

# 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 : 220310

**2. Purpose of Report :****3. Number of Report :** 220310**4. Test Standard / Item :** / NDF10 40K-120V FLICKERFREE 28LM9**5. Test Period :** 220310 ~ 220310**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
220310			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	23.6	
CIE 1931 Cx, Cy		0.3842 , 0.3738	
Correlated Color Temperature	K	3878	
Ra		94.67	
Power Factor		0.973	
Input Voltage	V	120.25	
Input Current	A	0.088	
Input Watt	W	10.249	
Lamp Flux	lm	759.6	
Efficient	lm/W	74.11	
luminous Intensity (Max , Center)	cd	237 , 237	
Illuminance	lx	237	1 m
		59	2 m
		26	3 m

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

\* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

220310

No. of lamps 1

Voltage (V)

1Filename NDF10 40K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 760

Current (A)

0.Operator

YKI

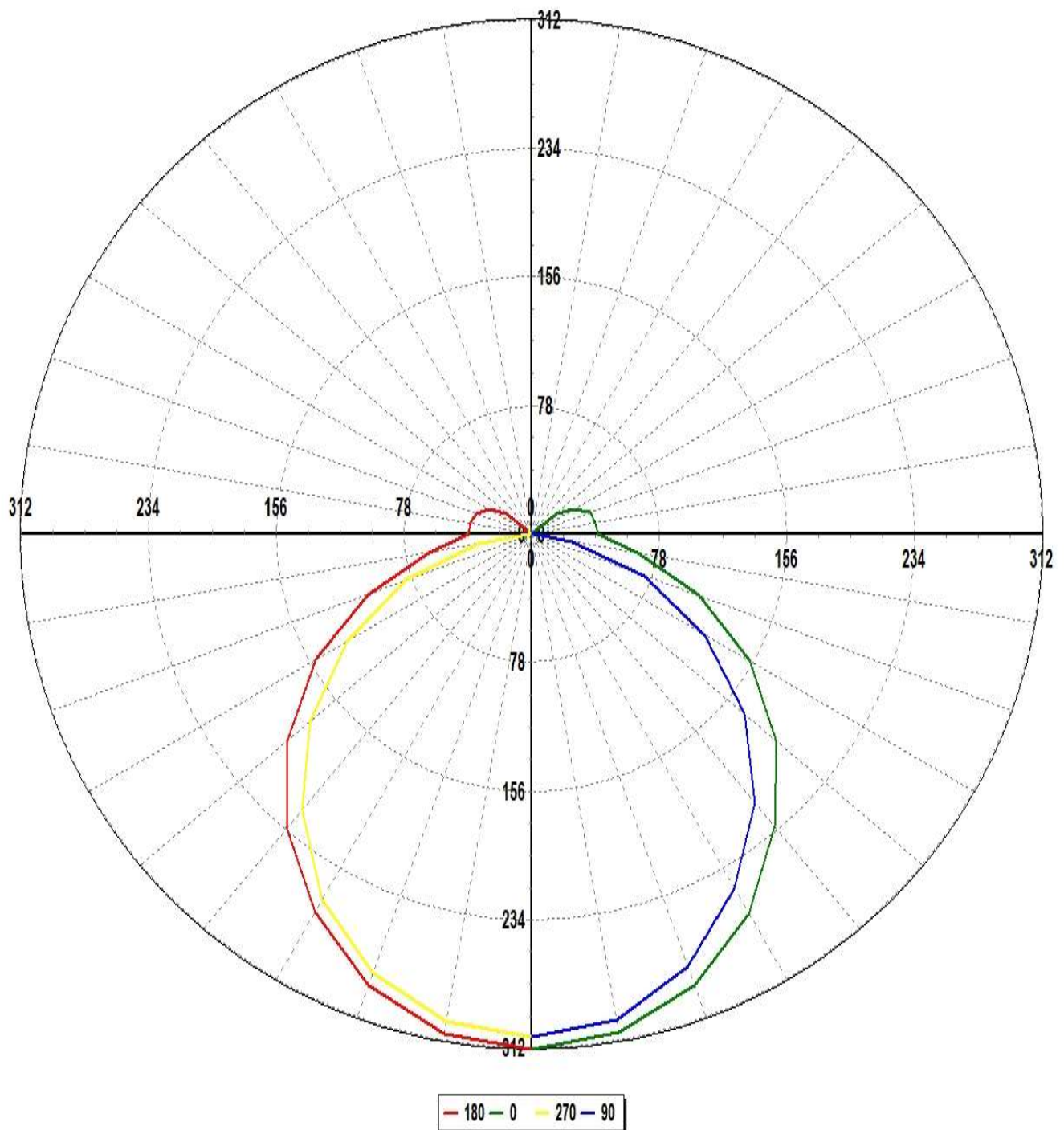
Total flux (lm) 760

Power Factor

0Date2

2022-03-10 오후 5:41:03

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

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YKI

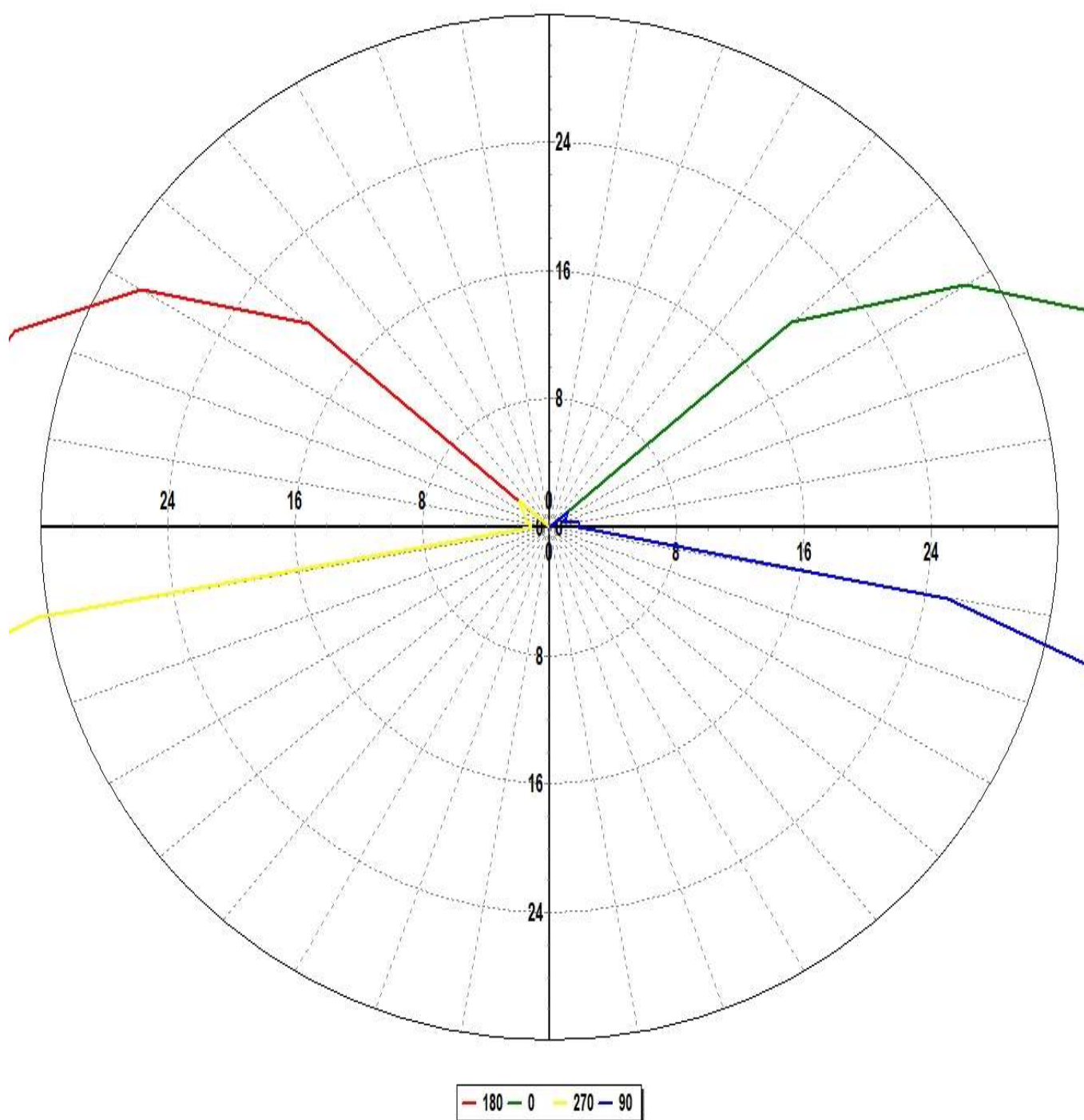
Total flux (lm) 760

Power Factor

0Date2

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## Luminous Intensity Distribution (Lowest 10%)



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Current (A)

0.(Operator

YKI

Total flux (lm) 760

Power Factor

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## Luminous Intensity Data

Maximum (cd) : 237

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	237.46	235.83	234.46	231.93	231.39	231.22	237.46	235.83	234.46	231.93	231.39
10	233.26	229.98	228.18	227.24	227.48	226	233.78	232.19	230.2	228.07	228.04
20	221.19	218.25	215.4	212.5	213.13	213.1	221.25	219.26	216.04	215.29	215.13
30	201.58	198.18	196	188.38	191.67	191.91	200.9	200.26	196.82	194.32	195.19
40	175.62	171.92	167.04	161.43	165	166.99	176.99	174.95	169.13	165.88	169.1
50	148.43	143.42	136.12	129.26	133.88	136.63	147.83	144.98	138.45	134.52	138.63
60	117.13	111.64	102.99	93	99.9	105.04	115.55	112.6	105.39	98.56	106.18
70	82.82	77.9	67.61	55.79	64.5	70.77	81.07	78.74	68.9	61.59	71.45
80	50.11	45.4	32.66	19.3	29.67	39.09	48.23	45.22	33.52	24.78	36.49
90	30.92	25.44	13.9	1.38	13.09	23.86	29.09	24	12.76	0.86	13.79
100	30.08	25.7	13.52	1.46	13.04	23.95	28.87	24.05	12.44	1.01	13.91
110	29.07	23.86	10.92	0.6	10.55	21.82	27.18	22.56	10.5	1.23	12.21
120	22.88	19.07	1.66	0.95	1.4	16.77	22.53	19.6	1.58	1.48	1.58
130	15.06	8.74	5.99	1.18	5.92	5.6	14.97	9.74	5.21	1.9	5.51

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Current (A)

0.(Operator

YKI

Total flux (lm) 760

Power Factor

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## Luminous Intensity Data (Continued)

Maximum (cd) : 237

Minimum (cd) : 1

G/C	330	360
0	231.22	237.46
10	228.06	233.26
20	216.89	221.19
30	197.04	201.58
40	172.52	175.62
50	145.17	148.43
60	115.55	117.13
70	81.21	82.82
80	49.18	50.11
90	26.16	30.92
100	25.33	30.08
110	24.35	29.07
120	20.13	22.88
130	9.25	15.06

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Power Factor

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## Luminous Flux Table

Total Lamp Lumens: 759.59

Luminaire Efficiency (lm/W): 74.11

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	5.59	5.59	0.74	0.74
10	43.62	49.21	6.48	6.48
20	81.08	130.29	17.15	17.15
30	107.34	237.64	31.28	31.29
40	119.48	357.12	47.01	47.01
50	117.27	474.39	62.45	62.45
60	101.45	575.84	75.81	75.81
70	73.96	649.80	85.55	85.55
80	40.78	690.58	90.91	90.91
90	19.65	710.22	93.50	93.50
100	19.18	729.40	96.02	96.03
110	16.71	746.11	98.22	98.23
120	10.25	756.36	99.57	99.58
130	3.23	759.59	100.00	100.00



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0.(Operator

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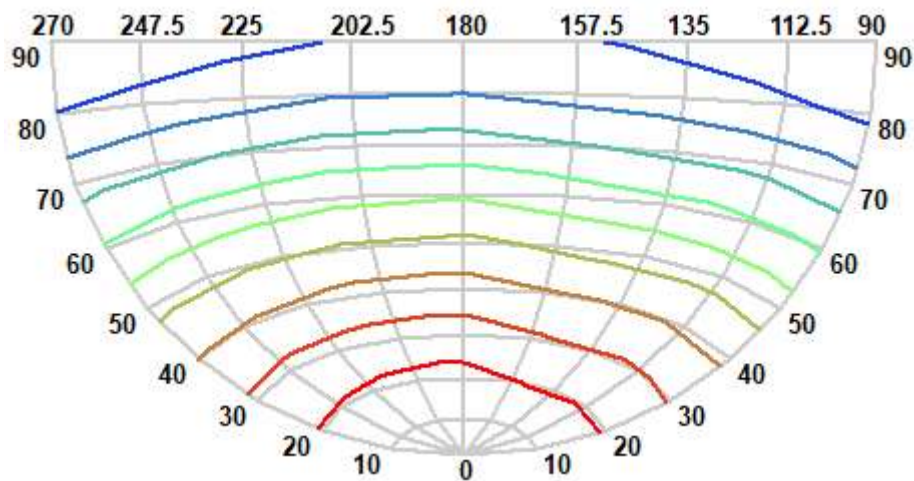
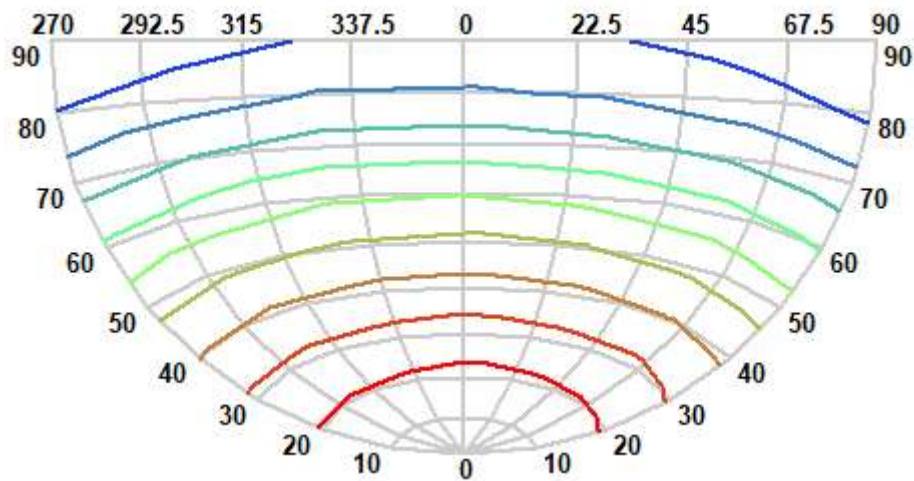
Total flux (lm) 760

Power Factor

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## IsoCandela (Type C)





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Lamp flux (lm) 760

Current (A)

0.(Operator

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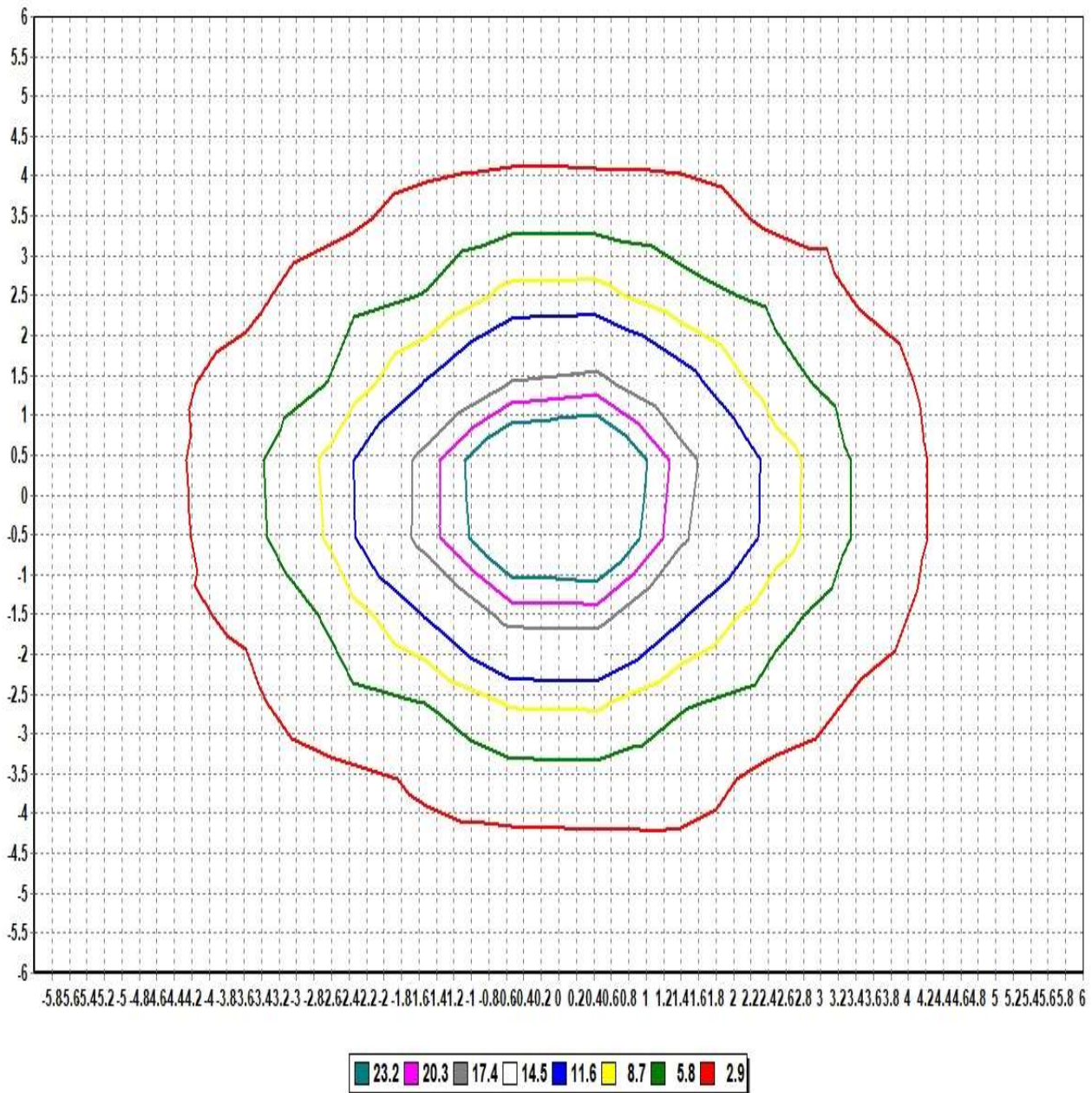
Total flux (lm) 760

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

220310

No. of lamps 1

Voltage (V)

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Lamp flux (lm) 760

Current (A)

0.(Operator

YKI

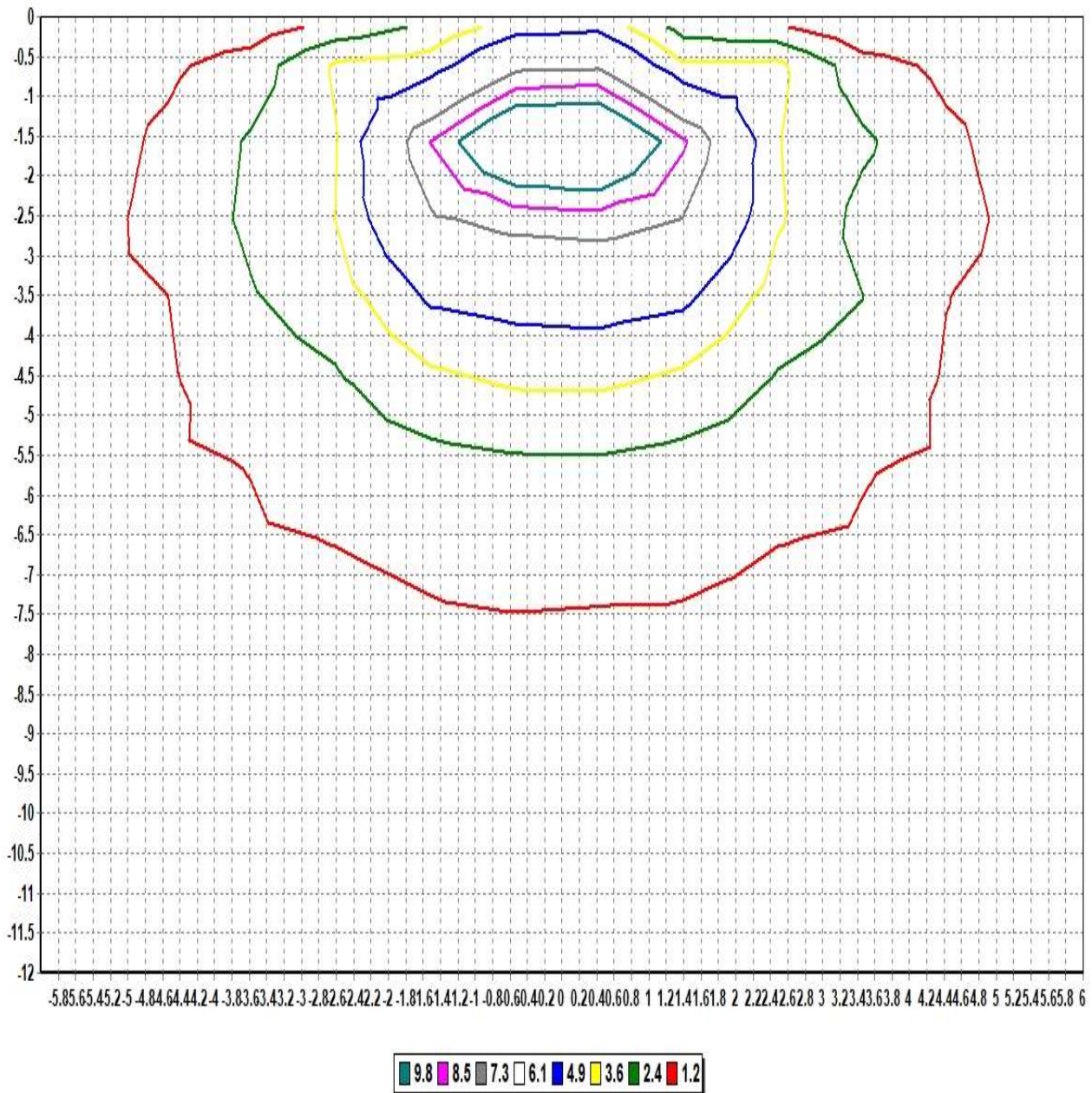
Total flux (lm) 760

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)	120.25
Lamp flux (lm)	760	Current (A)	0.08758
Total flux (lm)	760	Power Factor	0.9732

Report	220310
Filename	NDF10 40K-120V FLICKERFREE 28LM9.jdt
Operator	YKI
Date	2022-03-10 오후 5:41:03

## Illuminance Levels (Ground)

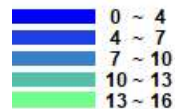
6.00	0.34	0.44	0.35	0.50	0.60	0.71	0.68	0.68	0.70	0.59	0.42	0.49	0.41
5.00	0.48	0.39	0.55	0.75	1.49	1.78	1.82	1.75	1.61	0.87	0.65	0.52	0.54
4.00	0.42	0.63	1.27	1.83	1.95	2.47	2.58	2.46	2.16	1.95	1.44	0.73	0.50
3.00	0.51	0.89	1.92	2.23	4.48	5.02	5.57	5.33	4.67	2.59	2.09	1.01	0.61
2.00	0.65	1.52	1.97	4.64	6.47	10.38	12.16	10.80	7.05	4.92	2.19	1.66	0.75
1.00	0.84	1.92	2.73	5.12	10.42	18.63	25.65	19.51	10.86	5.51	2.84	1.97	0.87
0.00	0.91	2.10	3.09	6.31	13.19	26.40	32.57	26.34	13.14	6.32	3.12	2.11	0.92
-1.00	0.80	1.89	2.71	5.54	11.04	19.57	25.75	19.03	10.68	5.35	2.85	1.98	0.88
-2.00	0.75	1.67	2.21	4.95	7.10	10.98	12.51	10.63	6.68	4.82	2.10	1.60	0.71
-3.00	0.61	0.99	2.09	2.59	4.73	5.41	5.78	5.20	4.62	2.35	2.04	0.99	0.57
-4.00	0.49	0.73	1.45	1.98	2.19	2.55	2.71	2.55	2.06	1.91	1.33	0.71	0.48
-5.00	0.53	0.52	0.66	0.88	1.63	1.81	1.89	1.82	1.56	0.81	0.60	0.43	0.52
-6.00	0.41	0.50	0.43	0.60	0.71	0.72	0.73	0.74	0.65	0.55	0.38	0.47	0.36
-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.) : 32.574

Illum. (Min.) : 0.3362

Illum. (Avg.) : 3.7918

All illuminance level values are in lux.





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Lamp

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Lamp flux (lm) 760

Current (A)

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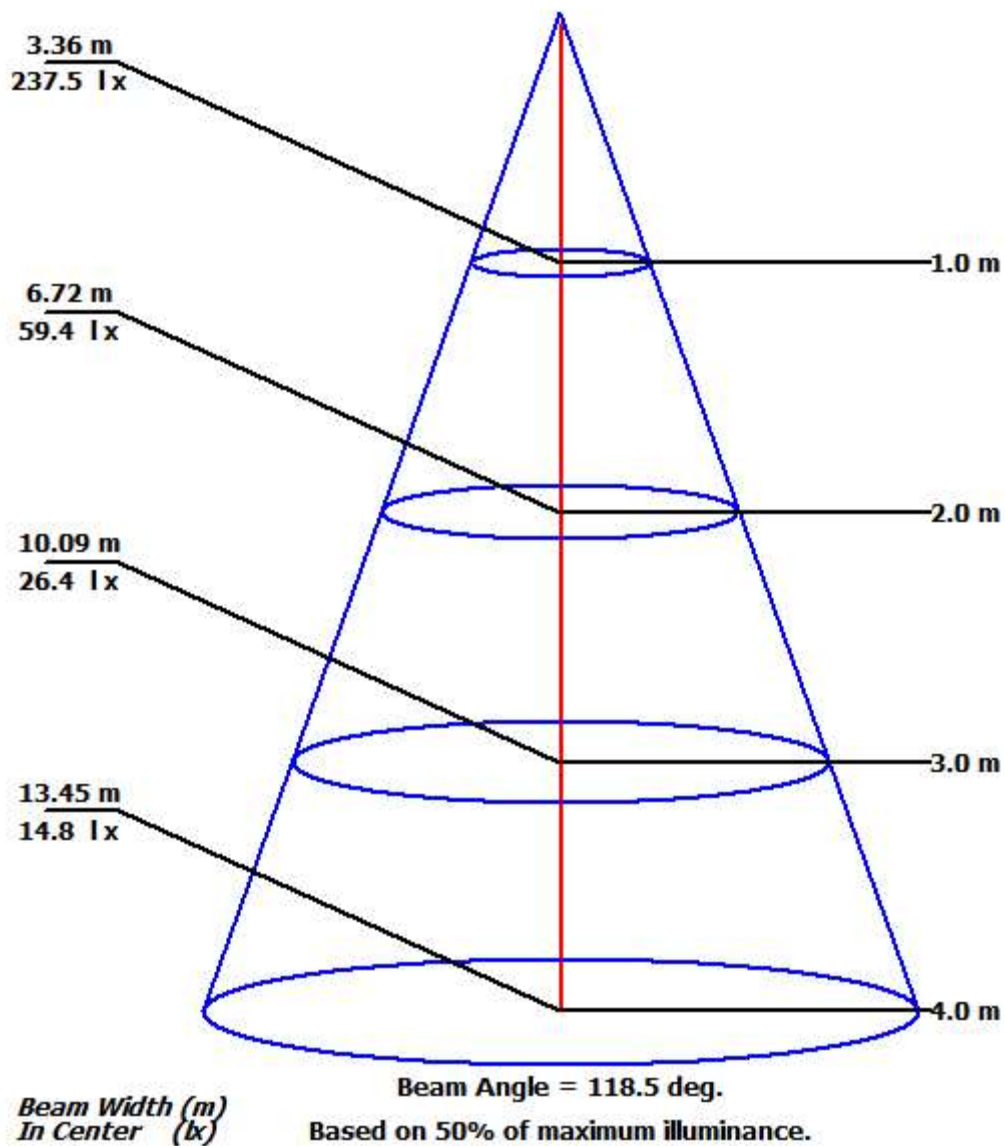
Total flux (lm) 760

Power Factor

0Date2

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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

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No. of lamps 1

Voltage (V) 120.25

Filename NDF10 40K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 760

Current (A) 0.08758

Operator YKI

Total flux (lm) 760

Power Factor 0.9732

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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