

# TEST REPORT

## 1. Applicant

Client Name : FEELUX Co. Ltd.

Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-si Gyeonggi-do 482-844 Korea

Date of Receipt : 190327

## 2. Purpose of Report :

## 3. Test Standard / Item : LED / 190327 FN1 60K-24V

## 4. Test Period : 190327 ~ 190327

## 5. Test Environment

Ambient Temp. : ( 0 +- 3 ) °C

Relative Humidity : ( 0 +- 10 ) % RH

## 6. Test Result : Refer to the attachment

### Test Item

Name of Product :

FEELUX

Model / Rating :

Model : FEELUX

Rating :

Confirmation	Test by KCH	Technical manager KCH
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The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

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This report is for reference only. It cannot replace the report by standard organization(s).

## TEST RESULT

Report Number	Sample Name	Sample Number	Test Standard
	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3345, 0.3541	
Correlated Color Temperature	K	5416	
Ra	-	80.39	
Power Factor	%	1.000	
Input Voltage	V	23.900	
Input Current	A	0.503	
Input Watt	W	12.02	
Lamp Flux	lm	385.1	
Efficient	lm/W	32.03	
Illuminance	lx	110	1 m
		28	2 m
		12	3 m

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

Sample photo

Click to load image

# Luminaire

## Lamp

No. of lamps 1

Lamp flux (lm) 385

Total flux (lm) 385

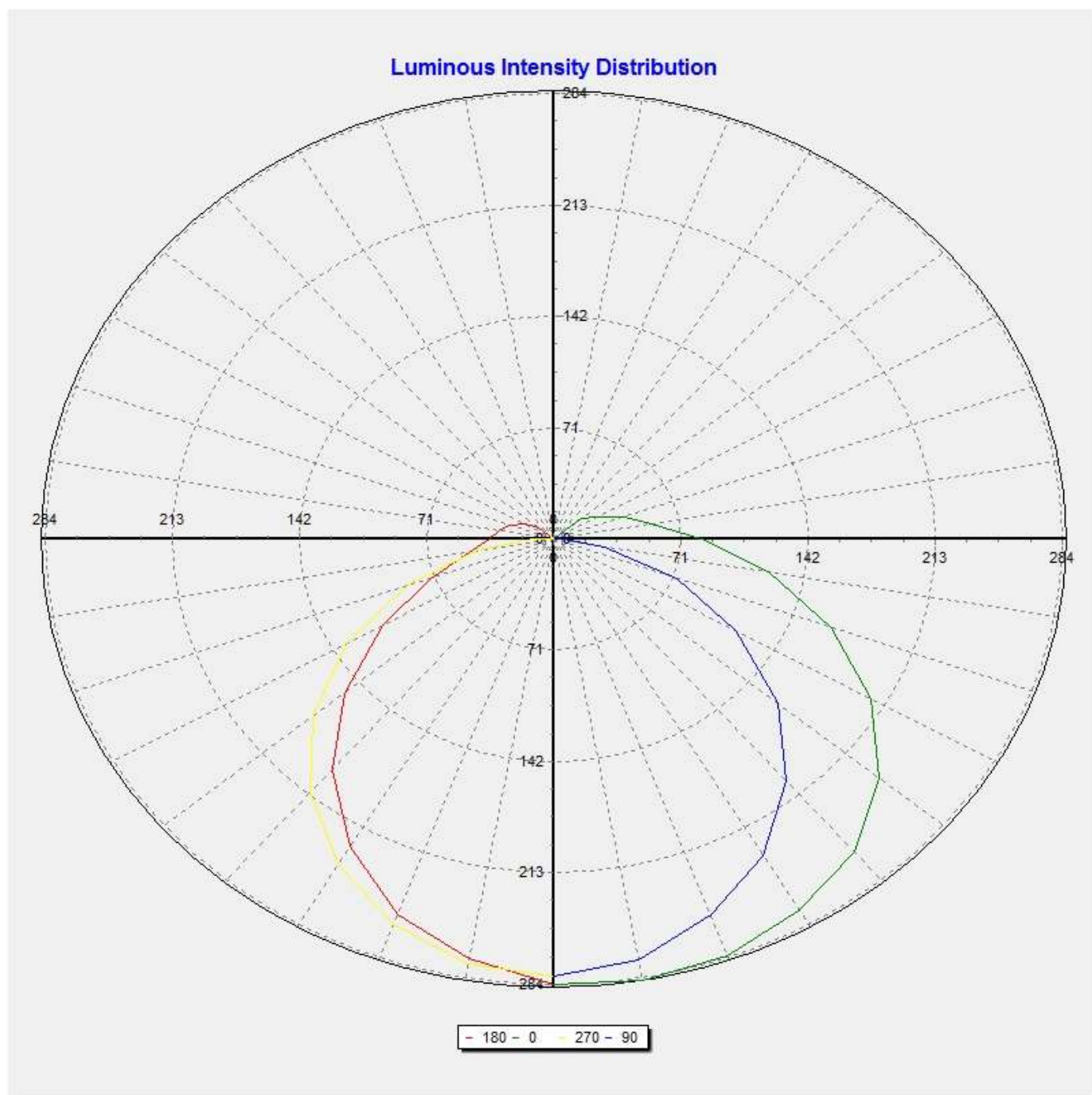
## Report

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190327 FN1 60K-24V.jdt

Operator current (A) 0.503

Date Power Factor 1

2019-03-27 오후 1:29:47



All luminous intensity values are in Cd/KLm unit.

## Luminaire

## Lamp

## Report

No. of lamps 1

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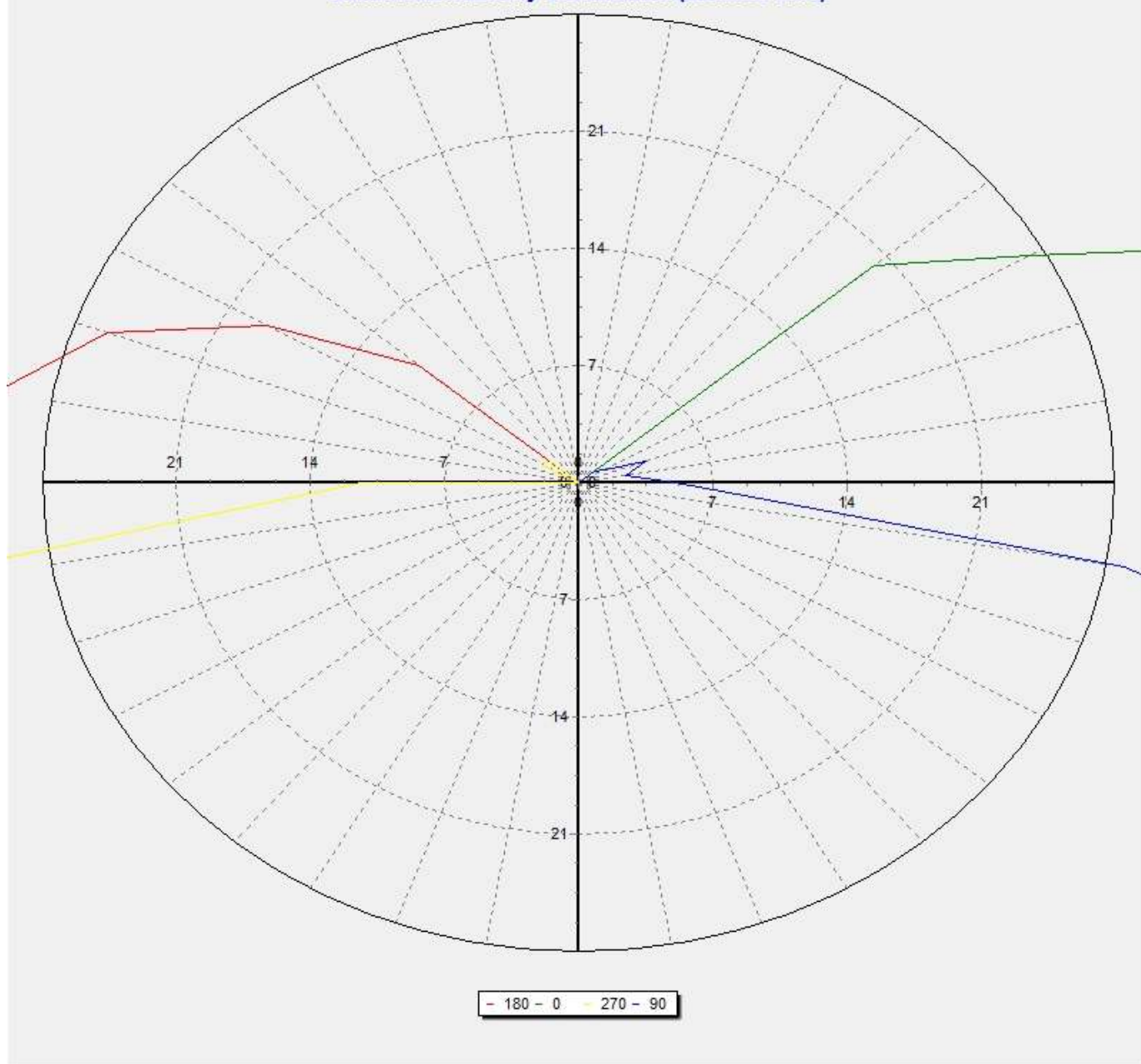
Operator current (A) 0.503

Total flux (lm) 385

Date Power Factor 1

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## Luminous Intensity Distribution (Lowest 10%)



All luminous intensity values are in Cd/Klm unit.

## Luminaire

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## Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	109.32	106.00	106.93	107.47	107.91	107.74	109.32	106.00	106.93	107.47	107.91	107.74	109.32
10	110.09	106.88	105.71	105.05	104.81	103.67	104.78	103.66	103.70	106.16	108.58	109.00	110.09
20	108.87	105.28	101.05	98.31	97.71	95.47	98.05	97.14	98.73	100.77	105.57	107.83	108.87
30	105.34	100.55	94.29	89.85	87.41	84.94	87.36	87.39	88.87	92.46	99.06	104.03	105.34
40	100.33	93.30	84.17	77.72	74.48	70.98	73.85	74.72	77.79	81.39	90.02	97.98	100.33
50	91.33	83.13	71.89	62.77	58.43	54.70	58.79	60.14	62.78	67.43	78.38	89.35	91.33
60	78.60	70.05	57.33	45.13	41.34	38.92	42.37	44.58	46.46	51.34	64.56	75.86	78.60
70	63.31	54.40	40.29	28.00	24.05	24.95	28.04	29.09	29.50	33.34	48.28	60.63	63.31
80	46.69	38.66	24.07	11.12	12.31	15.66	18.45	16.99	14.61	16.41	30.53	43.07	46.69
90	31.62	24.74	12.44	1.96	7.07	11.35	13.69	12.37	6.82	4.36	14.68	28.38	31.62
100	21.14	16.76	8.42	0.95	5.49	9.87	11.93	10.42	4.80	-0.28	8.50	18.58	21.14
110	16.04	12.58	4.74	1.45	3.22	8.34	10.09	8.67	2.42	0.24	3.13	12.99	16.04
120	10.46	8.77	0.80	0.60	0.84	5.35	7.23	5.73	1.20	0.85	2.96	7.50	10.46
130	7.74	2.88	3.94	0.41	1.92	1.39	4.18	2.27	2.12	0.80	2.36	4.10	7.74

# Luminaire

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## Luminous Flux Table

Total Lamp Lumens: 385

Luminaire Efficiency (lm/W):385.11

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.57	2.57	0.67	0.67
10	20.16	22.73	5.90	5.90
20	37.92	60.65	15.75	15.75
30	51.18	111.83	29.04	29.04
40	58.48	170.31	44.22	44.22
50	58.67	228.98	59.46	59.46
60	51.89	280.87	72.94	72.93
70	39.78	320.66	83.27	83.26
80	25.94	346.60	90.00	90.00
90	15.47	362.06	94.02	94.02
100	10.48	372.54	96.74	96.74
110	7.20	379.74	98.61	98.61
120	4.13	383.87	99.68	99.68
130	1.24	385.11	100.00	100.00

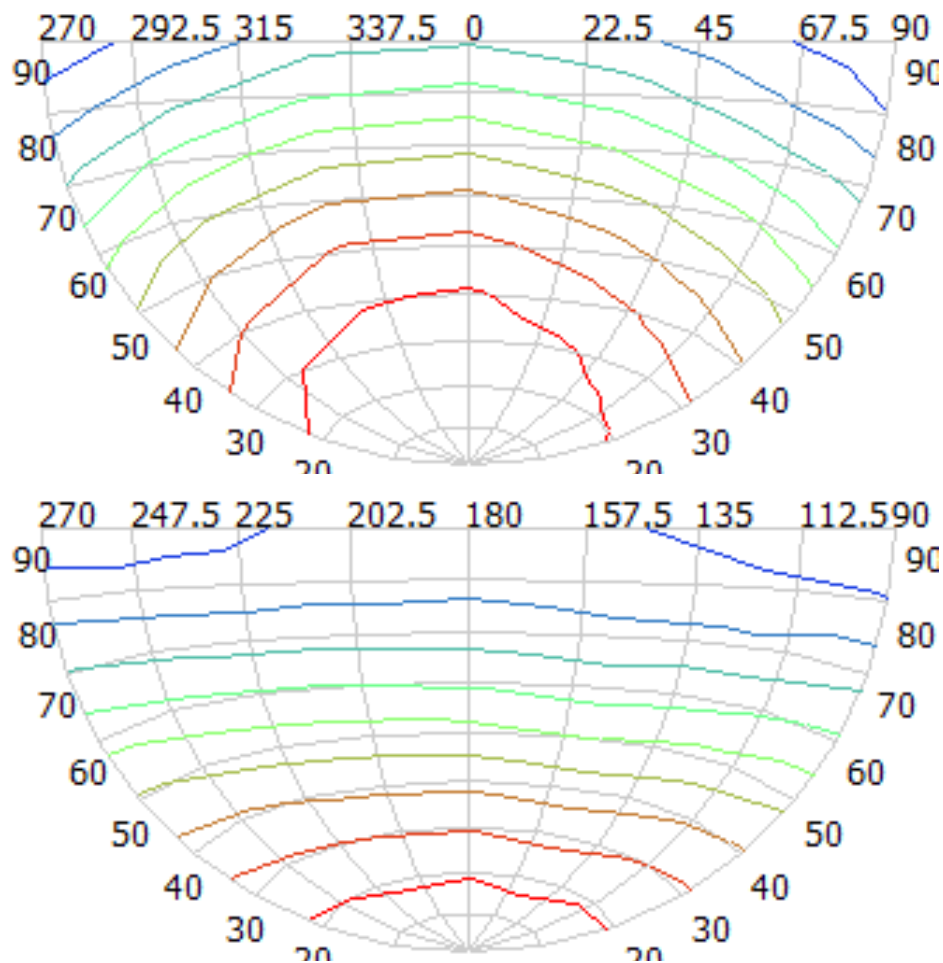
# Luminaire

## Lamp

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## IsoCandela (Type C)



0 ~ 11	55 ~ 66
11 ~ 22	66 ~ 77
22 ~ 33	77 ~ 88
33 ~ 44	88 ~ 99
44 ~ 55	99 ~ 110



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## Report

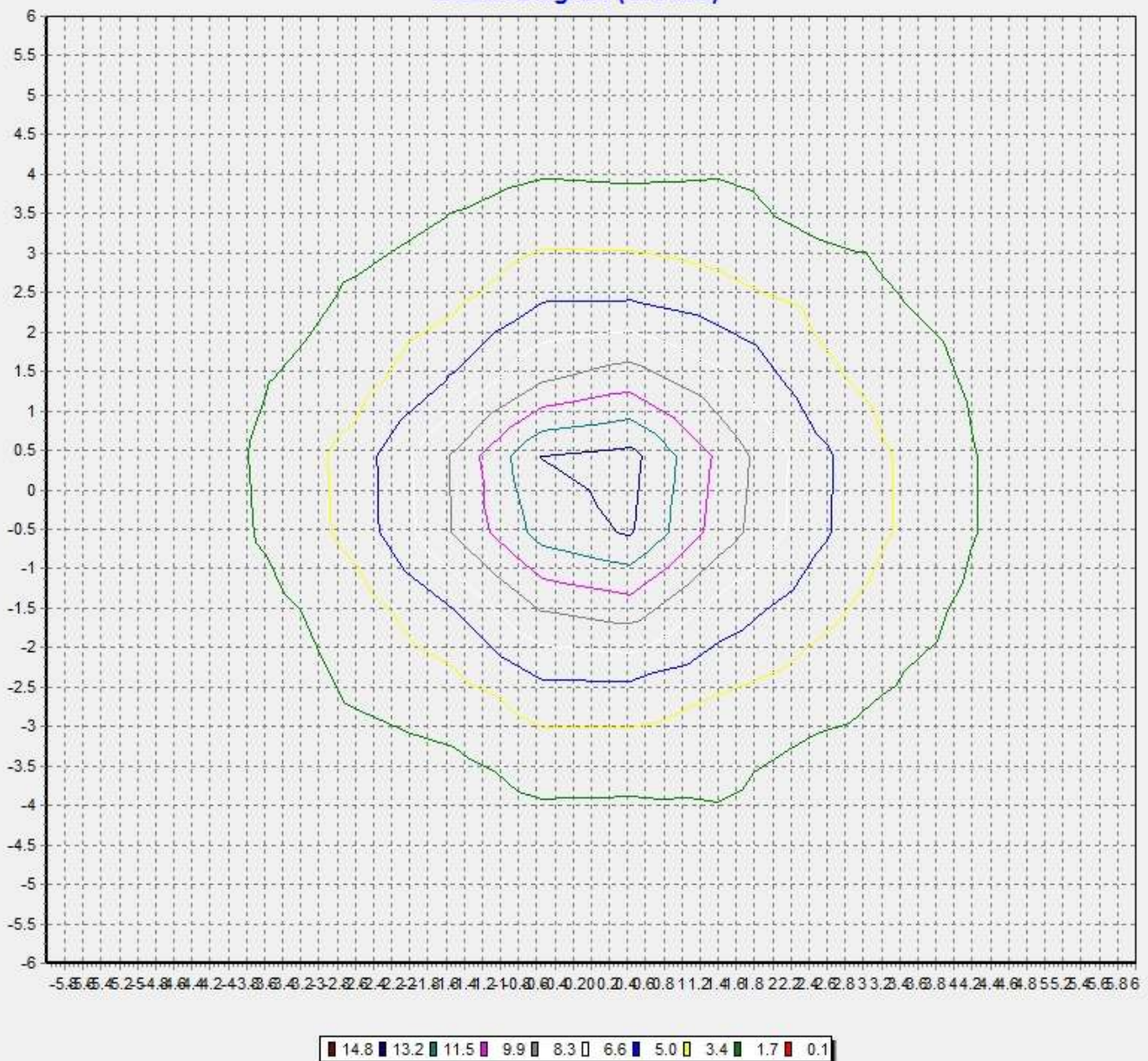
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IsoLux Diagram (Ground)



Pole Height (m): 2.7

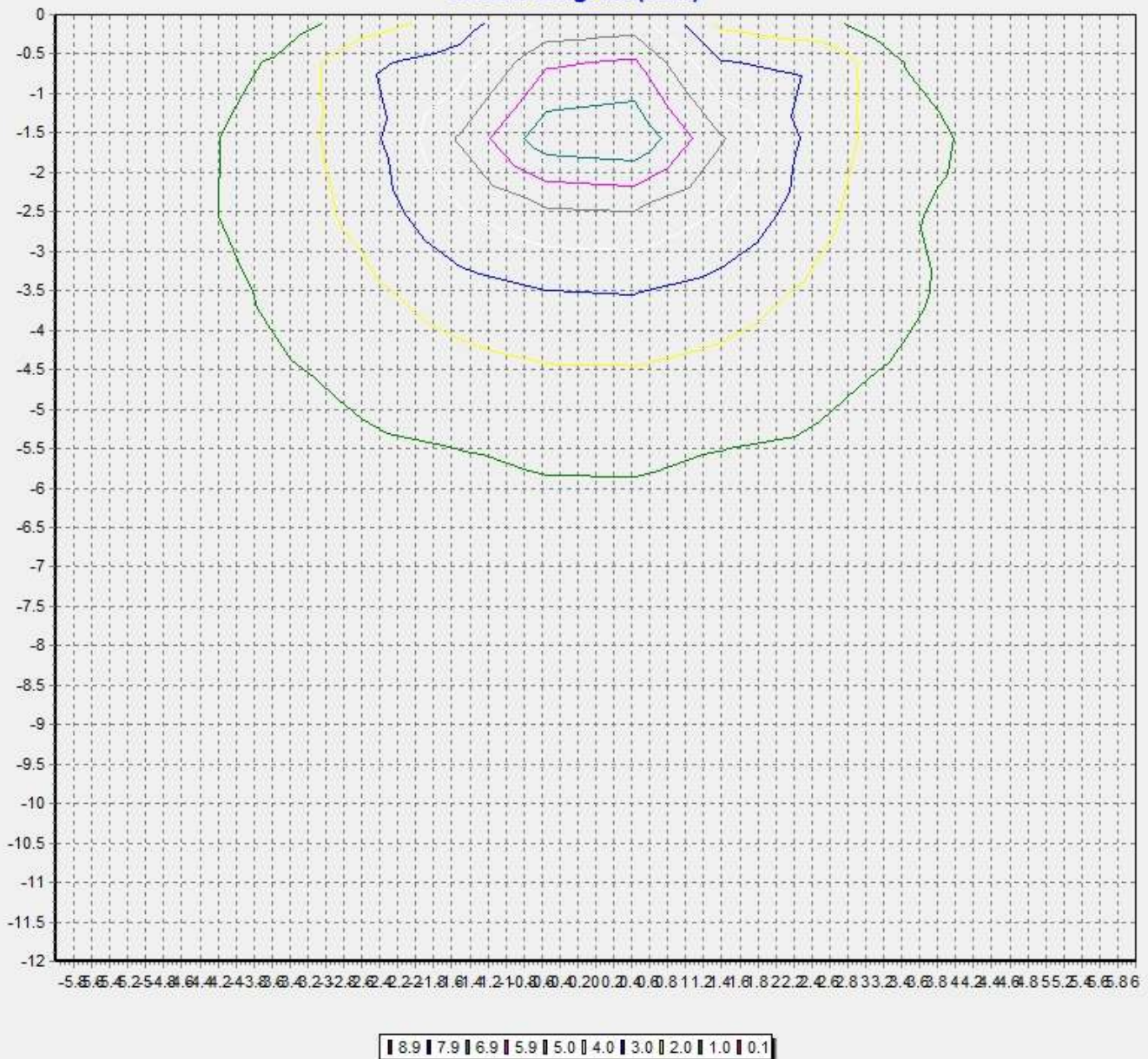
Area Width (m): 12



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IsoLux Diagram (Wall)



Pole Height (m): 2.7 Wall Distance (m): 2.7  
Aiming Plane: 0 Wall Height (m): 12

## Luminaire

## Lamp

No. of lamps	1	Voltage (V)	23.9
Lamp flux (lm)	385	Current (A)	0.503
Total flux (lm)	385	Power Factor	1

## Report

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Operator

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## Illuminance Levels (Ground)

6.00	0.15	0.20	0.17	0.20	0.26	0.40	0.33	0.35	0.45	0.40	0.25	0.29	0.27
5.00	0.18	0.17	0.26	0.37	0.66	0.92	0.88	0.88	0.93	0.50	0.40	0.38	0.36
4.00	0.15	0.23	0.58	0.87	0.83	1.28	1.25	1.26	1.33	1.06	0.89	0.52	0.37
3.00	0.20	0.32	0.78	1.01	2.14	2.29	2.70	2.98	2.41	1.65	1.29	0.72	0.42
2.00	0.24	0.64	0.81	1.96	2.99	4.72	5.83	5.80	4.10	2.85	1.37	1.00	0.52
1.00	0.30	0.76	1.04	2.17	4.67	8.66	11.86	9.91	5.91	3.26	1.84	1.23	0.62
0.00	0.32	0.83	1.18	2.54	5.59	11.83	15.00	12.45	7.26	3.82	2.01	1.31	0.66
-1.00	0.29	0.74	1.03	2.27	4.71	8.56	11.99	9.30	5.72	3.12	1.84	1.23	0.63
-2.00	0.28	0.67	0.87	2.04	2.93	4.73	6.07	5.60	3.50	2.78	1.28	0.95	0.48
-3.00	0.23	0.36	0.83	1.01	2.15	2.32	2.88	2.81	2.31	1.31	1.25	0.69	0.38
-4.00	0.17	0.26	0.57	0.88	0.88	1.22	1.39	1.22	1.22	0.99	0.73	0.49	0.35
-5.00	0.20	0.19	0.27	0.38	0.69	0.88	0.95	0.86	0.87	0.43	0.34	0.26	0.34
-6.00	0.15	0.21	0.18	0.23	0.28	0.36	0.39	0.34	0.40	0.36	0.21	0.26	0.21
-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.): 15.0

All illuminance level values are in lux.

Illum. (Min.): 0.15

Illum. Avg.: 1.85

Total Optical Solution Provider


<http://www.jnctech.co.kr>  
J & C Technology Co., Ltd.

# Luminaire

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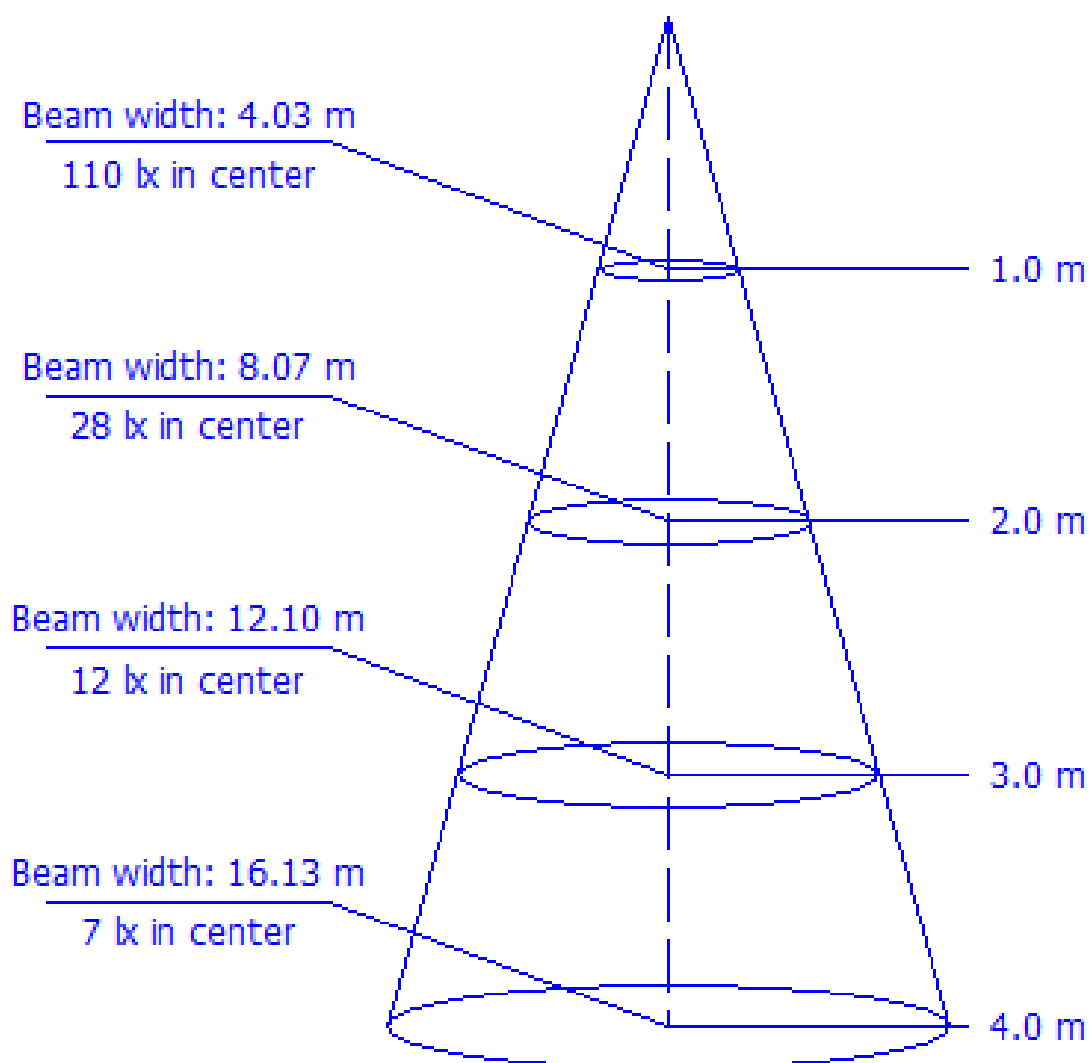
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Date Power Factor 1

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## Illuminance Cone Diagram



Beam Angle = 127 deg.

Based on 50% of maximum illuminance.

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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