

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-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		0.3882, 0.3724	
Correlated Color Temperature	K	3774	
Ra	-	95.55	
Power Factor	%	1.000	
Input Voltage	V	23.900	
Input Current	A	0.947	
Input Watt	W	22.63	
Lamp Flux	lm	1766.3	
Efficient	lm/W	78.04	
Illuminance	lx	649	1 m
		162	2 m
		72	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 DDV24 24V-C90-WC.jdt

Lamp flux (lm)

1766 Operator

Current (A)

0.947

CGR

Total flux (lm)

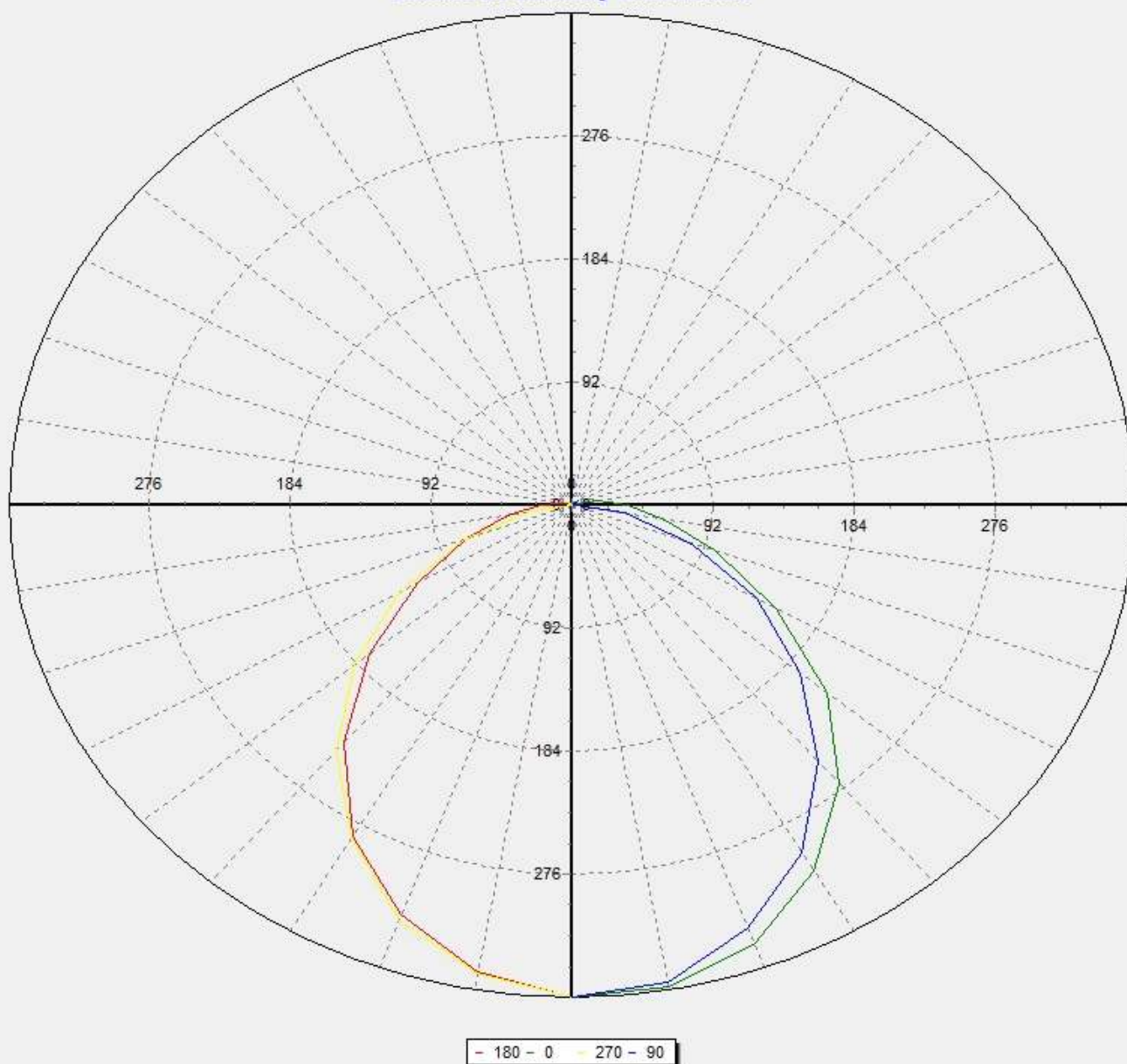
1766 Date

Power Factor

1

2019-03-15 오후 3:03:20

Luminous Intensity Distribution



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp

Report

190315

No. of lamps

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Lamp flux (lm)

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Current (A)

0.947

CGR

Total flux (lm)

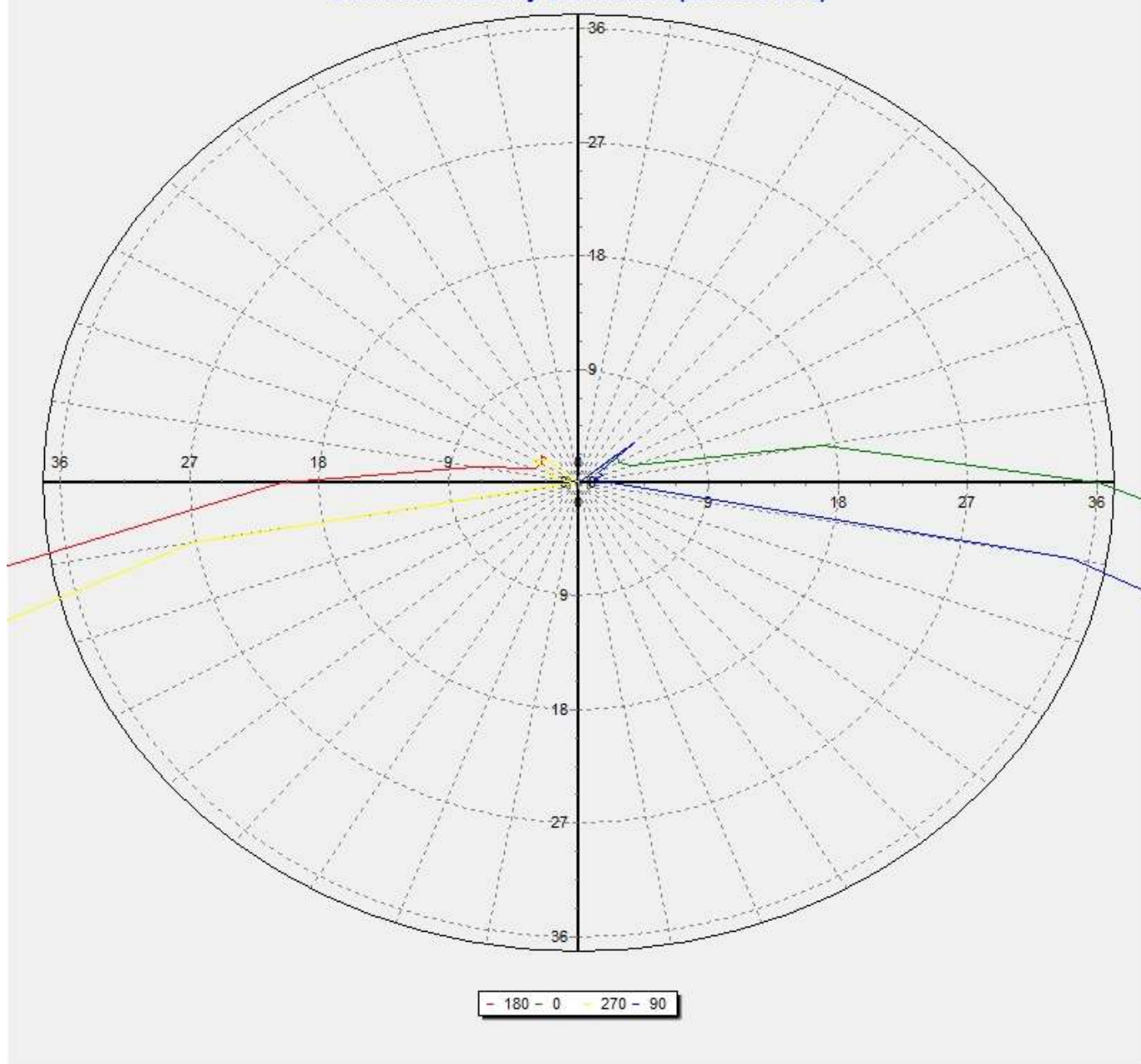
1766 Date

Power Factor

1

2019-03-15 오후 3:03:20

Luminous Intensity Distribution (Lowest 10%)



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 DDV24 24V-C90-WC.jdt			
Lamp flux (lm)	1766 Operator	Current (A)	0.947	CGR
Total flux (lm)	1766 Date	Power Factor	1	2019-03-15 오후 3:03:20

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	648.74	649.31	646.50	649.31	649.94	651.34	648.74	649.31	646.50	649.31	649.94	651.34	648.74
10	645.94	642.23	641.95	638.31	633.40	624.93	625.21	624.51	628.22	628.15	636.84	641.18	645.94
20	615.40	615.68	607.49	594.46	586.26	579.26	576.11	567.98	575.83	583.88	588.72	603.36	615.40
30	556.71	560.84	548.02	529.46	518.18	513.00	504.10	495.28	498.57	508.09	526.66	550.26	556.71
40	479.87	480.57	467.19	442.60	433.50	422.43	409.26	406.39	412.62	423.13	441.20	461.23	479.87
50	384.33	382.99	373.26	344.40	335.78	322.55	304.68	309.17	313.86	327.94	346.22	364.50	384.33
60	271.76	273.72	271.34	246.62	233.66	222.17	206.41	209.84	216.85	230.16	249.98	259.36	271.76
70	175.03	176.64	169.29	147.78	143.79	138.61	128.66	130.20	128.94	133.42	153.39	168.03	175.03
80	109.47	101.13	87.96	61.28	67.72	77.32	74.94	73.96	59.11	48.04	74.52	96.30	109.47
90	63.73	55.53	32.14	3.84	20.23	36.55	36.41	34.66	18.27	0.55	25.90	50.00	63.73
100	30.32	24.50	5.87	1.95	0.55	11.41	12.88	11.27	4.19	3.14	1.25	18.20	30.32
110	6.85	3.28	6.50	3.21	5.52	2.44	5.59	2.93	2.93	3.63	2.44	3.70	6.85
120	5.59	5.38	5.66	2.93	6.43	5.94	5.31	5.31	3.70	6.50	3.49	5.66	5.59
130	6.22	6.36	6.36	8.81	7.20	8.53	6.01	4.54	6.99	4.96	3.70	3.42	6.22

Luminaire

Lamp	Report	190315
No. of lamps	1	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-WC.jdt
Lamp flux (lm)	1766	Operator Current (A) 0.947 CGR
Total flux (lm)	1766	Date Power Factor 1 2019-03-15 오후 3:03:20

Luminous Flux Table

Total Lamp Lumens: 1766
 Luminaire Efficiency (lm/W): 1766.30
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	15.52	15.52	0.88	0.88
10	120.62	136.14	7.71	7.71
20	221.46	357.60	20.25	20.25
30	287.92	645.52	36.55	36.55
40	309.76	955.28	54.08	54.08
50	287.33	1242.61	70.35	70.35
60	228.58	1471.19	83.29	83.29
70	153.84	1625.03	92.00	92.00
80	83.75	1708.78	96.74	96.74
90	34.48	1743.26	98.70	98.70
100	11.28	1754.55	99.33	99.33
110	4.20	1758.75	99.57	99.57
120	4.89	1763.65	99.85	99.85
130	2.65	1766.30	100.00	100.00

Luminaire

Lamp

Report

190315

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Lamp flux (lm)

1766 Operator

Current (A)

0.947

CGR

Total flux (lm)

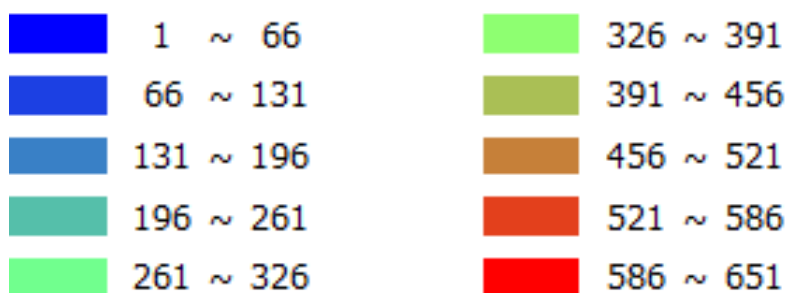
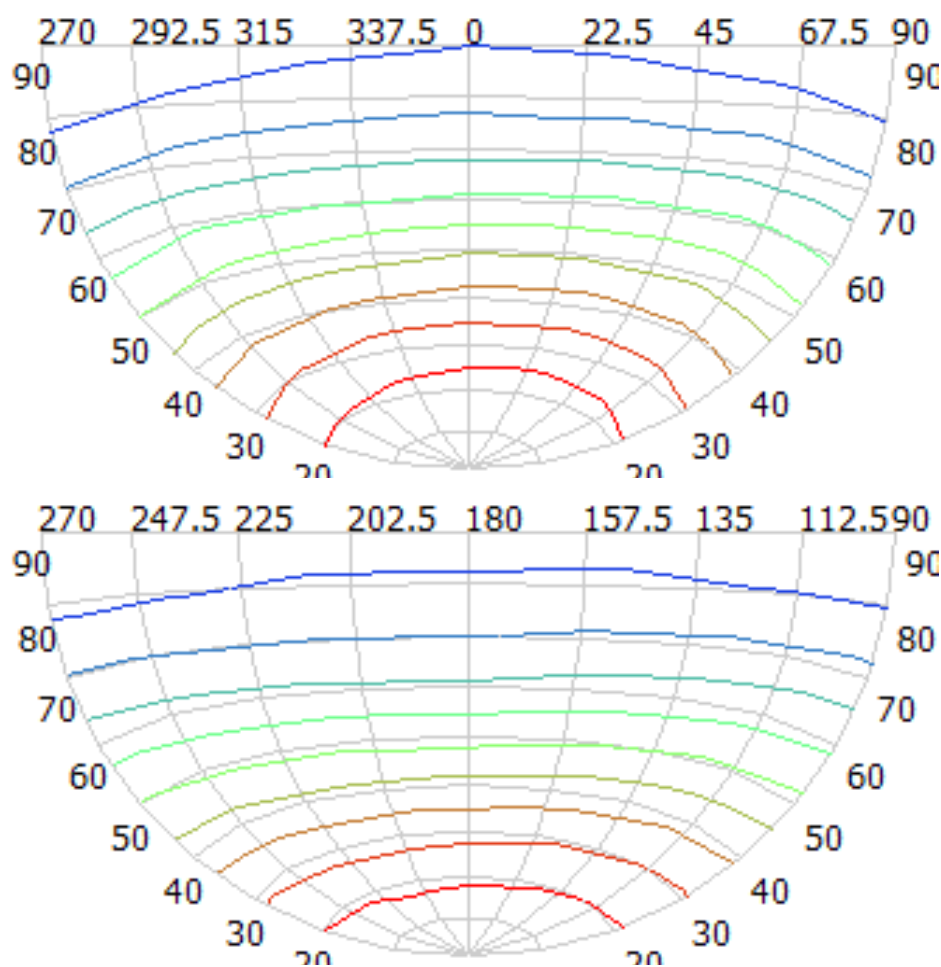
1766 Date

Power Factor

1

2019-03-15 오후 3:03:20

IsoCandela (Type C)



Luminaire

Lamp

Report

190315

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Lamp flux (lm)

1766 Operator

Current (A)

0.947

CGR

Total flux (lm)

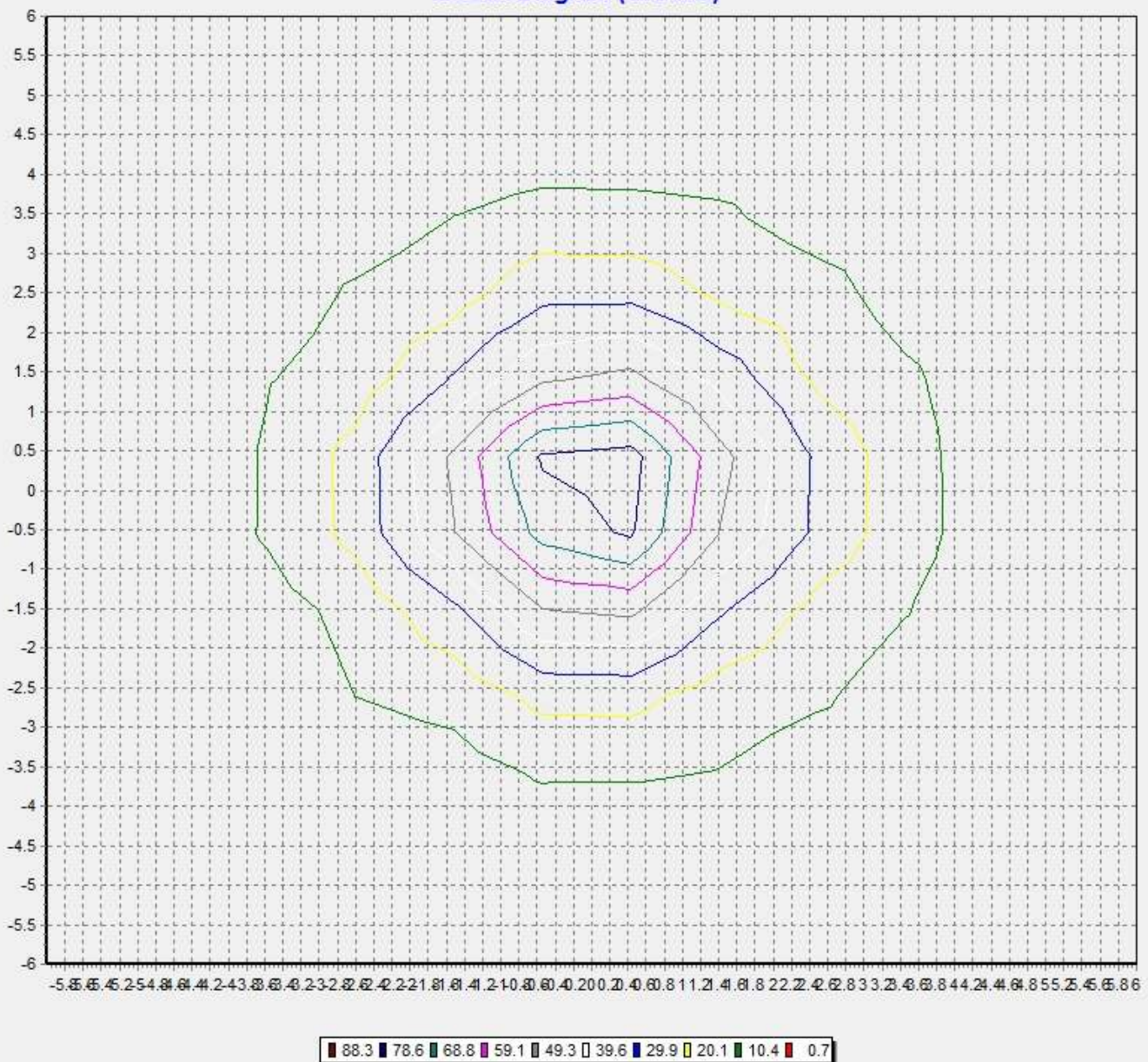
1766 Date

Power Factor

1

2019-03-15 오후 3:03:20

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp

Report

190315

No. of lamps

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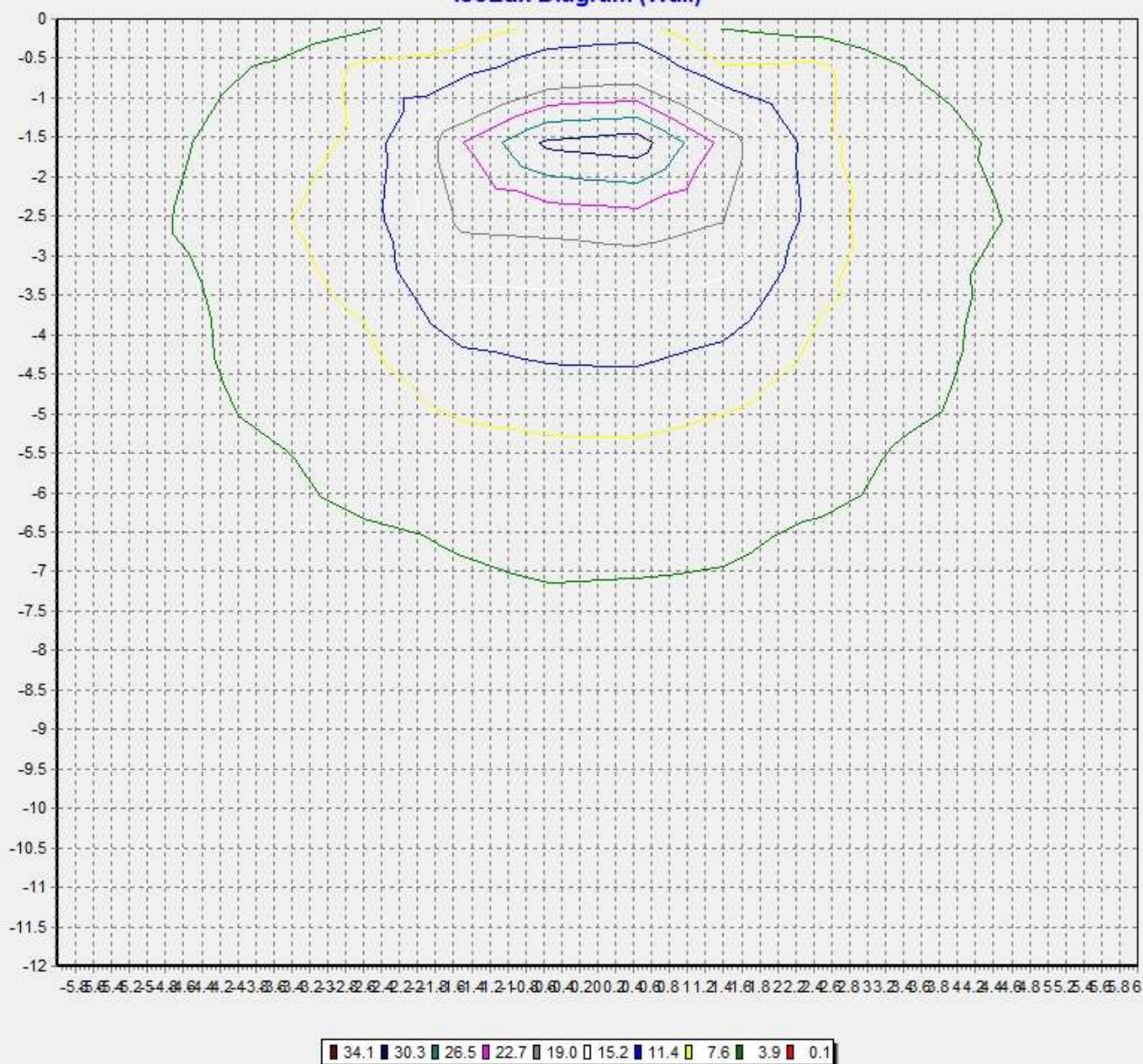
1766 Date

Power Factor

1

2019-03-15 오후 3:03:20

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) 23.9

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

Lamp flux (lm) 1766 Current (A) 0.947

Operator CGR

Total flux (lm) 1766 Power Factor 1

Date 2019-03-15 오후 3:03:20

Illuminance Levels (Ground)

6.00	0.83	1.12	0.90	1.15	1.45	1.85	1.80	1.78	1.70	1.39	1.04	1.26	0.96
5.00	1.04	0.96	1.40	1.99	3.76	4.80	4.83	4.70	4.25	2.23	1.61	1.15	1.26
4.00	0.85	1.32	3.24	4.80	4.67	6.58	6.87	6.55	5.41	5.28	3.66	1.64	1.07
3.00	1.15	1.83	4.55	5.62	12.12	12.92	14.94	14.42	12.97	6.37	5.38	2.26	1.39
2.00	1.40	3.68	4.62	11.59	16.98	27.43	33.65	30.21	18.93	13.28	5.41	4.28	1.71
1.00	1.49	4.09	5.54	12.60	27.28	51.44	72.04	54.56	30.30	14.58	6.77	4.91	1.89
0.00	1.53	4.25	5.91	13.37	31.47	70.54	88.99	72.96	36.05	16.56	7.62	5.39	2.05
-1.00	1.54	4.15	5.57	11.73	25.69	49.27	70.89	50.88	27.99	13.44	6.79	4.97	1.93
-2.00	1.28	3.39	4.18	11.11	15.53	25.72	32.22	27.72	16.80	12.65	4.96	3.93	1.57
-3.00	1.04	1.69	4.26	4.94	11.24	11.86	14.24	12.91	11.67	5.61	5.05	2.16	1.24
-4.00	0.79	1.22	2.88	4.37	4.20	5.76	6.47	5.74	4.90	4.65	3.22	1.53	1.01
-5.00	0.96	0.85	1.24	1.74	3.42	4.25	4.59	4.20	3.81	1.84	1.34	0.95	1.18
-6.00	0.73	0.99	0.79	1.04	1.29	1.55	1.65	1.52	1.46	1.21	0.83	1.09	0.83
-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.): 88.99

All illuminance level values are in lux.

Illum. (Min.): 0.73

Illum. Avg.: 9.66

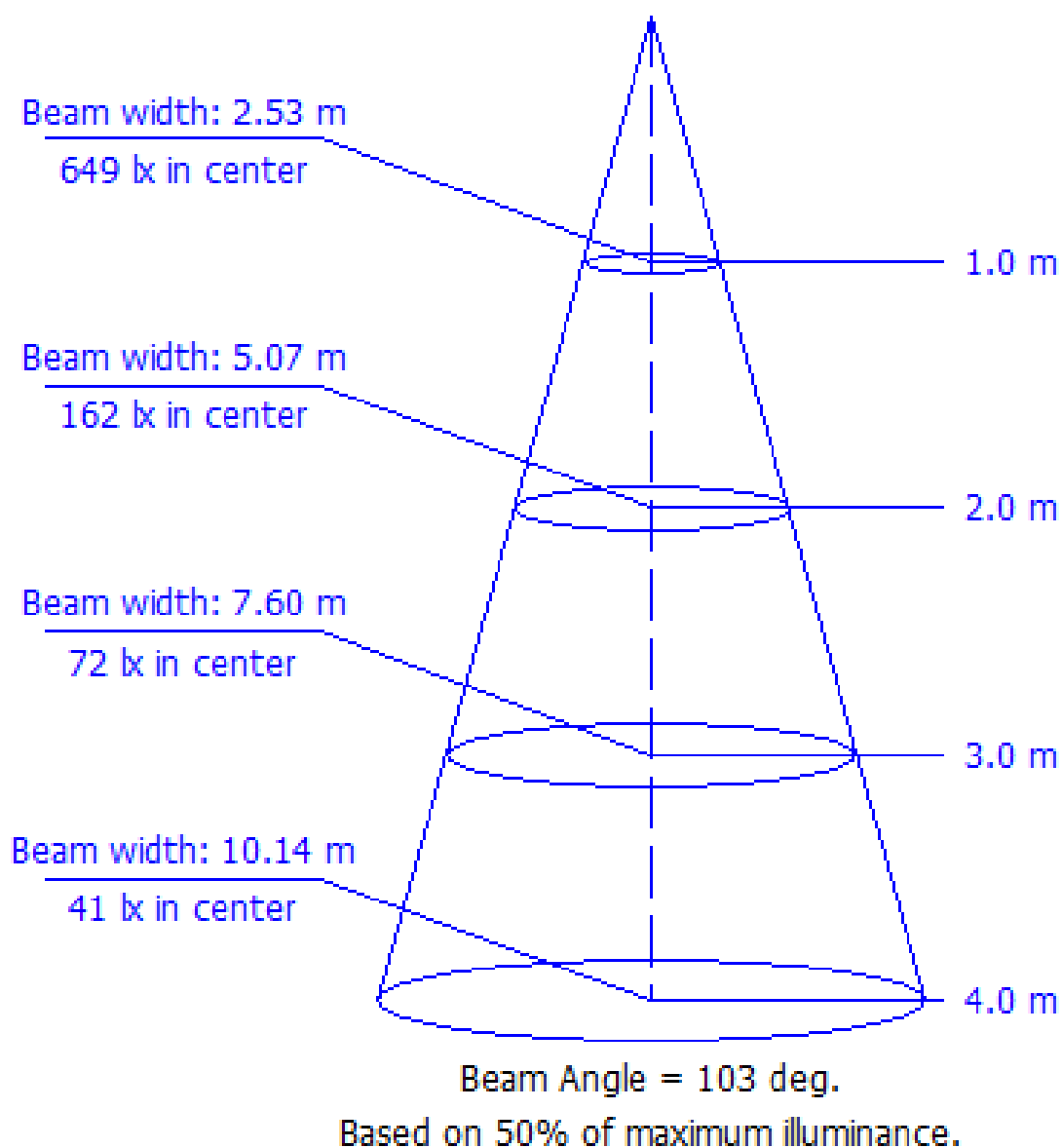
Total Optical Solution Provider


<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 DDV24 24V-C90-WC.jdt				
Lamp flux (lm)	1766 Operator	Current (A)	0.947	CGR	
Total flux (lm)	1766 Date	Power Factor	1	2019-03-15 오후 3:03:20	

Illuminance Cone Diagram



Luminaire

Lamp

Report

190315

No. of lamps	1	Voltage (V)	23.9	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV24 24V-C90-WC.jdt
Lamp flux (lm)	1766	Current (A)	0.947	Operator	CGR
Total flux (lm)	1766	Power Factor	1	Date	2019-03-15 오후 3:03:20

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