

# TEST REPORT

**1. Applicant**

\* Client Name : KH-FEELUX Co. Ltd.  
\* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-si Gyeonggi-do 482-844 Korea  
\* Date of Receipt : 220311

**2. Purpose of Report :****3. Number of Report :** 220311**4. Test Standard / Item :** / NDF15 30K-120V FLICKERFREE 28LM9**5. Test Period :** 220311 ~ 220311**6. Test Environment**

\* Ambient Temp. : 21.0 +- 3 °C  
\* Relative Humidity : 23.0 +- 10 % RH

**7. Test Item**

\* Name of Product :  
\* Rating :  
\* Model :

**8. Test Result :** Refer to the attachment

Confirmation	Test by		Technical manager	
	YKI	Sign	YKI	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
220311			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	23.4	
CIE 1931 Cx, Cy		0.4362 , 0.3960	
Correlated Color Temperature	K	2946	
Ra		93.93	
Power Factor		0.973	
Input Voltage	V	120.23	
Input Current	A	0.130	
Input Watt	W	15.21	
Lamp Flux	lm	1100.9	
Efficient	lm/W	72.38	
luminous Intensity (Max , Center)	cd	343 , 343	
Illuminance	lx	343	1 m
		86	2 m
		38	3 m

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

\* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

220311

No. of lamps 1

Voltage (V)

1Filename NDF15 30K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 1101

Current (A)

0.1Operator

YKI

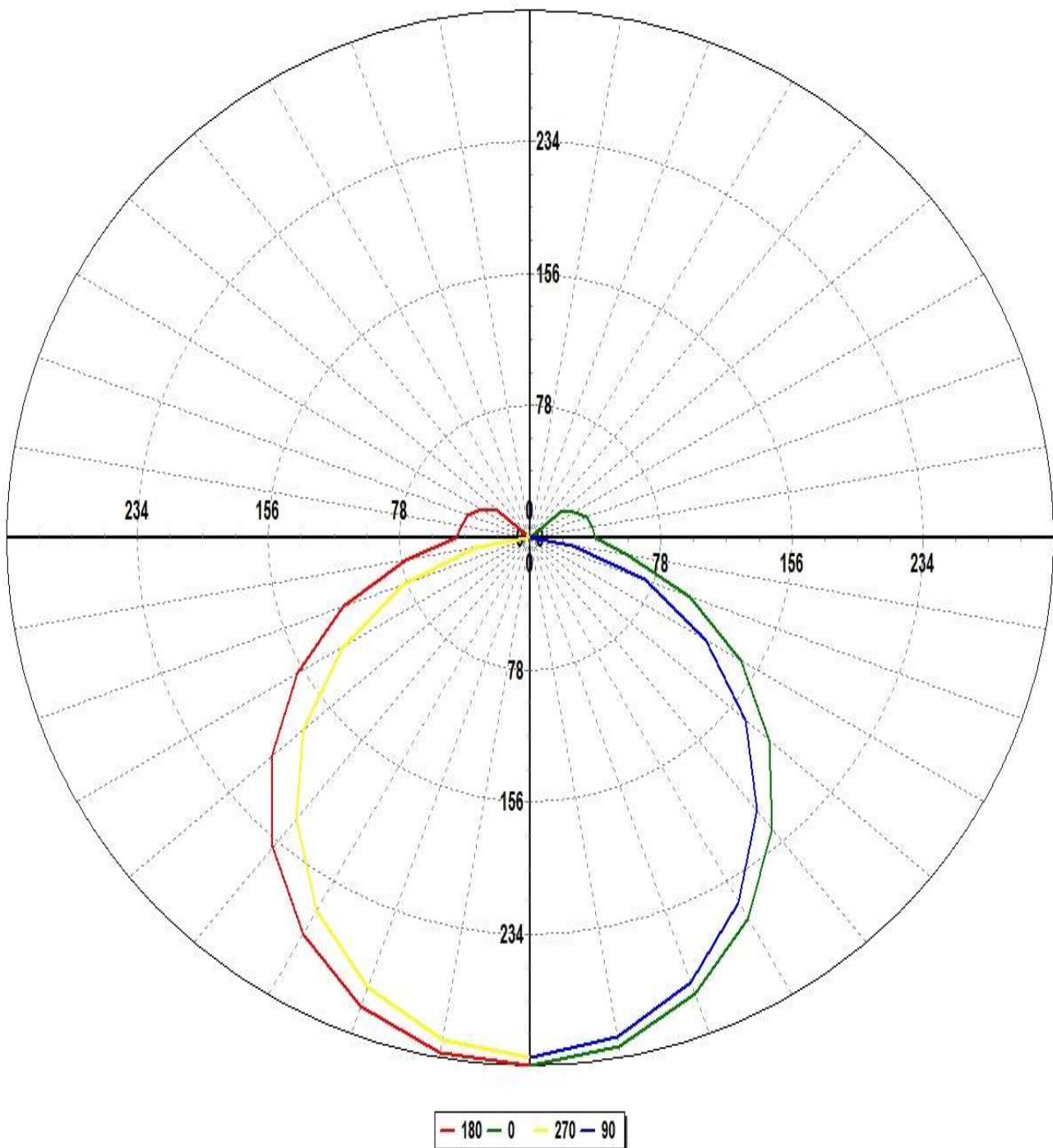
Total flux (lm) 1101

Power Factor

0Date3

2022-03-11 오전 10:43:07

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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220311

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Lamp flux (lm) 1101

Current (A)

0.1Operator

YKI

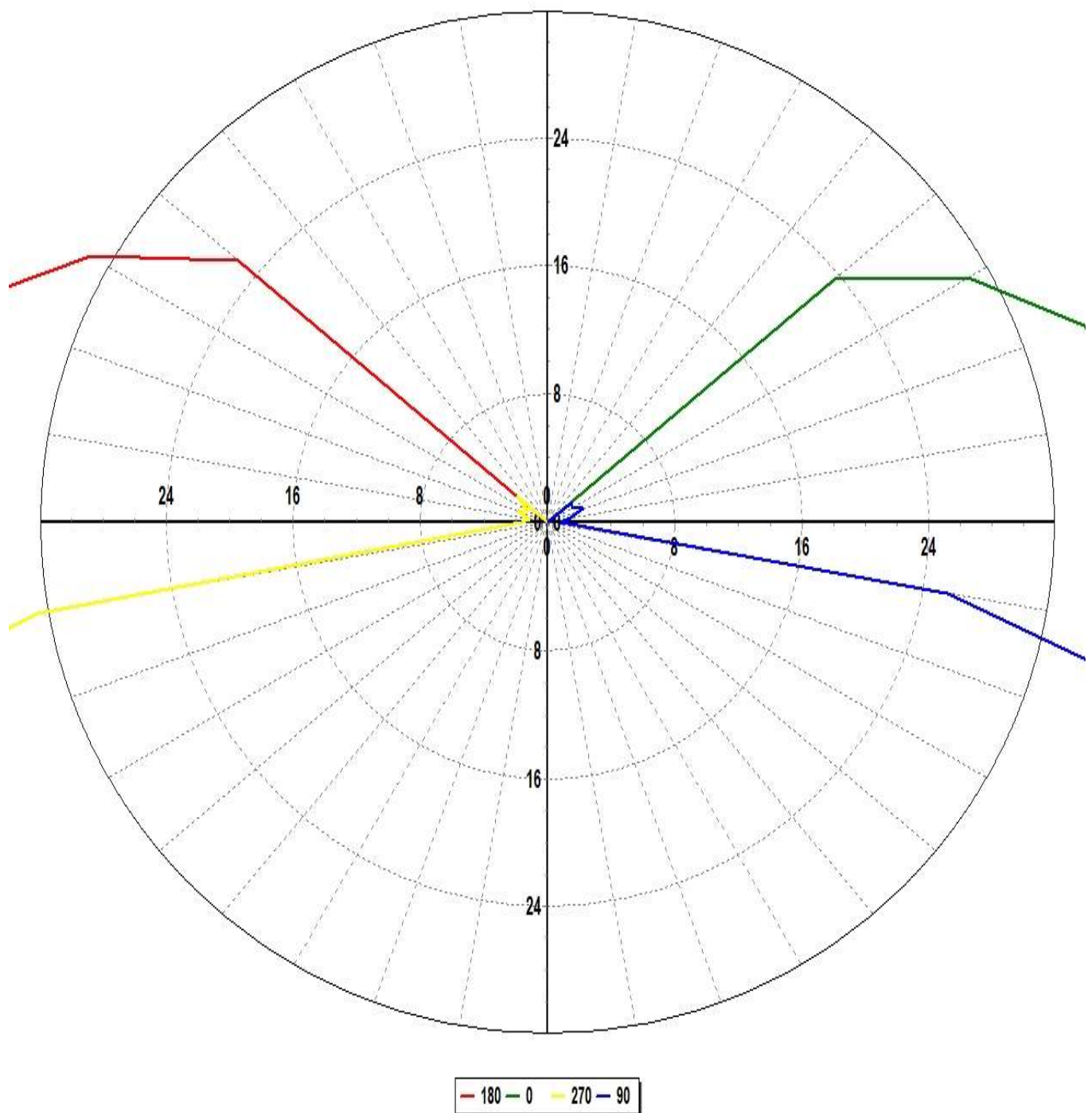
Total flux (lm) 1101

Power Factor

0Date3

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## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Current (A)

0.1Operator

YKI

Total flux (lm) 1101

Power Factor

0Date3

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## Luminous Intensity Data

Maximum (cd) : 343

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	343.19	340.77	337.98	337.93	336.69	334.33	343.19	340.77	337.98	337.93	336.69
10	336.21	332.7	331.6	329.21	328.95	330.25	339.66	336.67	334.53	331.53	329.14
20	315.82	312.07	310.41	307.71	310.15	312.74	324.38	320.89	316.24	311.53	309.99
30	285.74	280.6	278.06	273.45	280.06	282.95	297.75	294.29	285.32	279.65	279.6
40	247.01	243.21	236.61	231.41	241.04	247.28	262.69	258.35	247.24	238.97	239.63
50	204.92	199.65	192.29	184.66	195.92	206.05	221.24	215.44	202.75	193.82	196.61
60	160.05	153.55	143.09	132.87	147.33	160.77	176.55	171.21	155.43	142.63	148.05
70	111.38	104.14	91.98	80.22	97.21	113.09	130.28	122.63	104.31	88.33	97.52
80	65.28	57.83	42.52	28.11	48.18	67.2	83.01	75.58	54.14	35.86	48.93
90	42.95	35.38	18.4	0.86	19.63	38.44	48.6	40.12	19.77	1.76	18.34
100	41.02	34.09	17.97	1.6	19.71	37.15	45.47	36.92	19.39	1.25	18.07
110	39.57	33.04	14.22	2.67	16.4	36.04	43.49	36.38	19.56	2.14	18.16
120	33.64	24.05	2.22	1.98	2	25.25	36.48	28.69	1.7	1.51	1.79
130	25.92	12.84	9.85	2.21	10.01	9.4	27.94	17.46	8.32	2.81	7.59

Luminaire KH FEELUX

Lamp			Report	220311
No. of lamps	1	Voltage (V)	1Filename NDF15 30K-120V FLICKERFREE 28LM9.jdt	
Lamp flux (lm)	1101	Current (A)	0.1Operator	YKI
Total flux (lm)	1101	Power Factor	0Date3	2022-03-11 오전 10:43:07

## Luminous Intensity Data (Continued)

Maximum (cd) : 343

Minimum (cd) : 1

G/C	330	360
0	334.33	343.19
10	328.98	336.21
20	310.34	315.82
30	281.77	285.74
40	244.63	247.01
50	203.42	204.92
60	157.65	160.05
70	110.05	111.38
80	63.2	65.28
90	35.69	42.95
100	34.31	41.02
110	32.46	39.57
120	24.56	33.64
130	15.62	25.92

Luminaire KH FEELUX

Lamp

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Current (A)

0.1Operator

YKI

Total flux (lm) 1101

Power Factor

0Date3

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## Luminous Flux Table

Total Lamp Lumens: 1100.9

Luminaire Efficiency (lm/W): 72.38

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	8.09	8.09	0.74	0.74
10	63.23	71.32	6.48	6.48
20	117.44	188.76	17.15	17.15
30	155.12	343.89	31.24	31.24
40	172.37	516.25	46.89	46.89
50	168.97	685.22	62.24	62.24
60	146.16	831.39	75.52	75.52
70	107.30	938.69	85.27	85.27
80	60.21	998.90	90.73	90.74
90	29.20	1028.10	93.39	93.39
100	27.59	1055.69	95.89	95.89
110	25.23	1080.92	98.18	98.19
120	14.53	1095.45	99.50	99.51
130	5.43	1100.88	100.00	100.00



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Current (A)

0.1Operator

YKI

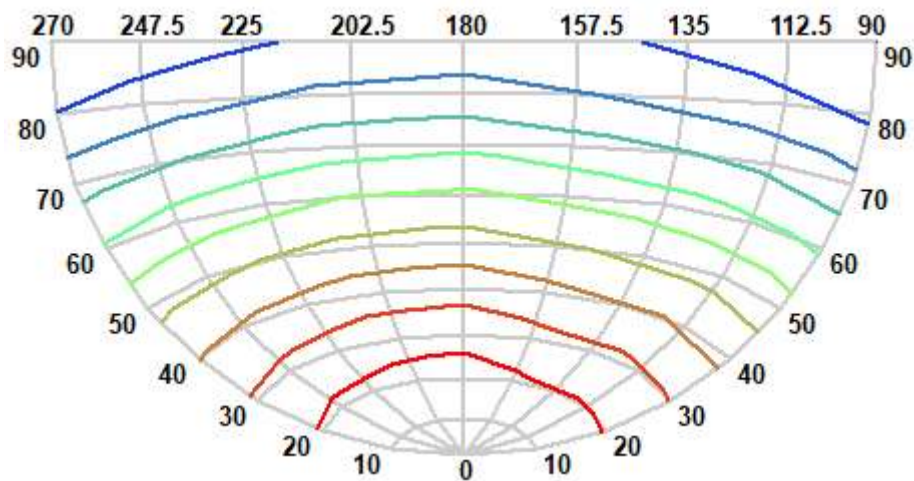
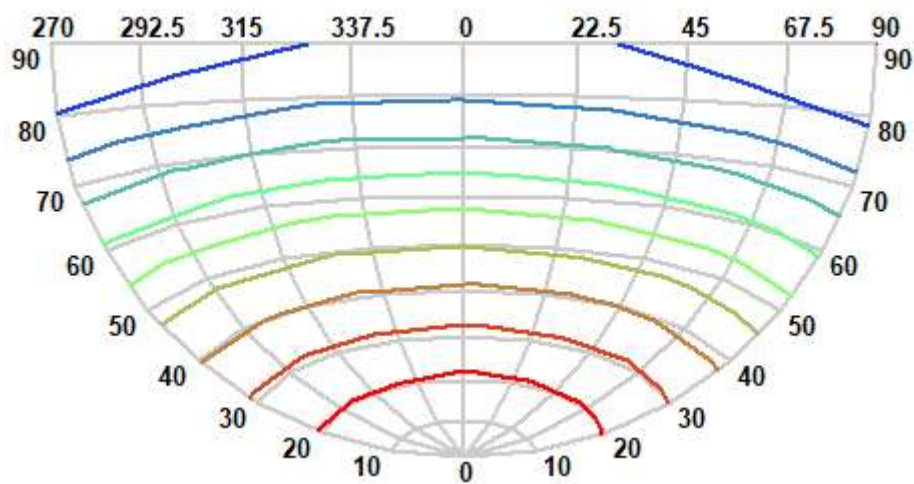
Total flux (lm) 1101

Power Factor

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## IsoCandela (Type C)





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Lamp flux (lm) 1101

Current (A)

0.1Operator

YKI

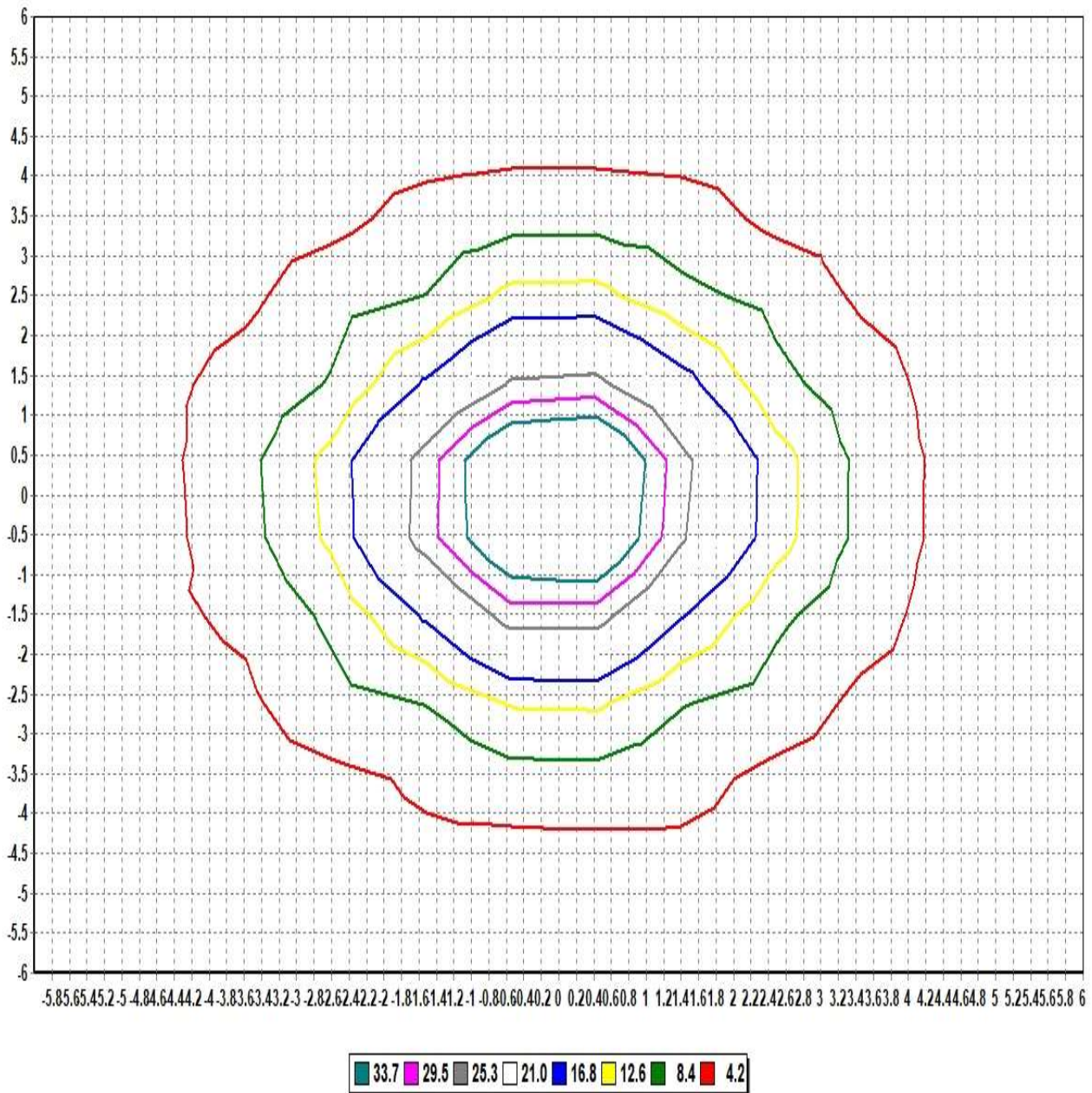
Total flux (lm) 1101

Power Factor

0Date3

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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

220311

No. of lamps 1

Voltage (V)

1Filename NDF15 30K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 1101

Current (A)

0.1Operator

YKI

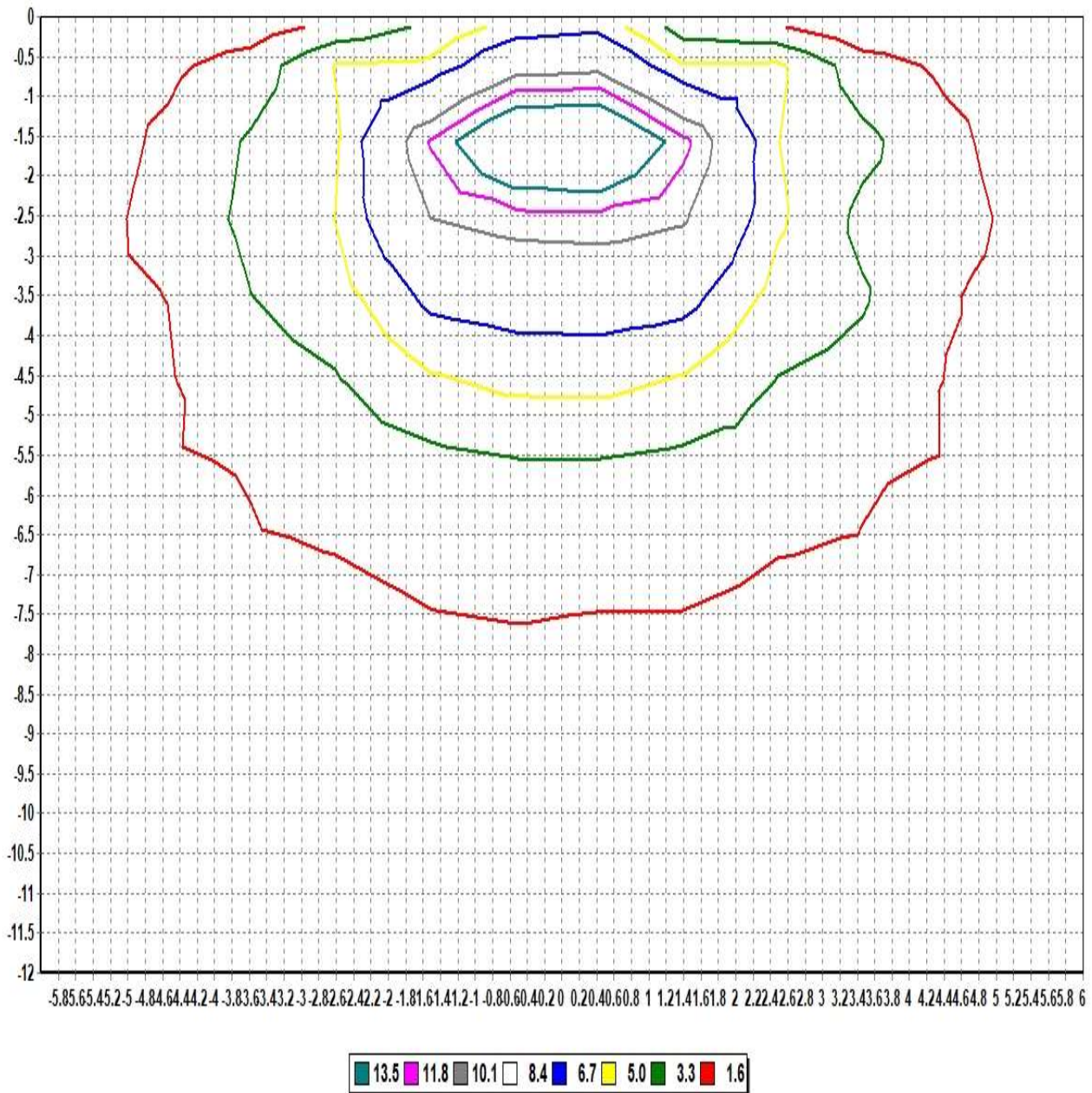
Total flux (lm) 1101

Power Factor

0Date3

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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)	120.23
Lamp flux (lm)	1101	Current (A)	0.12997
Total flux (lm)	1101	Power Factor	0.9733

Report	220311
Filename	NDF15 30K-120V FLICKERFREE 28LM9.jdt
Operator	YKI
Date	2022-03-11 오전 10:43:07

## Illuminance Levels (Ground)

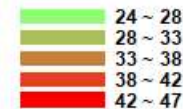
6.00	0.49	0.64	0.50	0.75	0.88	0.99	0.97	0.96	0.96	0.80	0.57	0.68	0.56
5.00	0.73	0.58	0.80	1.08	2.18	2.51	2.59	2.49	2.25	1.19	0.88	0.70	0.73
4.00	0.67	0.98	1.84	2.63	2.86	3.49	3.69	3.47	2.98	2.74	1.99	0.99	0.67
3.00	0.78	1.38	2.89	3.24	6.44	7.28	7.96	7.47	6.60	3.57	2.89	1.37	0.82
2.00	0.99	2.26	2.92	6.89	9.35	15.13	17.51	15.28	9.84	6.89	3.02	2.29	1.01
1.00	1.31	2.90	4.14	7.58	15.24	27.11	37.16	27.69	15.36	7.65	3.91	2.73	1.18
0.00	1.42	3.15	4.67	9.42	19.56	38.37	47.08	37.96	18.54	8.76	4.28	2.91	1.25
-1.00	1.26	2.84	4.12	8.25	16.30	28.82	37.43	27.36	15.14	7.56	3.91	2.74	1.19
-2.00	1.17	2.50	3.35	7.35	10.56	16.19	18.01	15.10	9.55	6.82	2.93	2.25	0.98
-3.00	0.95	1.55	3.13	3.92	6.93	7.99	8.33	7.42	6.64	3.35	2.86	1.35	0.78
-4.00	0.78	1.14	2.18	2.91	3.30	3.71	3.92	3.73	2.90	2.74	1.89	0.97	0.66
-5.00	0.82	0.81	1.00	1.32	2.43	2.63	2.73	2.66	2.21	1.17	0.85	0.61	0.72
-6.00	0.62	0.75	0.65	0.93	1.09	1.05	1.05	1.10	0.91	0.76	0.55	0.67	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.) : 47.077

Illum. (Min.) : 0.4896

Illum. (Avg.) : 5.4744

All illuminance level values are in lux.





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Lamp

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Current (A)

0.1Operator

YKI

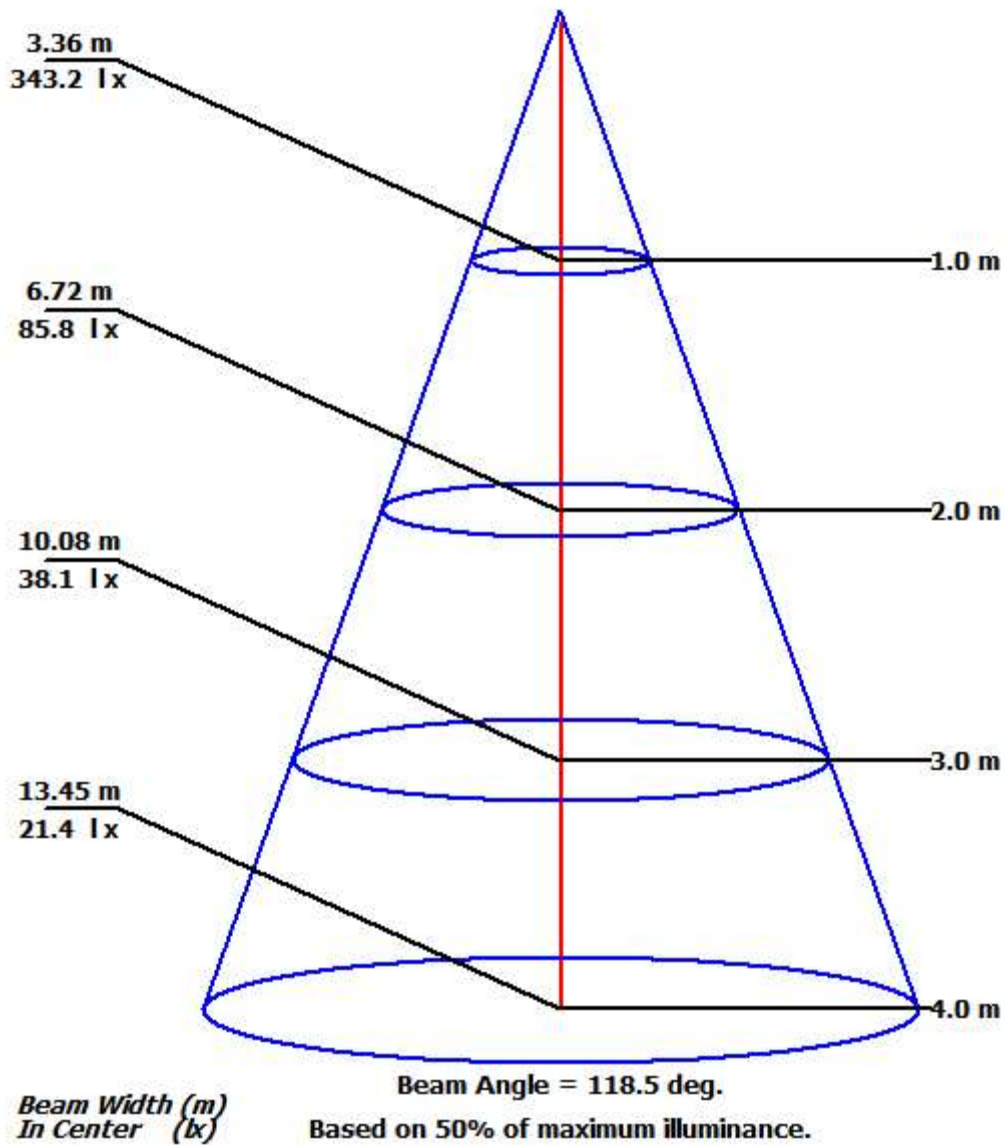
Total flux (lm) 1101

Power Factor

0Date3

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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

220311

No. of lamps 1

Voltage (V) 120.23

Filename NDF15 30K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 1101

Current (A) 0.12997

Operator

YKI

Total flux (lm) 1101

Power Factor 0.9733

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