

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84  
\* Date of Receipt : 230508

**2. Purpose of Report :**

**3. Number of Report :** 230508

**4. Test Standard / Item :** / FNL3D-27K-C90-45도-1m

**5. Test Period :** 230508 ~ 230508

**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	
	PKW	Sign	PKW	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
230508			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4684 , 0.4186	
Correlated Color Temperature	K	2645	
Ra		91.43	
Power Factor		1.000	
Input Voltage	V	23.910	
Input Current	A	0.763	
Input Watt	W	18.241	
Lamp Flux	lm	1459.4	
Efficient	lm/W	80.01	
luminous Intensity (Max , Center)	cd	1804 , 1804	
Illuminance	lx	1804	1 m
		451	2 m
		200	3 m

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

\* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp

Report

230508

No. of lamps 1

Voltage (V) 23.91

Filename FNL3D-27K-C90-45도-1m.jdt

Lamp flux (lm) 1459

Current (A) 0.7629

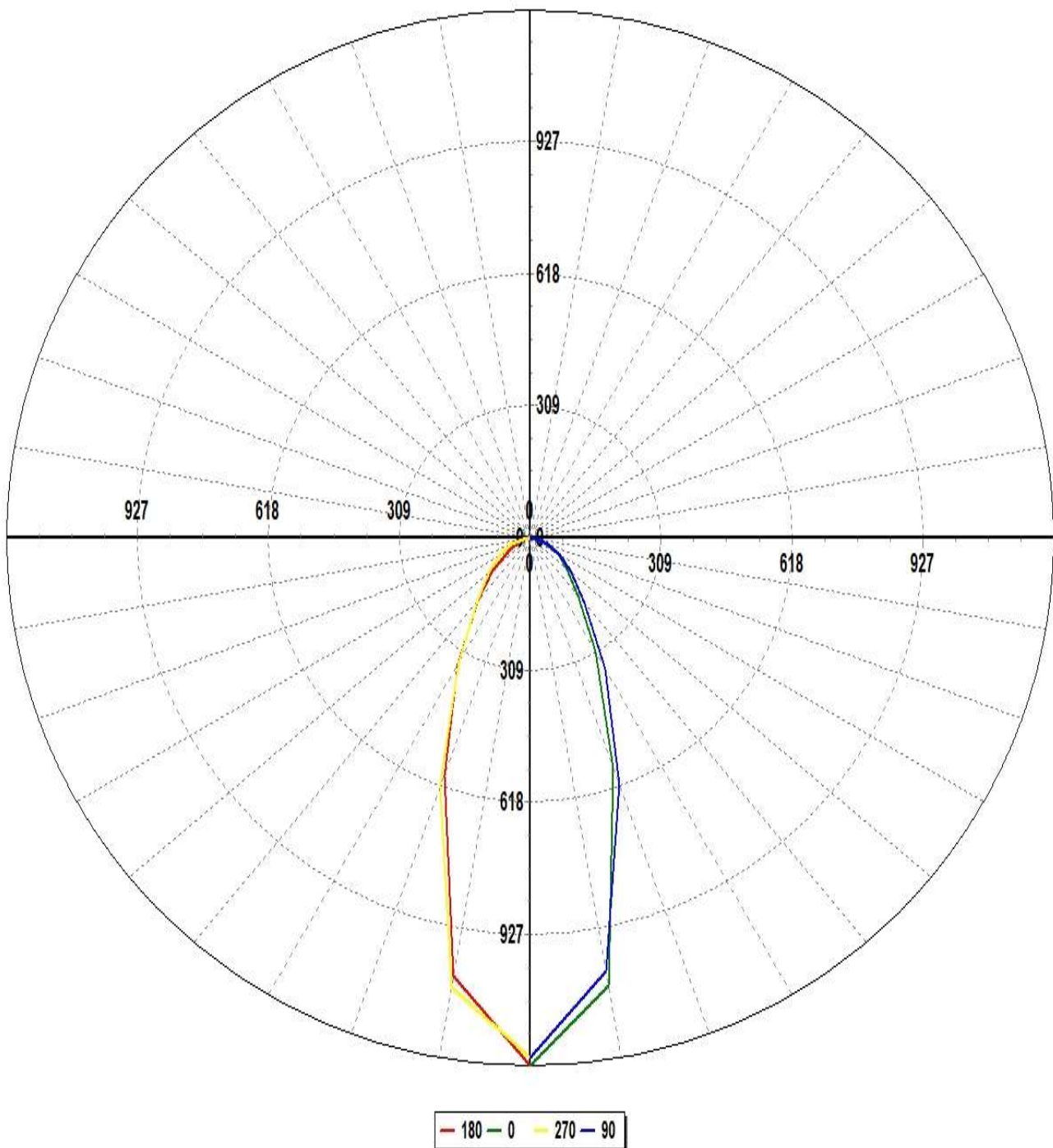
Operator

Total flux (lm) 1459

Power Factor 1

Date 2023-05-08 오후 5:31:29

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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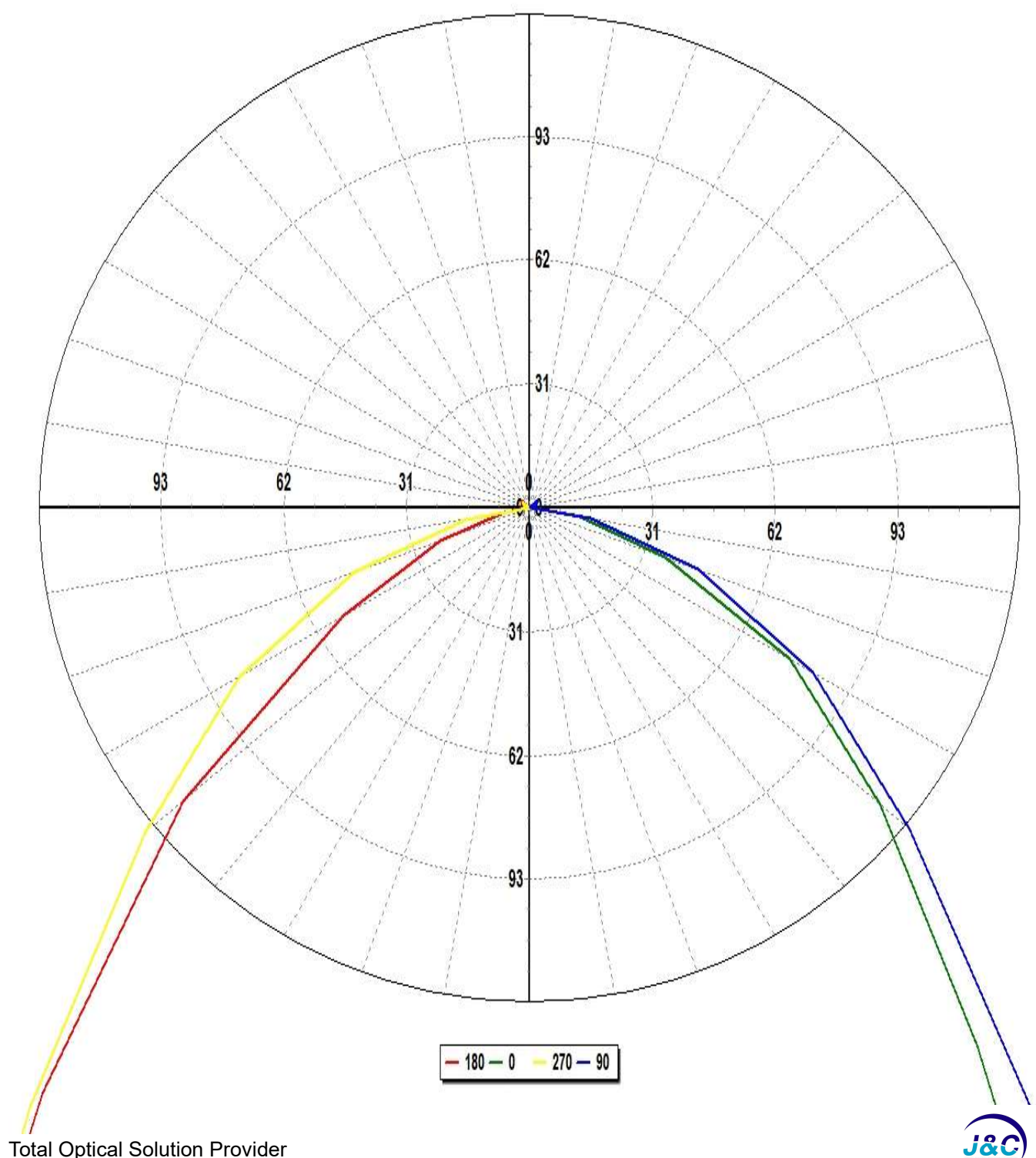
Operator

Total flux (lm) 1459

Power Factor 1

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## Luminous Intensity Distribution (Lowest 10%)



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## Luminous Intensity Data

Maximum (cd) : 1804

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1803.82	1790.43	1779.05	1774.91	1771.41	1771.3	1803.82	1790.43	1779.05	1774.91
10	1552.59	1449.67	1587.5	1504.68	1601.31	1463.13	1520.31	1604.6	1471.35	1559
20	840.25	811.46	925.23	897.58	946.17	831.25	866.1	915.63	857.73	903.78
30	448.43	459.56	498.77	516.48	511.97	472.27	496.47	498.41	495.28	492.75
40	256.67	260.29	281.5	288.02	286.06	266.6	278.81	281.83	284.36	285.64
50	168.47	169.08	180.49	182.57	180.12	169.27	166.32	180.83	183.01	184.7
60	110.71	111.16	118.53	120.57	114.58	89.2	78.91	98.92	118.53	123.2
70	53.02	59.21	64.71	66.05	57.94	36.24	35.01	40.44	59.81	68.57
80	18.89	19.27	23.52	22.79	15.6	9.85	9.38	11.16	17.6	23.67
90	1.38	3.13	3.18	0.77	1.81	0.41	0.8	1.71	1.92	0.08
100	1.08	0.7	1.58	1.06	0.99	0.79	1.44	0.69	0.52	0.65
110	1.1	1.49	1.93	1.99	1.34	2.11	1.65	1.52	1.5	1.96
120	2.32	2.49	1.41	2.33	2.6	2.46	2.7	2.25	2.39	2.26
130	4.24	4.08	3.21	3.88	3.32	3.35	4.03	3.61	2.94	3.42

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## Luminous Intensity Data (Continued)

Maximum (cd) : 1804

Minimum (cd) : 0

G/C	300	330	360
0	1771.41	1771.3	1803.82
10	1439.16	1563.95	1552.59
20	826.83	870.85	840.25
30	475.3	469.97	448.43
40	275.3	269.42	256.67
50	181.84	175.59	168.47
60	120.5	116.92	110.71
70	65.67	63.99	53.02
80	23.49	22.7	18.89
90	2.23	2.77	1.38
100	1.04	0	1.08
110	1.69	1.32	1.1
120	2.14	2.51	2.32
130	4.18	3.85	4.24

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## Luminous Flux Table

Total Lamp Lumens: 1459.4

Luminaire Efficiency (lm/W): 80.01

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	42.60	42.60	2.92	2.92
10	290.31	332.91	22.81	22.81
20	327.54	660.45	45.26	45.25
30	266.31	926.76	63.50	63.50
40	194.45	1121.21	76.83	76.82
50	148.38	1269.59	86.99	86.99
60	104.47	1374.06	94.15	94.15
70	57.52	1431.58	98.09	98.09
80	19.59	1451.17	99.44	99.43
90	1.84	1453.02	99.56	99.56
100	0.95	1453.96	99.63	99.62
110	1.68	1455.64	99.74	99.74
120	2.20	1457.85	99.89	99.89
130	1.60	1459.45	100.00	100.00

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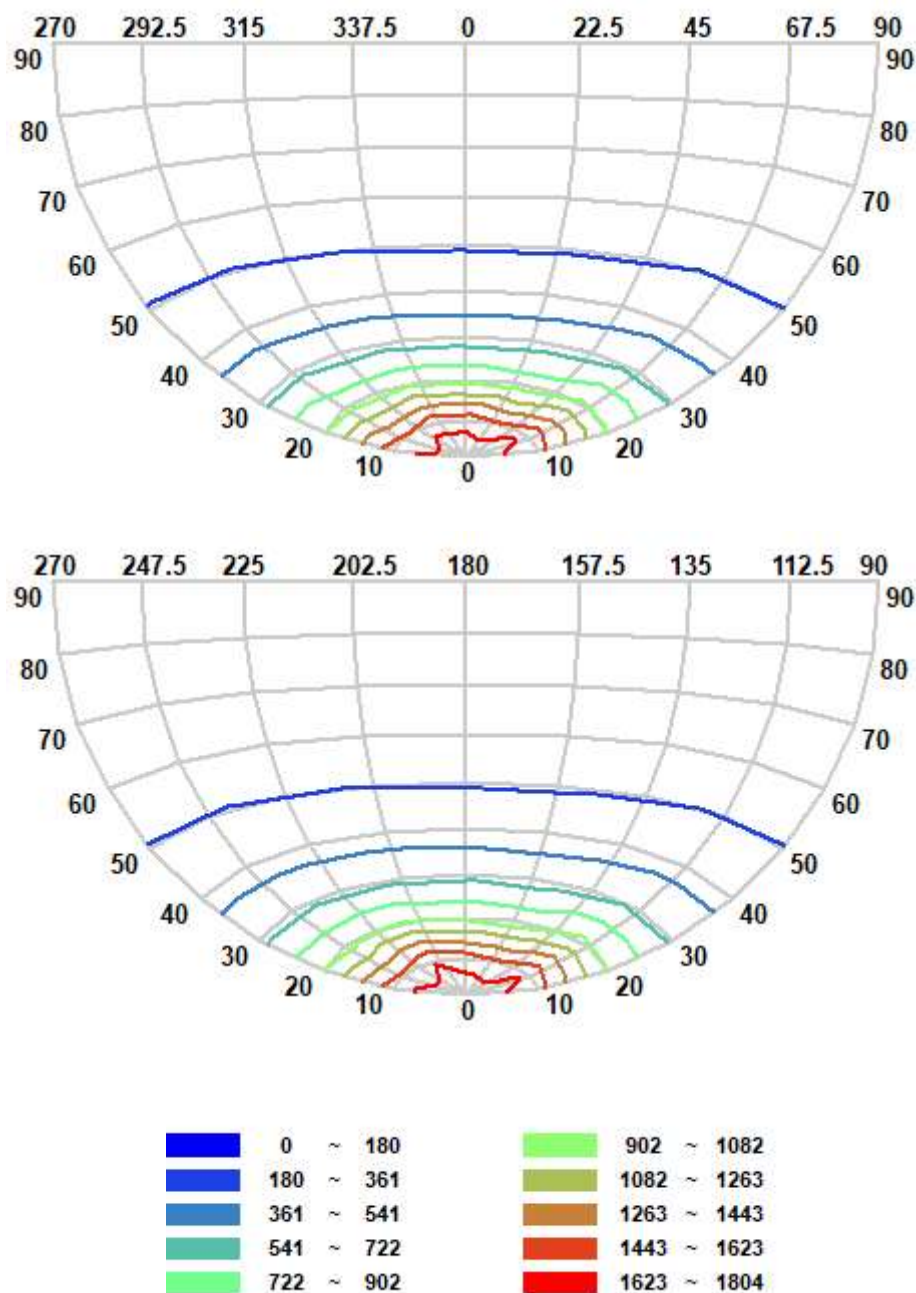
Operator

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Power Factor 1

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## IsoCandela (Type C)





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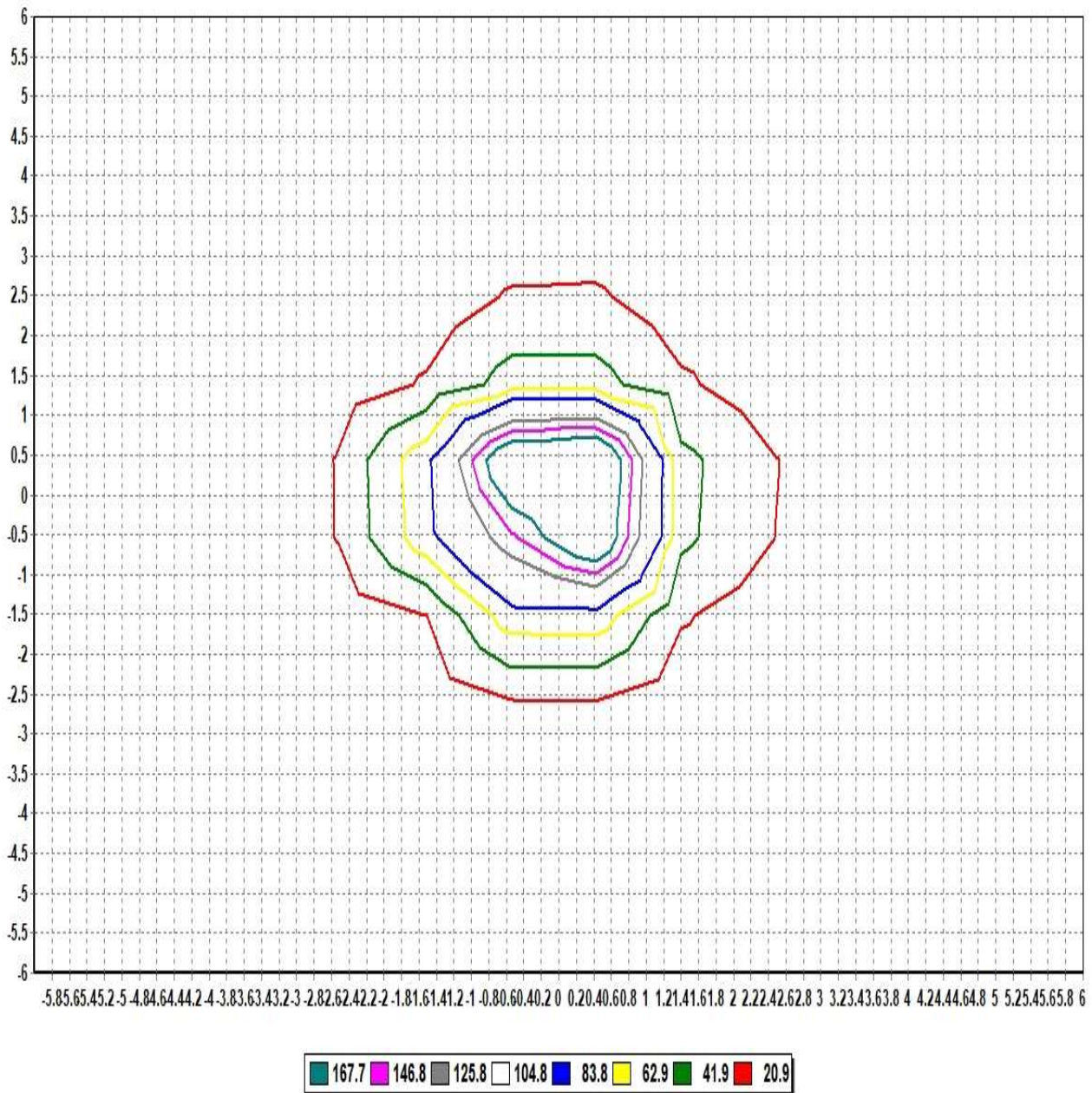
Operator

Total flux (lm) 1459

Power Factor 1

Date 2023-05-08 오후 5:31:29

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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Voltage (V) 23.91

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Lamp flux (lm) 1459

Current (A) 0.7629

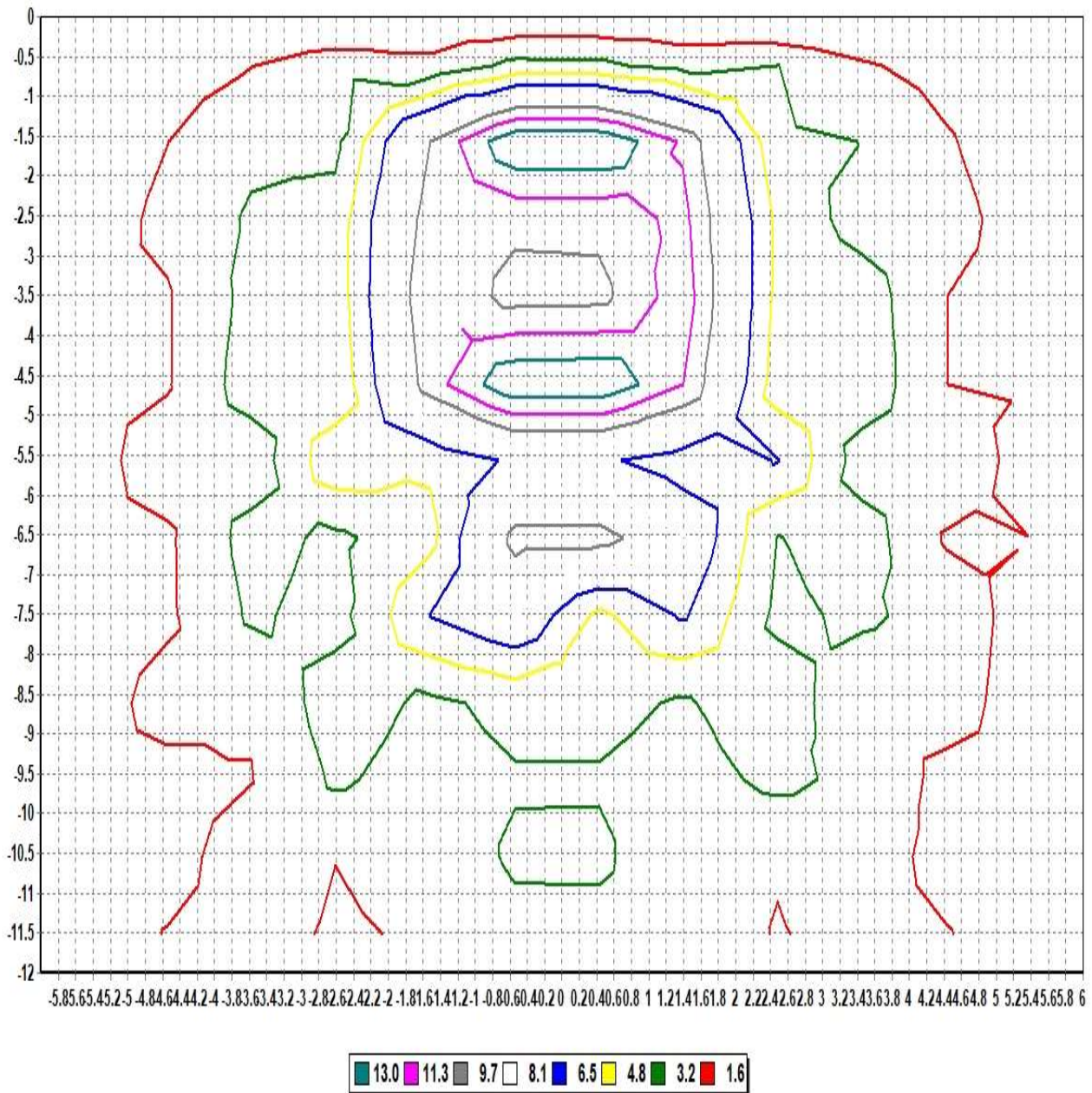
Operator

Total flux (lm) 1459

Power Factor 1

Date 2023-05-08 오후 5:31:29

## 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)	23.91
Lamp flux (lm)	1459	Current (A)	0.7629
Total flux (lm)	1459	Power Factor	1

Report 230508

Filename FNL3D-27K-C90-45도-1m.jdt

Operator

Date 2023-05-08 오후 5:31:29

## Illuminance Levels (Ground)

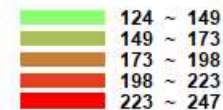
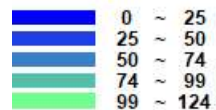
6.00	0.40	0.54	0.40	0.50	0.65	0.79	0.84	0.80	0.65	0.50	0.40	0.53	0.37
5.00	0.44	0.42	0.64	0.94	1.96	2.37	2.54	2.37	1.88	0.92	0.63	0.38	0.51
4.00	0.25	0.47	1.67	2.53	2.32	3.14	3.49	3.15	2.25	2.47	1.57	0.57	0.34
3.00	0.47	0.64	2.34	2.83	7.51	6.99	8.36	6.69	7.30	2.66	2.34	0.83	0.49
2.00	0.55	1.90	2.26	7.02	9.94	18.46	26.14	16.93	9.11	6.77	2.23	1.85	0.61
1.00	0.49	2.10	2.50	6.80	18.30	58.19	167.99	51.64	16.74	6.51	2.99	2.26	0.75
0.00	0.51	2.24	2.74	7.75	25.22	169.58	247.44	173.02	23.01	7.64	3.22	2.34	0.73
-1.00	0.51	2.12	2.51	6.78	18.14	56.27	173.96	54.72	17.67	6.91	2.98	2.23	0.72
-2.00	0.46	1.84	2.01	7.21	9.61	18.18	25.45	17.79	9.89	7.10	2.40	1.97	0.68
-3.00	0.36	0.58	2.29	2.33	7.44	7.01	8.41	7.05	7.46	2.91	2.46	0.91	0.54
-4.00	0.23	0.41	1.49	2.52	2.09	3.19	3.55	3.18	2.42	2.56	1.71	0.64	0.40
-5.00	0.39	0.26	0.57	0.89	1.92	2.40	2.57	2.39	2.00	0.97	0.67	0.45	0.54
-6.00	0.29	0.51	0.36	0.39	0.55	0.80	0.87	0.78	0.70	0.55	0.42	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.) : 247.44

Illum. (Min.) : 0.2252

Illum. (Avg.) : 10.361

All illuminance level values are in lux.





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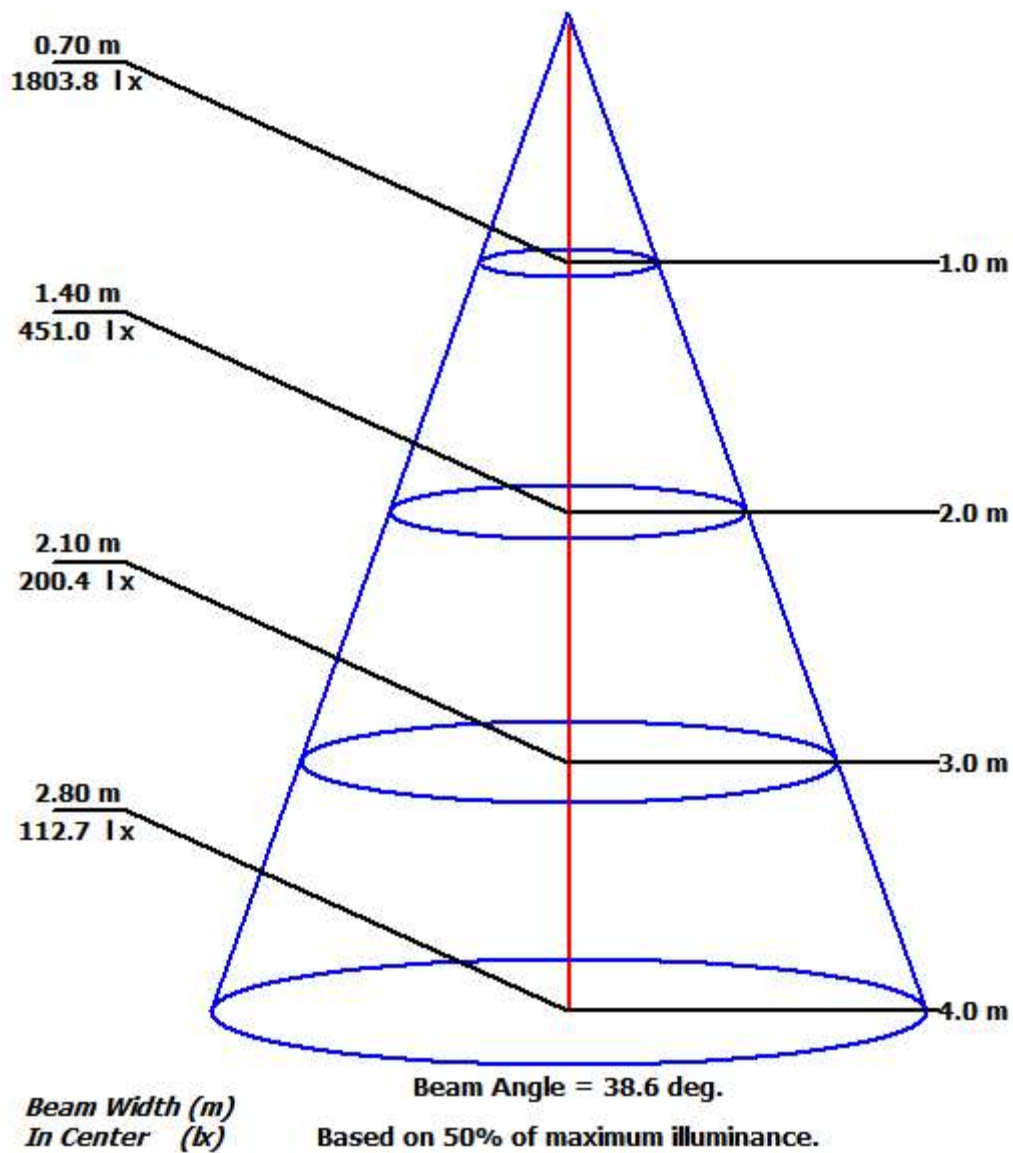
Operator

Total flux (lm) 1459

Power Factor 1

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## Illuminance Cone Diagram



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Operator

Total flux (lm) 1459 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