

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 : 190313

2. Purpose of Report :

3. Test Standard / Item : LED / 190313 DDV3-24V-C90-WC

4. Test Period : 190313 ~ 190313

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
190313	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3904, 0.3762	
Correlated Color Temperature	K	3747	
Ra	-	94.74	
Power Factor	%	1.000	
Input Voltage	V	23.990	
Input Current	A	0.120	
Input Watt	W	2.87	
Lamp Flux	lm	221.6	
Efficient	lm/W	76.98	
Illuminance	lx	83	1 m
		21	2 m
		9	3 m

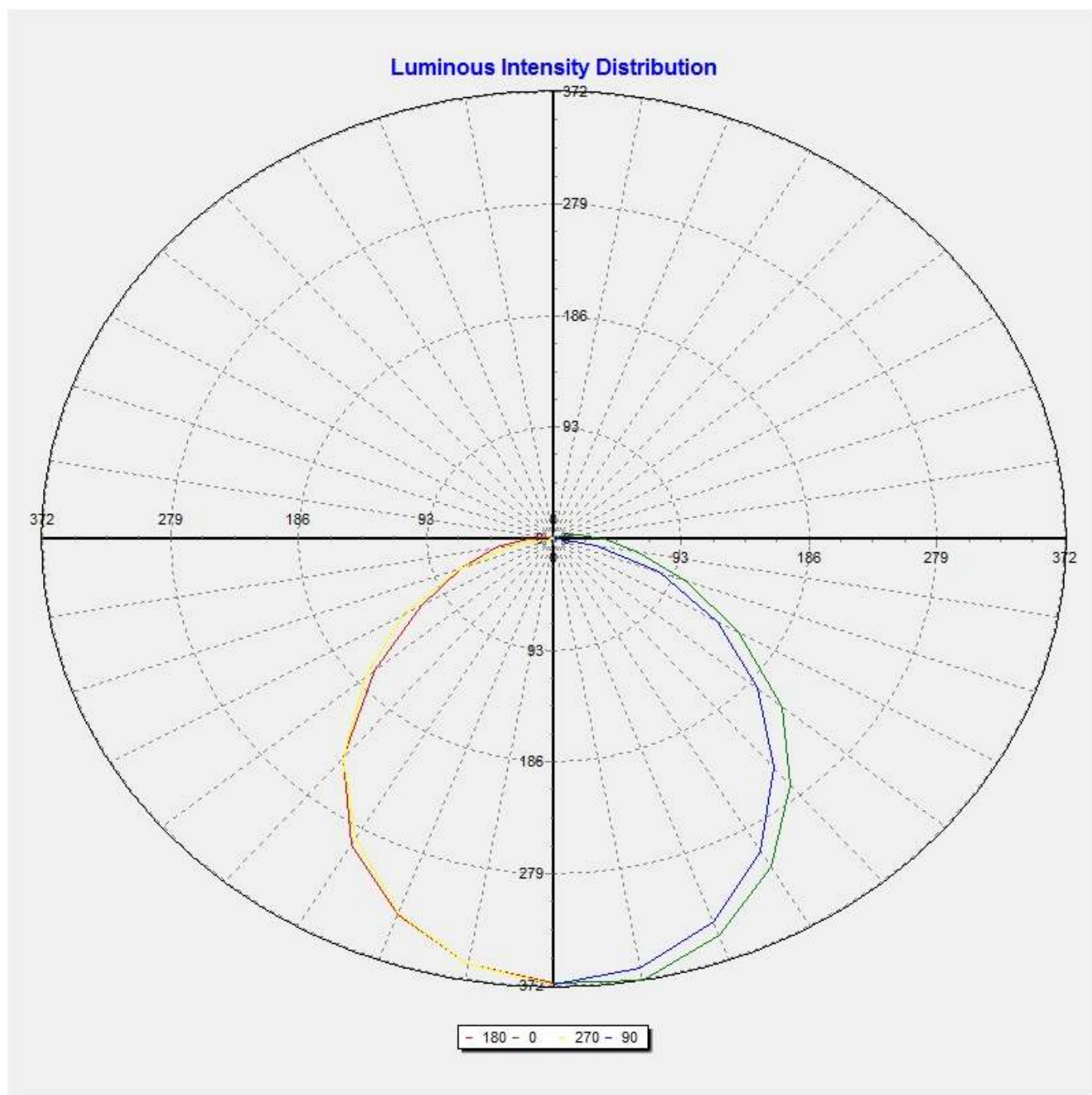
* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

Lamp		Report		190313
No. of lamps	1	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 DDV3 24V-C90-WC.jdt	
Lamp flux (lm)	222	Operator	Current (A)	0.12
Total flux (lm)	222	Date	Power Factor	1
				2019-03-13 오후 3:59:32

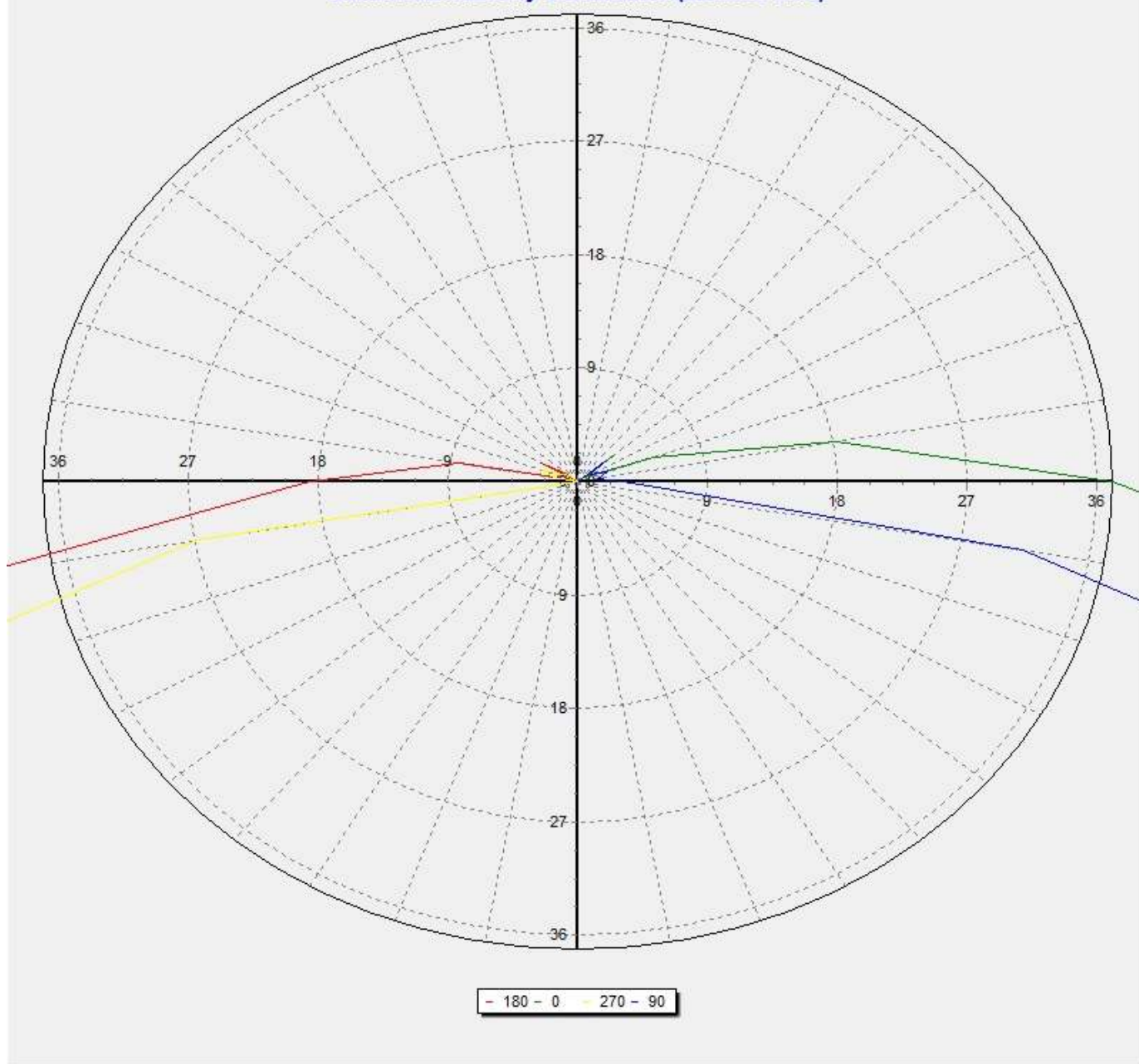


All luminous intensity values are in Cd/Klm unit.

Luminaire

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				CGR
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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	82.15	82.39	82.90	82.31	82.67	82.12	82.15	82.39	82.90	82.31	82.67	82.12	82.15
10	82.86	81.68	81.31	80.57	81.10	80.75	79.79	79.33	78.88	79.72	80.25	81.22	82.86
20	78.05	77.10	76.93	75.26	74.98	74.65	73.83	73.61	73.02	73.67	74.31	76.82	78.05
30	70.14	69.51	68.53	66.75	66.52	66.42	65.43	64.22	63.55	63.97	66.15	68.20	70.14
40	59.50	59.68	57.85	55.23	55.75	54.64	52.83	52.88	52.35	52.96	54.36	57.41	59.50
50	48.27	47.46	45.27	42.97	43.15	40.76	37.75	38.76	39.52	39.80	42.00	44.46	48.27
60	34.57	33.88	33.50	30.68	29.25	26.85	24.85	24.90	26.84	28.01	30.17	31.84	34.57
70	22.74	22.26	21.25	18.00	18.13	17.27	15.87	15.70	14.98	15.86	18.09	20.64	22.74
80	13.96	13.84	10.77	6.96	8.75	9.82	9.38	9.27	7.46	5.97	9.27	12.56	13.96
90	8.23	6.86	4.48	0.71	2.90	4.06	4.12	4.46	2.63	-0.06	3.20	6.74	8.23
100	4.03	3.37	1.04	0.31	0.51	1.47	1.85	1.64	0.29	0.38	0.78	2.60	4.03
110	1.23	0.29	0.55	0.50	0.44	0.52	0.06	0.25	0.06	0.58	0.67	0.38	1.23
120	0.14	0.52	0.09	0.23	0.27	0.90	0.67	1.32	0.71	0.27	0.93	0.65	0.14
130	0.72	0.52	0.18	0.54	1.09	0.88	0.25	0.59	0.76	0.16	1.00	0.79	0.72

Luminaire

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Lamp flux (lm)	222	Operator Current (A) 0.12 CGR
Total flux (lm)	222	Date Power Factor 1 2019-03-13 오후 3:59:32

Luminous Flux Table

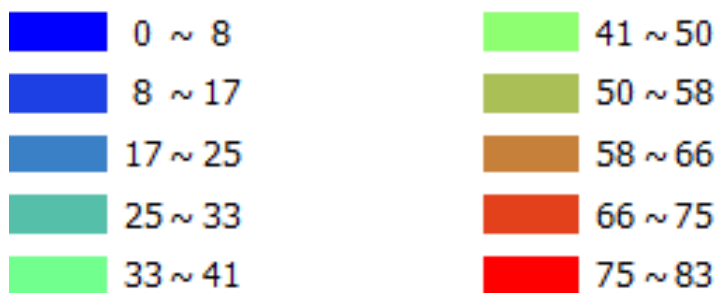
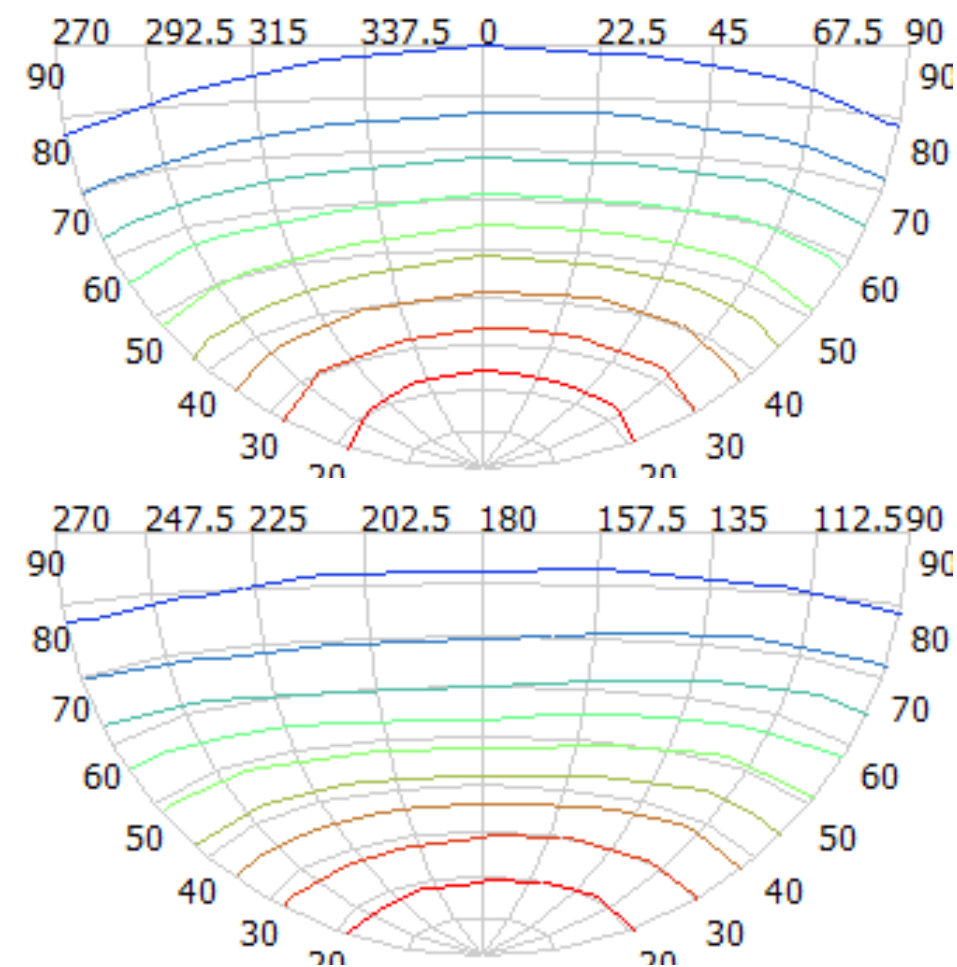
Total Lamp Lumens: 222
 Luminaire Efficiency (lm/W):221.62
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	1.97	1.97	0.89	0.89
10	15.33	17.30	7.81	7.81
20	28.16	45.47	20.52	20.52
30	36.48	81.95	36.98	36.98
40	39.04	120.99	54.60	54.59
50	35.67	156.66	70.69	70.69
60	28.09	184.74	83.37	83.36
70	18.94	203.68	91.91	91.91
80	10.61	214.29	96.70	96.69
90	4.41	218.70	98.69	98.68
100	1.64	220.34	99.43	99.43
110	0.47	220.82	99.65	99.64
120	0.53	221.34	99.88	99.88
130	0.27	221.62	100.01	100.00

Luminaire

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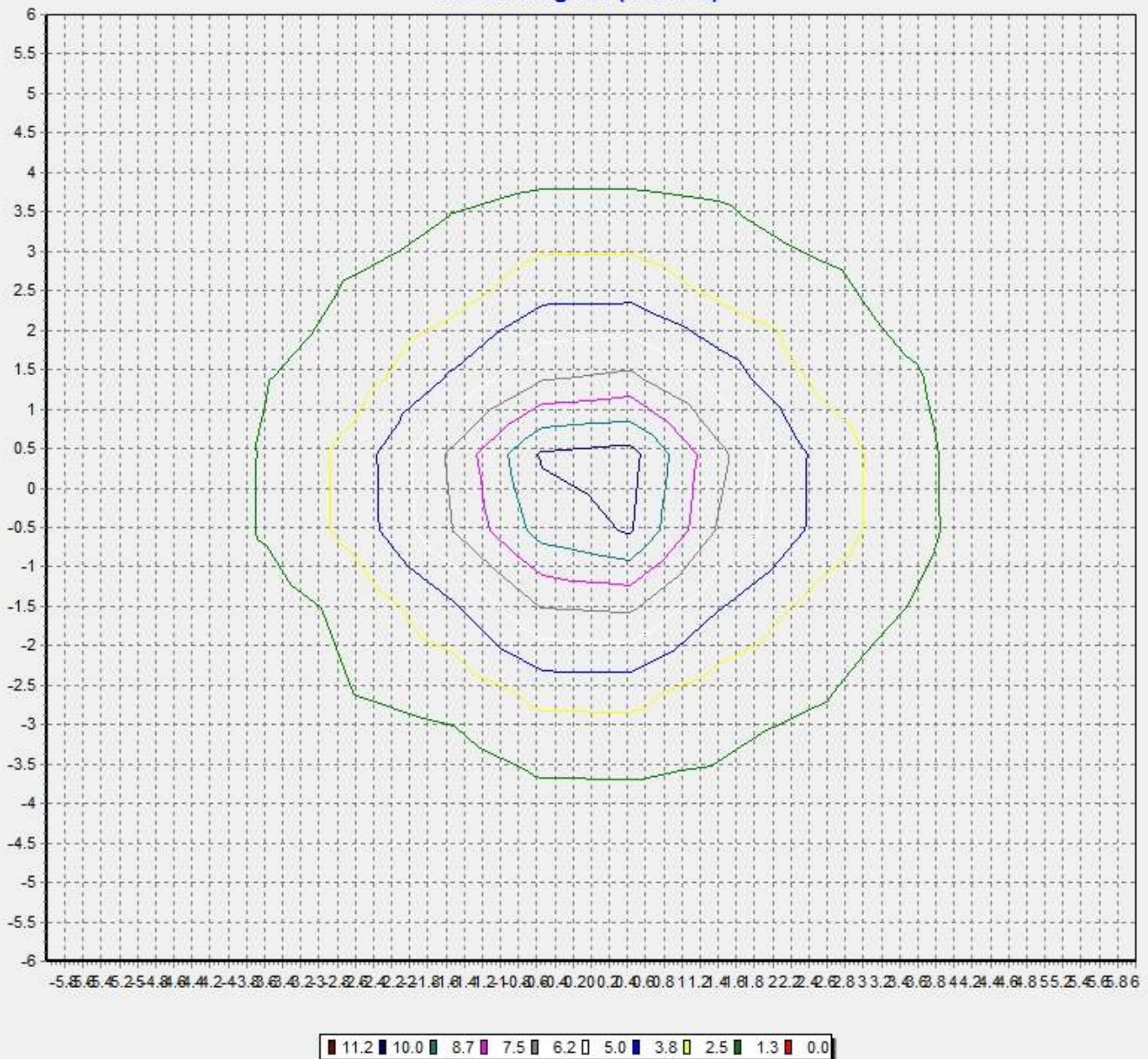
IsoCandela (Type C)



Luminaire

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Lamp flux (lm)	222	Operator Current (A) 0.12 CGR
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IsoLux Diagram (Ground)

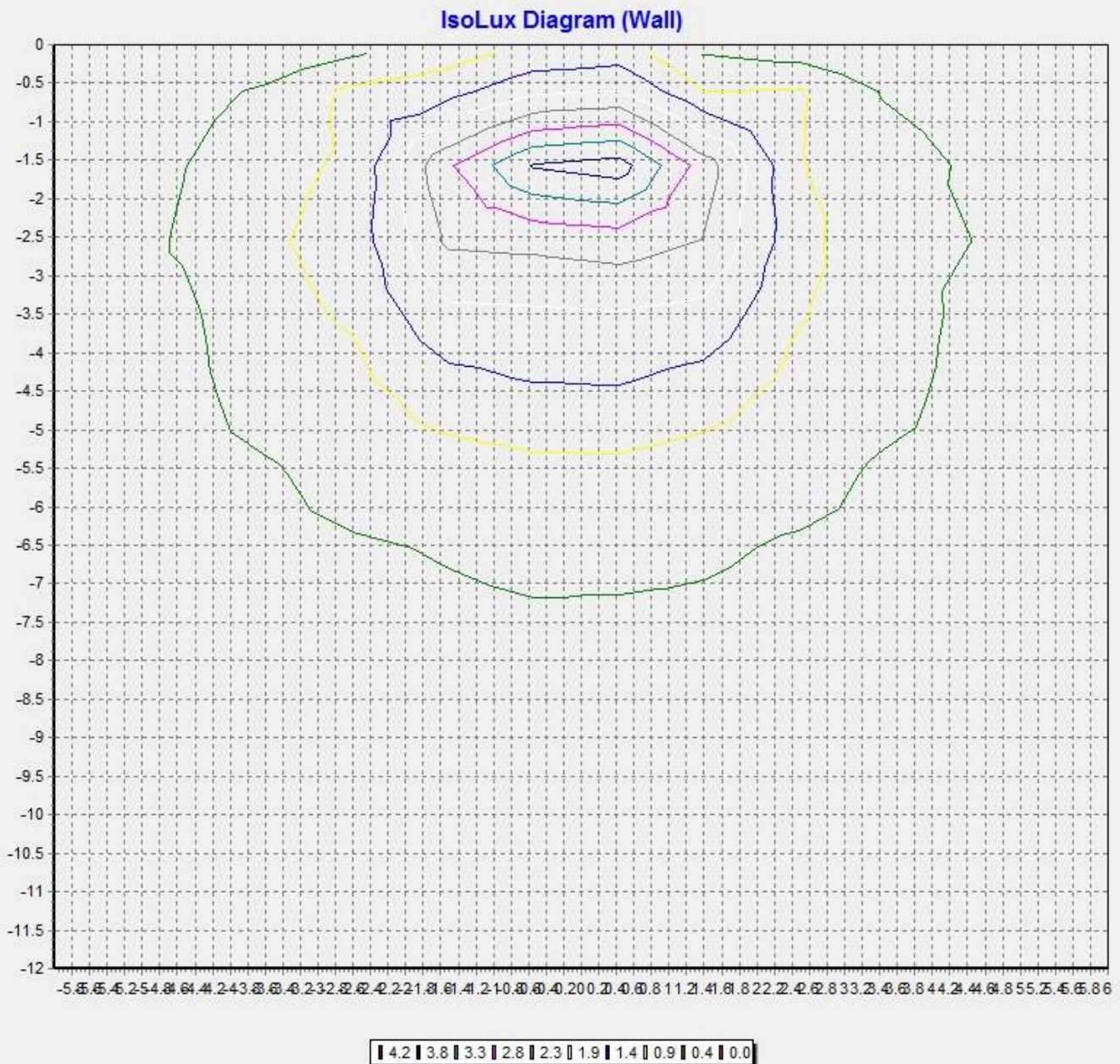


Pole Height (m): 2.7

Area Width (m): 12

Luminaire

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

Luminaire

Lamp

Report

190313

No. of lamps 1 Voltage (V) 23.99

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 DDV3 24V-C90-WC.jdt

Lamp flux (lm) 222 Current (A) 0.12

Operator CGR

Total flux (lm) 222 Power Factor 1

Date 2019-03-13 오후 3:59:32

Illuminance Levels (Ground)

6.00	0.10	0.14	0.11	0.14	0.18	0.23	0.22	0.22	0.21	0.17	0.13	0.16	0.12
5.00	0.13	0.12	0.17	0.25	0.48	0.59	0.60	0.58	0.52	0.28	0.20	0.15	0.16
4.00	0.11	0.16	0.41	0.60	0.59	0.81	0.86	0.81	0.67	0.64	0.46	0.21	0.14
3.00	0.14	0.22	0.57	0.70	1.52	1.64	1.86	1.77	1.60	0.80	0.67	0.29	0.18
2.00	0.18	0.47	0.58	1.49	2.15	3.51	4.22	3.75	2.36	1.65	0.67	0.53	0.22
1.00	0.18	0.51	0.68	1.61	3.51	6.54	9.09	6.83	3.76	1.82	0.84	0.61	0.24
0.00	0.19	0.52	0.72	1.67	4.07	9.00	11.27	9.36	4.50	2.07	0.96	0.68	0.26
-1.00	0.19	0.52	0.68	1.47	3.34	6.38	9.00	6.40	3.46	1.64	0.85	0.62	0.24
-2.00	0.15	0.42	0.50	1.42	1.97	3.34	4.04	3.42	2.06	1.56	0.60	0.48	0.19
-3.00	0.12	0.21	0.53	0.60	1.43	1.49	1.74	1.57	1.45	0.68	0.62	0.26	0.15
-4.00	0.10	0.15	0.35	0.55	0.50	0.71	0.79	0.71	0.59	0.56	0.39	0.19	0.12
-5.00	0.11	0.10	0.15	0.21	0.42	0.52	0.56	0.52	0.46	0.22	0.16	0.11	0.14
-6.00	0.09	0.12	0.09	0.12	0.15	0.19	0.20	0.18	0.17	0.14	0.10	0.13	0.10
-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.): 11.2

All illuminance level values are in lux.

Illum. (Min.): 0.09

Illum. Avg.: 1.21

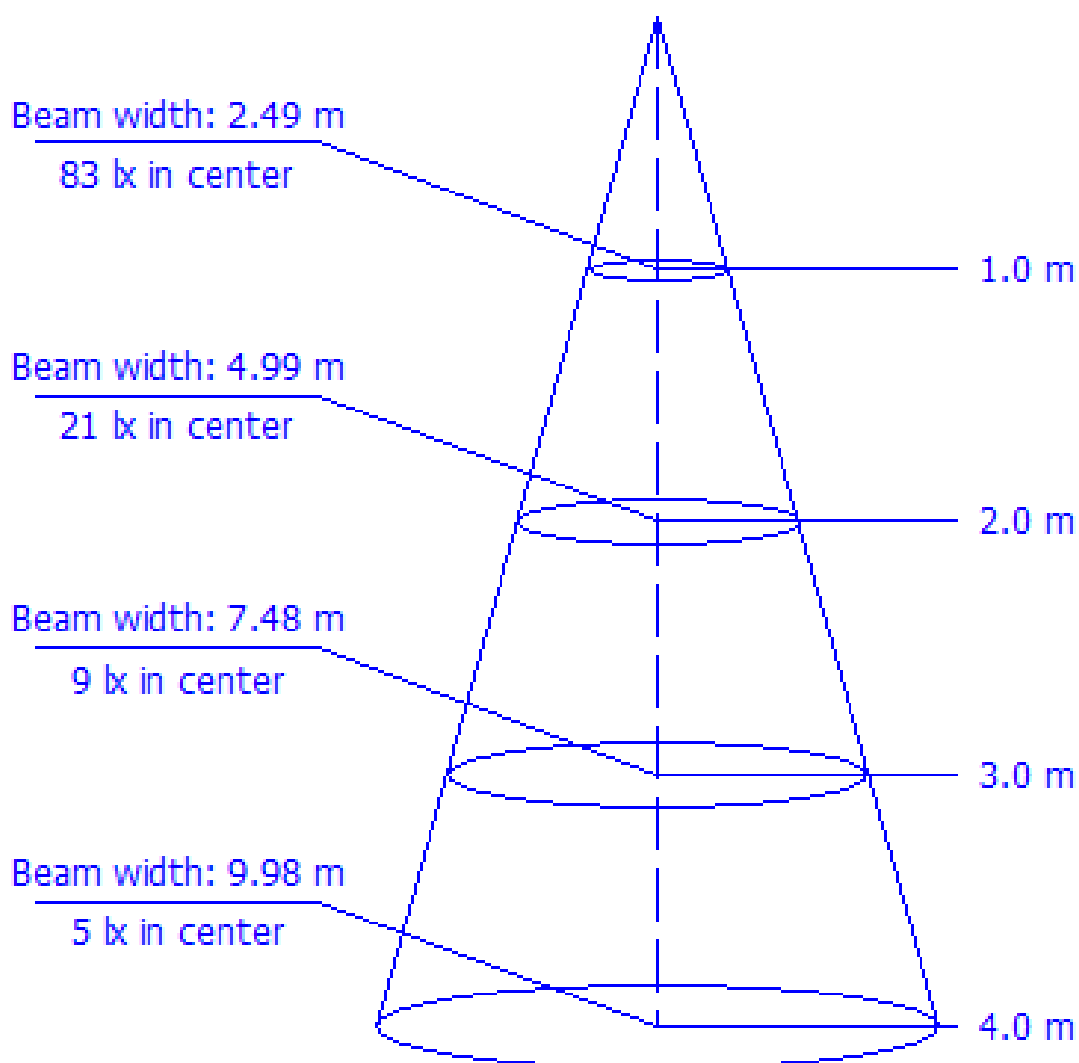
Total Optical Solution Provider


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

Luminaire

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Illuminance Cone Diagram



Beam Angle = 103 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp

Report

190313

No. of lamps 1 Voltage (V) 23.99

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Operator CGR

Total flux (lm) 222 Power Factor 1

Date 2019-03-13 오후 3:59:32

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