

# 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 : 240523

**2. Purpose of Report :**

**3. Number of Report :** KH FEELUX

**4. Test Standard / Item :** / 240613 FNL 3D 35K-24V-C90-20Dx40D-1M

**5. Test Period :** 240613 ~ 240613

**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		0.4098 , 0.3892	
Correlated Color Temperature	K	3395	
Ra		93.48	
Power Factor		1.000	
Input Voltage	V	23.897	
Input Current	A	0.828	
Input Watt	W	19.781	
Lamp Flux	lm	1438.6	
Efficient	lm/W	72.73	
luminous Intensity (Max , Center)	cd	2518 , 2518	
Illuminance	lx	2518	1 m
		629	2 m
		280	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 1

Voltage (V)

Filename 240613 FNL 3D 35K-24V-C90-20Dx40D-1M.jdt

Lamp flux (lm) 1439

Current (A)

Operator

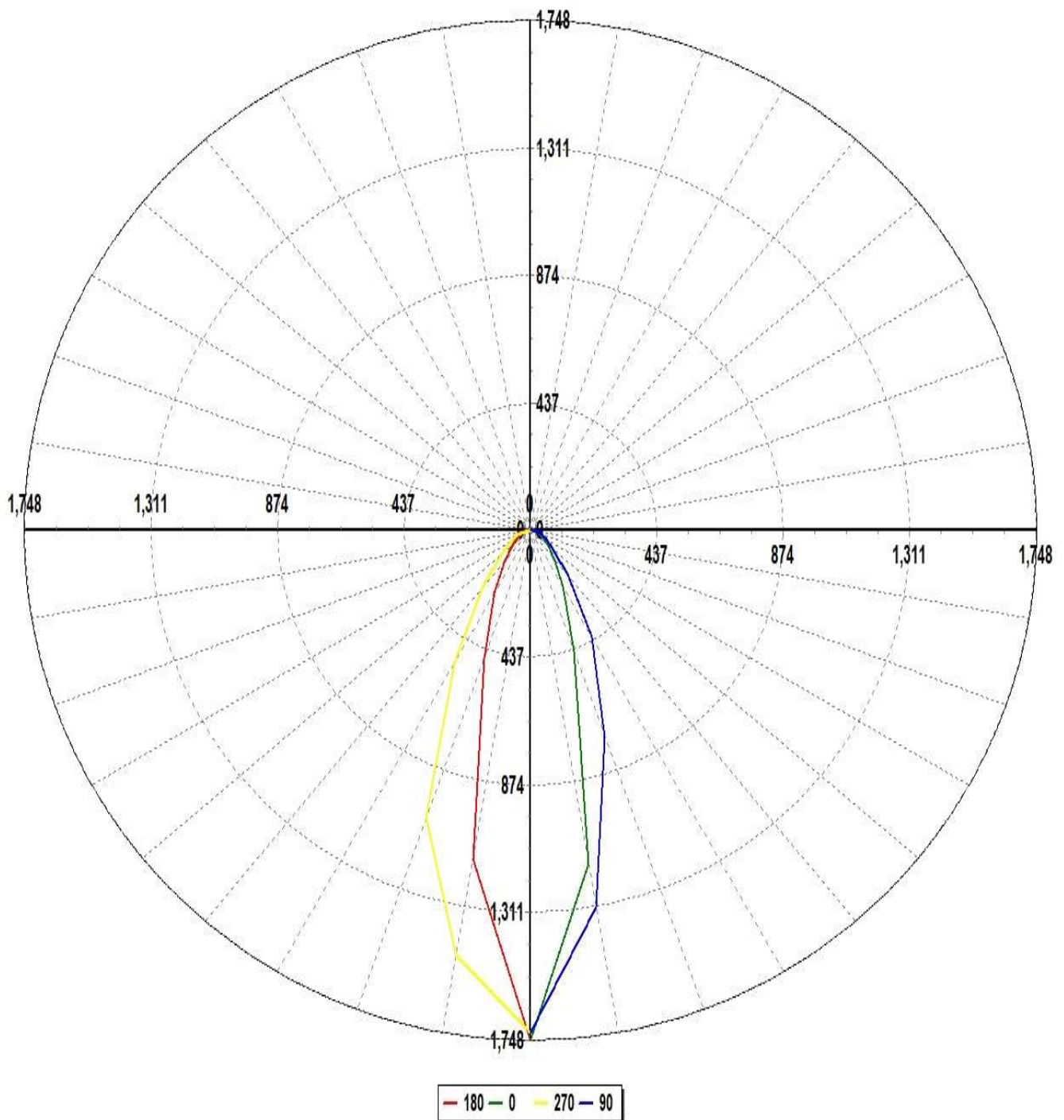
Total flux (lm) 1439

Power Factor

Date 1

2024-06-13 오후 3:07:47

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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KH FEELUX

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Current (A)

Operator

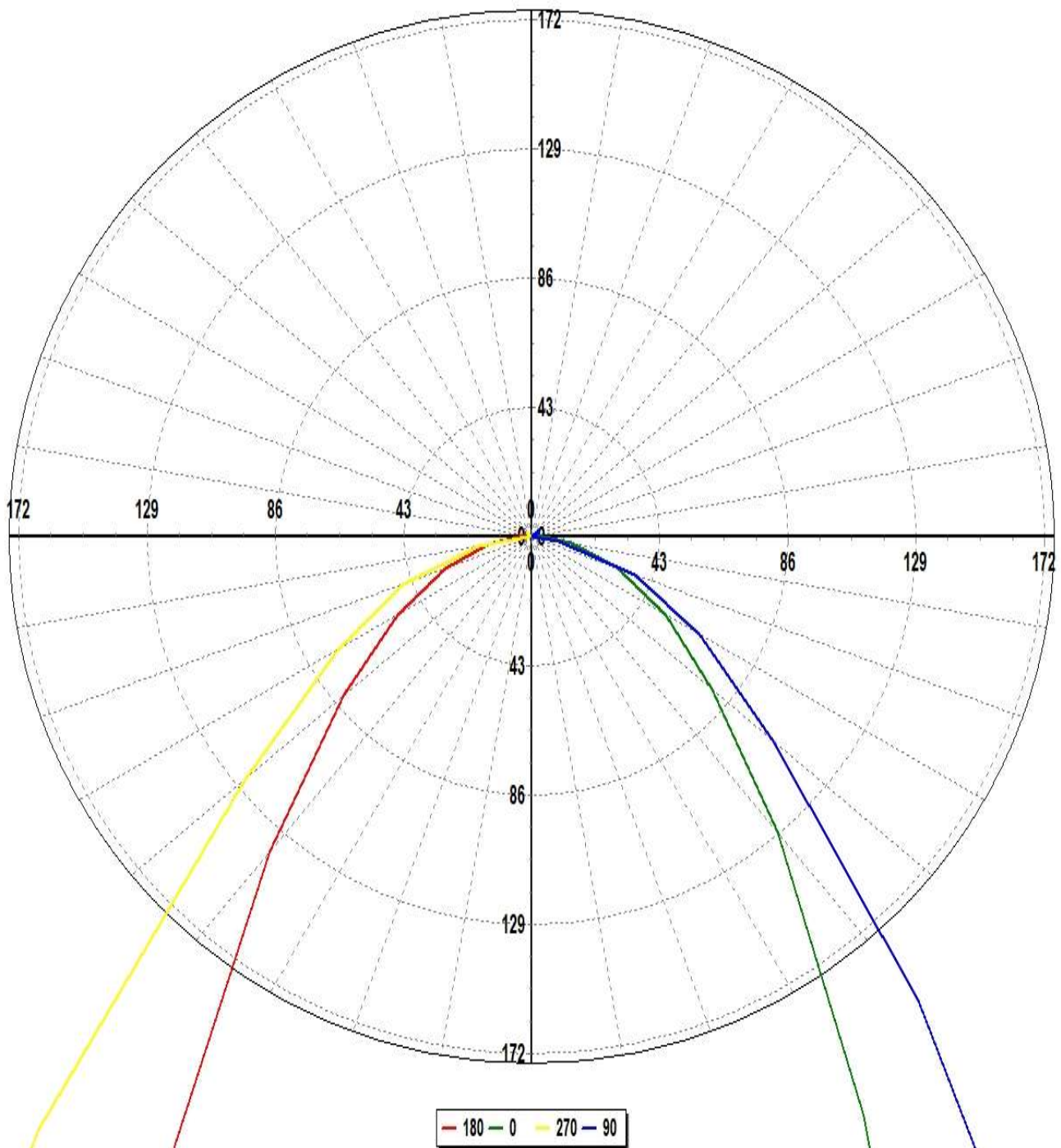
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Power Factor

Date 1

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## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Lamp flux (lm) 1439

Current (A)

Operator

Total flux (lm) 1439

Power Factor

Date 1

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## Luminous Intensity Data

Maximum (cd) : 2518

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270
0	2517.82	2499.67	2495.93	2480.32	2471.08	2444.18	2517.82	2499.67	2495.93	2480.32
10	1671.21	1471.14	1937.4	1888.05	1838.24	1342.01	1650.23	2009.56	1951.29	2129.37
20	633.87	626.28	895.42	1086.03	832.62	579.68	674.95	799.72	961.33	1513.73
30	320.35	339.23	437.83	611.72	414.96	312.35	354.67	388.36	504.06	758.38
40	184.47	192.07	230.8	290.48	219.97	178.04	196.29	212.13	259.13	370.71
50	114.03	120.53	140.23	152.12	132.55	110.87	118.17	128.2	150.72	180.2
60	74.52	78.42	91.28	93.41	85.93	71.11	74.74	83.2	97.77	108.04
70	43.49	45.64	54.07	53.16	49.4	38.66	44.59	49.5	60.46	66.21
80	19.59	20.84	20.37	13.56	17.27	15.81	21.78	21.69	25.67	25.72
90	5.49	4.45	2.56	0.52	1.49	2.91	5.87	5.44	2.94	1.09
100	1.85	1.74	1.72	1.42	1.35	1.3	1.4	0.89	1.74	0.84
110	1.54	2.15	2.18	1.79	2.25	1.78	1.46	1.55	1.48	1.04
120	2.63	2.84	2.6	3	3.18	2.85	2.81	1.94	2.4	2.66
130	3.45	4.27	3.74	4.5	3.87	4.9	3.22	3.17	3.46	3.26

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Current (A)

Operator

Total flux (lm) 1439

Power Factor

Date 1

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## Luminous Intensity Data (Continued)

Maximum (cd) : 2518

Minimum (cd) : 1

G/C	300	330	360
0	2471.08	2444.18	2517.82
10	2047.95	2136.45	1671.21
20	1042.88	866.76	633.87
30	539.13	425.85	320.35
40	277.58	232.31	184.47
50	161.51	141.35	114.03
60	104.83	91.66	74.52
70	65.26	57.47	43.49
80	30.25	27.16	19.59
90	6.72	8.31	5.49
100	0.81	1.22	1.85
110	1.24	0.92	1.54
120	1.78	2.8	2.63
130	3.63	3.73	3.45

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## Luminous Flux Table

Total Lamp Lumens: 1438.6

Luminaire Efficiency (lm/W): 72.73

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	59.41	59.41	4.13	4.13
10	349.83	409.24	28.45	28.45
20	328.18	737.42	51.26	51.26
30	246.74	984.16	68.41	68.41
40	166.85	1151.01	80.01	80.01
50	115.40	1266.40	88.03	88.03
60	83.38	1349.78	93.83	93.83
70	53.85	1403.64	97.57	97.57
80	23.34	1426.98	99.19	99.19
90	4.36	1431.34	99.50	99.50
100	1.46	1432.80	99.60	99.60
110	1.66	1434.46	99.71	99.71
120	2.49	1436.95	99.89	99.89
130	1.64	1438.59	100.00	100.00



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Operator

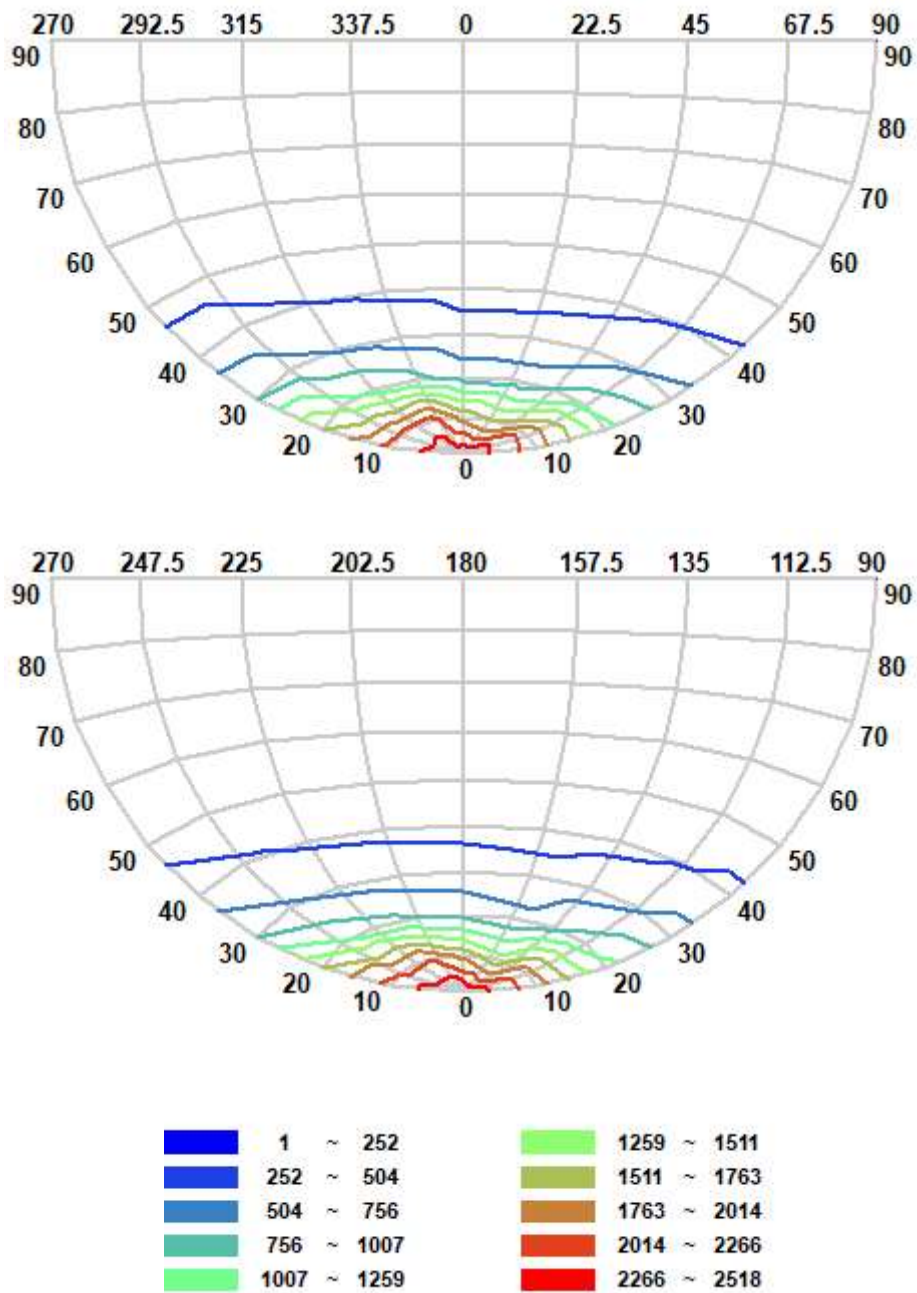
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## IsoCandela (Type C)





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Current (A)

Operator

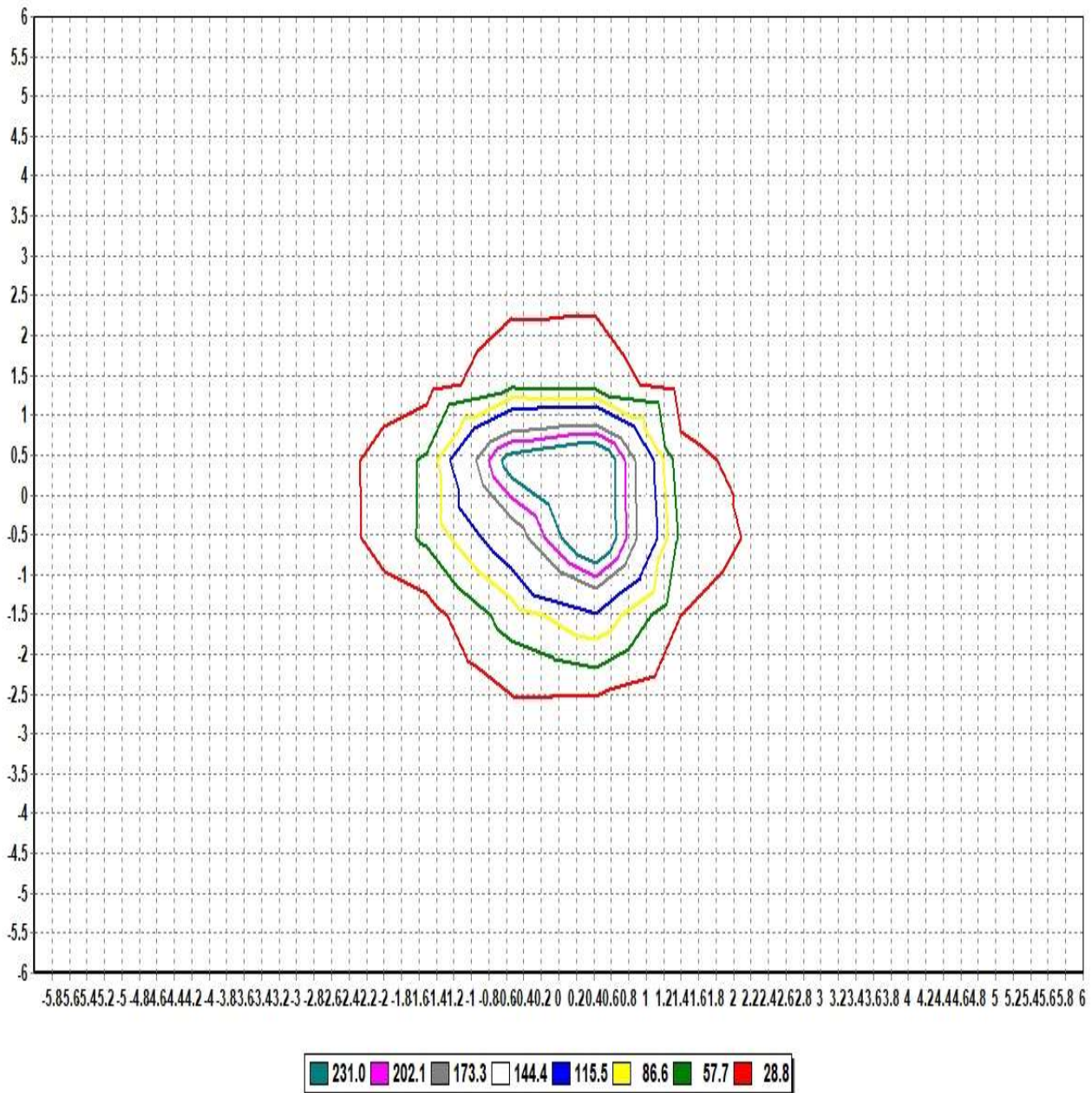
Total flux (lm) 1439

Power Factor

Date 1

2024-06-13 오후 3:07:47

## 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)

Filename 240613 FNL 3D 35K-24V-C90-20Dx40D-1M.jdt

Lamp flux (lm) 1439

Current (A)

Operator

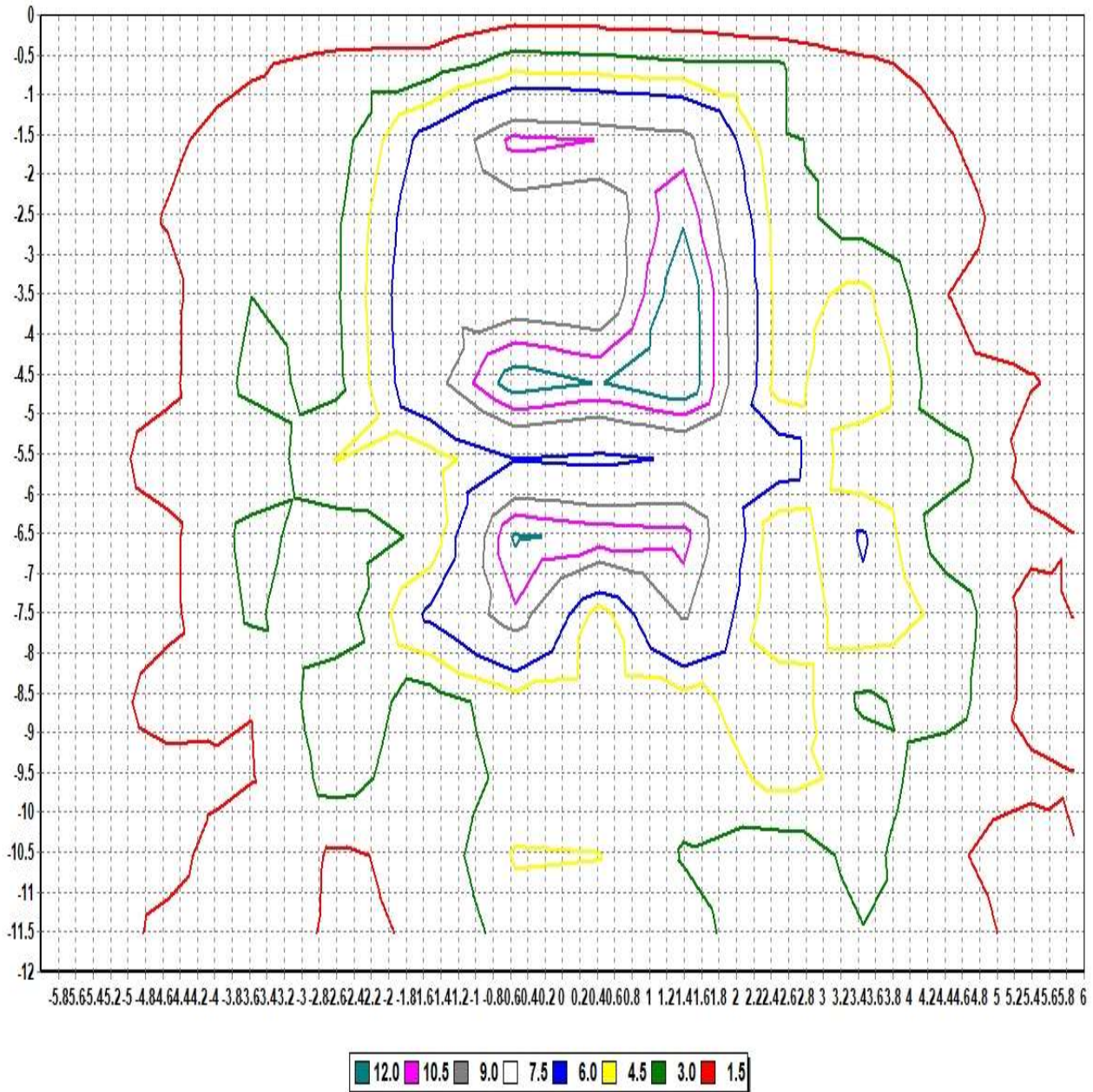
Total flux (lm) 1439

Power Factor

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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) 23.897

Filename 240613 FNL 3D 35K-24V-C90-20Dx40D-1M.jdt

Lamp flux (lm) 1439

Current (A) 0.8277

Operator

Total flux (lm) 1439

Power Factor 1

Date 2024-06-13 오후 3:07:47

## Illuminance Levels (Ground)

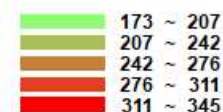
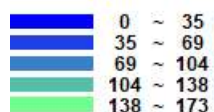
6.00	0.31	0.42	0.32	0.41	0.52	0.63	0.67	0.63	0.50	0.38	0.33	0.40	0.26
5.00	0.35	0.34	0.51	0.74	1.50	1.88	2.10	1.91	1.37	0.73	0.50	0.30	0.35
4.00	0.25	0.41	1.30	2.04	1.75	2.47	2.81	2.48	1.60	1.88	1.09	0.43	0.27
3.00	0.39	0.56	1.61	2.18	7.09	5.46	7.38	4.96	5.85	1.84	1.60	0.60	0.37
2.00	0.47	1.38	1.69	4.76	8.30	14.78	28.61	12.67	6.47	4.82	1.57	1.29	0.46
1.00	0.50	1.50	1.95	4.81	13.92	58.96	210.64	38.19	12.32	4.56	2.21	1.71	0.61
0.00	0.54	1.63	2.21	5.49	17.88	183.11	345.38	185.25	16.49	5.26	2.17	1.58	0.54
-1.00	0.49	1.48	1.94	4.82	13.58	43.64	238.62	76.00	17.66	5.97	2.18	1.62	0.55
-2.00	0.48	1.36	1.65	5.12	6.91	14.06	35.96	18.70	10.26	6.15	2.08	1.70	0.61
-3.00	0.40	0.60	1.67	1.91	6.50	5.31	8.95	6.60	8.91	2.60	2.02	0.76	0.51
-4.00	0.28	0.44	1.13	2.02	1.70	2.79	3.29	2.76	2.12	2.42	1.56	0.56	0.36
-5.00	0.36	0.31	0.54	0.80	1.46	2.19	2.48	2.10	1.80	0.88	0.63	0.43	0.44
-6.00	0.27	0.43	0.36	0.41	0.54	0.74	0.80	0.71	0.65	0.52	0.40	0.49	0.37
-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.) : 345.38

Illum. (Min.) : 0.2467

Illum. (Avg.) : 11.163

All illuminance level values are in lux.





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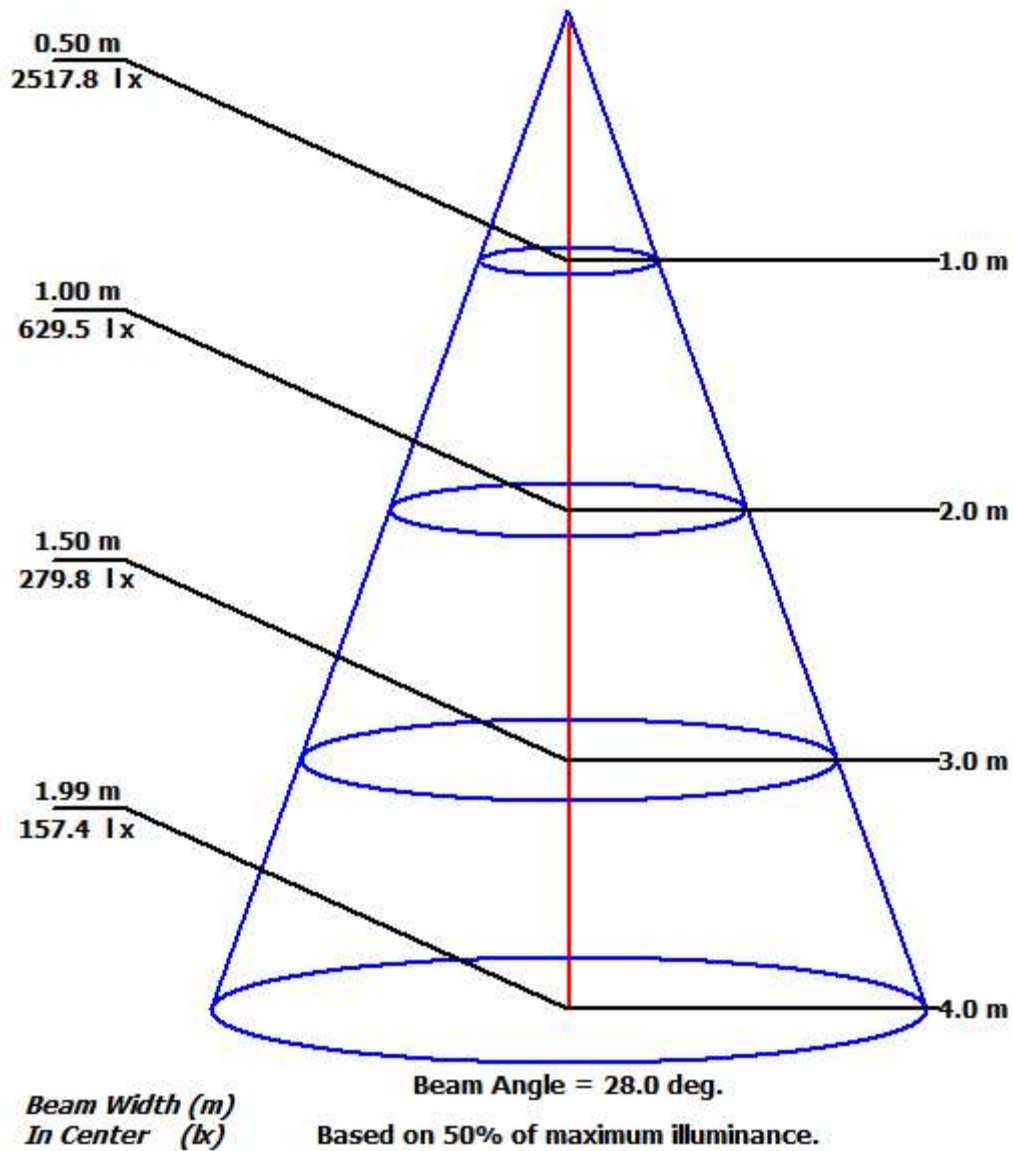
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## Illuminance Cone Diagram



Luminaire KH FEELUX

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Lamp flux (lm) 1439 Current (A) 0.8277

Operator

Total flux (lm) 1439 Power Factor 1

Date 2024-06-13 오후 3:07:47

## 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