

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84  
\* Date of Receipt : 230804

**2. Purpose of Report :**

**3. Number of Report :** 230804

**4. Test Standard / Item :** / 230804 FNL 3D 30K-24V-C90-1M-35D

**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 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
230804			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4419 , 0.4062	
Correlated Color Temperature	K	2934	
Ra		91.26	
Power Factor		1.000	
Input Voltage	V	23.902	
Input Current	A	0.803	
Input Watt	W	19.186	
Lamp Flux	lm	1540.4	
Efficient	lm/W	80.29	
luminous Intensity (Max , Center)	cd	2057 , 2053	
Illuminance	lx	2053	1 m
		513	2 m
		228	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)

23.90Filename 230804 FNL 3D 30K-24V-C90-1M-35D.jdt

Lamp flux (lm) 1540

Current (A)

0.802Operator

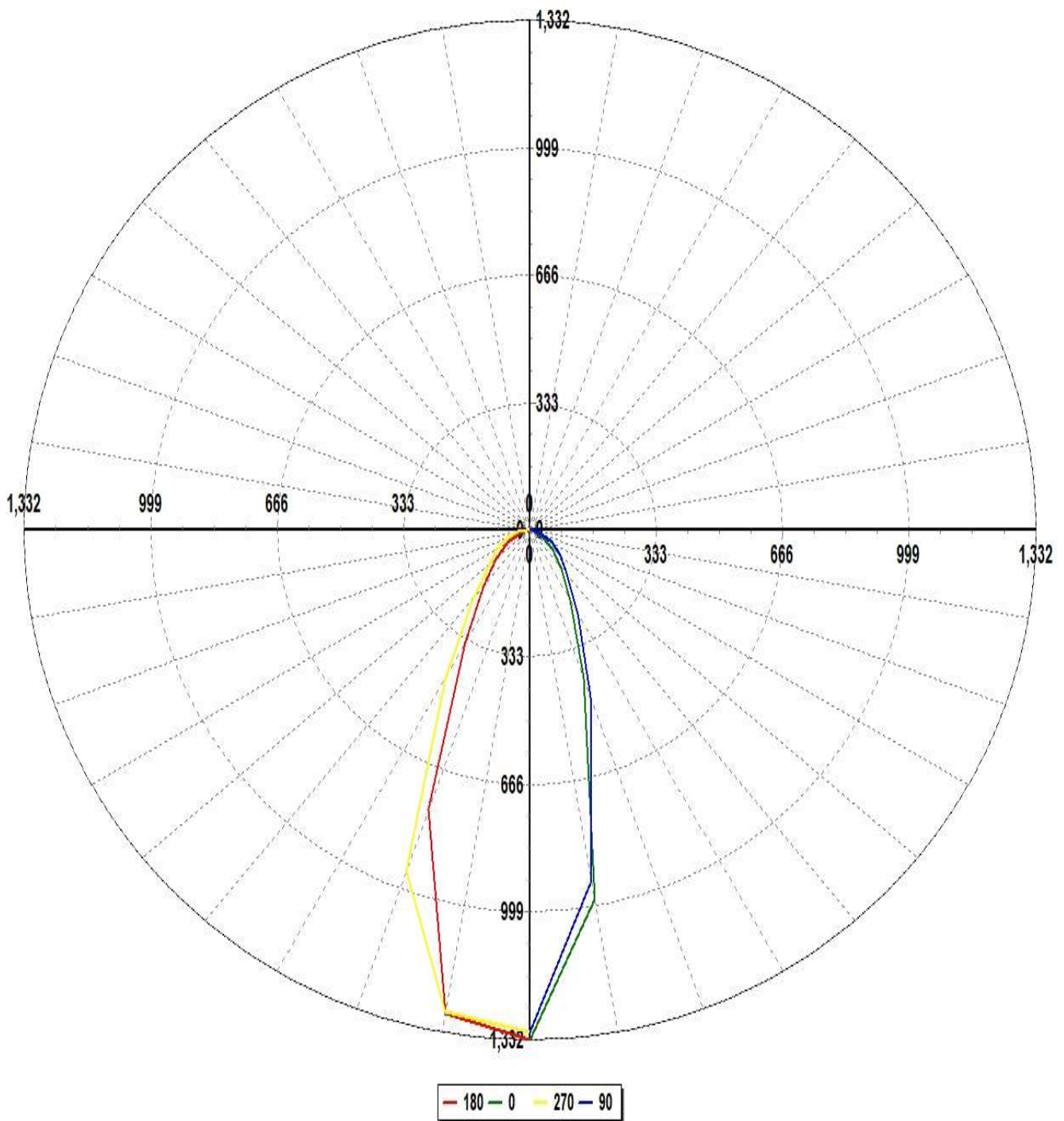
Total flux (lm) 1540

Power Factor

Date

2023-08-04 오전 11:59:48

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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Current (A)

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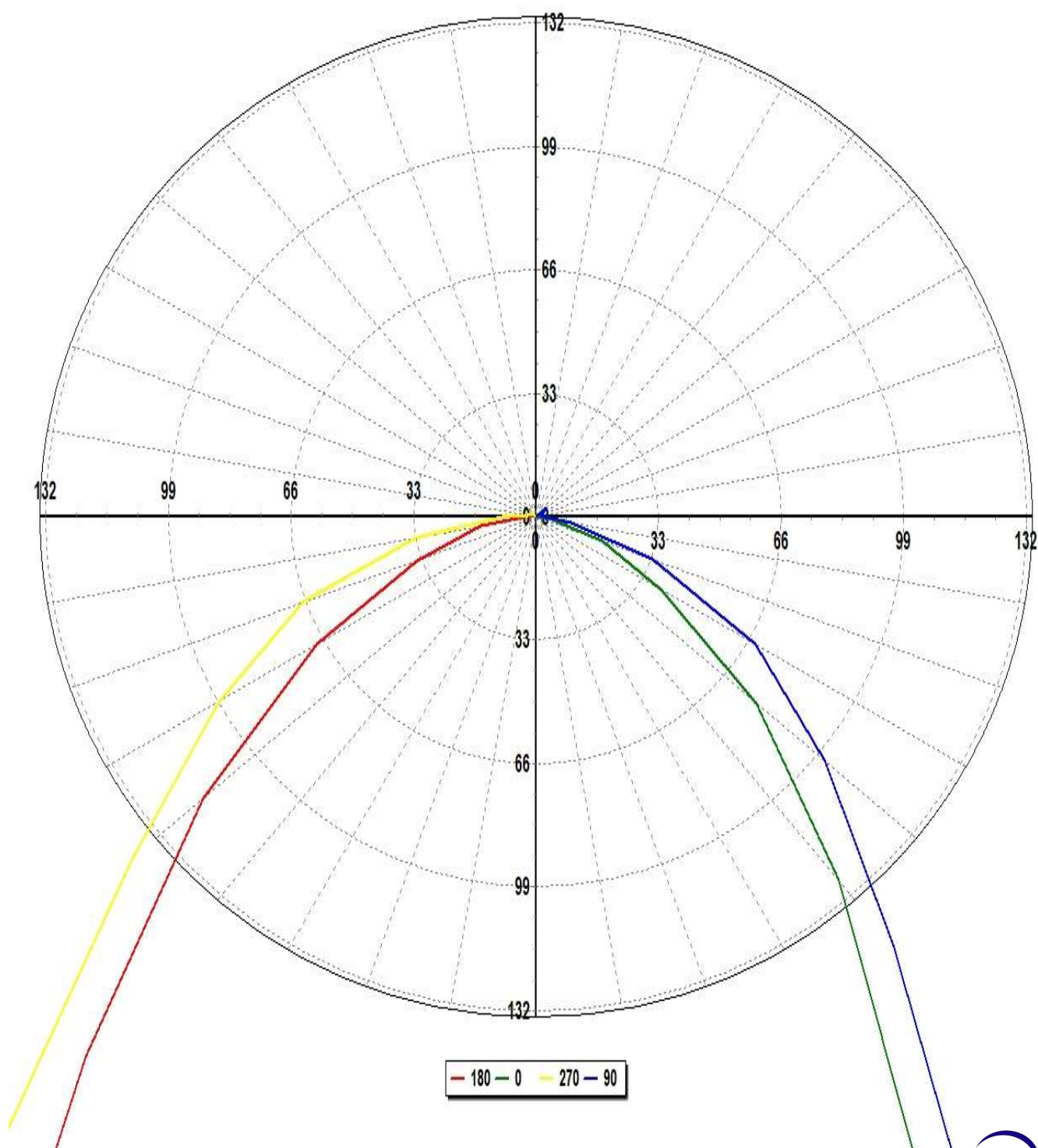
Total flux (lm) 1540

Power Factor

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## Luminous Intensity Distribution (Lowest 10%)



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Current (A)

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Total flux (lm) 1540

Power Factor

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## Luminous Intensity Data

Maximum (cd) : 2057

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	2053.46	2056.62	2056.34	2023.69	1972.93	1895.06	2053.46	2056.62	2056.34	2023.69
10	1507	1379.68	1610.34	1434.48	1476.83	1073.94	1976.98	1971.14	1957.9	1969.5
20	634.24	623.67	752.74	718.34	679.55	550.73	1201.83	1391.73	1269.51	1465.14
30	322.76	340.12	381.96	388.16	349.64	290.09	525.73	589.83	596.69	686.6
40	195.51	204.48	226.37	230.79	213.23	182.63	290.31	306.1	333.71	355.4
50	119.37	133.05	151.21	156.17	141.44	114.19	180.15	189.56	206.91	218.58
60	59.71	70.04	94.39	104.9	88.37	55.85	105.18	121.96	139.96	151.79
70	29.23	32.98	44.15	51.52	38.83	24.03	52.38	61.08	86.63	102.89
80	7.12	9.35	11.85	14.89	10.1	4.83	23.16	26.87	39.7	50.68
90	0.66	1.62	3.04	3.59	1.85	0.73	4.34	5.81	10.11	14.03
100	1.14	1.17	1.35	2.04	1.32	2.14	0.23	1.26	2.11	3.37
110	2.6	2.31	1.95	2.23	1.84	2.35	1.47	1.38	1.96	2.3
120	2.98	2.88	3.72	3.73	3.32	3.64	1.33	2.59	2.39	2.46
130	4.67	5.07	4.03	5.25	4.94	5.75	3.25	2.67	3.73	3.14

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0.802Operator

Total flux (lm) 1540

Power Factor

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## Luminous Intensity Data (Continued)

Maximum (cd) : 2057

Minimum (cd) : 0

G/C	300	330	360
0	1972.93	1895.06	2053.46
10	1967.66	1993.43	1507
20	1327.7	1509.57	634.24
30	625.15	656.96	322.76
40	347.36	336.21	195.51
50	214.56	204.47	119.37
60	145.84	134.73	59.71
70	91.15	72.21	29.23
80	42.91	33.1	7.12
90	11.7	9.75	0.66
100	2.23	0.91	1.14
110	1.4	0.81	2.6
120	1.81	1.71	2.98
130	3.91	2.84	4.67

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## Luminous Flux Table

Total Lamp Lumens: 1540.4

Luminaire Efficiency (lm/W): 80.29

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	48.05	48.05	3.12	3.12
10	322.03	370.08	24.02	24.02
20	378.49	748.56	48.60	48.59
30	262.57	1011.13	65.64	65.64
40	189.03	1200.16	77.91	77.91
50	141.91	1342.07	87.12	87.12
60	100.60	1442.67	93.66	93.65
70	58.93	1501.59	97.48	97.48
80	24.68	1526.27	99.08	99.08
90	6.13	1532.41	99.48	99.48
100	1.73	1534.14	99.59	99.59
110	1.94	1536.08	99.72	99.72
120	2.57	1538.65	99.89	99.88
130	1.78	1540.43	100.00	100.00



Luminaire KH FEELUX

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Current (A)

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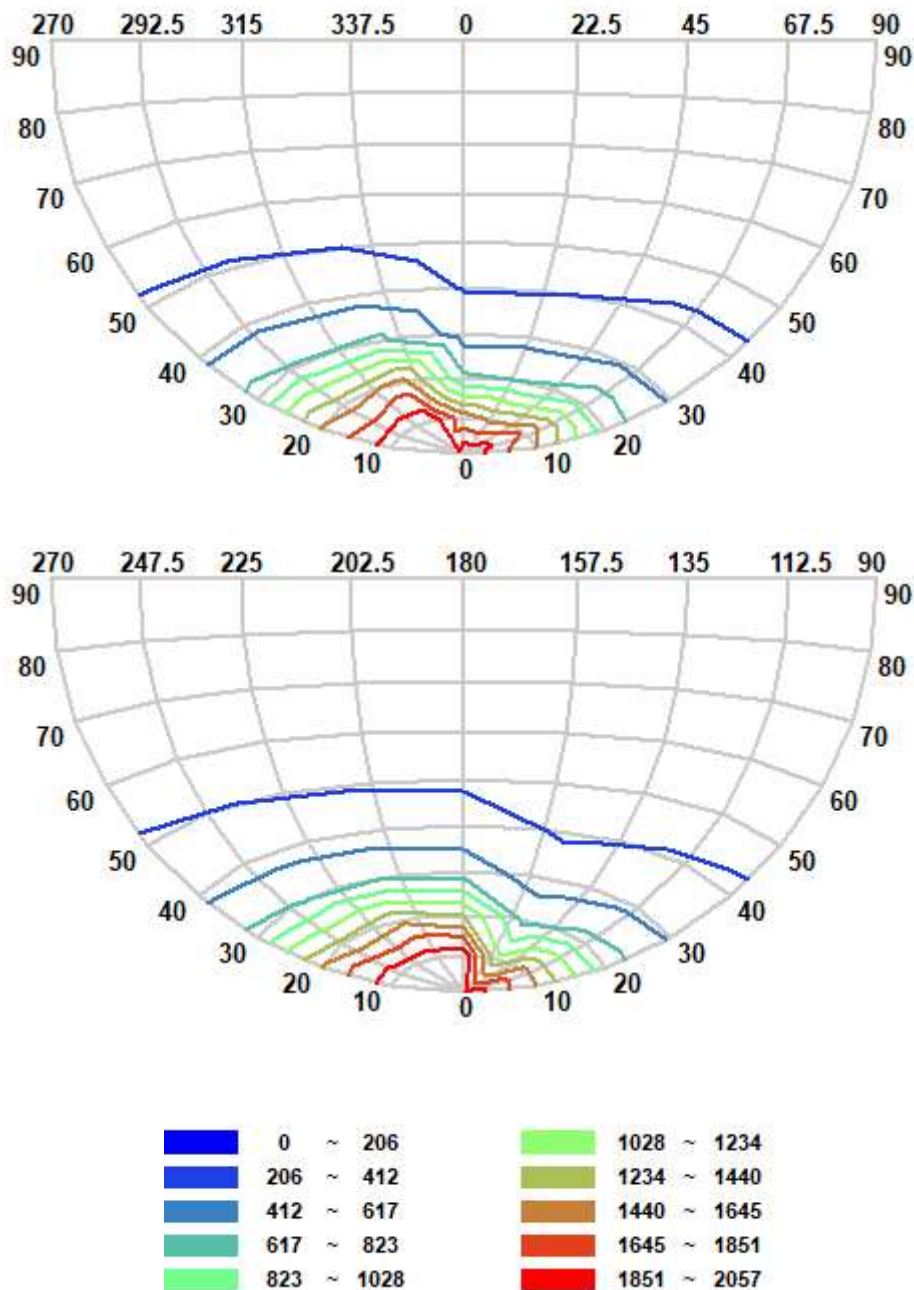
Total flux (lm) 1540

Power Factor

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## IsoCandela (Type C)





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Lamp flux (lm) 1540

Current (A)

0.802Operator

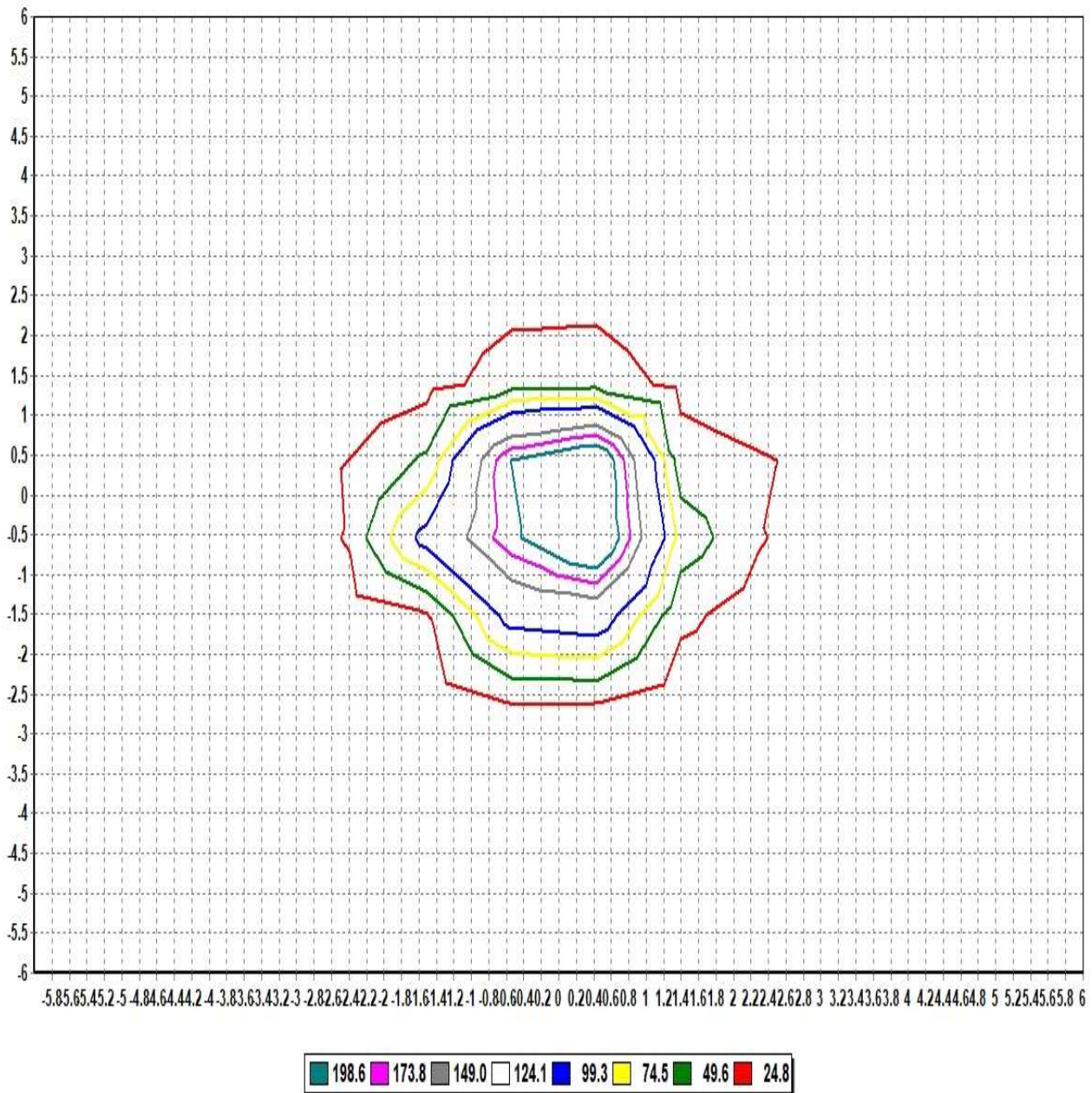
Total flux (lm) 1540

Power Factor

Date

2023-08-04 오전 11:59:48

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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No. of lamps 1

Voltage (V)

23.90Filename 230804 FNL 3D 30K-24V-C90-1M-35D.jdt

Lamp flux (lm) 1540

Current (A)

0.802Operator

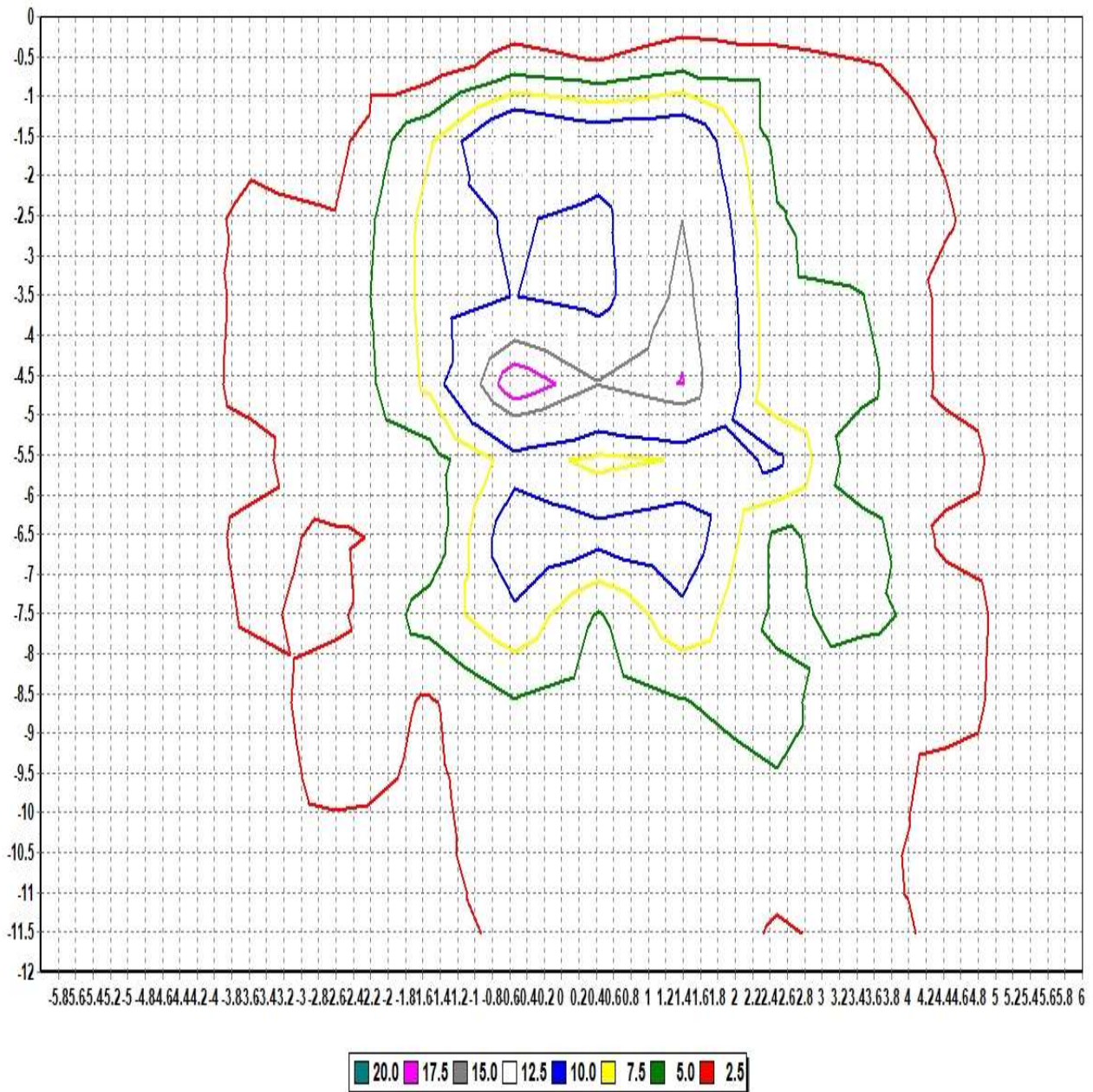
Total flux (lm) 1540

Power Factor

Date

2023-08-04 오전 11:59:48

## 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

230804

No. of lamps

1

Voltage (V)

23.902

Filename 230804 FNL 3D 30K-24V-C90-1M-35D.jdt

Lamp flux (lm)

1540

Current (A)

0.8027

Operator

Total flux (lm)

1540

Power Factor

1

Date

2023-08-04 오전 11:59:48

## Illuminance Levels (Ground)

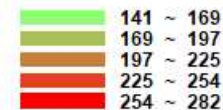
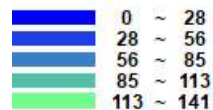
6.00	0.32	0.45	0.31	0.36	0.50	0.61	0.70	0.64	0.42	0.30	0.27	0.39	0.22
5.00	0.30	0.31	0.51	0.78	1.58	1.99	2.17	2.01	1.45	0.69	0.44	0.21	0.29
4.00	0.16	0.31	1.37	2.12	1.82	2.63	3.01	2.65	1.51	2.02	1.08	0.32	0.19
3.00	0.33	0.41	1.64	2.33	6.06	5.66	7.02	5.39	5.91	1.70	1.66	0.45	0.28
2.00	0.39	1.43	1.72	4.86	7.93	13.81	20.31	13.29	6.92	5.10	1.44	1.34	0.35
1.00	0.56	1.98	2.34	5.05	13.45	42.59	159.65	38.29	13.06	4.93	2.72	2.23	0.73
0.00	0.71	2.47	3.25	8.30	26.48	220.80	281.68	167.28	17.06	5.52	2.01	1.61	0.40
-1.00	0.44	1.76	2.26	7.19	19.71	69.78	220.94	79.17	22.34	8.16	2.61	1.94	0.54
-2.00	0.63	2.02	2.42	7.59	10.23	20.03	33.48	22.48	12.01	8.74	2.88	2.33	0.85
-3.00	0.51	0.80	2.51	2.79	8.58	7.59	10.09	8.36	9.19	3.51	2.88	1.05	0.71
-4.00	0.33	0.57	1.68	2.83	2.49	3.78	4.29	3.77	2.92	3.04	2.04	0.76	0.46
-5.00	0.50	0.39	0.77	1.14	2.12	2.81	3.06	2.77	2.38	1.29	0.92	0.63	0.64
-6.00	0.38	0.62	0.51	0.54	0.74	1.08	1.17	1.03	0.93	0.73	0.62	0.69	0.52
-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.) : 281.68

Illum. (Min.) : 0.1635

Illum. (Avg.) : 11.002

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 1540

Current (A)

0.802Operator

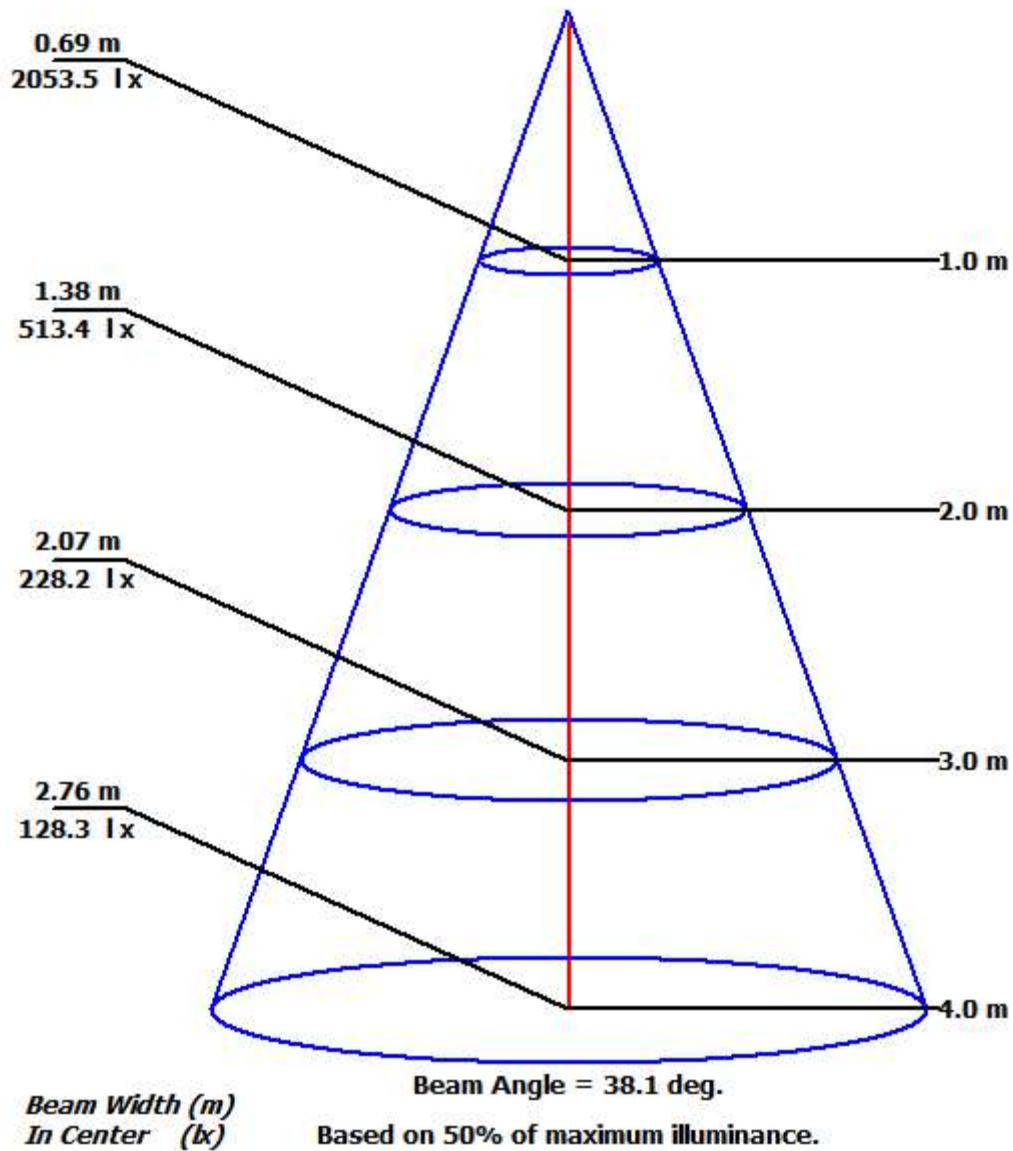
Total flux (lm) 1540

Power Factor

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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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Voltage (V) 23.902

Filename 230804 FNL 3D 30K-24V-C90-1M-35D.jdt

Lamp flux (lm) 1540

Current (A) 0.8027

Operator

Total flux (lm) 1540

Power Factor 1

Date

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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