

# 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 : 190315

## 2. Purpose of Report :

3. Test Standard / Item : LED / 190315 DDV18 24V-C90-Cool

4. Test Period : 190315 ~ 190315

## 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 CGR	Technical manager CGR
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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
190315	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3373, 0.3518	
Correlated Color Temperature	K	5302	
Ra	-	92.11	
Power Factor	%	1.000	
Input Voltage	V	23.960	
Input Current	A	0.362	
Input Watt	W	8.68	
Lamp Flux	lm	710.8	
Efficient	lm/W	81.95	
Illuminance	lx	296	1 m
		74	2 m
		33	3 m

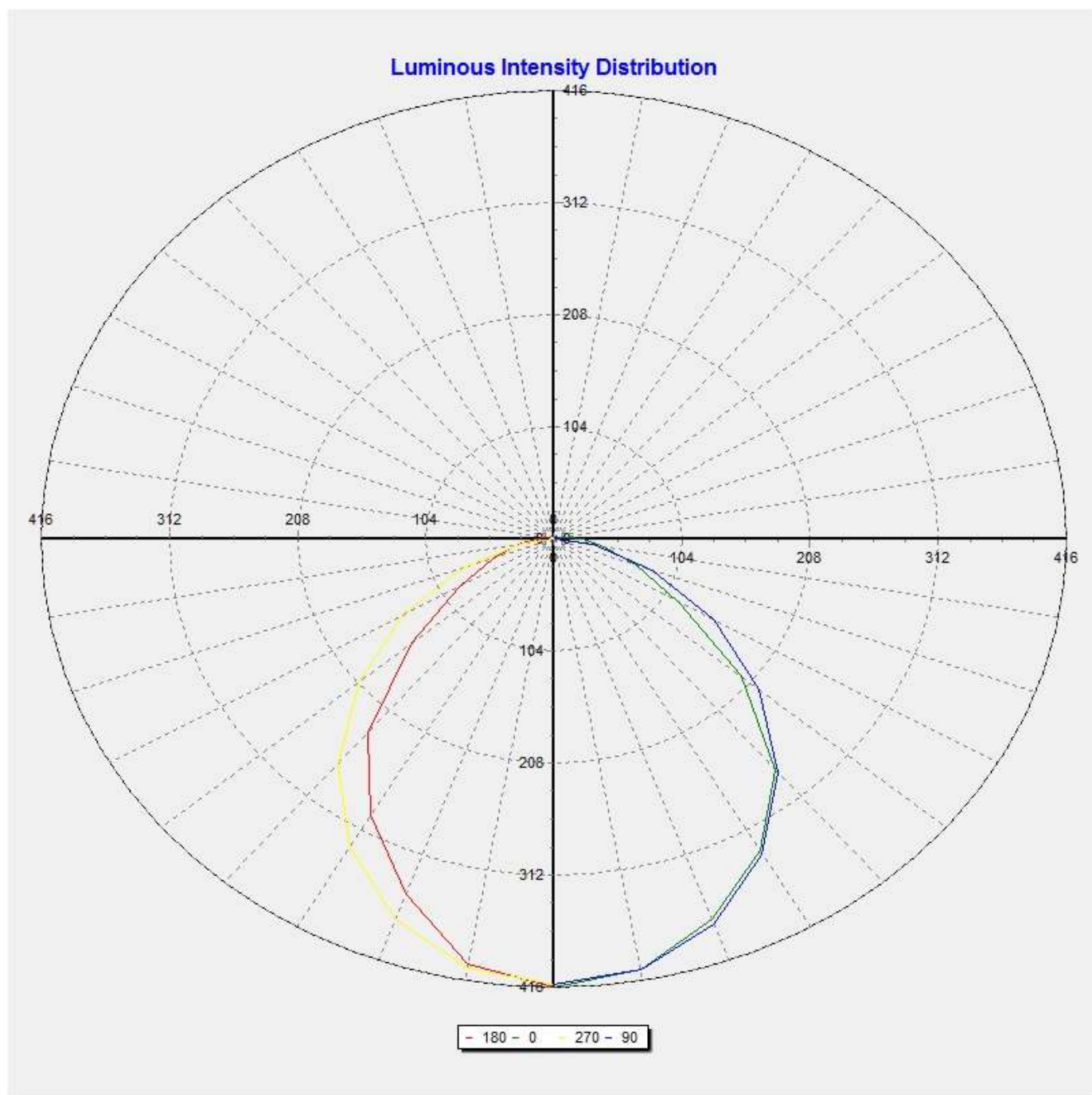
\* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

Lamp	Report	190315
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV18 24V-C90-Cool.jdt	
Lamp flux (lm)	711 Operator	Current (A) 0.362 CGR
Total flux (lm)	711 Date	Power Factor 1 2019-03-15 오후 1:31:49

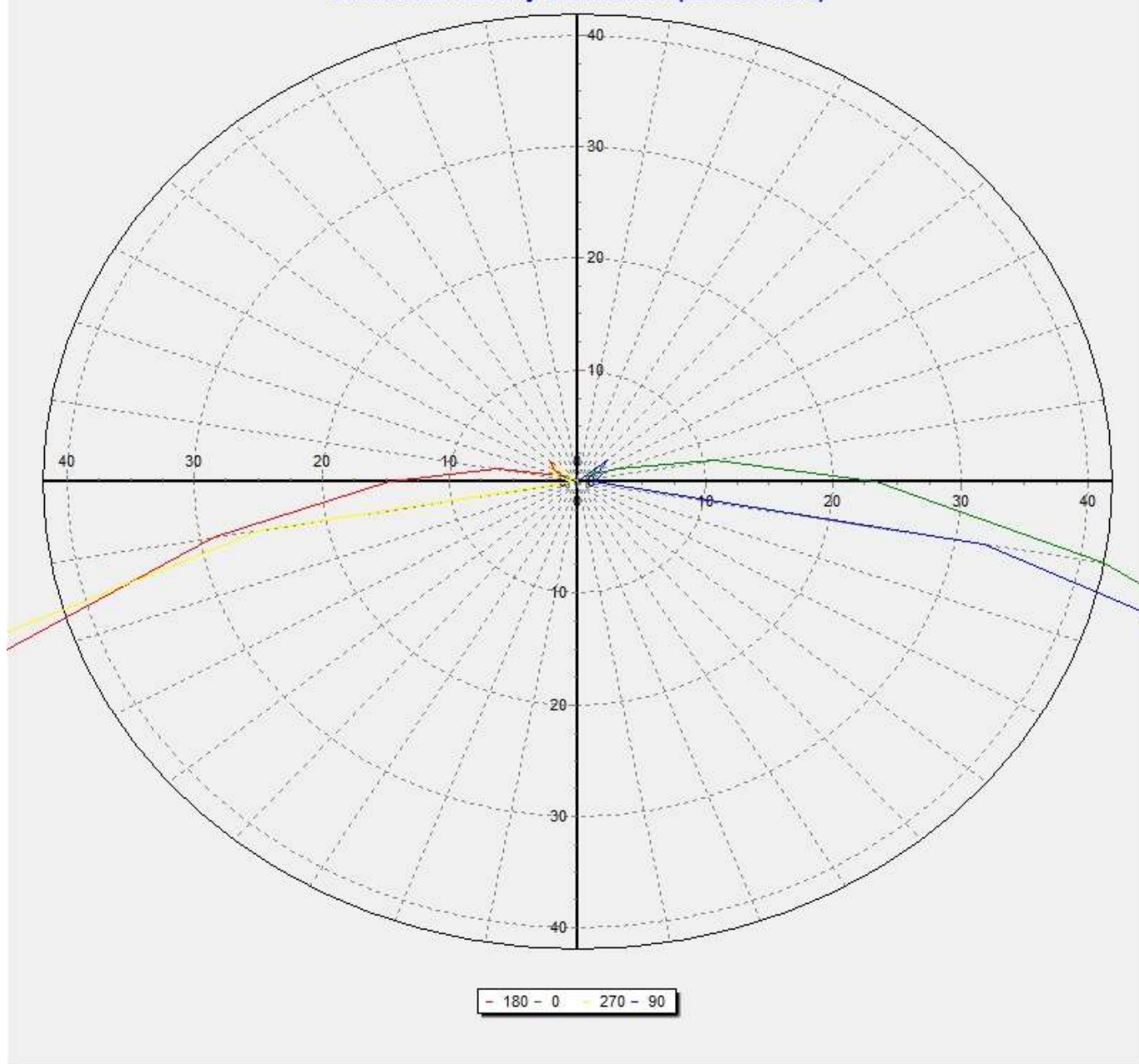


All luminous intensity values are in Cd/KLm unit.

Luminaire

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**Luminous Intensity Distribution (Lowest 10%)**



All luminous intensity values are in Cd/KLm unit.

## Luminaire

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Total flux (lm)	711 Date	Power Factor	1	2019-03-15 오후 1:31:49

## Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	295.93	294.72	293.90	293.94	293.77	294.03	295.93	294.72	293.90	293.94	293.77	294.03	295.93
10	288.96	289.57	289.49	288.73	288.30	287.15	285.20	285.62	285.49	288.01	285.89	284.60	288.96
20	266.73	265.98	269.23	270.44	268.86	260.53	249.16	256.81	263.72	266.50	264.32	262.11	266.73
30	237.66	236.26	236.90	240.28	233.43	216.18	210.80	211.58	225.38	235.20	230.40	232.01	237.66
40	199.29	200.20	197.88	201.23	184.96	175.91	167.32	170.55	177.25	193.79	189.21	194.62	199.29
50	140.78	148.93	152.99	154.82	136.79	126.19	106.88	120.39	128.82	146.63	143.92	140.27	140.78
60	84.09	89.47	105.65	106.89	93.35	75.11	62.65	70.00	85.25	100.10	96.87	83.92	84.09
70	50.26	52.65	60.08	60.79	52.10	42.84	37.27	40.91	46.11	55.26	54.07	49.42	50.26
80	29.77	30.48	28.66	22.94	23.48	23.28	20.54	21.48	19.72	17.93	25.38	27.69	29.77
90	16.60	15.01	9.85	0.84	7.24	10.74	10.48	9.97	5.26	0.20	8.46	13.72	16.60
100	7.71	6.07	1.66	1.10	0.88	3.99	4.50	2.99	0.28	0.60	1.29	5.10	7.71
110	2.38	1.43	1.16	1.44	1.07	1.02	0.96	1.08	1.59	1.41	1.41	0.82	2.38
120	0.89	1.73	1.18	1.36	1.80	1.40	1.46	1.53	1.17	1.73	1.80	1.74	0.89
130	1.53	1.54	1.52	2.18	1.59	2.05	1.98	1.86	2.09	1.57	1.57	1.46	1.53

# Luminaire

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Lamp flux (lm)	711	Operator Current (A) 0.362 CGR
Total flux (lm)	711	Date Power Factor 1 2019-03-15 오후 1:31:49

## Luminous Flux Table

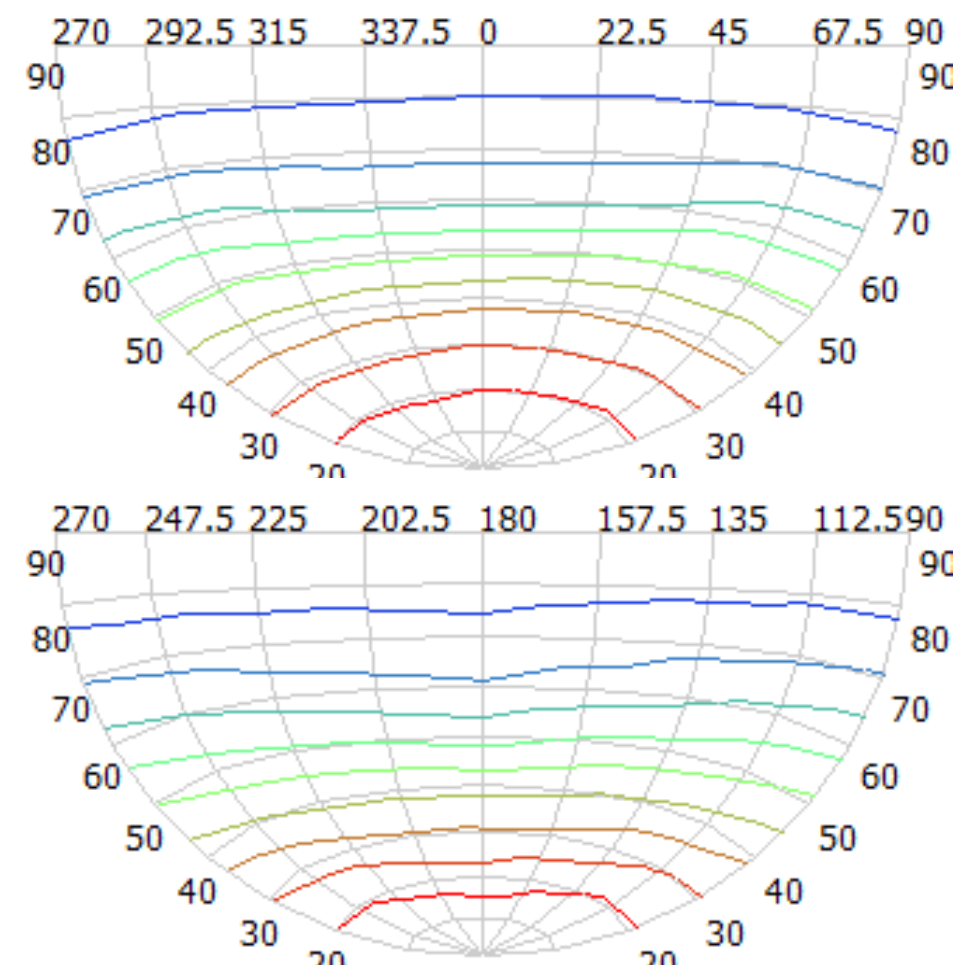
Total Lamp Lumens: 711  
 Luminaire Efficiency (lm/W):710.79  
 CIE Classification: Direct











Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	7.04	7.04	0.99	0.99
10	54.63	61.67	8.68	8.68
20	98.78	160.45	22.57	22.57
30	125.32	285.76	40.20	40.20
40	132.13	417.89	58.79	58.79
50	115.18	533.08	75.00	75.00
60	83.26	616.33	86.71	86.71
70	51.61	667.94	93.97	93.97
80	26.19	694.13	97.66	97.66
90	9.89	704.02	99.05	99.05
100	3.25	707.28	99.50	99.51
110	1.35	708.63	99.69	99.70
120	1.41	710.04	99.89	99.89
130	0.76	710.79	100.00	100.00

Luminaire

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### IsoCandela (Type C)



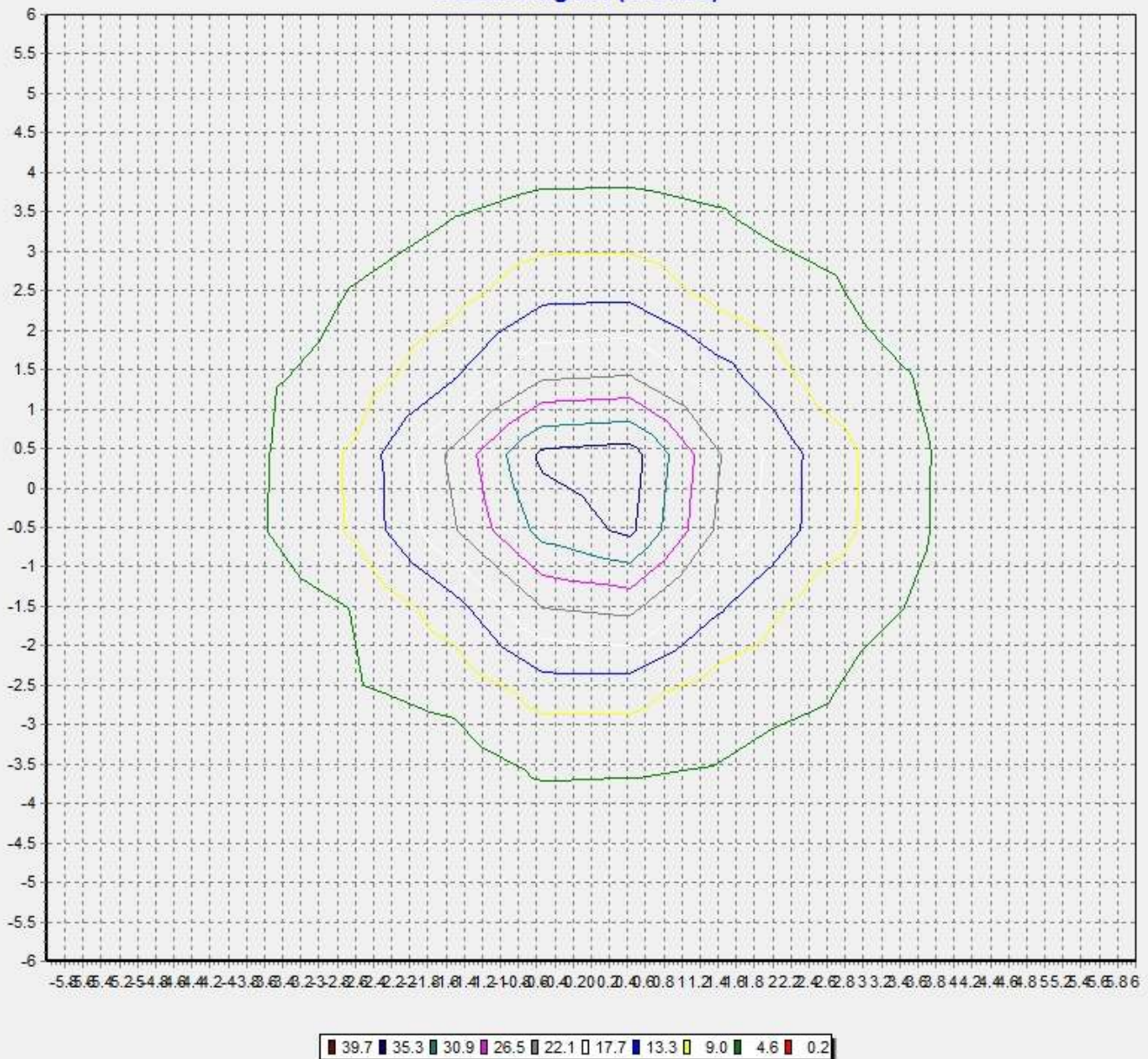
	0 ~ 30		148 ~ 178
	30 ~ 59		178 ~ 207
	59 ~ 89		207 ~ 237
	89 ~ 118		237 ~ 266
	118 ~ 148		266 ~ 296



Luminaire

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IsoLux Diagram (Ground)



Pole Height (m): 2.7

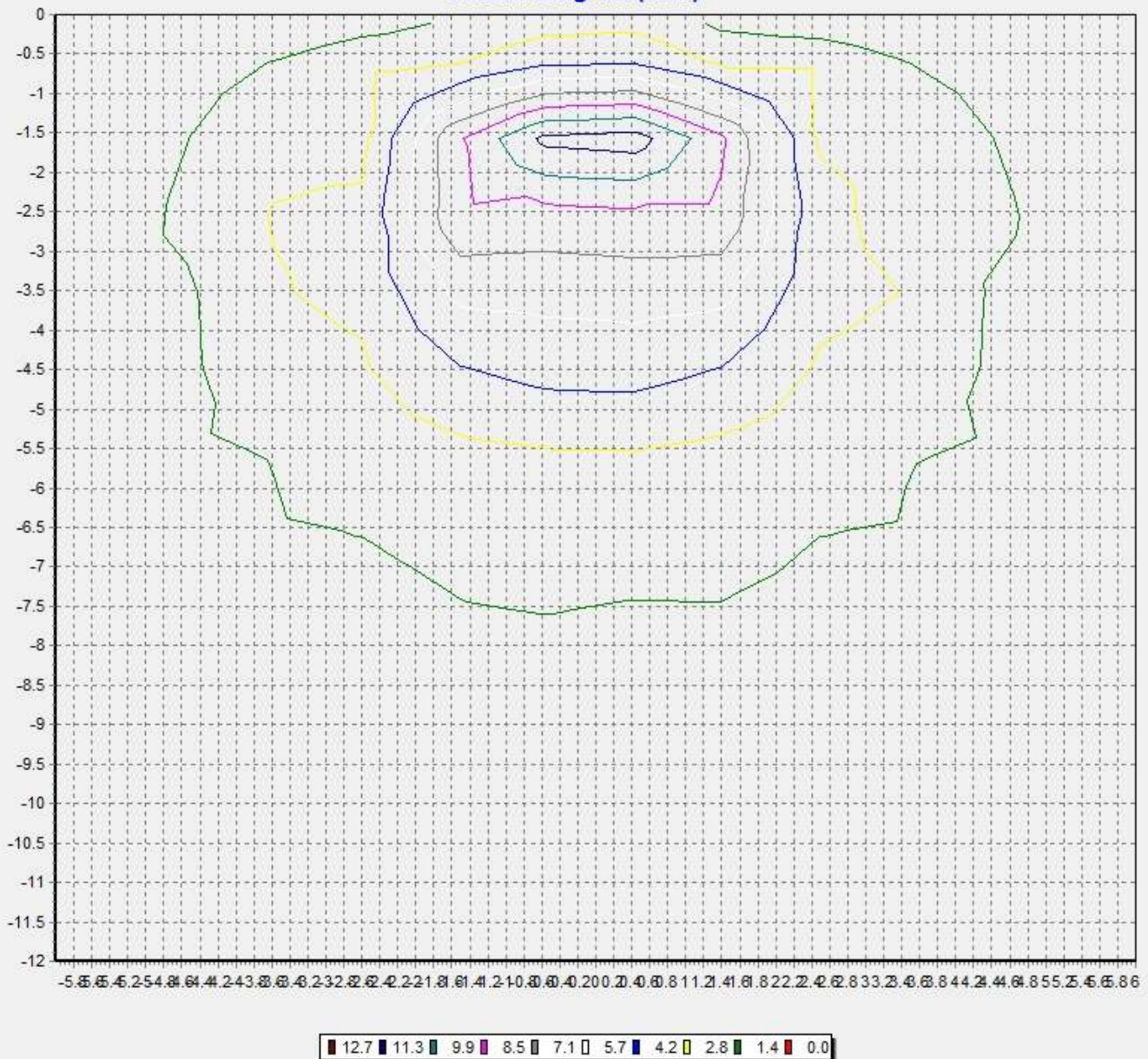
Area Width (m): 12



# Luminaire

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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

## Report

190315

No. of lamps 1 Voltage (V) 23.96

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV18 24V-C90-Cool.jdt

Lamp flux (lm) 711 Current (A) 0.362

Operator CGR

Total flux (lm) 711 Power Factor 1

Date 2019-03-15 오후 1:31:49

## Illuminance Levels (Ground)

6.00	0.34	0.47	0.37	0.44	0.57	0.72	0.76	0.72	0.56	0.43	0.36	0.46	0.30
5.00	0.37	0.38	0.57	0.84	1.56	2.02	2.16	2.03	1.62	0.83	0.57	0.34	0.40
4.00	0.27	0.45	1.37	2.10	1.89	2.74	3.03	2.74	1.85	2.12	1.30	0.49	0.31
3.00	0.42	0.60	1.77	2.37	5.45	5.49	6.74	5.74	5.43	2.15	1.96	0.68	0.42
2.00	0.50	1.46	1.82	4.77	7.37	11.82	15.29	12.61	7.45	5.35	1.81	1.57	0.52
1.00	0.46	1.47	1.89	5.07	11.64	23.32	32.59	23.26	12.62	5.57	2.30	1.81	0.58
0.00	0.45	1.47	1.93	4.88	12.98	32.13	40.59	32.61	15.13	6.26	2.57	1.94	0.61
-1.00	0.48	1.53	1.91	4.43	10.76	21.08	32.50	22.93	11.99	5.44	2.31	1.81	0.58
-2.00	0.40	1.24	1.42	4.40	6.05	10.83	14.82	11.99	7.33	5.23	1.91	1.56	0.54
-3.00	0.33	0.51	1.51	1.66	4.76	4.73	6.41	5.53	5.27	2.34	1.95	0.68	0.44
-4.00	0.23	0.37	1.01	1.76	1.46	2.43	2.85	2.41	1.94	2.04	1.36	0.49	0.31
-5.00	0.30	0.26	0.44	0.66	1.31	1.83	2.05	1.77	1.59	0.78	0.54	0.36	0.41
-6.00	0.23	0.37	0.28	0.34	0.44	0.63	0.70	0.60	0.57	0.45	0.34	0.45	0.34
-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.): 40.6

All illuminance level values are in lux.

Illum. (Min.): 0.23

Illum. Avg.: 4.06

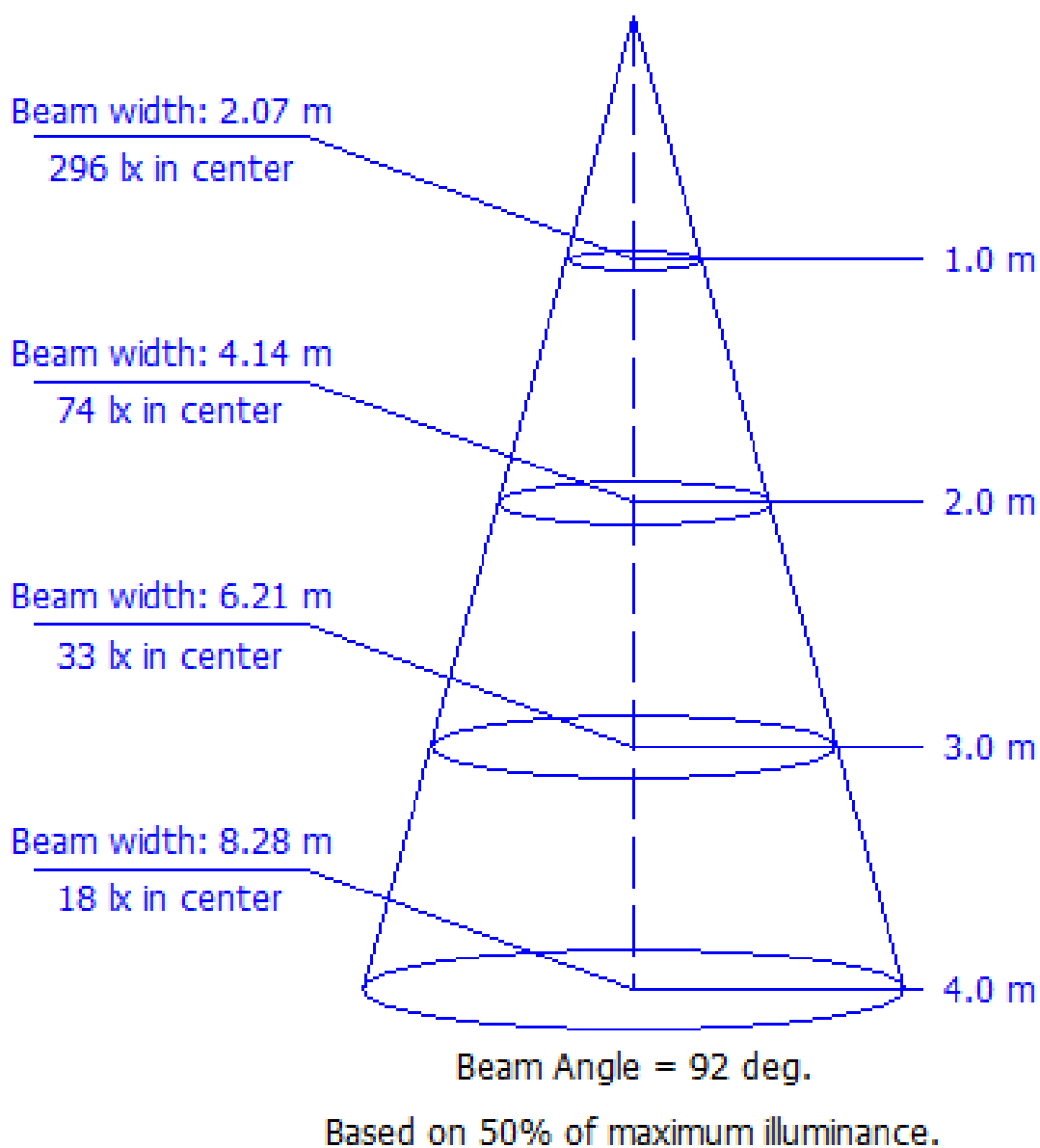
Total Optical Solution Provider


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

Luminaire

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### Illuminance Cone Diagram



## Luminaire

## Lamp

## Report

190315

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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