

# 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 40K-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	%	23.0	
CIE 1931 Cx, Cy		0.3857 , 0.3745	
Correlated Color Temperature	K	3845	
Ra		94.5	
Power Factor		0.974	
Input Voltage	V	120.28	
Input Current	A	0.129	
Input Watt	W	15.09	
Lamp Flux	lm	1143.3	
Efficient	lm/W	75.76	
luminous Intensity (Max , Center)	cd	357 , 357	
Illuminance	lx	357	1 m
		89	2 m
		40	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 40K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 1143

Current (A)

0.1Operator

YKI

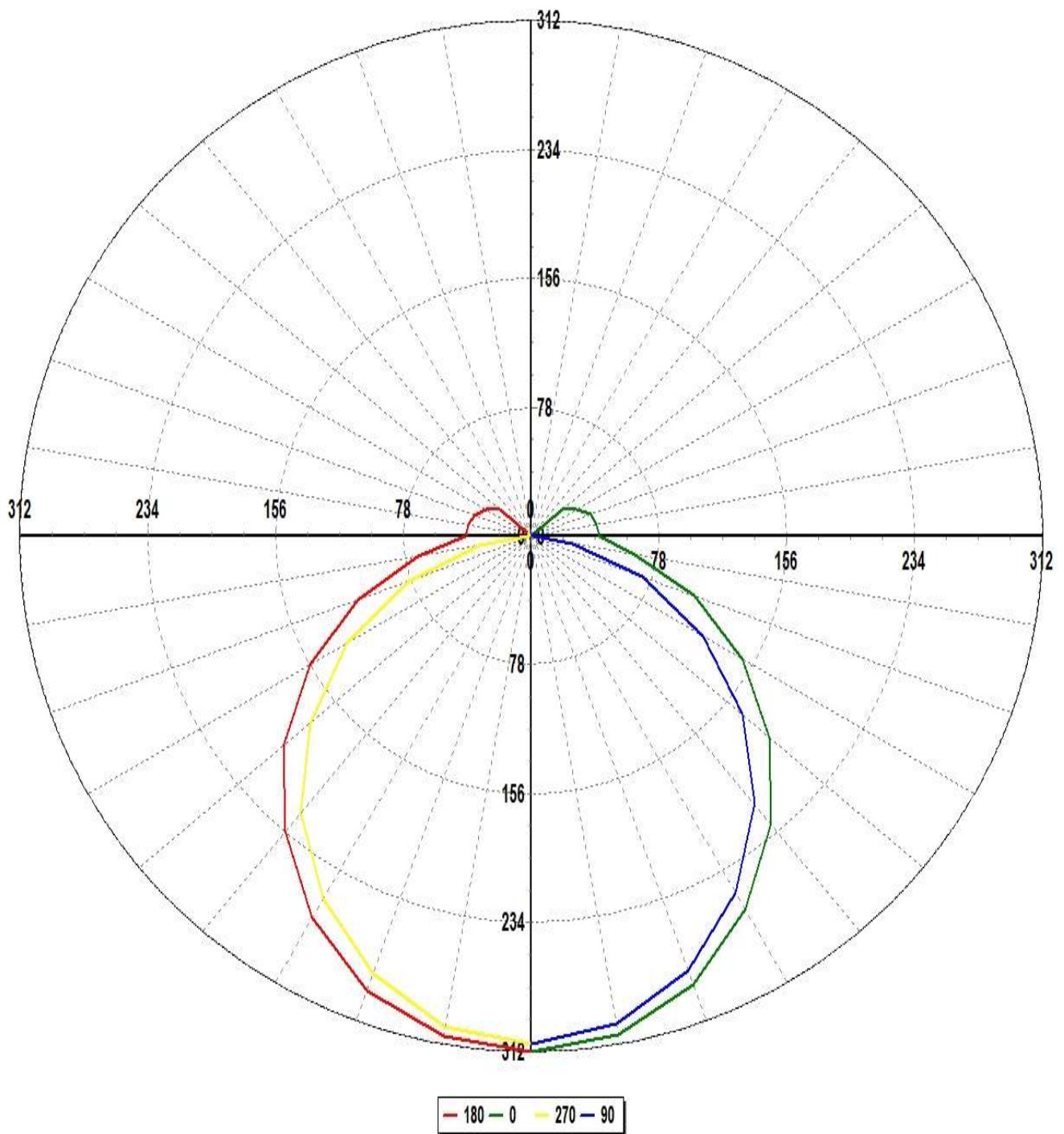
Total flux (lm) 1143

Power Factor

0Date2

2022-03-11 오전 10:56:14

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

220311

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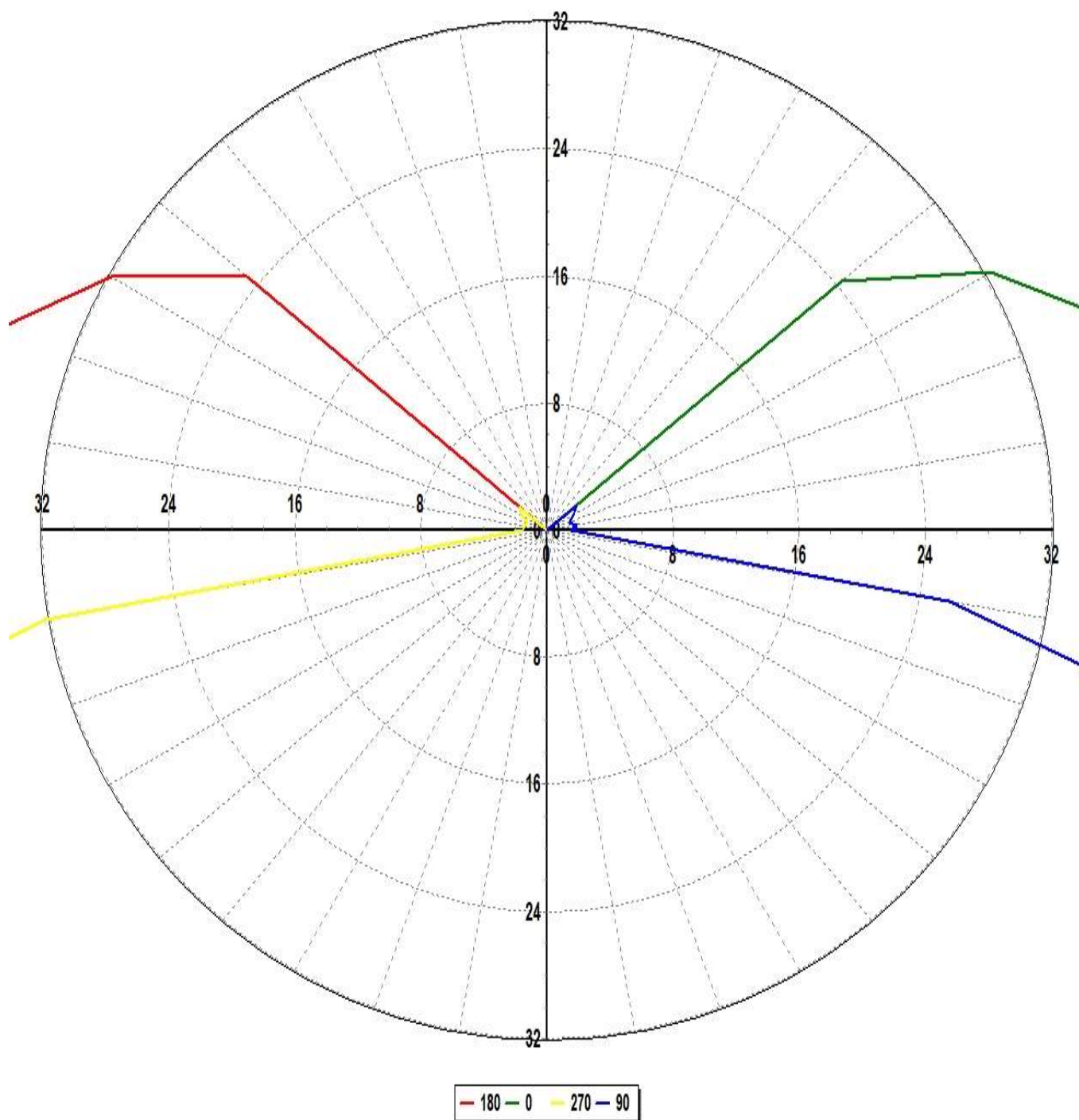
Total flux (lm) 1143

Power Factor

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## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 1143

Current (A)

0.1Operator

YKI

Total flux (lm) 1143

Power Factor

0Date2

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## Luminous Intensity Data

Maximum (cd) : 357

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	357.1	353	353.13	351.58	350.02	350.15	357.1	353	353.13	351.58	350.02
10	350.4	346.6	345.04	342.97	342.63	342.46	351.86	351.01	346.41	345.15	344.78
20	330.78	326.45	322.79	319.68	321.65	323.28	335.25	331.16	328.16	322.91	324.31
30	298.81	295.59	290.76	285.04	289.08	291.79	305.32	301.68	295.35	290.45	292.44
40	260.56	256.11	247.8	242.25	247.63	254.95	266.9	264.57	255.38	249.77	251.88
50	217.29	210.46	202.22	192.67	201.55	209.54	225.78	221.32	208.6	201.29	205.84
60	170.69	162.62	150.5	138.16	151.07	162.22	178.08	174.05	158.56	148.17	156.12
70	120.99	112.78	98.11	82.52	98.37	113.07	128.61	122.23	105.48	90.75	103.71
80	73.13	64.54	46.77	29.6	48	64.27	79.98	71.75	53.87	36.99	53.09
90	47.33	39.79	19.41	1.7	19.71	37.6	45.88	37.64	19.53	1.71	20.19
100	46.25	38.32	20.28	2.2	19.47	35.82	44.38	36.83	18.52	1.69	20.11
110	44.04	36.1	15.66	1.74	16.53	34.96	42.34	35.64	18.76	1.49	19.73
120	37.12	26.82	2.15	2.2	2.77	24.8	36.44	27.45	2.05	2.17	1.12
130	27.92	13.46	10.32	2.82	8.68	8.79	28.37	17.79	9.16	2.64	9.25

Luminaire KH FEELUX

Lamp		Report	220311
No. of lamps	1	Voltage (V)	1Filename NDF15 40K-120V FLICKERFREE 28LM9.jdt
Lamp flux (lm)	1143	Current (A)	0.1Operator YKI
Total flux (lm)	1143	Power Factor	0Date2 2022-03-11 오전 10:56:14

## Luminous Intensity Data (Continued)

Maximum (cd) : 357

Minimum (cd) : 1

G/C	330	360
0	350.15	357.1
10	341.86	350.4
20	325.72	330.78
30	295.88	298.81
40	257.18	260.56
50	214.85	217.29
60	167.87	170.69
70	119.63	120.99
80	70.7	73.13
90	39.14	47.33
100	37.71	46.25
110	37.37	44.04
120	27.66	37.12
130	15.52	27.92

Luminaire KH FEELUX

Lamp			Report	220311
No. of lamps	1	Voltage (V)	1Filename NDF15 40K-120V FLICKERFREE 28LM9.jdt	
Lamp flux (lm)	1143	Current (A)	0.1Operator	YKI
Total flux (lm)	1143	Power Factor	0Date2	2022-03-11 오전 10:56:14

## Luminous Flux Table

Total Lamp Lumens: 1143.3

Luminaire Efficiency (lm/W): 75.77

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	8.43	8.43	0.74	0.74
10	65.79	74.22	6.49	6.49
20	122.12	196.34	17.17	17.17
30	161.19	357.53	31.27	31.27
40	179.23	536.76	46.95	46.95
50	175.59	712.35	62.31	62.30
60	151.61	863.96	75.57	75.57
70	111.17	975.13	85.29	85.29
80	62.26	1037.39	90.74	90.73
90	30.08	1067.47	93.37	93.37
100	28.91	1096.38	95.90	95.89
110	26.10	1122.48	98.18	98.18
120	15.23	1137.72	99.51	99.51
130	5.61	1143.32	100.00	100.00



Luminaire KH FEELUX

Lamp

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0.1Operator

YKI

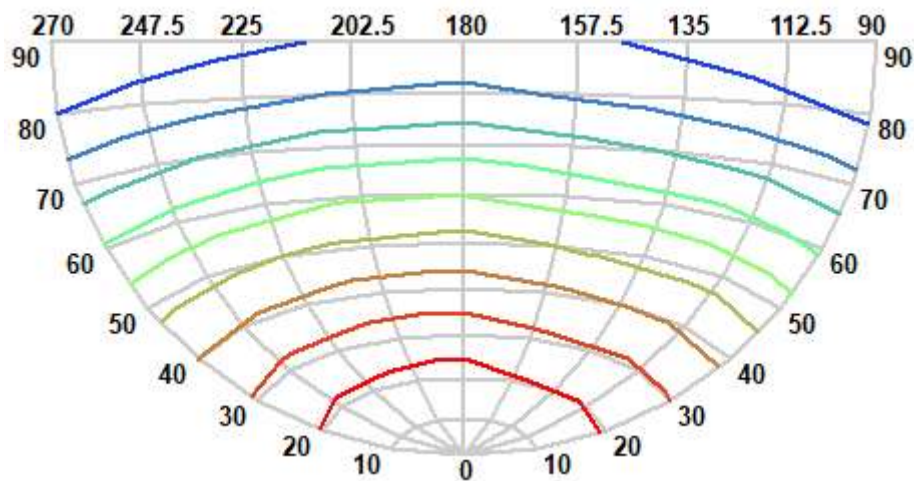
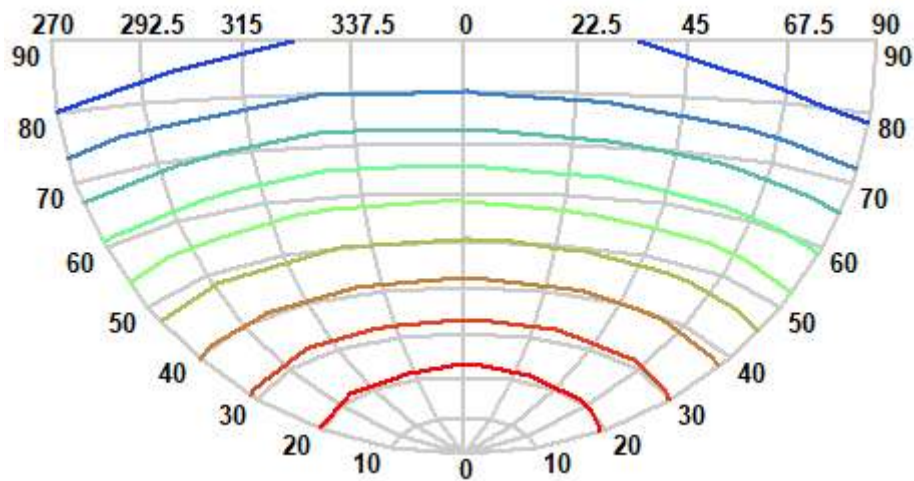
Total flux (lm) 1143

Power Factor

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## IsoCandela (Type C)





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Current (A)

0.1Operator

YKI

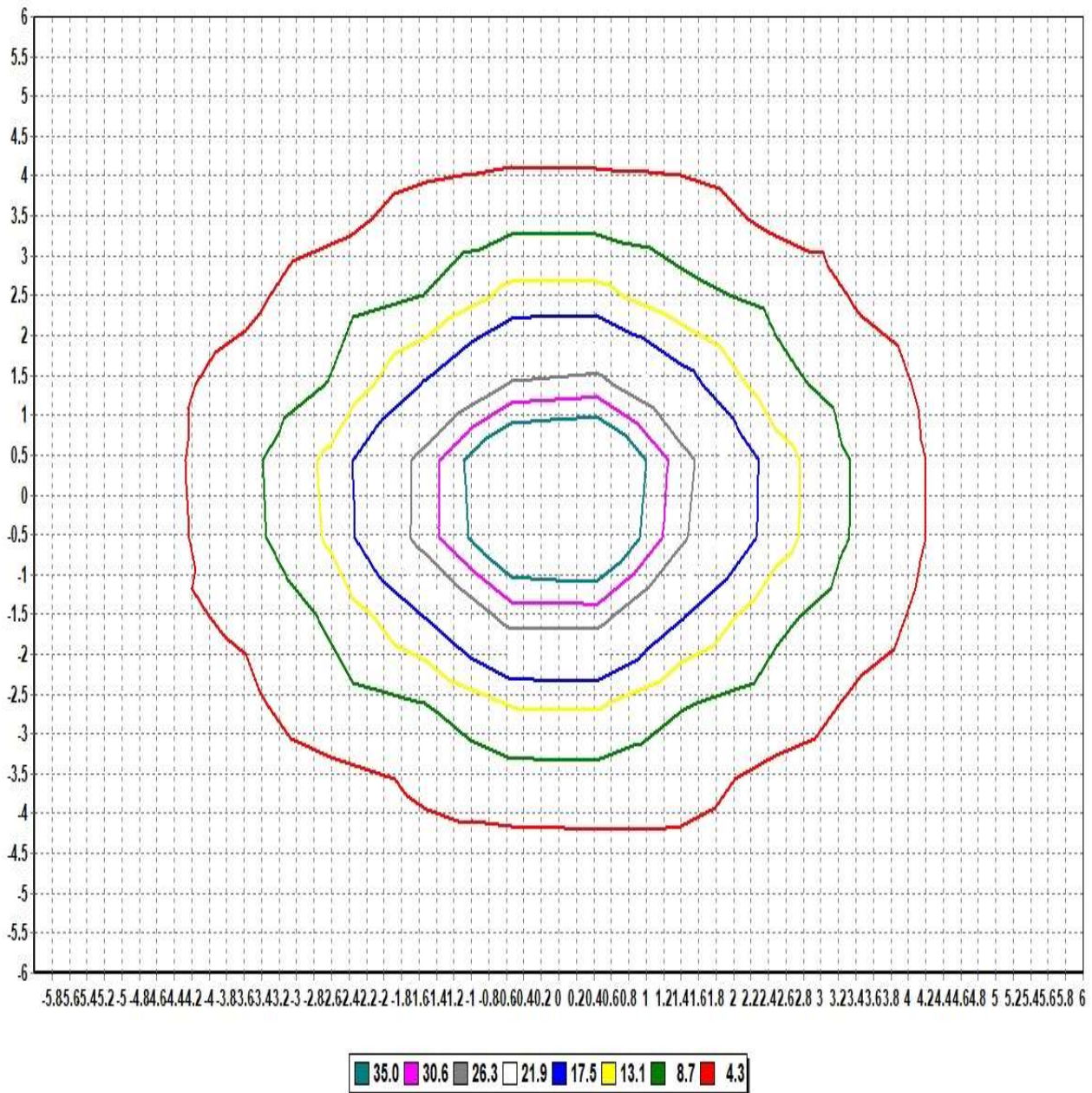
Total flux (lm) 1143

Power Factor

0Date2

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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)

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Lamp flux (lm) 1143

Current (A)

0.1Operator

YKI

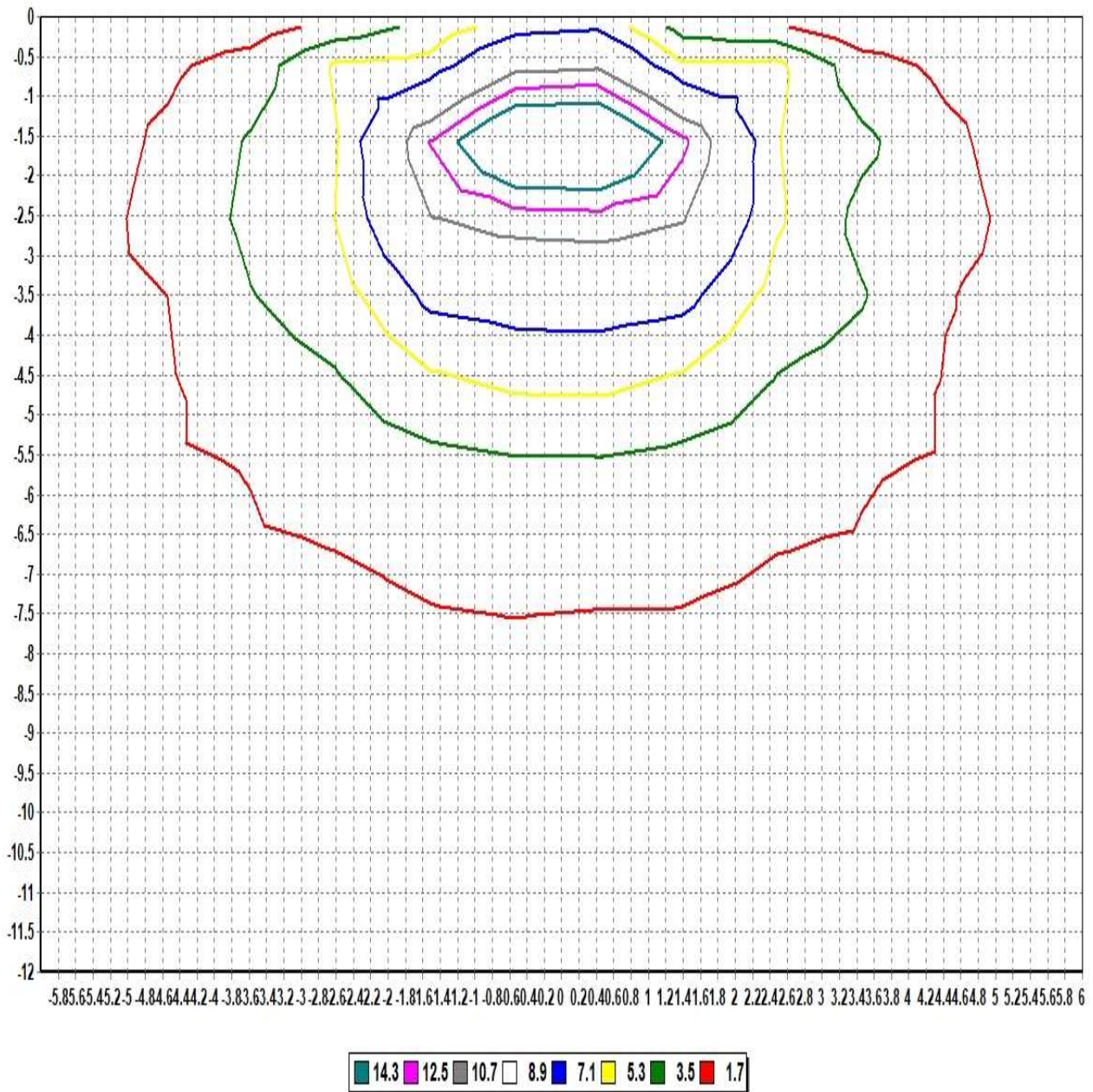
Total flux (lm) 1143

Power Factor

0Date2

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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)	120.28
Lamp flux (lm)	1143	Current (A)	0.12879
Total flux (lm)	1143	Power Factor	0.9742

Report	220311
Filename	NDF15 40K-120V FLICKERFREE 28LM9.jdt
Operator	YKI
Date	2022-03-11 오전 10:56:14

## Illuminance Levels (Ground)

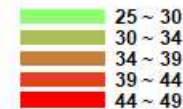
6.00	0.50	0.66	0.52	0.76	0.91	1.05	1.01	1.00	1.02	0.86	0.61	0.72	0.59
5.00	0.74	0.59	0.83	1.12	2.24	2.64	2.70	2.60	2.37	1.26	0.94	0.76	0.78
4.00	0.67	0.99	1.90	2.74	2.94	3.65	3.85	3.63	3.16	2.88	2.11	1.07	0.73
3.00	0.79	1.39	2.94	3.35	6.72	7.53	8.32	7.87	6.92	3.79	3.06	1.47	0.88
2.00	1.00	2.31	2.99	7.08	9.69	15.58	18.30	16.08	10.40	7.27	3.20	2.42	1.09
1.00	1.31	2.95	4.19	7.77	15.67	28.13	38.71	29.04	16.17	8.09	4.16	2.89	1.28
0.00	1.42	3.21	4.74	9.61	19.95	39.74	48.98	39.56	19.49	9.28	4.55	3.09	1.35
-1.00	1.26	2.89	4.17	8.45	16.68	29.61	38.96	28.51	15.92	7.94	4.16	2.90	1.28
-2.00	1.17	2.55	3.41	7.49	10.79	16.60	18.78	15.86	9.98	7.18	3.09	2.37	1.04
-3.00	0.95	1.55	3.19	3.99	7.14	8.21	8.66	7.75	6.93	3.50	3.02	1.45	0.82
-4.00	0.77	1.14	2.22	2.99	3.36	3.83	4.07	3.84	3.05	2.85	1.98	1.04	0.71
-5.00	0.82	0.81	1.01	1.34	2.49	2.72	2.83	2.74	2.32	1.21	0.89	0.64	0.76
-6.00	0.63	0.76	0.65	0.93	1.10	1.08	1.09	1.12	0.96	0.80	0.56	0.70	0.53
-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.) : 48.985

Illum. (Min.) : 0.5044

Illum. (Avg.) : 5.6886

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 1143

Current (A)

0.1Operator

YKI

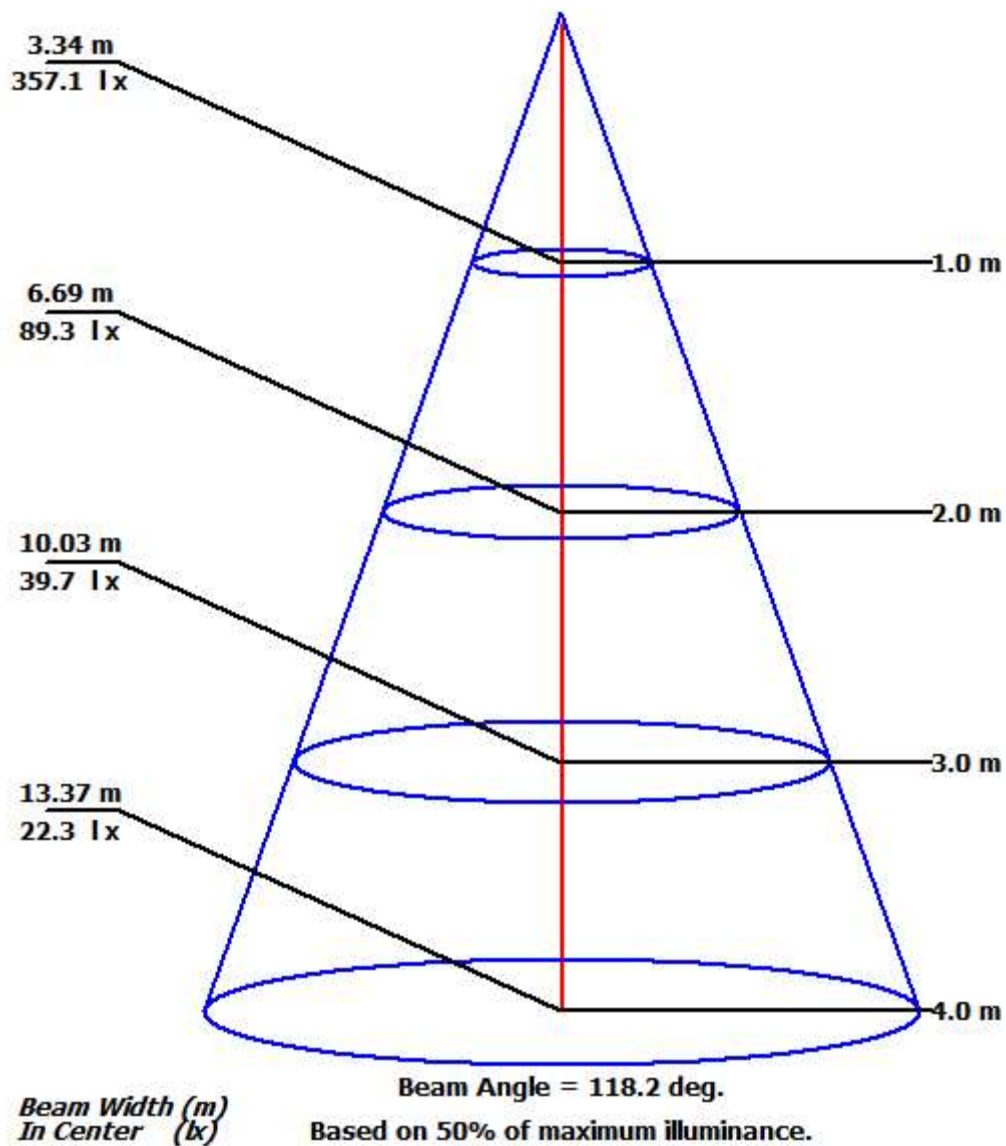
Total flux (lm) 1143

Power Factor

0Date2

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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report 220311

No. of lamps 1 Voltage (V) 120.28

Filename NDF15 40K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 1143 Current (A) 0.12879

Operator YKI

Total flux (lm) 1143 Power Factor 0.9742

Date 2022-03-11 오전 10:56:14

## 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