

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 DDV12 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		0.3337, 0.3459	
Correlated Color Temperature	K	5444	
Ra	-	92.34	
Power Factor	%	1.000	
Input Voltage	V	23.970	
Input Current	A	0.241	
Input Watt	W	5.78	
Lamp Flux	lm	454.4	
Efficient	lm/W	78.66	
Illuminance	lx	171	1 m
		43	2 m
		19	3 m

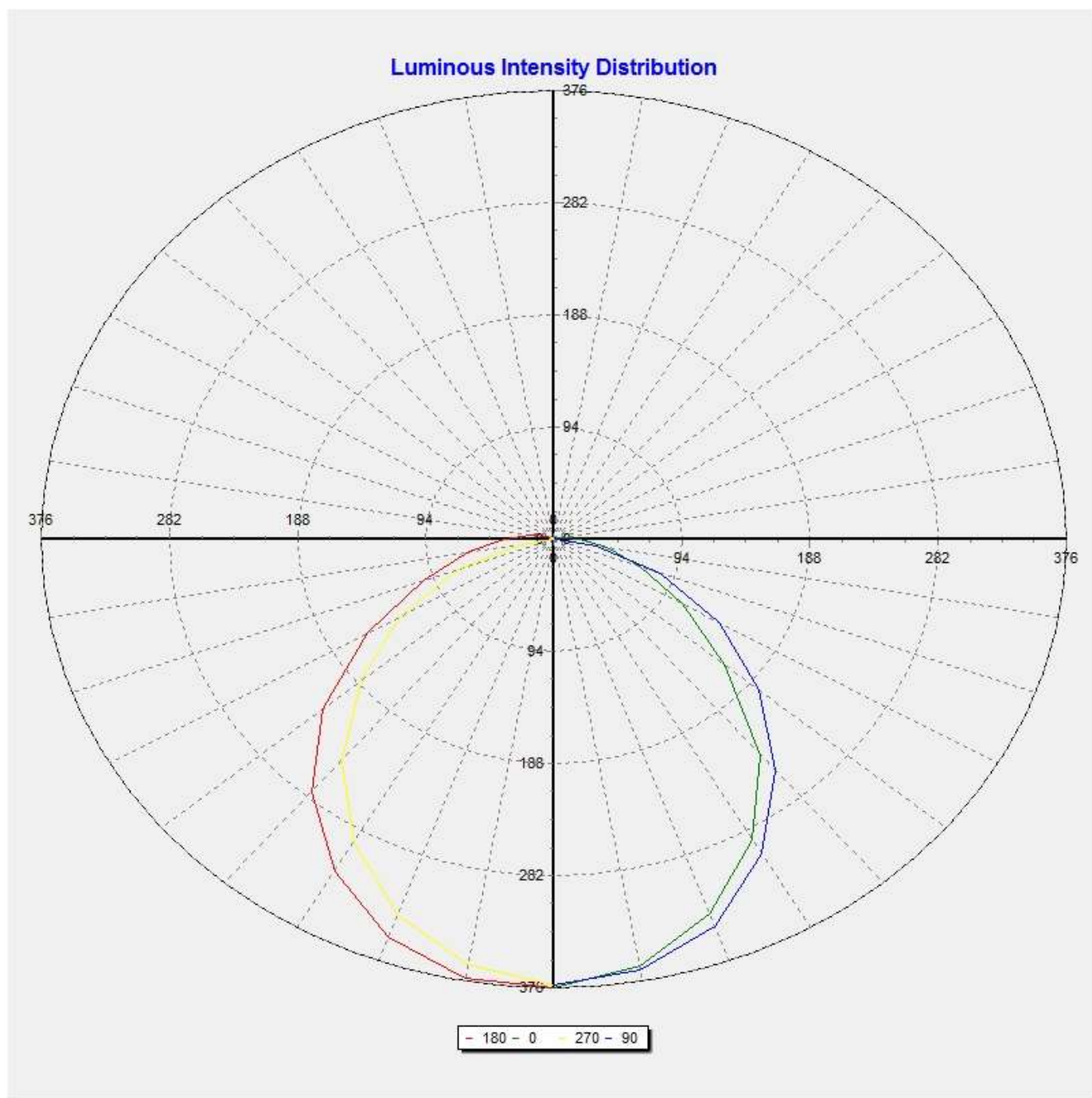
* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

Lamp	Report	190315
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV12 24V-C90-Cool.jdt	
Lamp flux (lm)	454 Operator	Current (A) 0.241 CGR
Total flux (lm)	454 Date	Power Factor 1 2019-03-15 오전 11:33:03

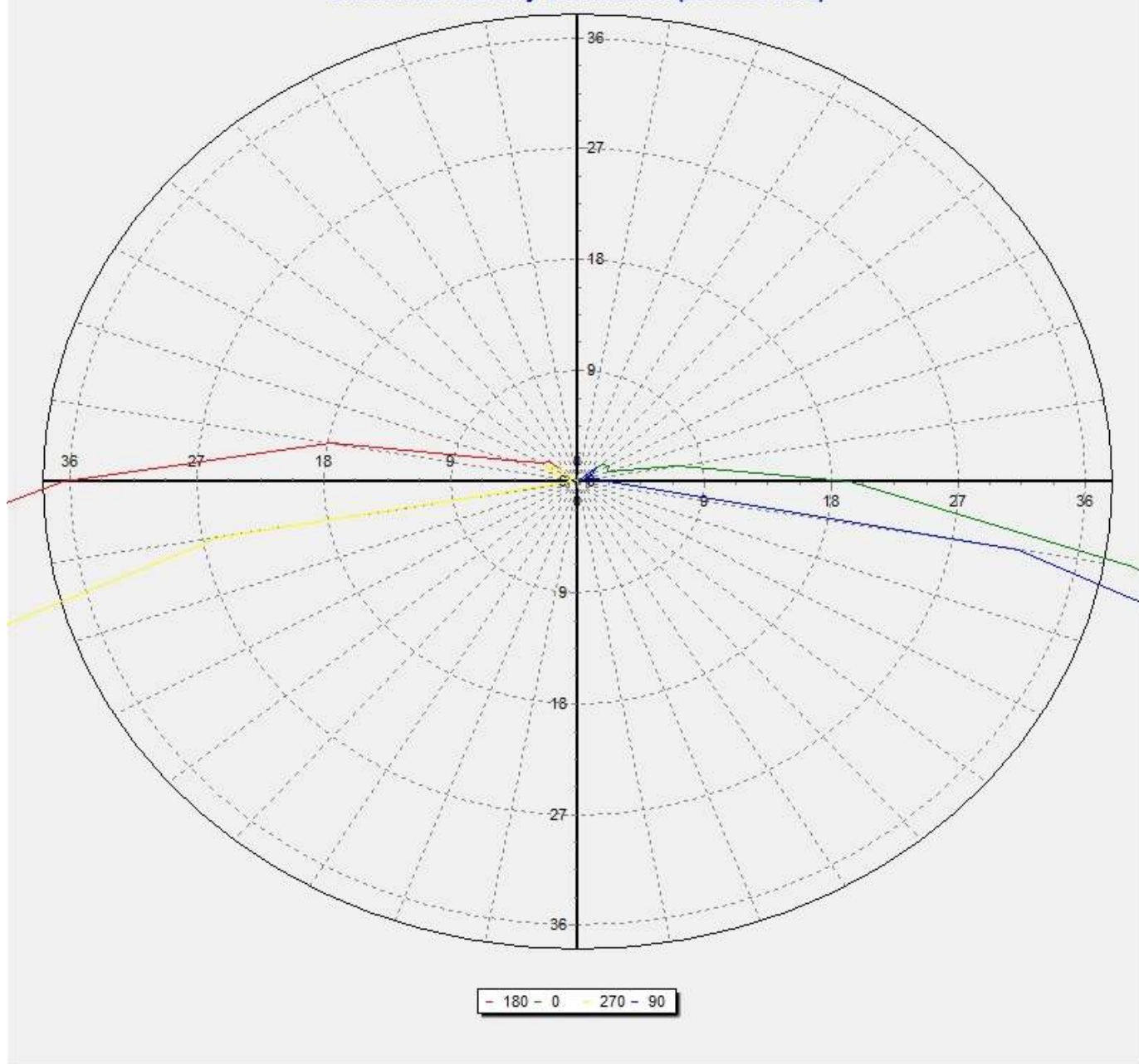


All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp	Report	190315
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV12 24V-C90-Cool.jdt	
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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)	454 Date	Power Factor	1	2019-03-15 오전 11:33:03

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	170.79	170.27	170.40	169.99	169.02	169.53	170.79	170.27	170.40	169.99	169.02	169.53	170.79
10	165.18	164.05	165.23	166.54	167.78	168.30	169.53	167.14	166.25	164.45	162.19	163.23	165.18
20	151.82	152.04	153.68	156.93	158.54	162.12	161.16	160.84	155.49	152.35	148.82	148.72	151.82
30	132.31	132.49	134.85	138.28	142.61	146.60	146.15	143.84	139.10	133.22	130.02	128.70	132.31
40	107.18	108.91	111.41	114.83	121.46	126.01	125.56	122.99	115.64	109.85	105.05	104.20	107.18
50	74.32	78.20	85.48	89.18	96.02	101.32	100.57	97.78	90.44	83.66	79.46	74.31	74.32
60	49.36	50.87	58.68	63.42	70.09	74.82	71.28	70.03	63.59	58.77	53.68	47.96	49.36
70	30.51	31.09	34.52	37.72	44.32	47.85	45.92	44.56	39.48	34.09	30.29	29.74	30.51
80	18.20	18.06	15.49	14.39	22.84	29.17	28.45	26.26	20.21	11.71	13.43	15.51	18.20
90	8.77	8.04	4.64	0.98	9.06	15.04	16.55	14.46	7.15	0.21	3.28	7.45	8.77
100	3.28	2.16	0.15	0.59	1.44	6.59	8.05	6.10	0.99	0.25	0.69	1.10	3.28
110	1.04	0.51	1.09	0.25	1.16	1.85	2.33	0.85	0.69	0.77	0.87	1.41	1.04
120	1.14	1.11	0.39	0.59	0.82	0.68	1.32	1.52	0.51	1.20	1.26	0.74	1.14
130	1.02	1.08	0.94	0.78	0.96	0.73	1.17	0.95	1.41	0.64	1.19	0.22	1.02

Luminaire

Lamp	Report	190315
No. of lamps	1	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV12 24V-C90-Cool.jdt
Lamp flux (lm)	454	Operator Current (A) 0.241 CGR
Total flux (lm)	454	Date Power Factor 1 2019-03-15 오전 11:33:03

Luminous Flux Table

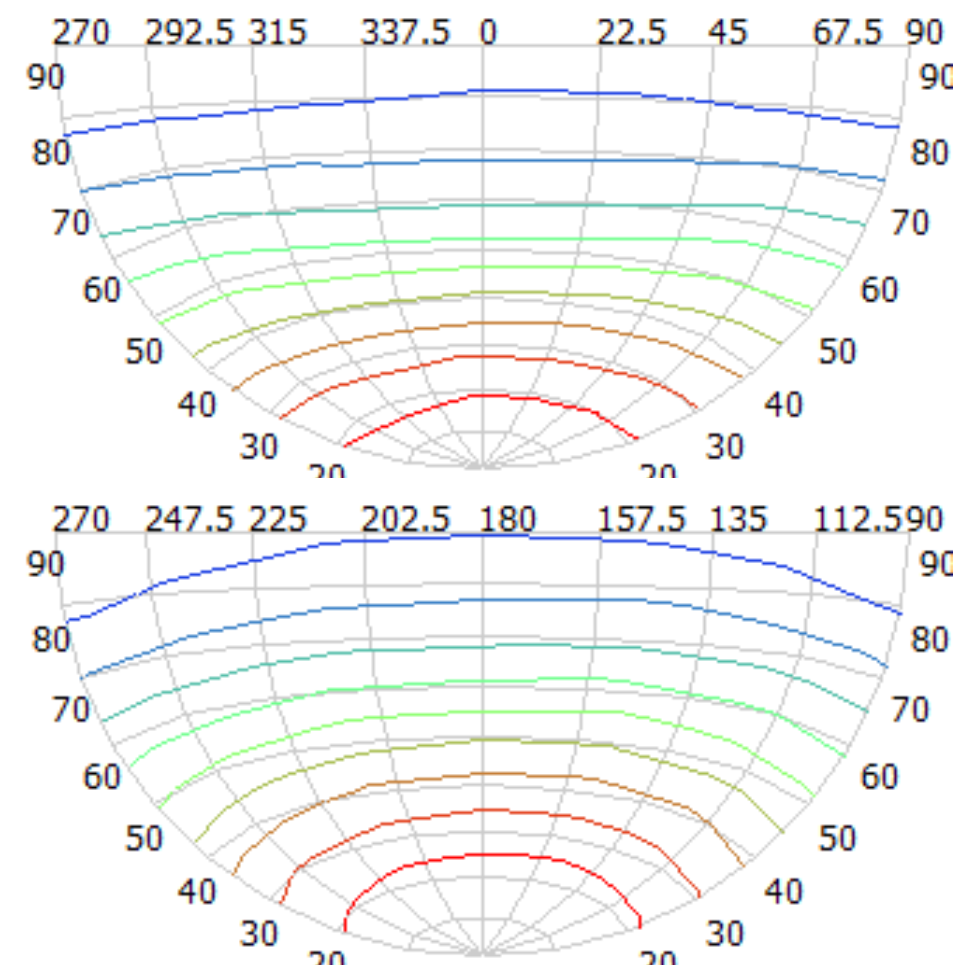
Total Lamp Lumens: 454
 Luminaire Efficiency (lm/W):454.43
 CIE Classification: Direct











Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	4.06	4.06	0.89	0.89
10	31.54	35.60	7.83	7.83
20	58.14	93.74	20.63	20.63
30	75.21	168.96	37.18	37.18
40	80.56	249.51	54.91	54.91
50	73.46	322.98	71.08	71.07
60	57.90	380.88	83.82	83.81
70	38.60	419.48	92.31	92.31
80	21.01	440.49	96.94	96.93
90	8.73	449.22	98.86	98.85
100	2.82	452.04	99.48	99.47
110	1.10	453.14	99.72	99.71
120	0.89	454.03	99.92	99.91
130	0.40	454.43	100.01	100.00

Luminaire

Lamp	Report	190315
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IsoCandela (Type C)

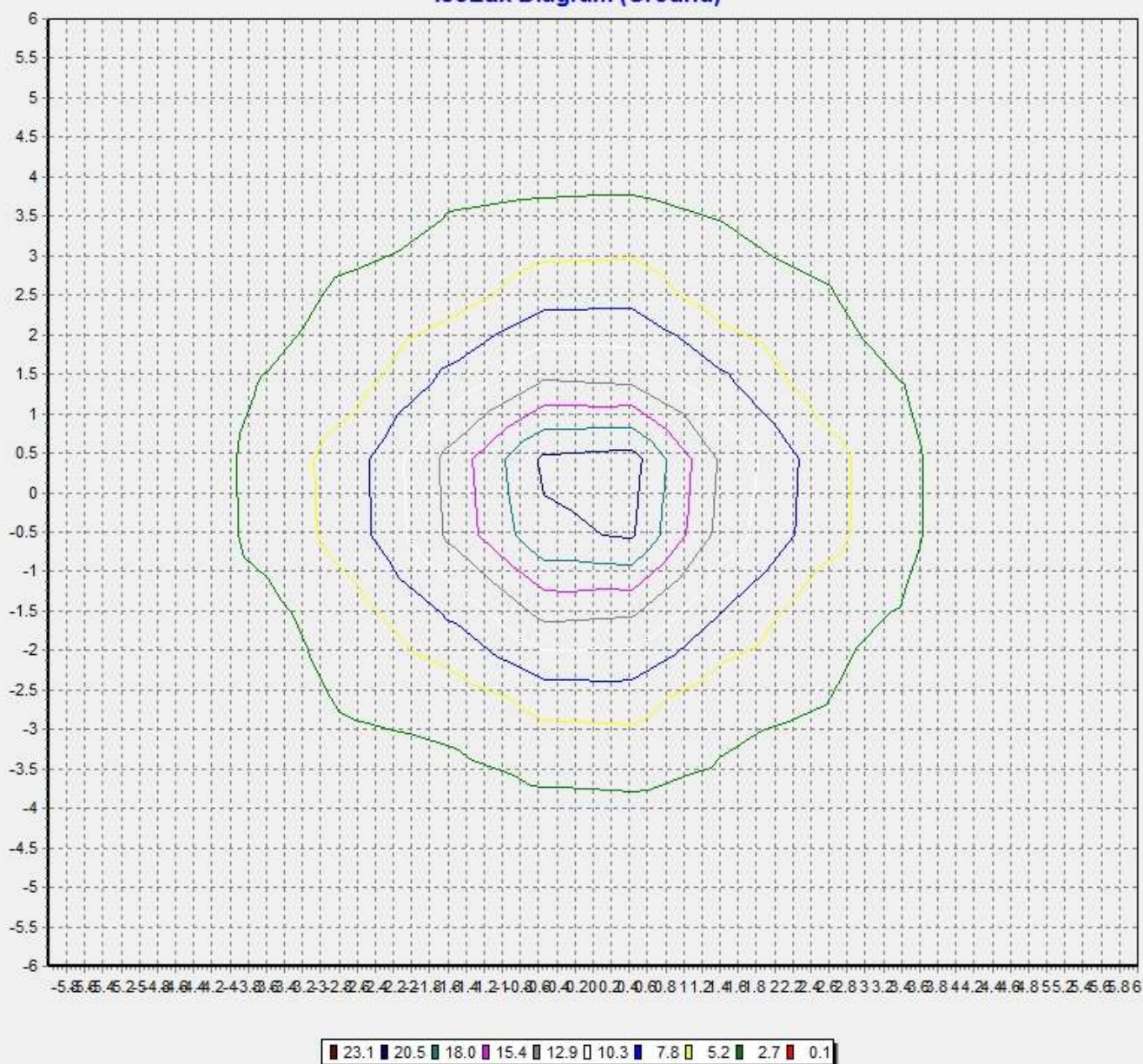


	0 ~ 17		85 ~ 103
	17 ~ 34		103 ~ 120
	34 ~ 51		120 ~ 137
	51 ~ 68		137 ~ 154
	68 ~ 85		154 ~ 171

Luminaire

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IsoLux Diagram (Ground)



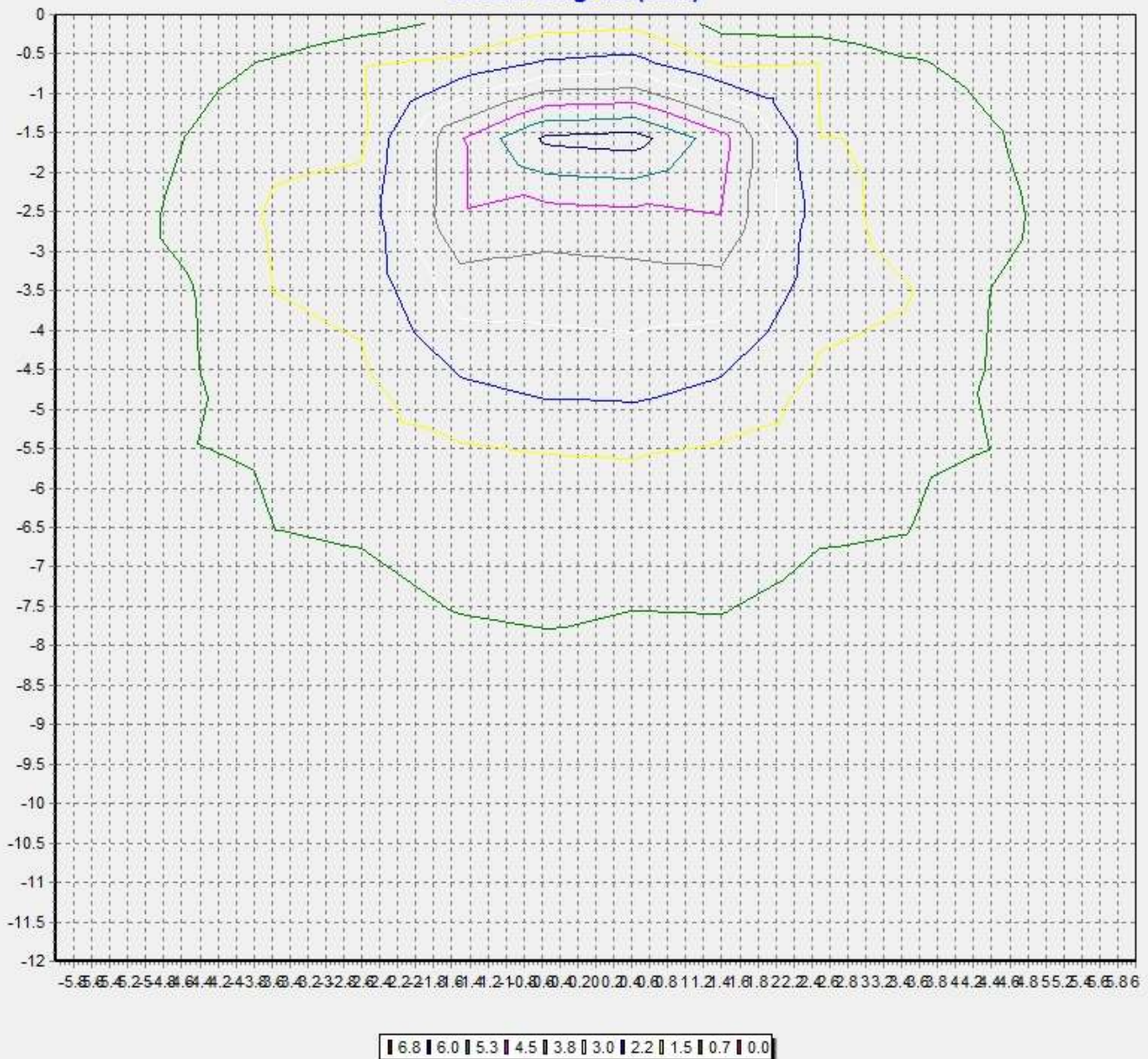
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp	Report	190315
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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) 23.97

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV12 24V-C90-Cool.jdt

Lamp flux (lm) 454 Current (A) 0.241

Operator CGR

Total flux (lm) 454 Power Factor 1

Date 2019-03-15 오전 11:33:03

Illuminance Levels (Ground)

6.00	0.23	0.30	0.24	0.35	0.41	0.41	0.46	0.43	0.32	0.25	0.21	0.26	0.17
5.00	0.34	0.27	0.38	0.51	1.06	1.14	1.25	1.16	0.88	0.47	0.32	0.20	0.23
4.00	0.29	0.44	0.89	1.27	1.37	1.56	1.77	1.57	1.04	1.17	0.71	0.29	0.19
3.00	0.35	0.62	1.41	1.55	3.18	3.55	3.87	3.10	3.03	1.20	1.05	0.40	0.25
2.00	0.45	1.10	1.39	3.47	4.61	7.61	8.75	6.90	3.97	2.87	1.02	0.84	0.31
1.00	0.52	1.33	1.85	3.73	7.69	13.78	18.80	13.06	6.87	2.94	1.28	0.97	0.34
0.00	0.54	1.41	2.00	4.33	9.45	19.15	23.43	18.64	8.25	3.32	1.43	1.03	0.36
-1.00	0.53	1.34	1.85	3.76	7.77	14.19	18.56	12.98	6.63	2.96	1.28	0.97	0.34
-2.00	0.44	1.10	1.39	3.47	4.89	7.70	8.40	6.68	4.11	2.81	1.06	0.86	0.31
-3.00	0.35	0.59	1.40	1.65	3.21	3.61	3.65	3.09	2.98	1.33	1.05	0.39	0.25
-4.00	0.28	0.42	0.95	1.29	1.37	1.56	1.65	1.57	1.08	1.16	0.77	0.29	0.18
-5.00	0.33	0.30	0.39	0.52	1.07	1.14	1.17	1.16	0.89	0.47	0.32	0.21	0.23
-6.00	0.25	0.30	0.24	0.35	0.42	0.42	0.42	0.43	0.33	0.25	0.21	0.26	0.19
-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.): 23.4

All illuminance level values are in lux.

Illum. (Min.): 0.17

Illum. Avg.: 2.50

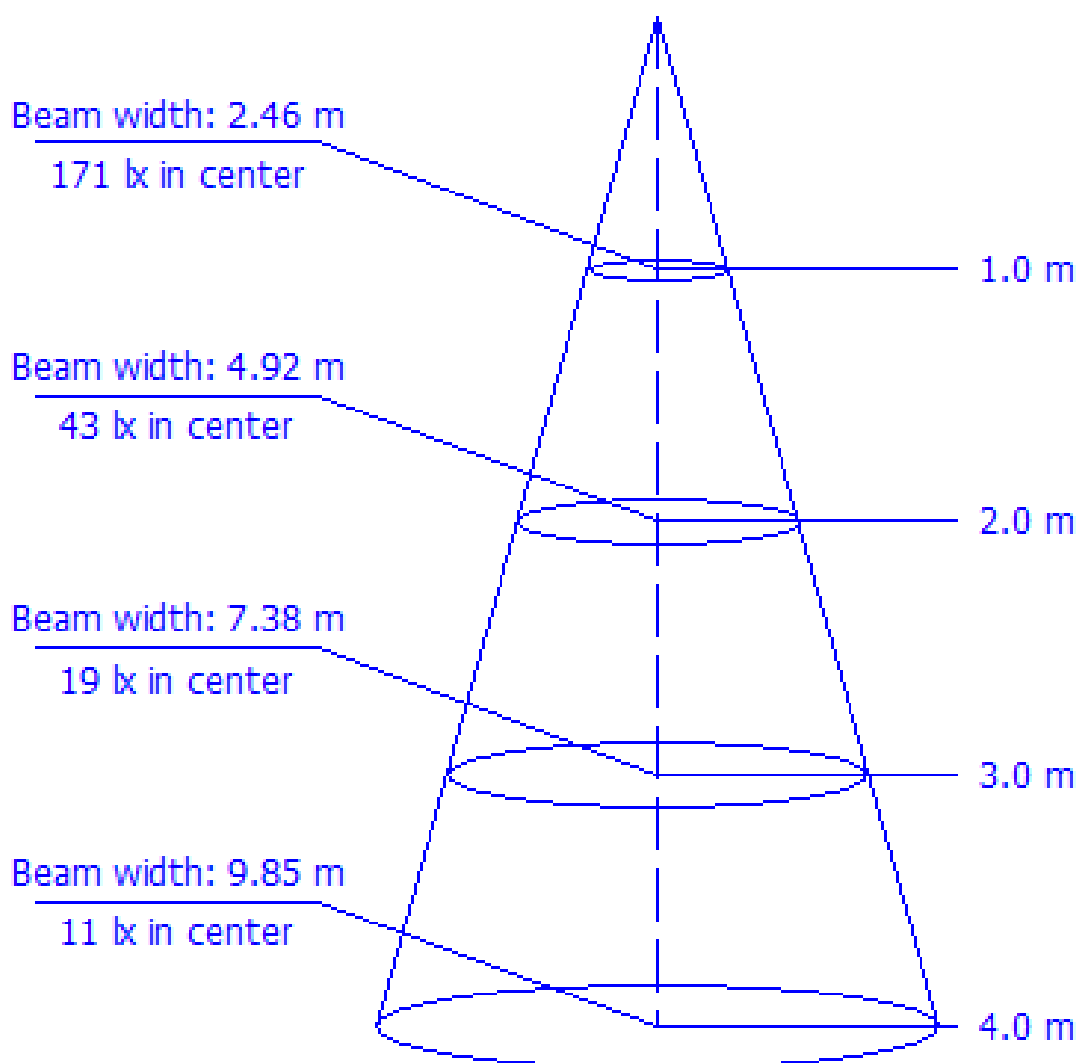
Total Optical Solution Provider


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

Luminaire

Lamp	Report	190315
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV12 24V-C90-Cool.jdt	
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Illuminance Cone Diagram



Beam Angle = 102 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp

Report

190315

No. of lamps	1	Voltage (V)	23.97	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV12 24V-C90-Cool.jdt
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Coefficient of Utilization

Refl. Ceiling (%)	80%	80%	80%	70%	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%	10%	0%
Eff. Floor Cavity Refl.	20%	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	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	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	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	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	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	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	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	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	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	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	0.00