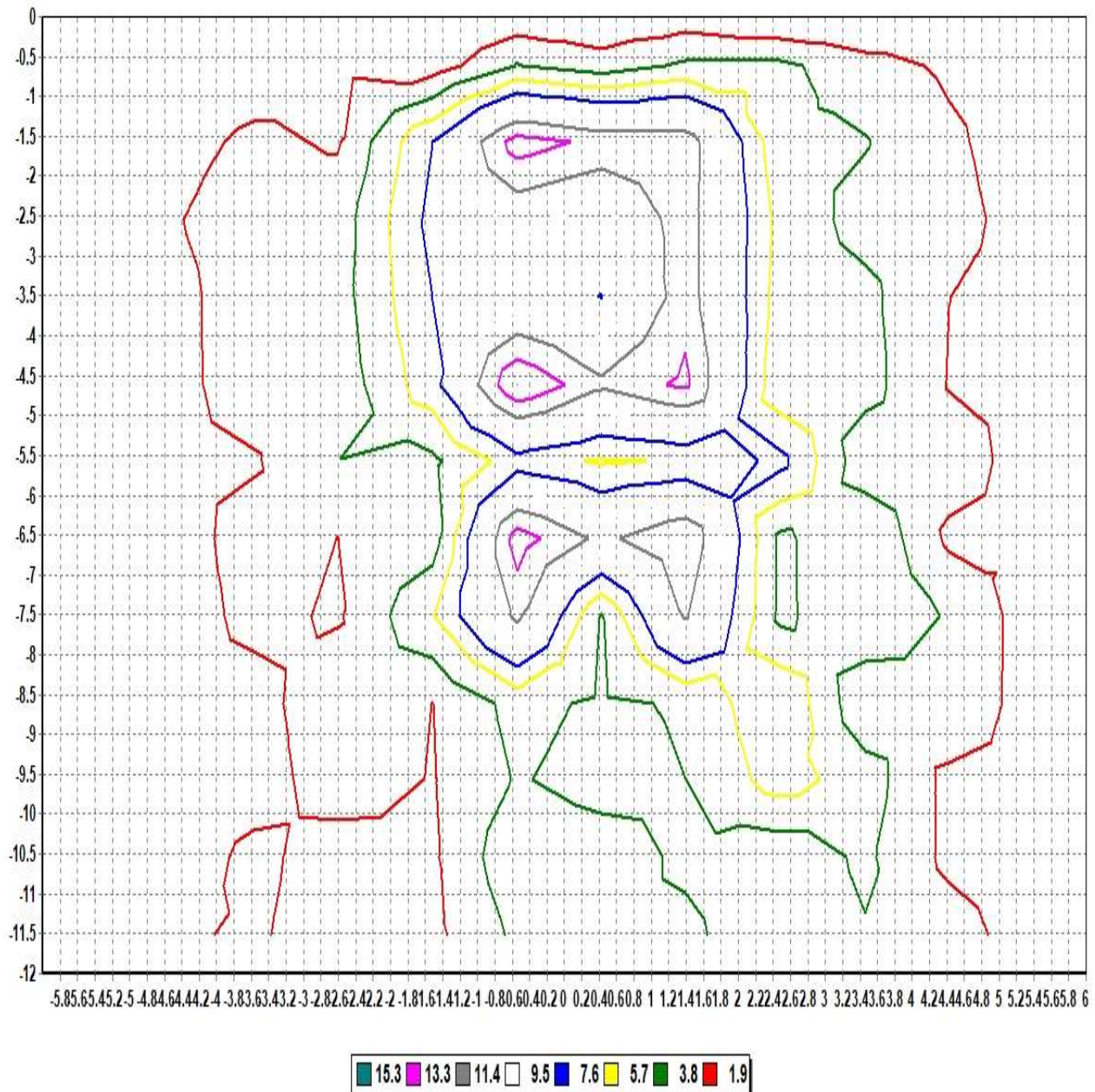
Total flux (lm) 1540

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)	23.899
Lamp flux (lm)	1540	Current (A)	0.8051
Total flux (lm)	1540	Power Factor	1

Report

230804

Filename 230804 FNL 3D 30K-24V-C90-1M-20D.jdt

Operator

Date

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## Illuminance Levels (Ground)

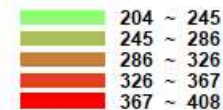
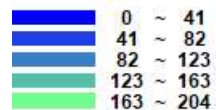
6.00	0.33	0.47	0.32	0.38	0.51	0.63	0.72	0.65	0.44	0.31	0.28	0.41	0.24
5.00	0.34	0.32	0.52	0.80	1.62	2.03	2.23	2.06	1.51	0.71	0.45	0.22	0.32
4.00	0.18	0.34	1.41	2.18	1.87	2.69	3.11	2.71	1.69	2.06	1.17	0.34	0.19
3.00	0.35	0.47	1.78	2.39	5.93	5.79	7.08	5.49	5.88	1.88	1.79	0.49	0.30
2.00	0.41	1.50	1.78	4.98	7.95	13.52	18.50	13.00	7.06	5.13	1.63	1.42	0.38
1.00	0.63	2.07	2.57	5.30	13.24	35.97	160.00	33.28	12.77	5.14	2.74	2.21	0.76
0.00	0.79	2.50	3.45	8.17	24.14	305.96	407.94	133.18	16.11	5.85	2.21	1.76	0.43
-1.00	0.50	1.88	2.49	7.18	18.62	66.69	298.05	64.69	18.62	7.74	2.65	1.98	0.57
-2.00	0.70	2.06	2.54	7.29	9.98	18.80	26.66	18.69	10.81	7.66	2.80	2.24	0.84
-3.00	0.57	0.89	2.54	2.95	7.95	7.55	9.32	7.94	7.95	3.43	2.75	1.07	0.69
-4.00	0.37	0.63	1.73	2.82	2.59	3.75	4.20	3.73	2.84	2.93	1.98	0.78	0.50
-5.00	0.56	0.43	0.79	1.14	2.14	2.74	2.94	2.73	2.29	1.28	0.90	0.62	0.62
-6.00	0.42	0.63	0.52	0.60	0.78	1.07	1.16	1.03	0.91	0.71	0.61	0.69	0.51
-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.) : 407.94

Illum. (Min.) : 0.1782

Illum. (Avg.) : 12.195

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

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0.805Operator

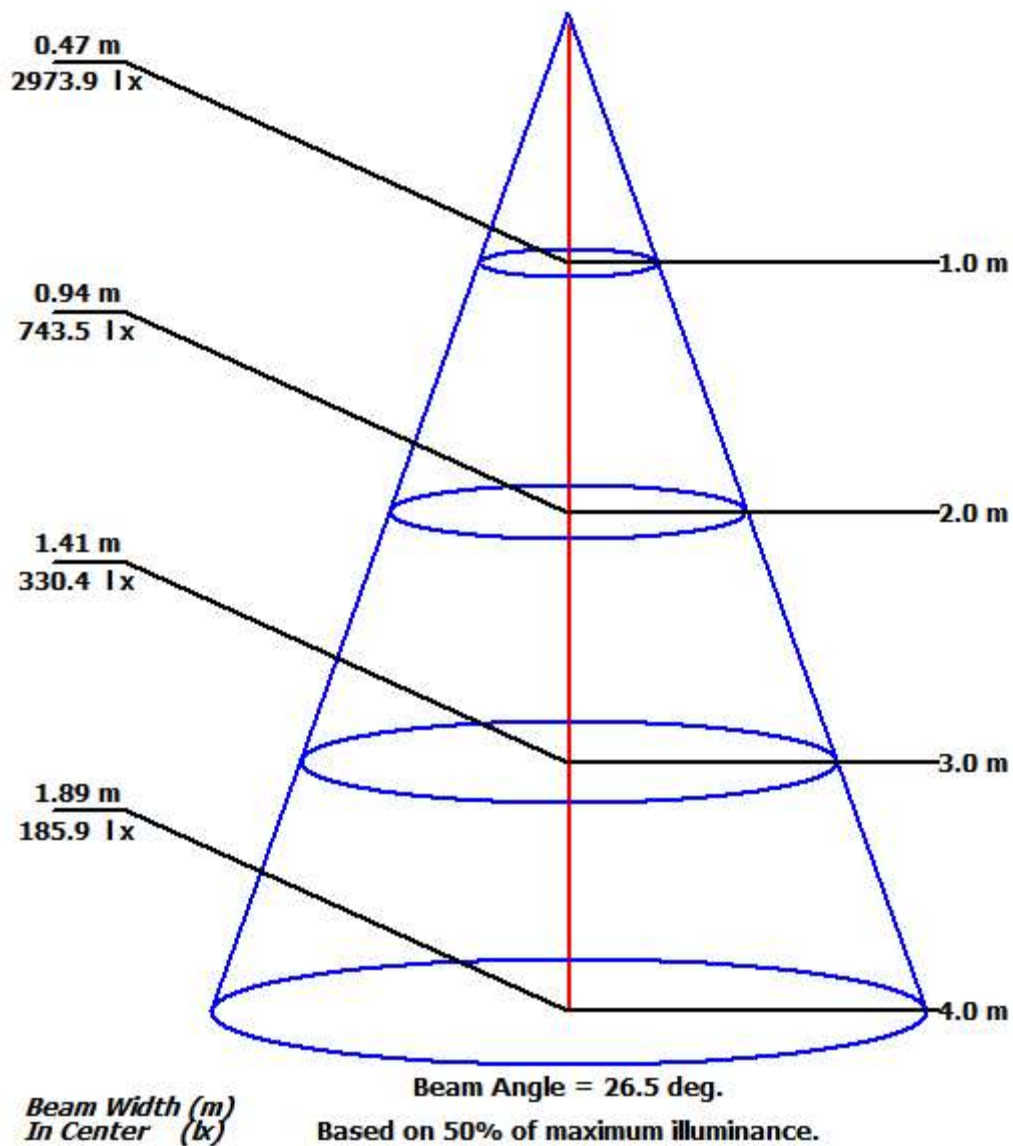
Total flux (lm) 1540

Power Factor

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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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230804

No. of lamps 1 Voltage (V) 23.899

Filename 230804 FNL 3D 30K-24V-C90-1M-20D.jdt

Lamp flux (lm) 1540 Current (A) 0.8051

Operator

Total flux (lm) 1540 Power Factor 1

Date 2023-08-04 오전 11:11:32

## 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