

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-WC

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		0.3874, 0.3727	
Correlated Color Temperature	K	3797	
Ra	-	95.25	
Power Factor	%	1.000	
Input Voltage	V	23.950	
Input Current	A	0.477	
Input Watt	W	11.42	
Lamp Flux	lm	855.1	
Efficient	lm/W	74.85	
Illuminance	lx	322	1 m
		80	2 m
		36	3 m

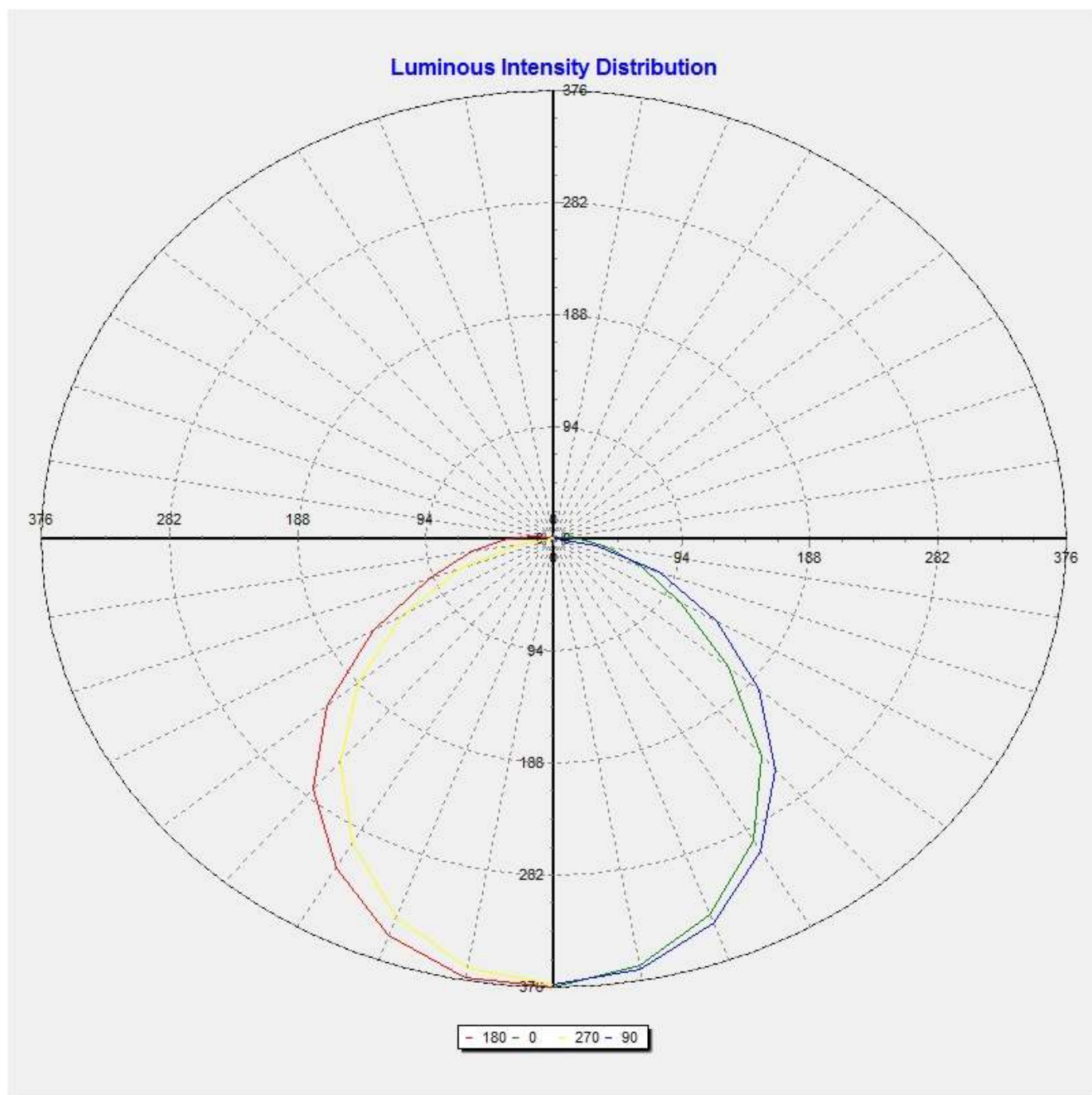
* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

Lamp	Report	190315
No. of lamps	1	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV12 24V-C90-WC.jdt
Lamp flux (lm)	855	Operator Current (A) 0.477 CGR
Total flux (lm)	855	Date Power Factor 1 2019-03-15 오후 12:12:09

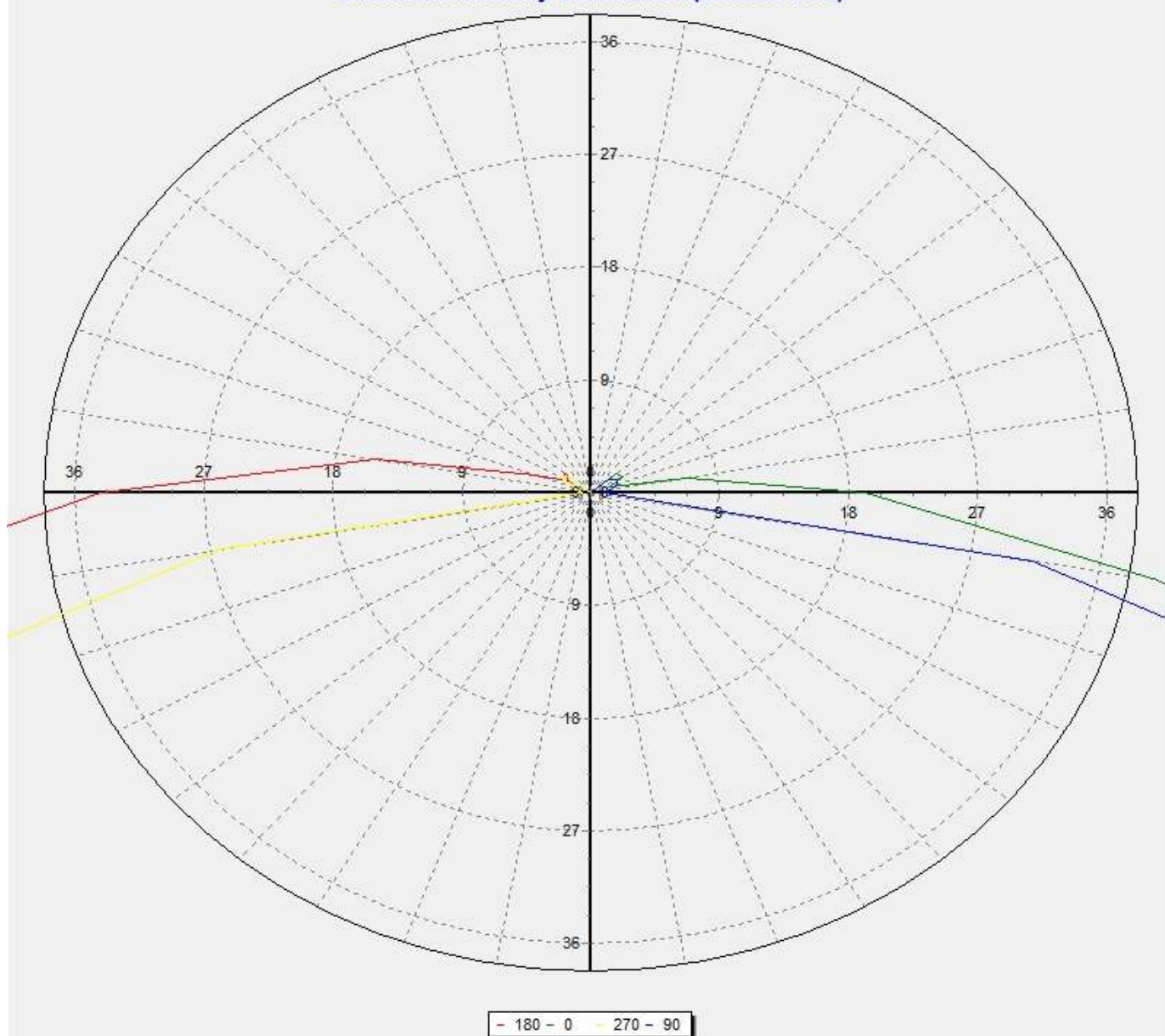


All luminous intensity values are in Cd/Klm unit.

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)	855	Date	Power Factor	1	2019-03-15 오후 12:12:09

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	321.82	320.27	320.85	319.85	321.56	321.59	321.82	320.27	320.85	319.85	321.56	321.59	321.82
10	310.74	311.42	313.02	313.55	317.19	318.62	319.33	318.82	315.70	313.14	309.30	307.71	310.74
20	286.68	287.84	289.12	293.01	299.40	303.72	302.53	301.71	294.55	289.29	284.19	283.26	286.68
30	250.66	250.61	255.51	259.21	268.04	274.42	273.03	269.68	262.07	252.88	246.95	246.50	250.66
40	203.12	205.60	210.65	216.38	227.37	234.12	234.60	229.01	219.28	208.51	202.03	198.55	203.12
50	143.96	149.39	160.72	168.18	179.02	188.13	186.47	182.52	169.00	159.72	151.72	142.74	143.96
60	92.65	98.69	111.20	117.90	129.39	138.67	130.96	131.44	121.85	110.04	101.87	91.98	92.65
70	58.35	59.33	64.24	70.17	82.92	88.71	83.12	83.36	75.78	63.28	57.93	55.54	58.35
80	34.41	33.74	30.60	26.77	41.89	52.53	52.27	49.34	37.10	22.62	26.22	29.93	34.41
90	16.35	14.98	9.42	0.81	15.72	27.71	29.24	25.45	12.37	0.51	7.04	13.16	16.35
100	5.82	4.42	1.47	1.28	2.99	12.14	13.00	10.04	2.28	0.90	1.62	1.53	5.82
110	1.24	0.97	1.86	1.70	1.25	2.42	3.51	1.62	1.32	1.12	0.91	1.45	1.24
120	2.24	1.82	1.52	1.79	1.47	1.21	1.51	2.03	1.85	2.02	1.35	2.04	2.24
130	1.98	2.19	1.96	1.41	2.49	2.40	2.12	2.19	2.59	1.65	2.38	2.32	1.98

Luminaire

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Luminous Flux Table

Total Lamp Lumens: 855
 Luminaire Efficiency (lm/W):855.07
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	7.67	7.67	0.90	0.90
10	59.73	67.40	7.88	7.88
20	109.73	177.13	20.72	20.72
30	141.90	319.04	37.31	37.31
40	151.90	470.94	55.07	55.08
50	138.54	609.48	71.28	71.28
60	108.81	718.29	84.00	84.00
70	72.28	790.57	92.45	92.46
80	39.32	829.89	97.05	97.06
90	15.77	845.66	98.90	98.90
100	5.17	850.82	99.50	99.50
110	1.66	852.49	99.69	99.70
120	1.65	854.14	99.89	99.89
130	0.93	855.07	100.00	100.00

Luminaire

Lamp

Report

190315

No. of lamps

1

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

Lamp flux (lm)

855

Operator

Current (A)

0.477

CGR

Total flux (lm)

855

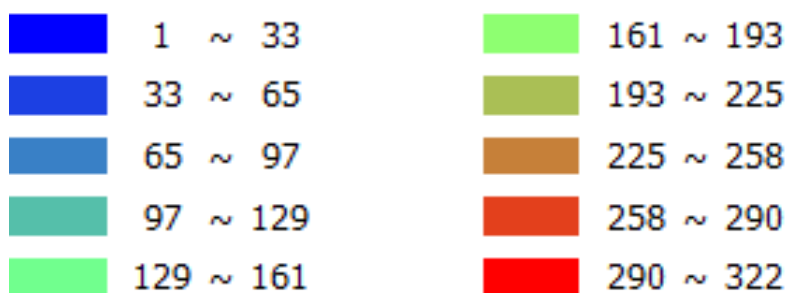
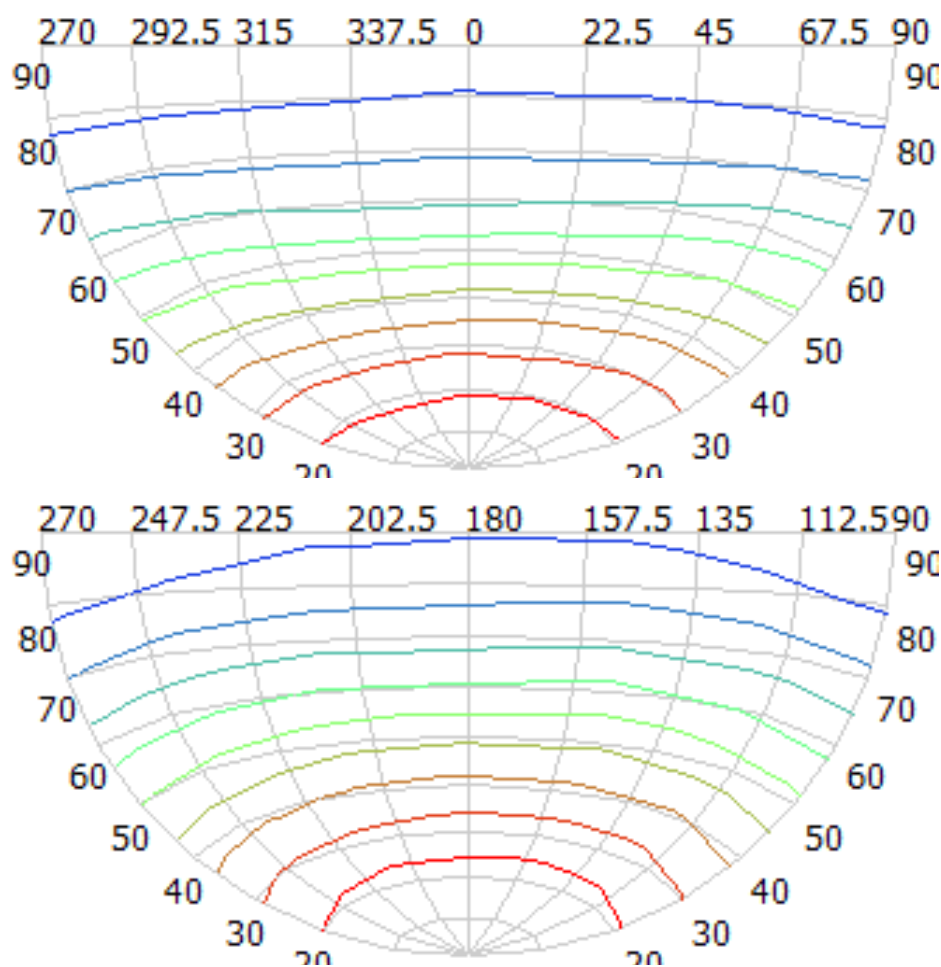
Date

Power Factor

1

2019-03-15 오후 12:12:09

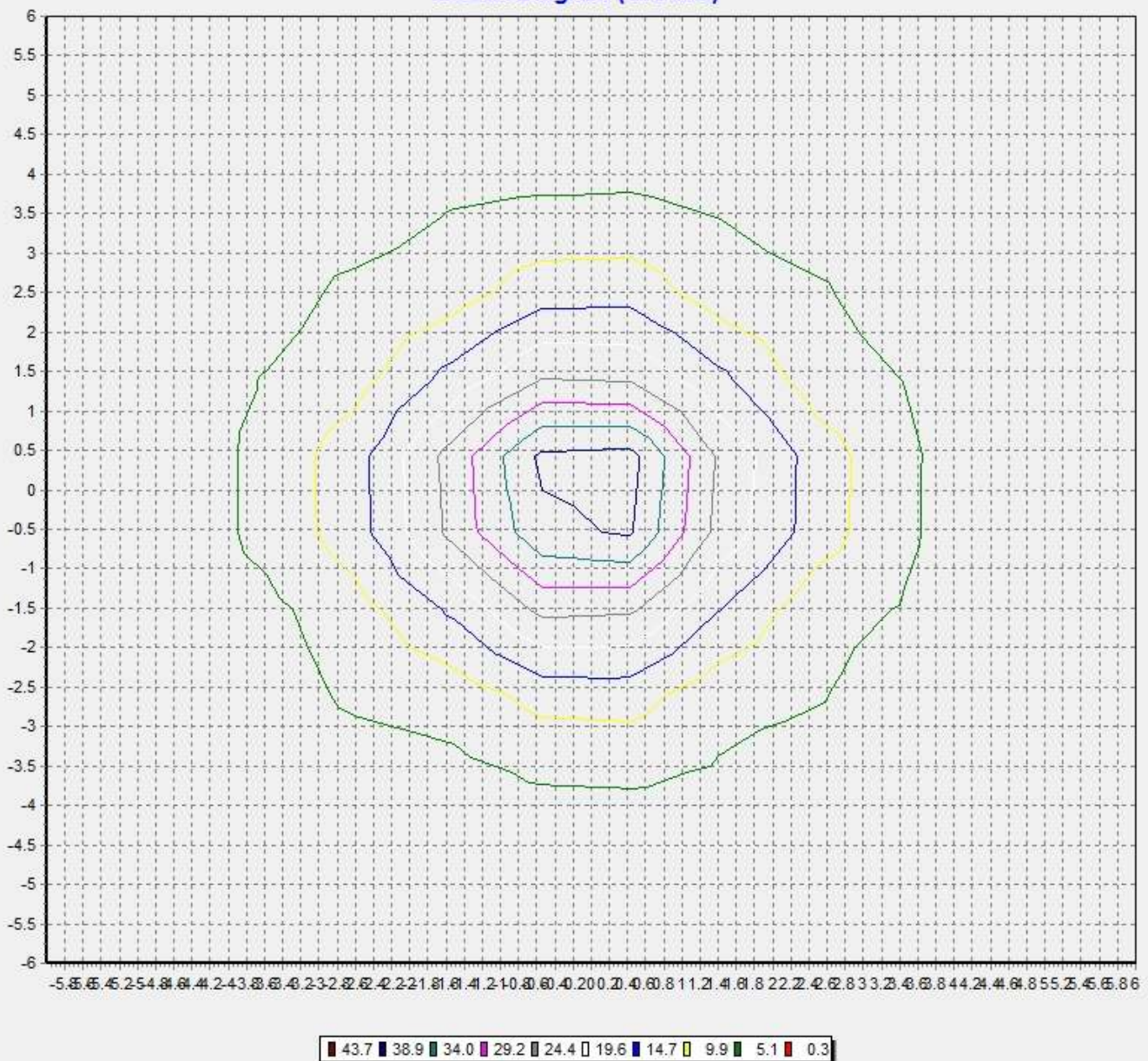
IsoCandela (Type C)



Luminaire

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IsoLux Diagram (Ground)



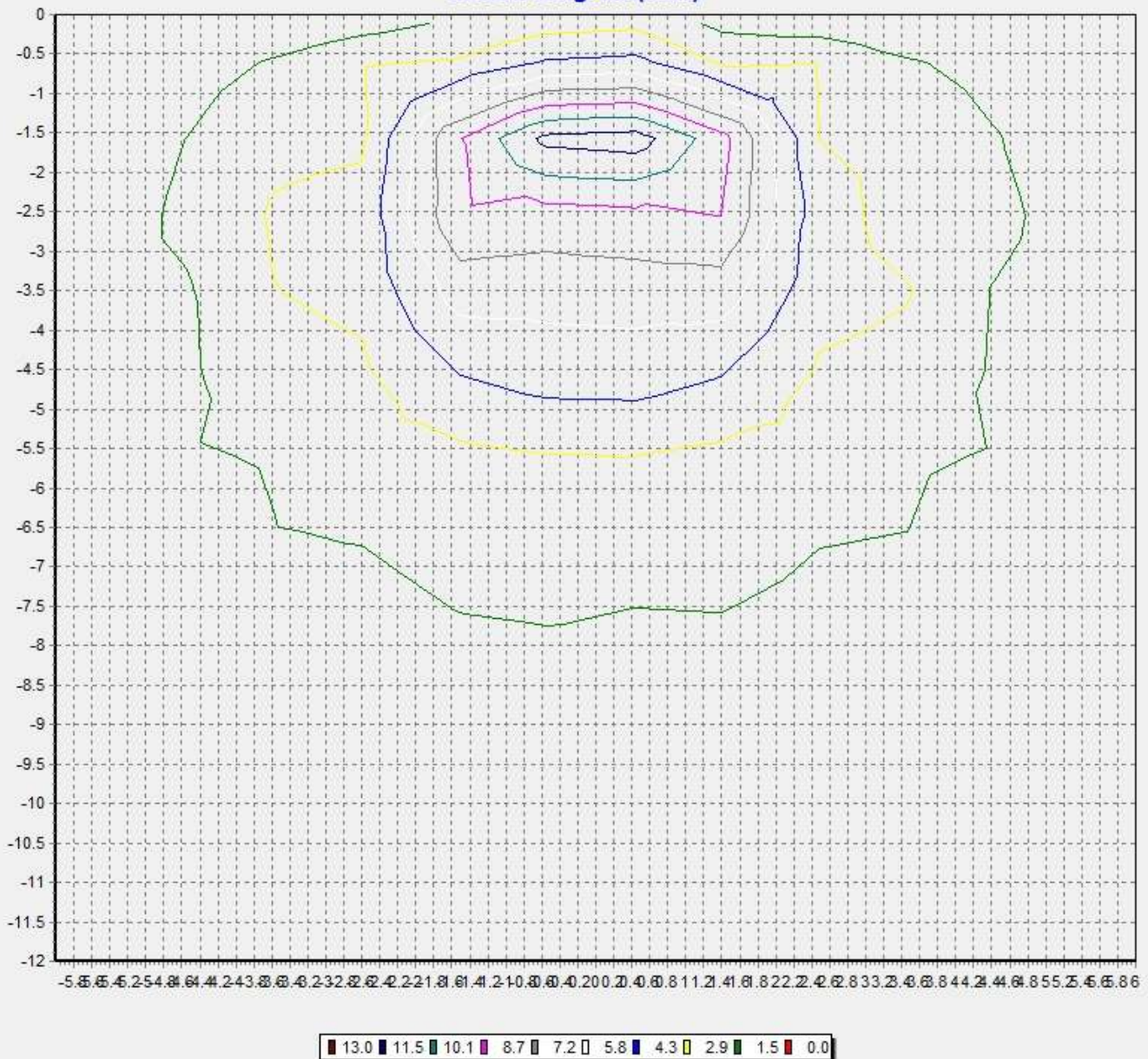
Pole Height (m): 2.7

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)	23.95	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV12 24V-C90-WC.jdt
Lamp flux (lm)	855	Current (A)	0.477	Operator	CGR
Total flux (lm)	855	Power Factor	1	Date	2019-03-15 오후 12:12:09

Illuminance Levels (Ground)

6.00	0.43	0.56	0.44	0.65	0.77	0.78	0.86	0.80	0.62	0.48	0.39	0.49	0.33
5.00	0.63	0.50	0.70	0.95	1.97	2.15	2.35	2.18	1.67	0.88	0.61	0.39	0.44
4.00	0.54	0.81	1.66	2.39	2.53	2.94	3.32	2.95	2.00	2.21	1.36	0.55	0.36
3.00	0.66	1.15	2.62	2.89	5.98	6.66	7.30	5.87	5.73	2.30	2.01	0.76	0.48
2.00	0.83	2.04	2.58	6.46	8.64	14.26	16.46	13.02	7.58	5.46	1.96	1.61	0.59
1.00	0.95	2.47	3.42	6.94	14.39	25.87	35.39	24.72	12.97	5.64	2.45	1.86	0.65
0.00	0.98	2.61	3.68	8.05	17.65	36.06	44.15	35.06	15.63	6.39	2.72	2.00	0.69
-1.00	0.97	2.48	3.43	7.00	14.49	26.57	35.33	24.66	12.74	5.66	2.45	1.87	0.65
-2.00	0.82	2.05	2.60	6.46	9.12	14.38	15.94	12.81	7.85	5.36	2.01	1.63	0.58
-3.00	0.66	1.08	2.60	3.07	6.05	6.75	6.96	5.91	5.68	2.51	2.01	0.75	0.47
-4.00	0.51	0.78	1.76	2.42	2.58	2.96	3.12	2.97	2.05	2.20	1.46	0.54	0.34
-5.00	0.61	0.55	0.73	1.00	2.00	2.15	2.23	2.18	1.69	0.87	0.60	0.40	0.44
-6.00	0.46	0.58	0.47	0.65	0.79	0.78	0.79	0.82	0.61	0.48	0.38	0.49	0.36
-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.): 44.1

All illuminance level values are in lux.

Illum. (Min.): 0.33

Illum. Avg.: 4.72

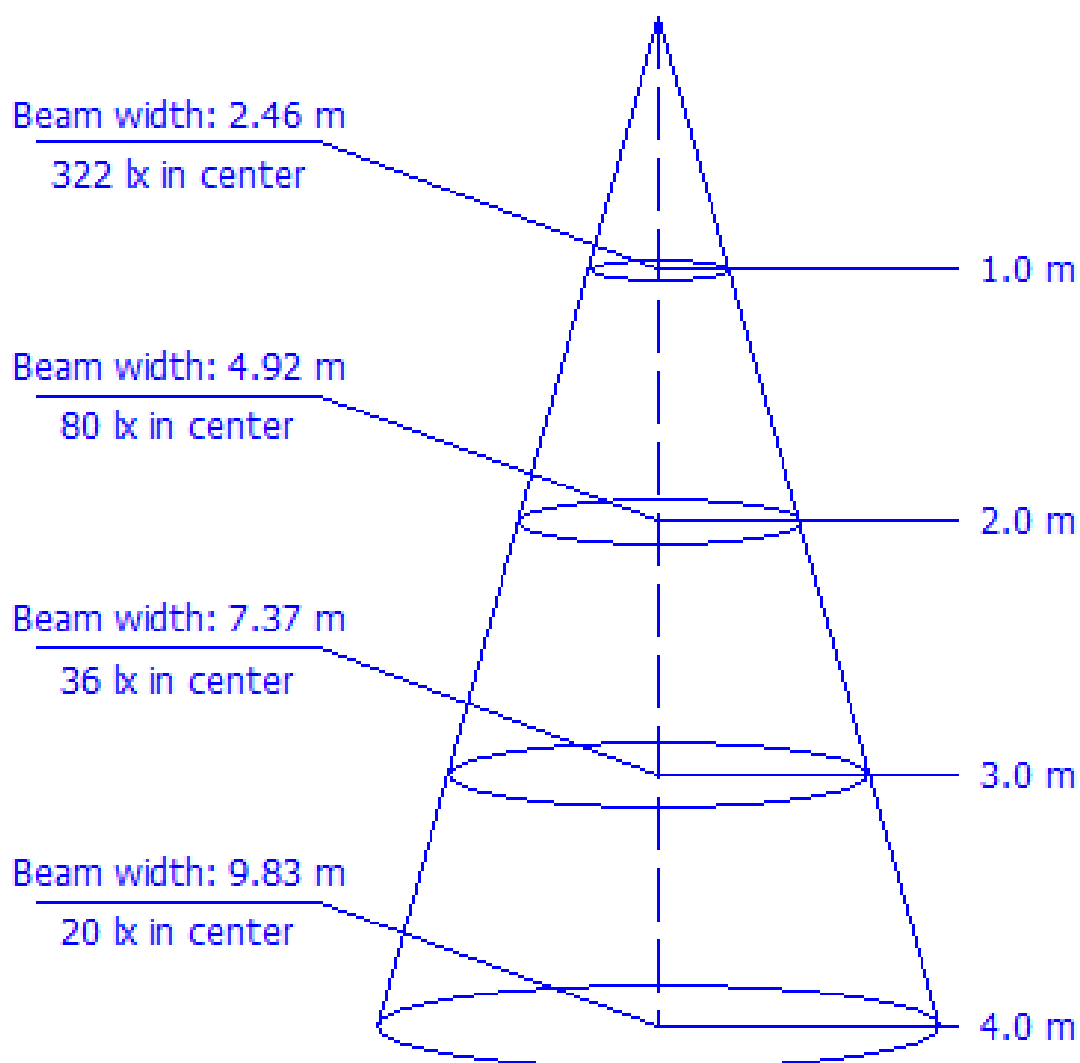
Total Optical Solution Provider


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

Luminaire

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Illuminance Cone Diagram



Beam Angle = 102 deg.

Based on 50% of maximum illuminance.

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