

# 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 DDV24 24V-C90-Warm

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
--------------	----------------	--------------------------

\*\*\*\*\*

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).

# 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		0.4565, 0.4097	
Correlated Color Temperature	K	2756	
Ra	-	92.37	
Power Factor	%	1.000	
Input Voltage	V	23.950	
Input Current	A	0.479	
Input Watt	W	11.48	
Lamp Flux	lm	876.1	
Efficient	lm/W	76.37	
Illuminance	lx	323	1 m
		81	2 m
		36	3 m

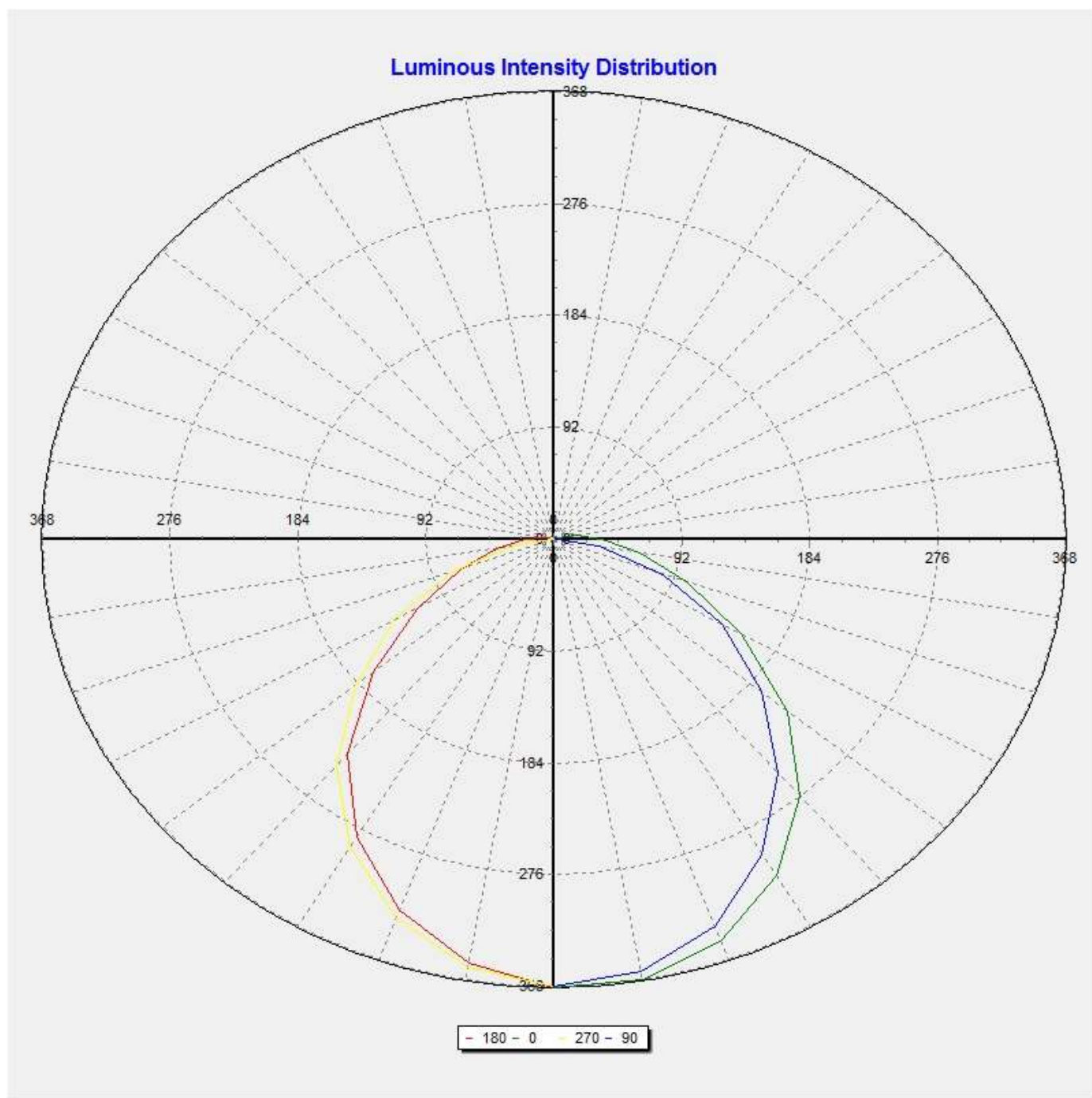
\* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-Warm.jdt	
Lamp flux (lm)	876Operator	Current (A) 0.479 CGR
Total flux (lm)	876Date	Power Factor 1 2019-03-15 오후 2:45:59

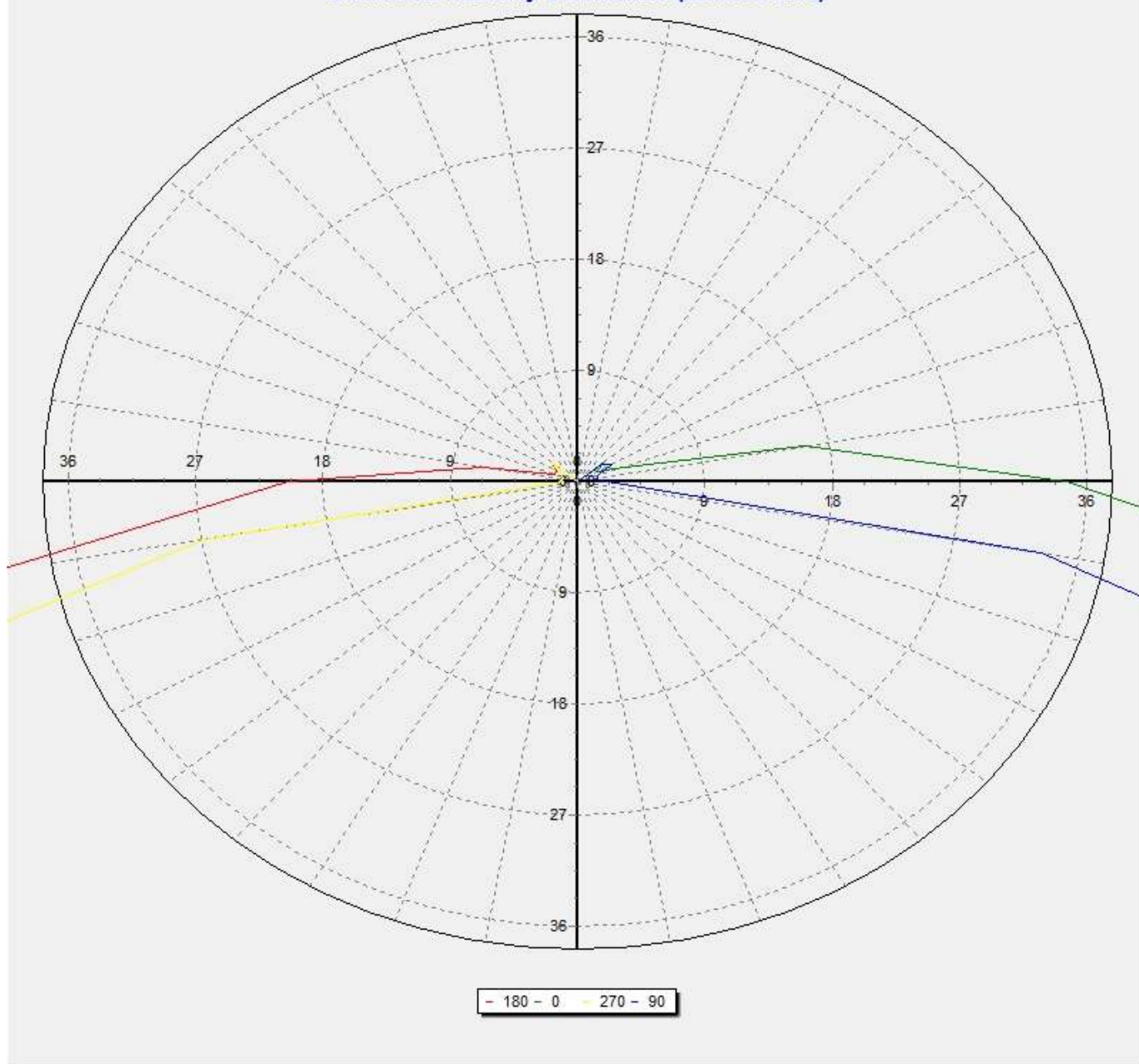


All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-Warm.jdt	
Lamp flux (lm)	876Operator	Current (A) 0.479 CGR
Total flux (lm)	876Date	Power Factor 1 2019-03-15 오후 2:45:59

Luminous Intensity Distribution (Lowest 10%)



All luminous intensity values are in Cd/Klm unit.

## Luminaire

Lamp	Report			190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-Warm.jdt			
Lamp flux (lm)	876	Operator	Current (A)	0.479
Total flux (lm)	876	Date	Power Factor	1
				2019-03-15 오후 2:45:59

## Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	323.14	322.70	323.78	322.03	322.50	321.91	323.14	322.70	323.78	322.03	322.50	321.91	323.14
10	322.11	321.43	318.84	316.25	313.94	313.13	309.97	311.18	312.16	313.05	316.84	319.50	322.11
20	308.25	306.40	302.30	297.12	291.34	286.84	284.19	282.54	286.97	290.25	297.11	303.47	308.25
30	280.35	279.32	270.46	262.80	256.70	251.17	247.92	246.31	249.86	255.96	264.31	274.88	280.35
40	241.41	239.10	230.73	219.81	212.70	207.59	201.80	201.77	204.86	213.65	223.12	234.35	241.41
50	192.72	191.76	183.21	170.49	164.22	158.19	148.74	152.54	156.88	163.56	174.33	185.23	192.72
60	136.53	137.91	134.72	121.93	116.26	109.70	99.65	103.86	107.98	115.13	125.84	130.88	136.53
70	89.01	88.56	85.05	73.69	71.13	67.25	62.24	64.04	62.65	66.97	76.89	82.82	89.01
80	55.19	53.13	42.72	29.12	32.88	37.72	36.94	35.29	29.02	23.63	37.80	48.92	55.19
90	30.30	27.08	15.30	1.76	10.29	18.01	17.89	15.96	8.10	0.85	13.05	24.35	30.30
100	14.27	10.08	1.86	1.17	0.97	4.89	6.01	5.13	1.36	1.13	1.60	8.47	14.27
110	3.06	1.30	1.20	1.36	0.82	1.47	1.53	2.01	1.57	1.04	1.67	1.27	3.06
120	1.36	1.46	1.63	2.47	1.97	1.47	1.52	1.45	2.16	1.33	1.24	1.17	1.36
130	2.23	1.86	1.93	1.96	2.03	2.71	2.08	2.33	1.89	2.07	2.32	1.86	2.23

# Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-Warm.jdt	
Lamp flux (lm)	876Operator	Current (A) 0.479 CGR
Total flux (lm)	876Date	Power Factor 1 2019-03-15 오후 2:45:59

## Luminous Flux Table

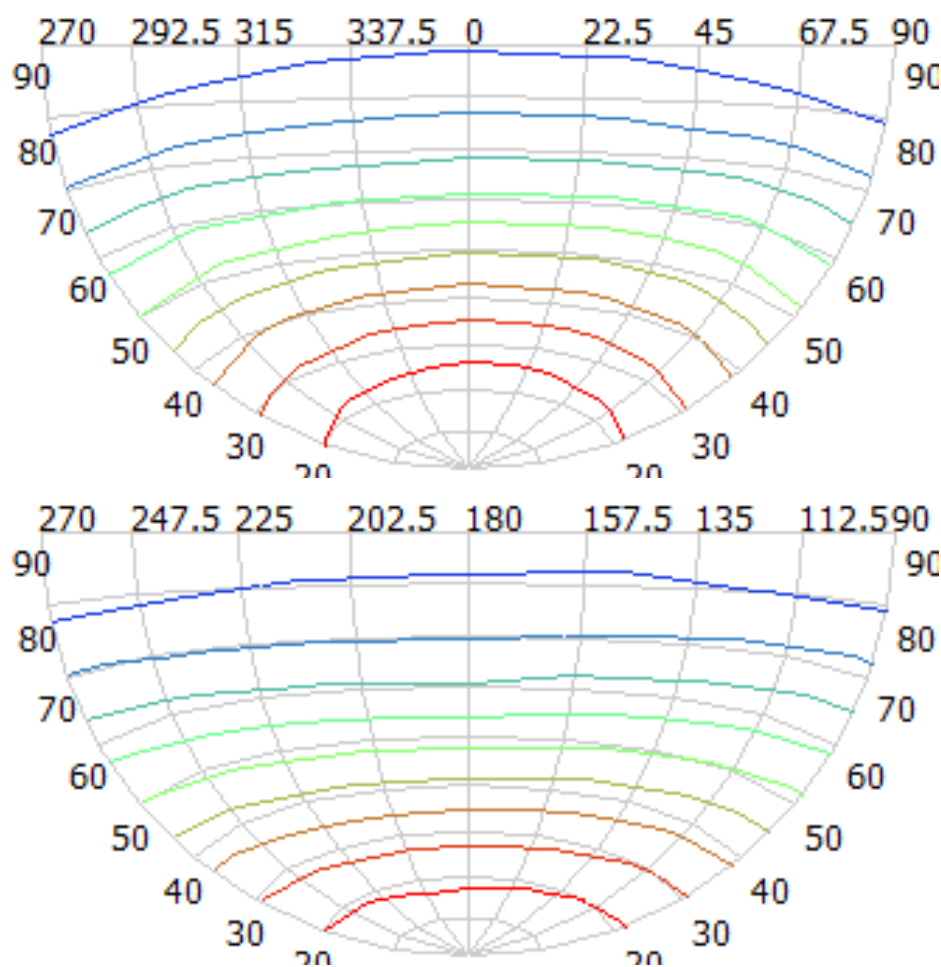
Total Lamp Lumens: 876  
 Luminaire Efficiency (lm/W):876.15  
 CIE Classification: Direct


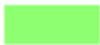






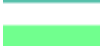

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	7.72	7.72	0.88	0.88
10	60.04	67.76	7.73	7.73
20	110.40	178.16	20.34	20.33
30	143.29	321.45	36.69	36.69
40	154.35	475.80	54.31	54.31
50	142.76	618.56	70.60	70.60
60	113.85	732.41	83.60	83.59
70	76.36	808.77	92.31	92.31
80	41.56	850.33	97.06	97.05
90	16.70	867.02	98.96	98.96
100	5.12	872.14	99.55	99.54
110	1.57	873.71	99.73	99.72
120	1.52	875.23	99.90	99.90
130	0.92	876.15	100.01	100.00

Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-Warm.jdt	
Lamp flux (lm)	876Operator	Current (A) 0.479 CGR
Total flux (lm)	876Date	Power Factor 1 2019-03-15 오후 2:45:59

### IsoCandela (Type C)



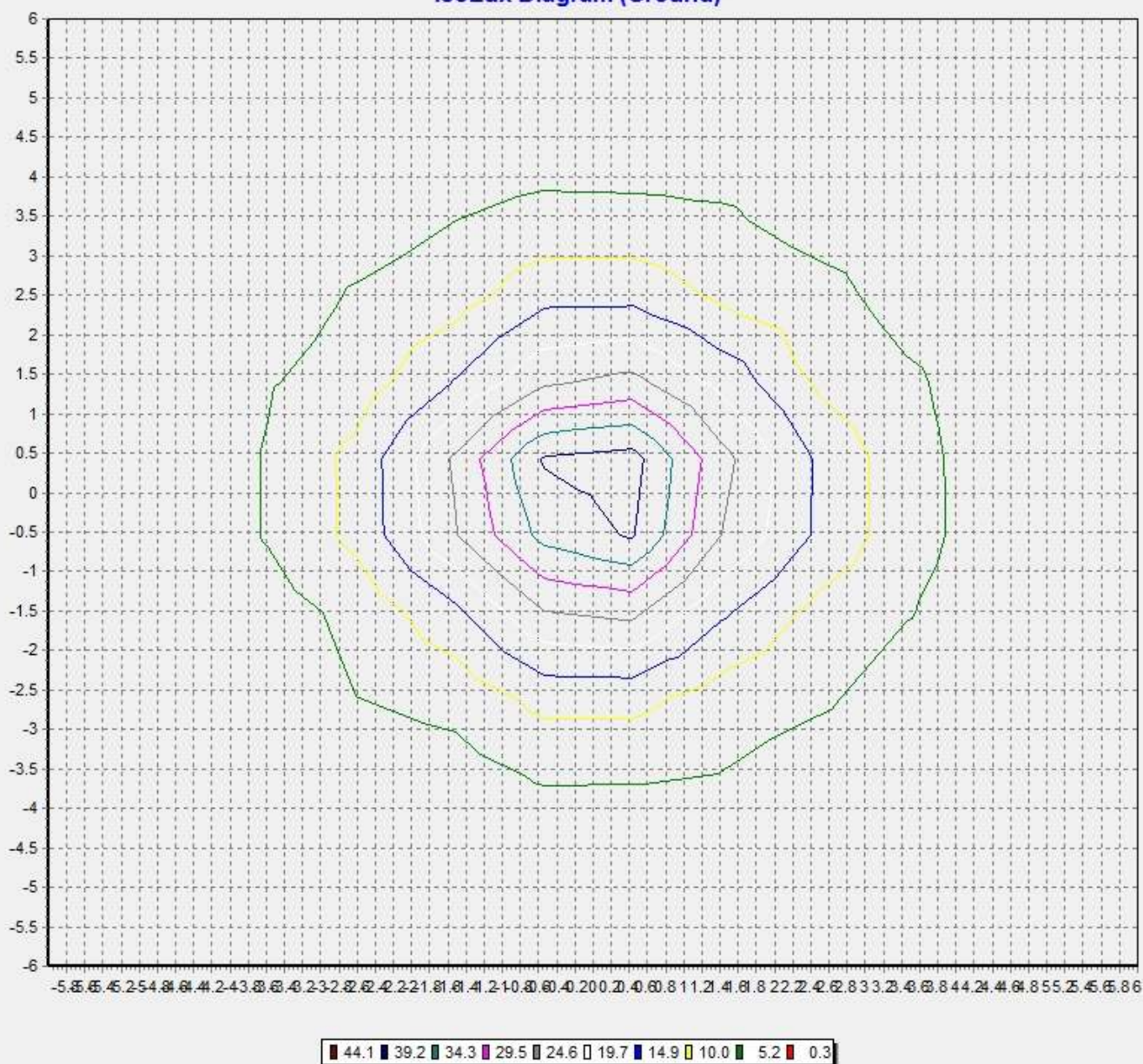
	1 ~ 33		162 ~ 195
	33 ~ 65		195 ~ 227
	65 ~ 98		227 ~ 259
	98 ~ 130		259 ~ 291
	130 ~ 162		291 ~ 324



Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-Warm.jdt	
Lamp flux (lm)	876Operator	Current (A) 0.479 CGR
Total flux (lm)	876Date	Power Factor 1 2019-03-15 오후 2:45:59

IsoLux Diagram (Ground)



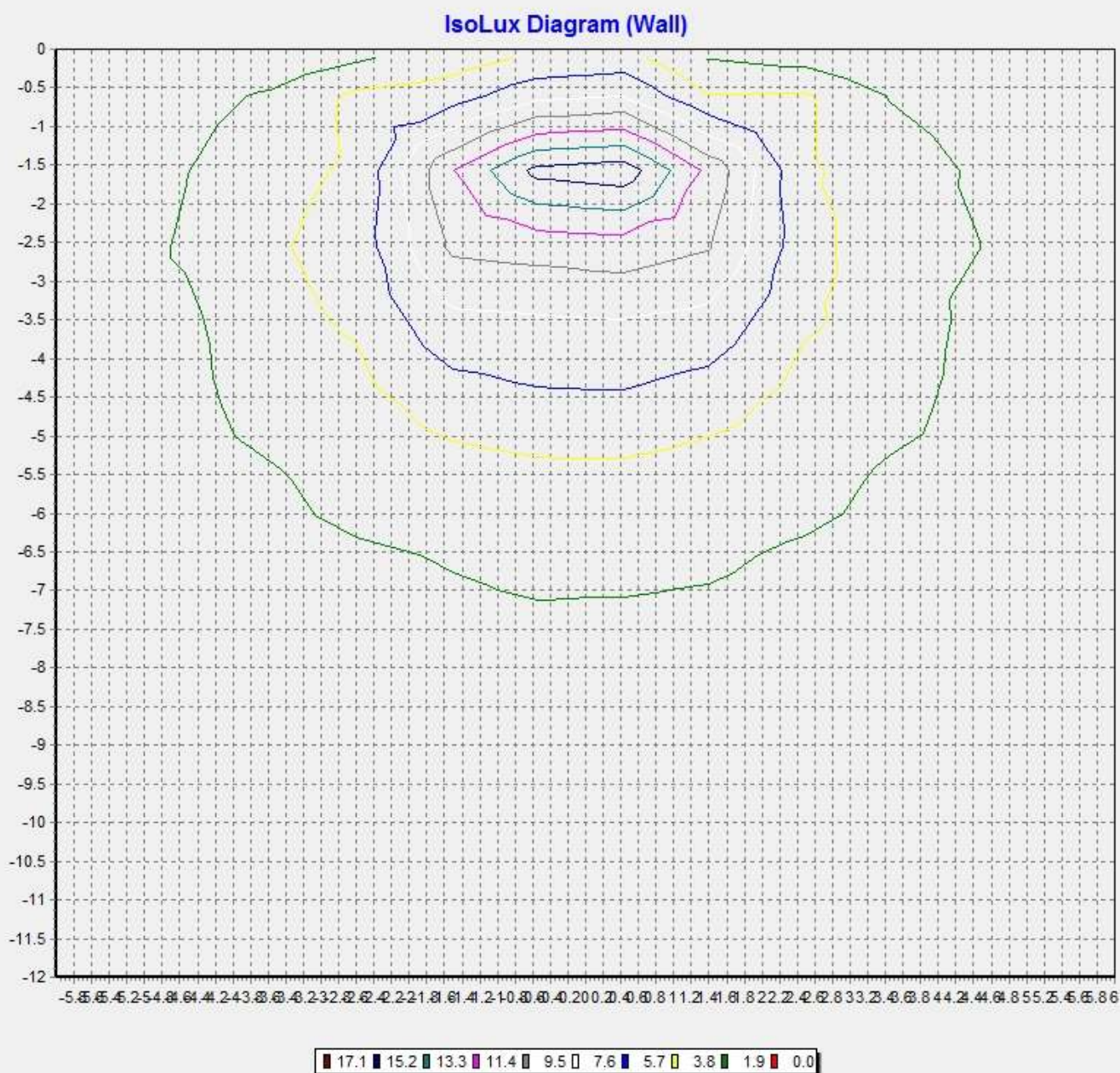
Pole Height (m): 2.7

Area Width (m): 12



# Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-Warm.jdt	
Lamp flux (lm)	876Operator	Current (A) 0.479 CGR
Total flux (lm)	876Date	Power Factor 1 2019-03-15 오후 2:45:59



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) 23.95

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-Warm.jdt

Lamp flux (lm) 876 Current (A) 0.479

Operator CGR

Total flux (lm) 876 Power Factor 1

Date 2019-03-15 오후 2:45:59

## Illuminance Levels (Ground)

6.00	0.41	0.55	0.45	0.57	0.72	0.92	0.89	0.88	0.85	0.70	0.52	0.63	0.48
5.00	0.52	0.48	0.70	0.99	1.85	2.36	2.39	2.32	2.12	1.11	0.81	0.58	0.63
4.00	0.41	0.65	1.60	2.37	2.32	3.26	3.40	3.24	2.72	2.61	1.84	0.83	0.54
3.00	0.57	0.90	2.23	2.78	6.01	6.35	7.40	7.17	6.40	3.20	2.70	1.14	0.70
2.00	0.69	1.81	2.29	5.69	8.37	13.48	16.71	15.02	9.48	6.67	2.72	2.14	0.86
1.00	0.73	2.00	2.71	6.17	13.39	25.54	35.70	27.30	15.09	7.30	3.41	2.48	0.95
0.00	0.74	2.07	2.87	6.54	15.50	34.97	44.33	36.39	18.14	8.31	3.82	2.70	1.03
-1.00	0.75	2.03	2.72	5.77	12.75	24.38	35.33	25.56	14.16	6.80	3.42	2.51	0.97
-2.00	0.63	1.67	2.06	5.47	7.65	12.77	16.25	14.01	8.45	6.42	2.50	1.98	0.78
-3.00	0.51	0.82	2.08	2.42	5.59	5.88	7.13	6.48	5.88	2.81	2.56	1.08	0.62
-4.00	0.38	0.59	1.41	2.18	2.08	2.87	3.23	2.86	2.46	2.33	1.61	0.76	0.50
-5.00	0.47	0.41	0.61	0.86	1.70	2.12	2.29	2.10	1.91	0.92	0.67	0.48	0.60
-6.00	0.35	0.49	0.39	0.51	0.64	0.77	0.83	0.75	0.73	0.61	0.42	0.55	0.42
-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.): 44.3

All illuminance level values are in lux.

Illum. (Min.): 0.35

Illum. Avg.: 4.81

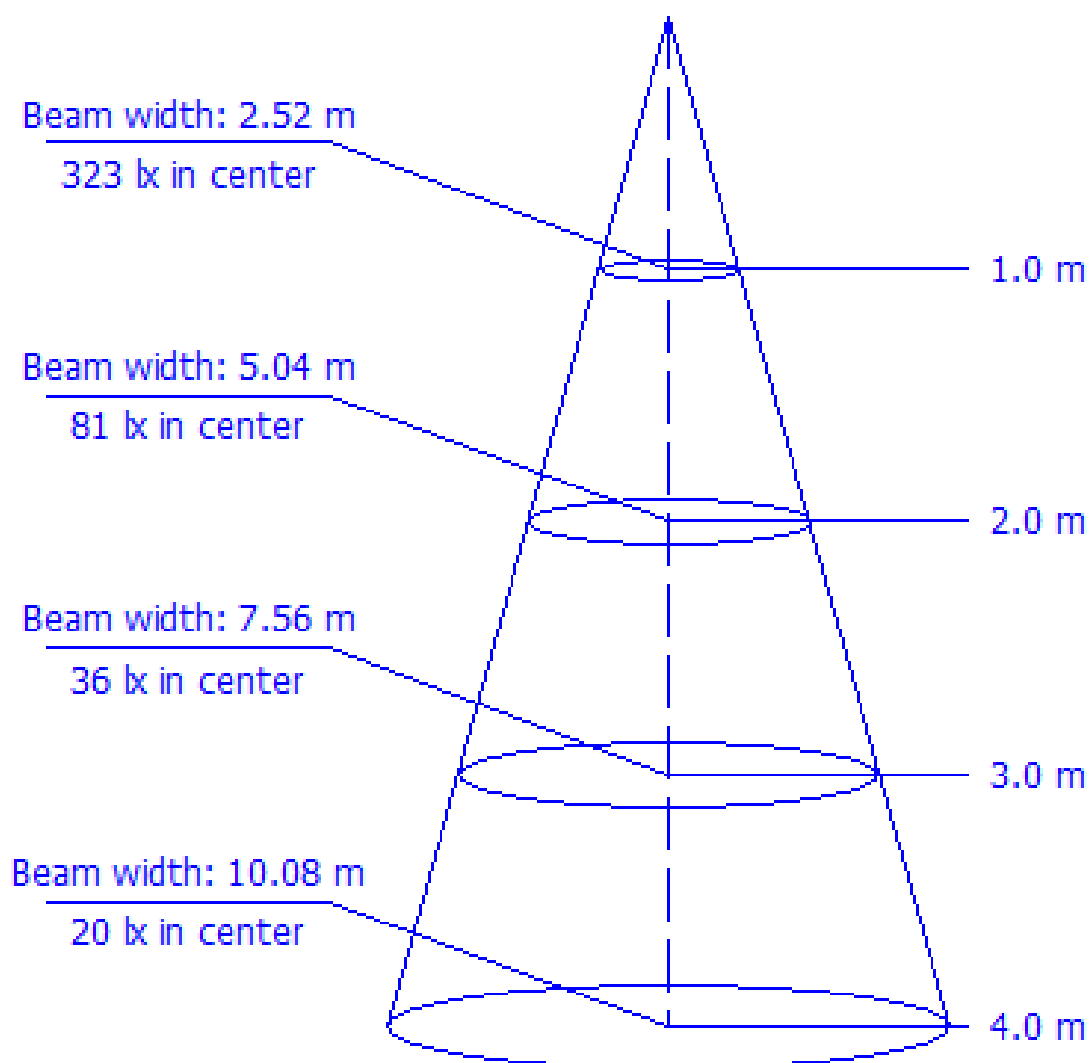
Total Optical Solution Provider


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

Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-Warm.jdt	
Lamp flux (lm)	876Operator	Current (A) 0.479 CGR
Total flux (lm)	876Date	Power Factor 1 2019-03-15 오후 2:45:59

### Illuminance Cone Diagram



Beam Angle = 103 deg.

Based on 50% of maximum illuminance.

## Luminaire

## Lamp

## Report

190315

No. of lamps	1	Voltage (V)	23.95	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-Warm.jdt
Lamp flux (lm)	876	Current (A)	0.479	Operator	CGR
Total flux (lm)	876	Power Factor	1	Date	2019-03-15 오후 2:45:59

## 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