

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 :** / NDF5 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	%	23.0	
CIE 1931 Cx, Cy		0.3839 , 0.3720	
Correlated Color Temperature	K	3875	
Ra		94.77	
Power Factor		0.975	
Input Voltage	V	120.31	
Input Current	A	0.043	
Input Watt	W	5.0543	
Lamp Flux	lm	377.7	
Efficient	lm/W	74.73	
luminous Intensity (Max , Center)	cd	120 , 120	
Illuminance	lx	120	1 m
		30	2 m
		13	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)

12Filename NDF5 40K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 378

Current (A)

0.04Operator

YKI

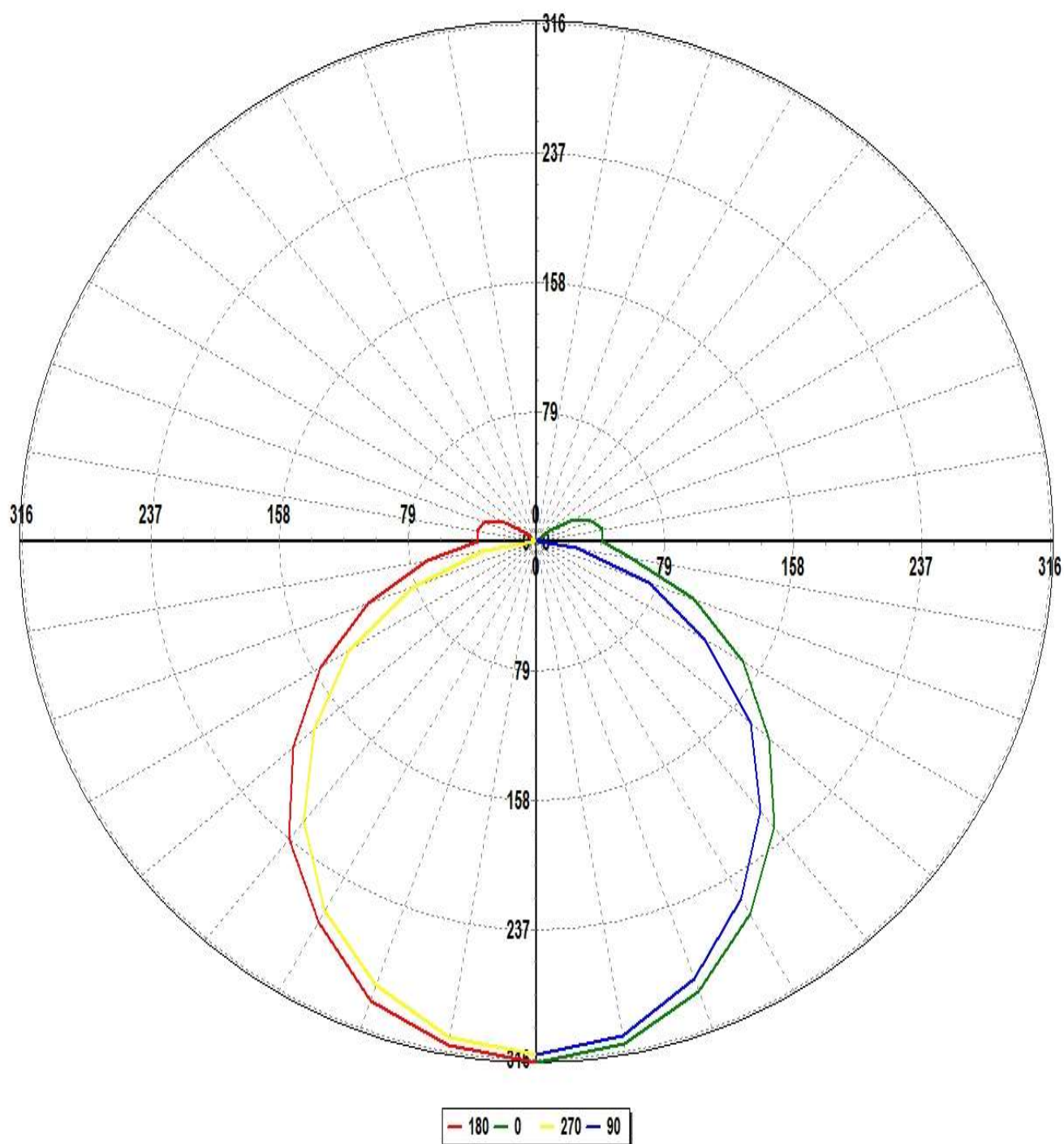
Total flux (lm) 378

Power Factor

0.9Date

2022-03-10 오후 4:14:55

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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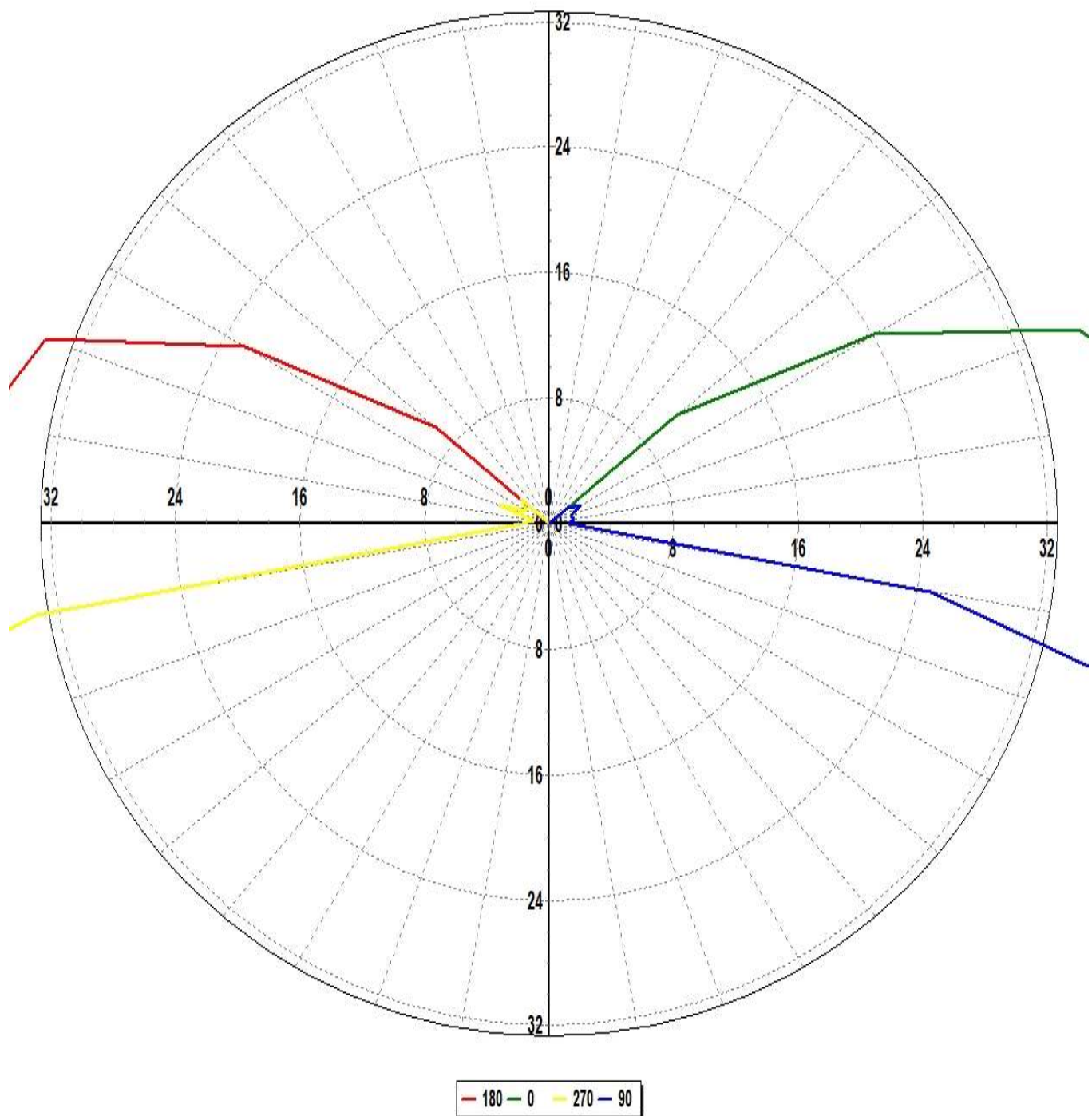
Total flux (lm) 378

Power Factor

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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Luminous Intensity Data

Maximum (cd) : 120

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	120	118.78	119.11	118.08	117.59	116.77	120	118.78	119.11	118.08	117.59
10	117.42	116.32	115.99	115.41	115	115.75	117.71	117.92	116.08	116	115.5
20	110.16	109.17	108.92	107.24	107.89	107.94	112.62	111.76	110.9	108.75	108.22
30	99.1	98.26	96.92	94.97	96.16	97.6	101.15	102.21	99.48	98.41	98.6
40	85.95	84.93	82.52	81.02	83.15	84.23	89.31	88.89	85.57	83.93	85.15
50	70.61	69.71	66.54	64.94	67.36	69.67	73.75	73.5	69.79	67.39	69.48
60	55.35	53.15	49.41	45.17	50.12	53.72	57.92	56.87	53.11	50.26	51.83
70	38.7	36.62	32.27	27.72	32.48	36.96	41.62	40.19	34.84	30.68	34.61
80	22.54	19.32	14.26	9.39	16.06	21.11	25.62	23.72	18.61	12.63	17.51
90	15.47	13.13	7.42	0.48	6.52	11.55	13.58	12.11	7.12	0.64	7.35
100	15.72	12.42	6.46	0.61	5.96	10.82	13.98	11.42	5.92	0.38	6.98
110	13.67	11.61	5.23	0.56	5.21	10.44	12.99	10.76	5.35	1.29	5.89
120	9.1	10.05	1.27	0.89	0.84	9.52	8.53	9.65	0.36	0.64	1.11
130	4.04	2.67	2.49	0.58	2.61	1.91	3.59	3.26	3.37	0.91	1.46

Luminaire KH FEELUX

Lamp			Report	220310
No. of lamps	1	Voltage (V)	12	Filename NDF5 40K-120V FLICKERFREE 28LM9.jdt
Lamp flux (lm)	378	Current (A)	0.04	Operator YKI
Total flux (lm)	378	Power Factor	0.9	Date 2022-03-10 오후 4:14:55

Luminous Intensity Data (Continued)

Maximum (cd) : 120

Minimum (cd) : 0

G/C	330	360
0	116.77	120
10	115.91	117.42
20	109.3	110.16
30	98.43	99.1
40	85.26	85.95
50	70.88	70.61
60	55.46	55.35
70	38.58	38.7
80	22.43	22.54
90	12.71	15.47
100	11.85	15.72
110	11.35	13.67
120	10.3	9.1
130	3.82	4.04

Luminaire KH FEELUX

Lamp

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Luminous Flux Table

Total Lamp Lumens: 377.67

Luminaire Efficiency (lm/W): 74.72

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.83	2.83	0.75	0.75
10	22.11	24.94	6.60	6.60
20	40.98	65.92	17.45	17.46
30	53.91	119.83	31.73	31.73
40	59.83	179.66	47.57	47.57
50	58.28	237.95	63.00	63.00
60	49.98	287.93	76.23	76.24
70	36.47	324.40	85.89	85.90
80	20.06	344.47	91.20	91.21
90	9.86	354.33	93.81	93.82
100	9.21	363.54	96.25	96.26
110	8.09	371.64	98.39	98.40
120	4.92	376.56	99.70	99.71
130	1.11	377.67	99.99	100.00

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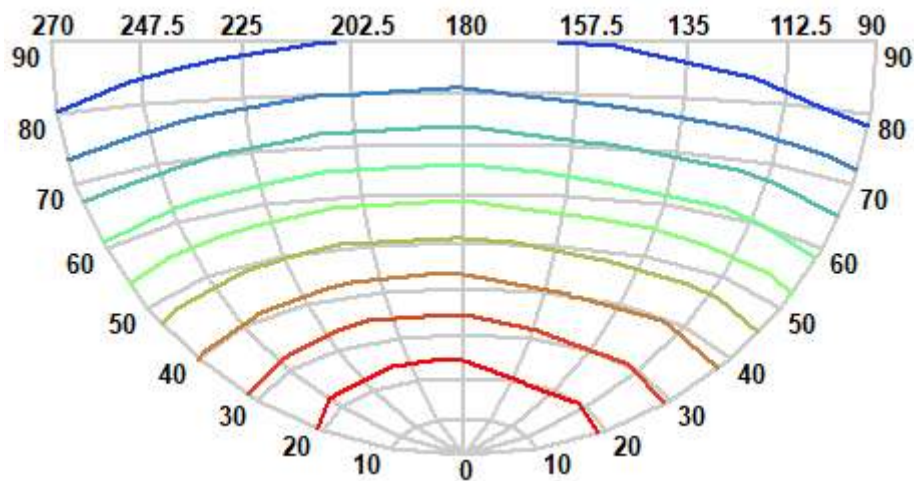
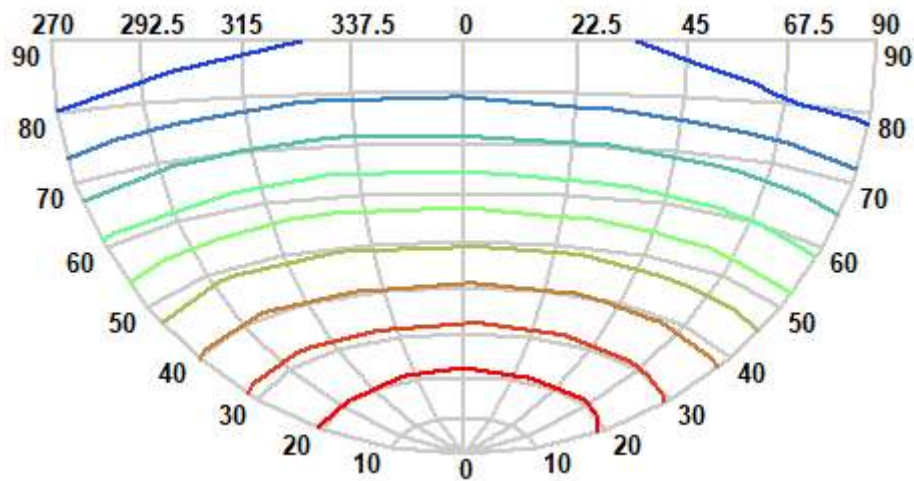
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IsoCandela (Type C)



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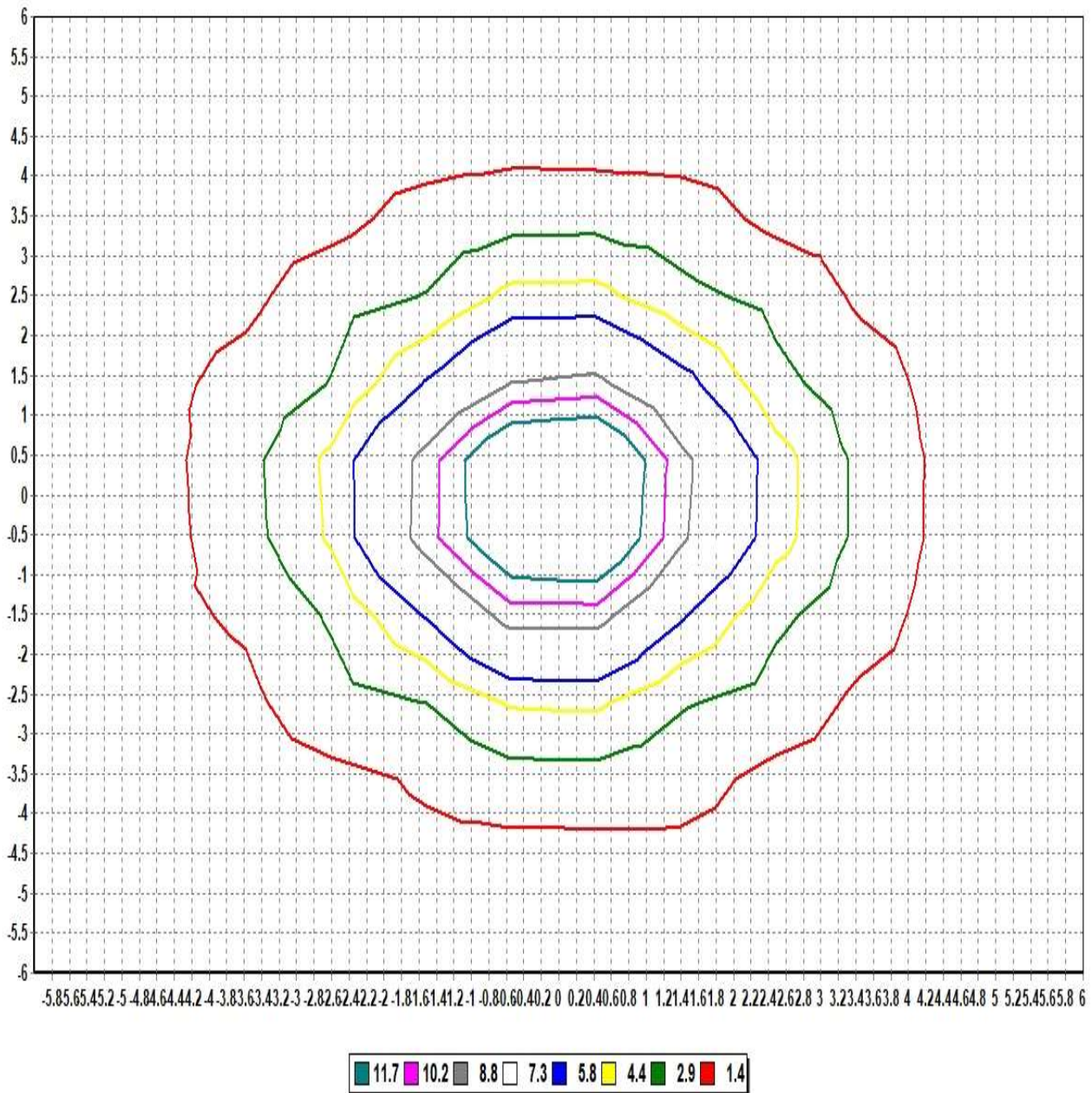
Total flux (lm) 378

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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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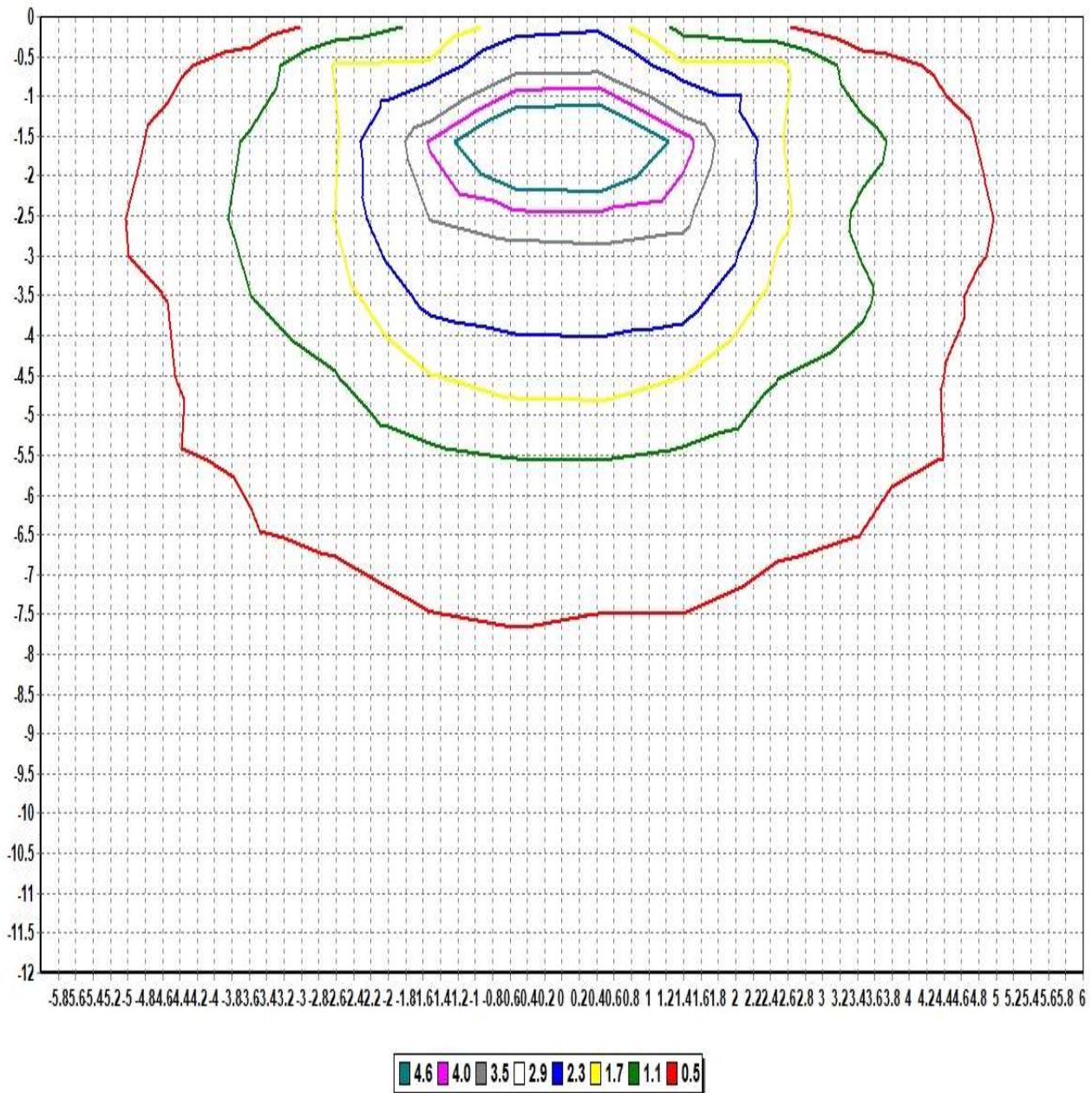
Total flux (lm) 378

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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)	120.31
Lamp flux (lm)	378	Current (A)	0.04311
Total flux (lm)	378	Power Factor	0.9745

Report

220310

Filename NDF5 40K-120V FLICKERFREE 28LM9.jdt

Operator

YKI

Date

2022-03-10 오후 4:14:55

Illuminance Levels (Ground)

6.00	0.17	0.22	0.17	0.25	0.30	0.34	0.33	0.33	0.33	0.28	0.20	0.23	0.19
5.00	0.24	0.20	0.27	0.37	0.75	0.87	0.91	0.87	0.78	0.41	0.31	0.24	0.25
4.00	0.22	0.33	0.63	0.92	0.98	1.20	1.28	1.20	1.03	0.95	0.69	0.34	0.23
3.00	0.26	0.46	0.98	1.11	2.25	2.52	2.80	2.60	2.30	1.24	1.00	0.48	0.29
2.00	0.33	0.77	0.99	2.35	3.25	5.23	6.11	5.34	3.42	2.39	1.05	0.80	0.35
1.00	0.43	0.97	1.38	2.59	5.25	9.38	13.03	9.66	5.36	2.66	1.36	0.95	0.41
0.00	0.46	1.05	1.54	3.16	6.65	13.30	16.46	13.26	6.44	3.03	1.48	1.00	0.43
-1.00	0.41	0.95	1.37	2.79	5.60	9.93	13.09	9.62	5.37	2.66	1.36	0.95	0.41
-2.00	0.38	0.84	1.11	2.49	3.58	5.58	6.33	5.36	3.36	2.38	1.03	0.79	0.34
-3.00	0.31	0.50	1.05	1.30	2.39	2.74	2.90	2.61	2.33	1.17	1.00	0.47	0.27
-4.00	0.25	0.37	0.73	1.00	1.10	1.29	1.37	1.29	1.02	0.96	0.66	0.34	0.23
-5.00	0.27	0.26	0.33	0.45	0.83	0.91	0.95	0.92	0.78	0.41	0.30	0.21	0.25
-6.00	0.20	0.25	0.22	0.31	0.36	0.36	0.37	0.37	0.32	0.27	0.19	0.23	0.18
-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.) : 16.462

Illum. (Min.) : 0.1664

Illum. (Avg.) : 1.8960

All illuminance level values are in lux.



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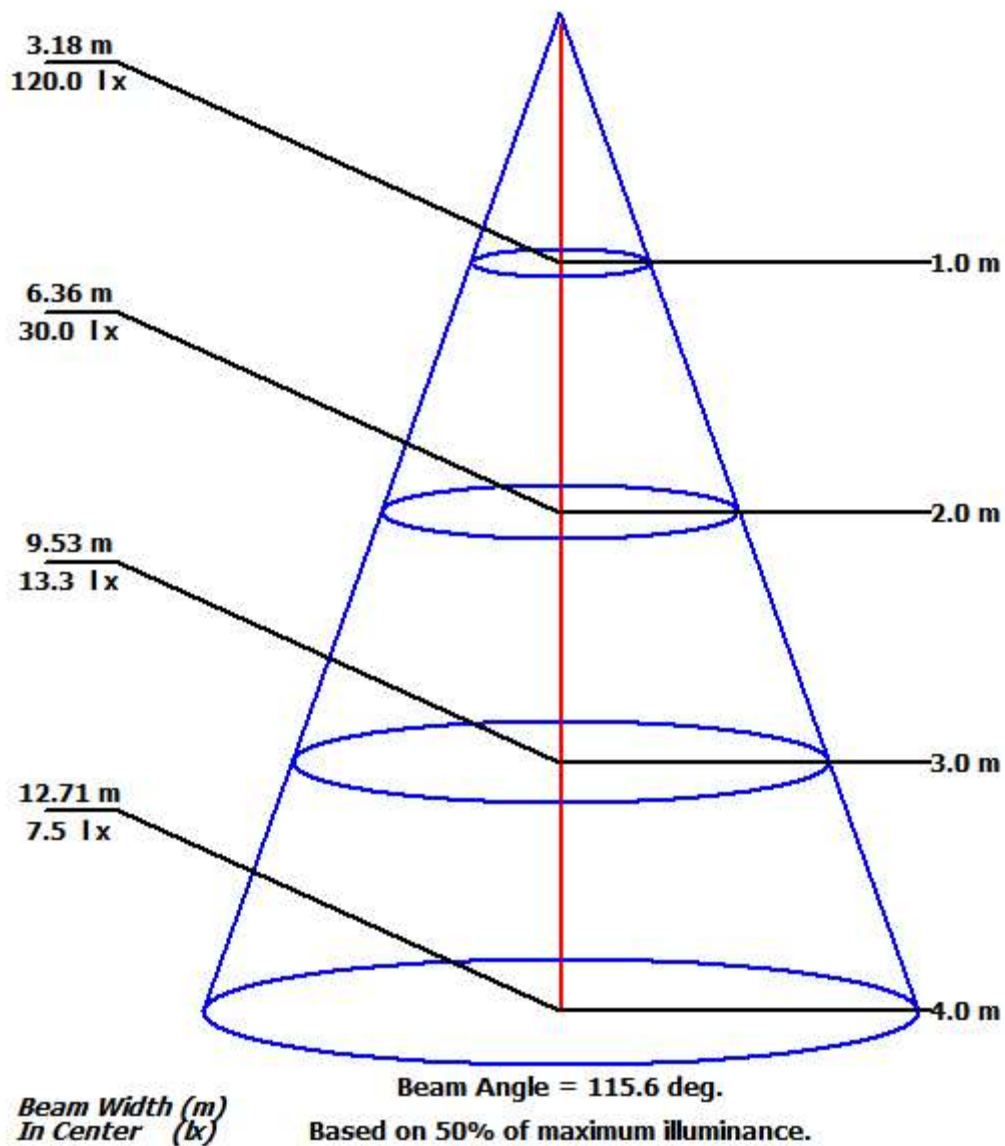
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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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No. of lamps 1 Voltage (V) 120.31

Filename NDF5 40K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 378 Current (A) 0.04311

Operator YKI

Total flux (lm) 378 Power Factor 0.9745

Date 2022-03-10 오후 4:14:55

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