

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 DDV18 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
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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		0.4547, 0.4087	
Correlated Color Temperature	K	2775	
Ra	-	92.08	
Power Factor	%	1.000	
Input Voltage	V	23.960	
Input Current	A	0.360	
Input Watt	W	8.62	
Lamp Flux	lm	660.4	
Efficient	lm/W	76.56	
Illuminance	lx	274	1 m
		69	2 m
		30	3 m

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

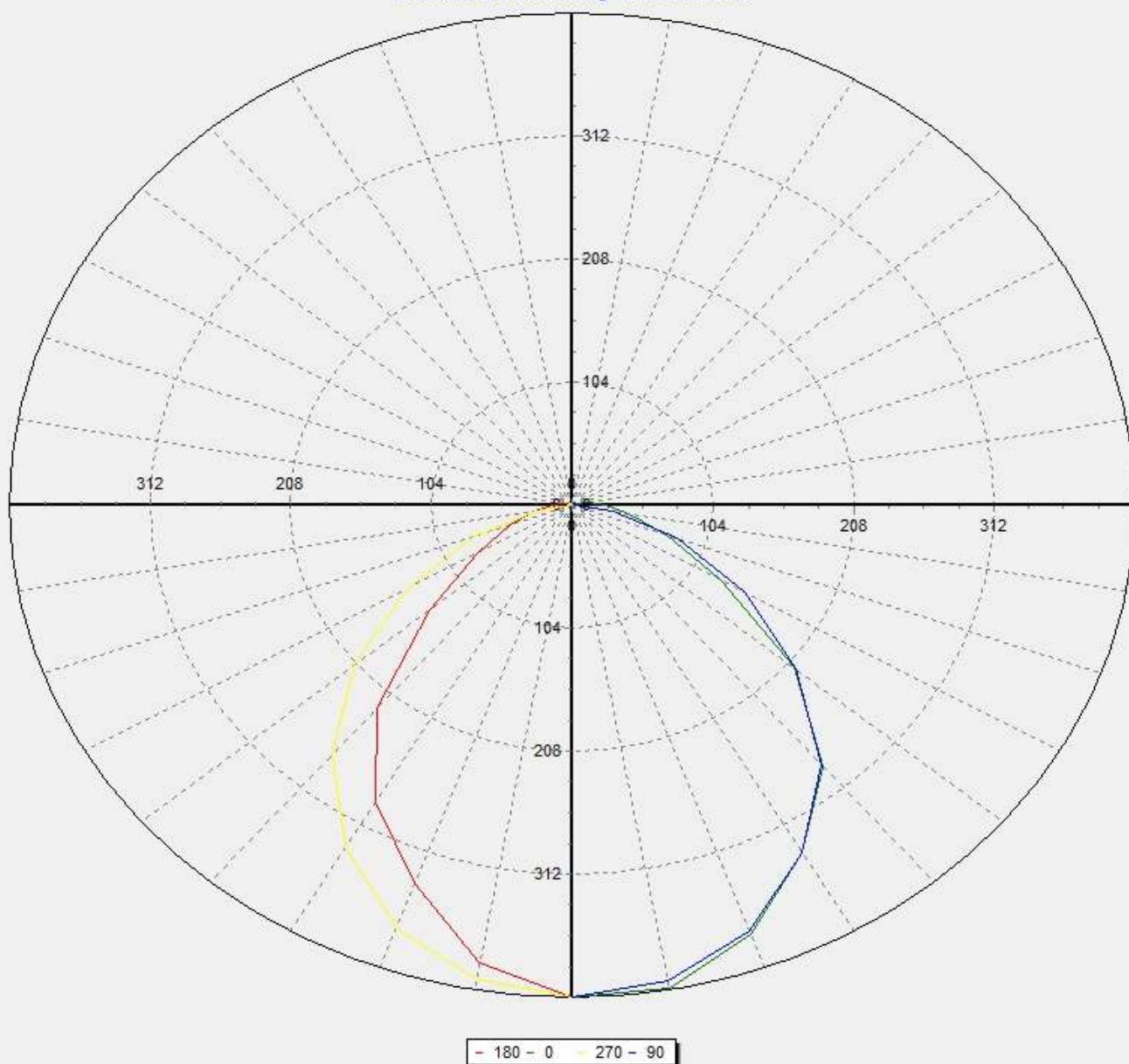
Sample photo

Click to load image

Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV18 24V-C90-Warm.jdt	
Lamp flux (lm)	66(Operator	Current (A) 0.36 CGR
Total flux (lm)	66(Date	Power Factor 1 2019-03-15 오후 1:46:39

Luminous Intensity Distribution

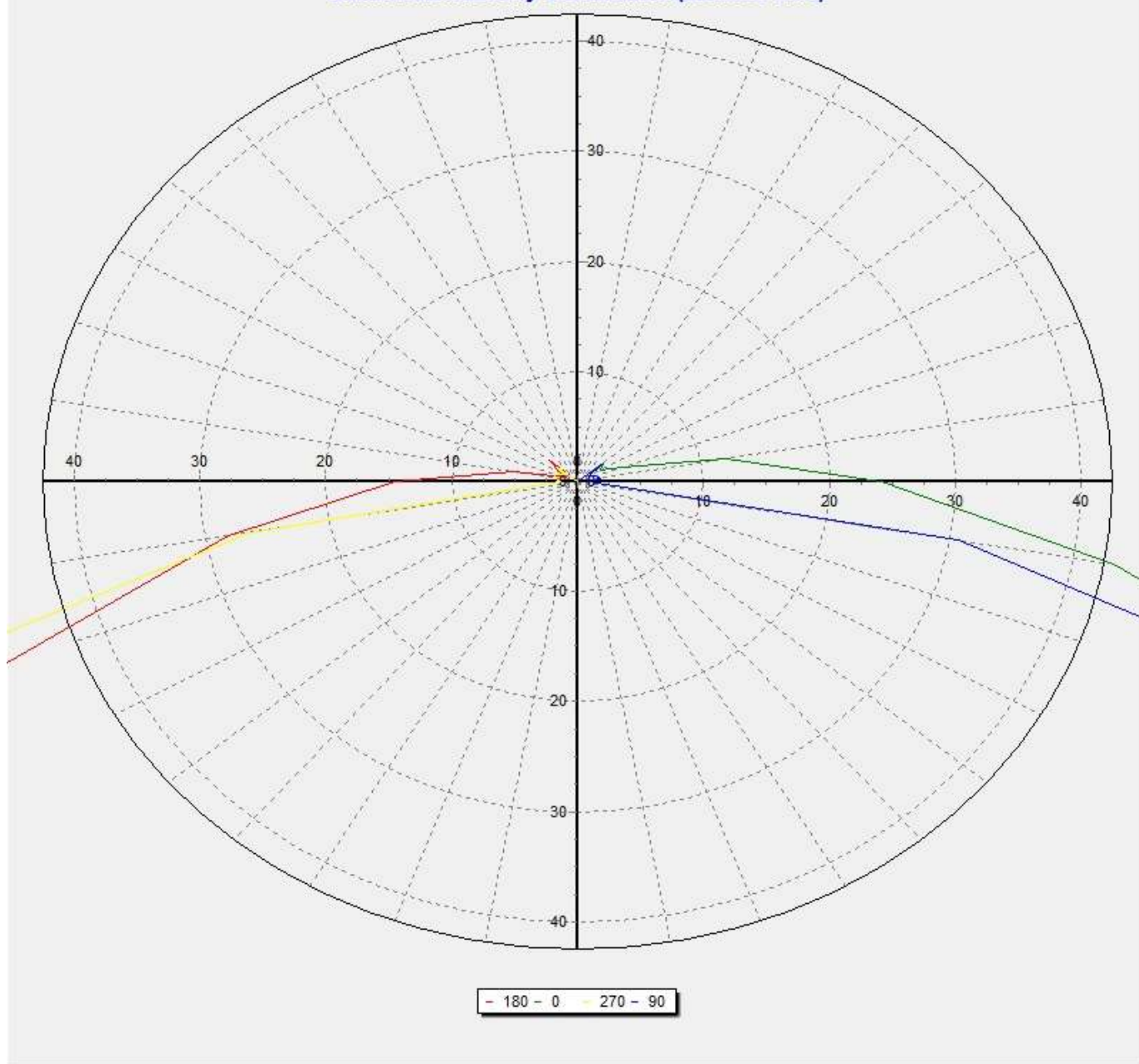


All luminous intensity values are in Cd/Klm unit.

Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV18 24V-C90-Warm.jdt	
Lamp flux (lm)	66(Operator	Current (A) 0.36 CGR
Total flux (lm)	66(Date	Power Factor 1 2019-03-15 오후 1:46:39

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 DDV18 24V-C90-Warm.jdt		
Lamp flux (lm)	66(Operator	Current (A)	0.36
Total flux (lm)	66(Date	Power Factor	1
			2019-03-15 오후 1:46:39

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	274.35	275.68	276.18	274.24	275.81	276.61	274.35	275.68	276.18	274.24	275.81	276.61	274.35
10	273.73	273.19	271.98	269.34	268.09	265.09	259.43	263.90	266.05	268.45	269.72	270.09	273.73
20	254.74	253.99	254.64	252.87	246.66	234.18	224.71	230.73	242.29	250.78	251.98	251.72	254.74
30	224.43	223.45	225.75	224.53	209.19	194.32	191.34	192.16	204.21	220.61	221.88	220.12	224.43
40	189.58	190.22	186.34	188.90	165.33	157.97	147.79	153.69	160.03	182.53	181.52	186.02	189.58
50	140.96	144.78	144.09	142.19	122.76	109.21	90.61	104.02	118.55	138.03	138.32	138.74	140.96
60	83.63	88.66	99.57	97.21	82.69	64.42	53.50	60.40	77.05	93.24	93.04	83.52	83.63
70	48.89	51.14	58.22	54.77	46.23	37.35	31.82	34.57	41.41	51.15	53.40	48.36	48.89
80	28.56	28.40	27.07	20.30	20.02	20.03	18.57	18.45	18.00	17.49	24.71	26.28	28.56
90	15.92	14.36	9.55	0.51	6.50	9.33	9.59	8.61	4.95	0.89	7.47	13.40	15.92
100	7.93	5.52	1.74	1.18	0.49	3.50	3.40	2.31	0.95	1.17	0.42	4.37	7.93
110	2.47	1.18	1.21	0.99	1.68	0.93	0.67	0.72	0.52	1.29	0.89	2.16	2.47
120	1.38	1.58	1.30	0.66	1.61	1.39	1.06	1.93	1.48	0.88	1.40	1.36	1.38
130	1.77	1.67	1.76	1.64	1.22	2.02	1.94	1.62	1.46	1.38	1.39	1.88	1.77

Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV18 24V-C90-Warm.jdt	
Lamp flux (lm)	66(Operator	Current (A) 0.36 CGR
Total flux (lm)	66(Date	Power Factor 1 2019-03-15 오후 1:46:39

Luminous Flux Table

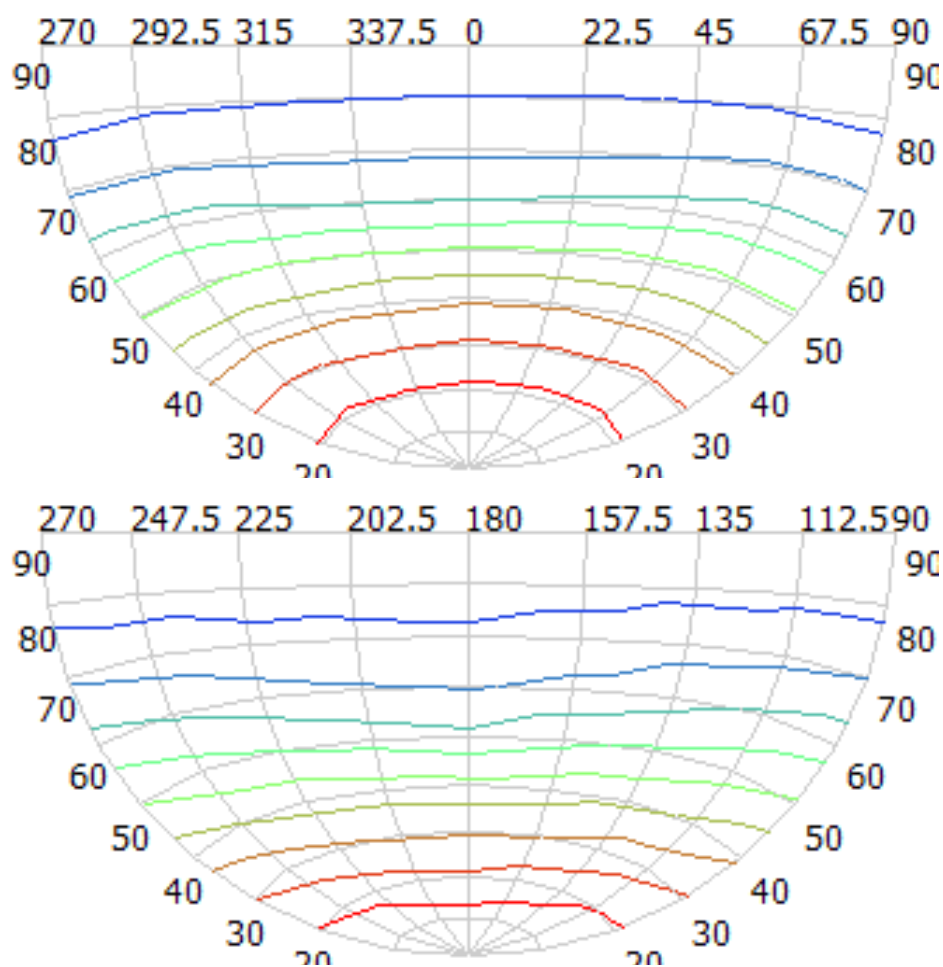
Total Lamp Lumens: 660
 Luminaire Efficiency (lm/W):660.40
 CIE Classification: Direct











Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	6.59	6.59	1.00	1.00
10	51.02	57.60	8.72	8.72
20	92.07	149.67	22.66	22.66
30	116.46	266.13	40.30	40.30
40	122.61	388.74	58.86	58.86
50	107.13	495.87	75.09	75.09
60	77.22	573.08	86.78	86.78
70	47.80	620.88	94.02	94.02
80	24.08	644.96	97.66	97.66
90	9.23	654.19	99.06	99.06
100	2.97	657.15	99.51	99.51
110	1.26	658.41	99.70	99.70
120	1.27	659.68	99.89	99.89
130	0.72	660.40	100.00	100.00

Luminaire

Lamp	Report			190315
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Lamp flux (lm)	66	Operator	Current (A)	0.36
Total flux (lm)	66	Date	Power Factor	1
				2019-03-15 오후 1:46:39

IsoCandela (Type C)

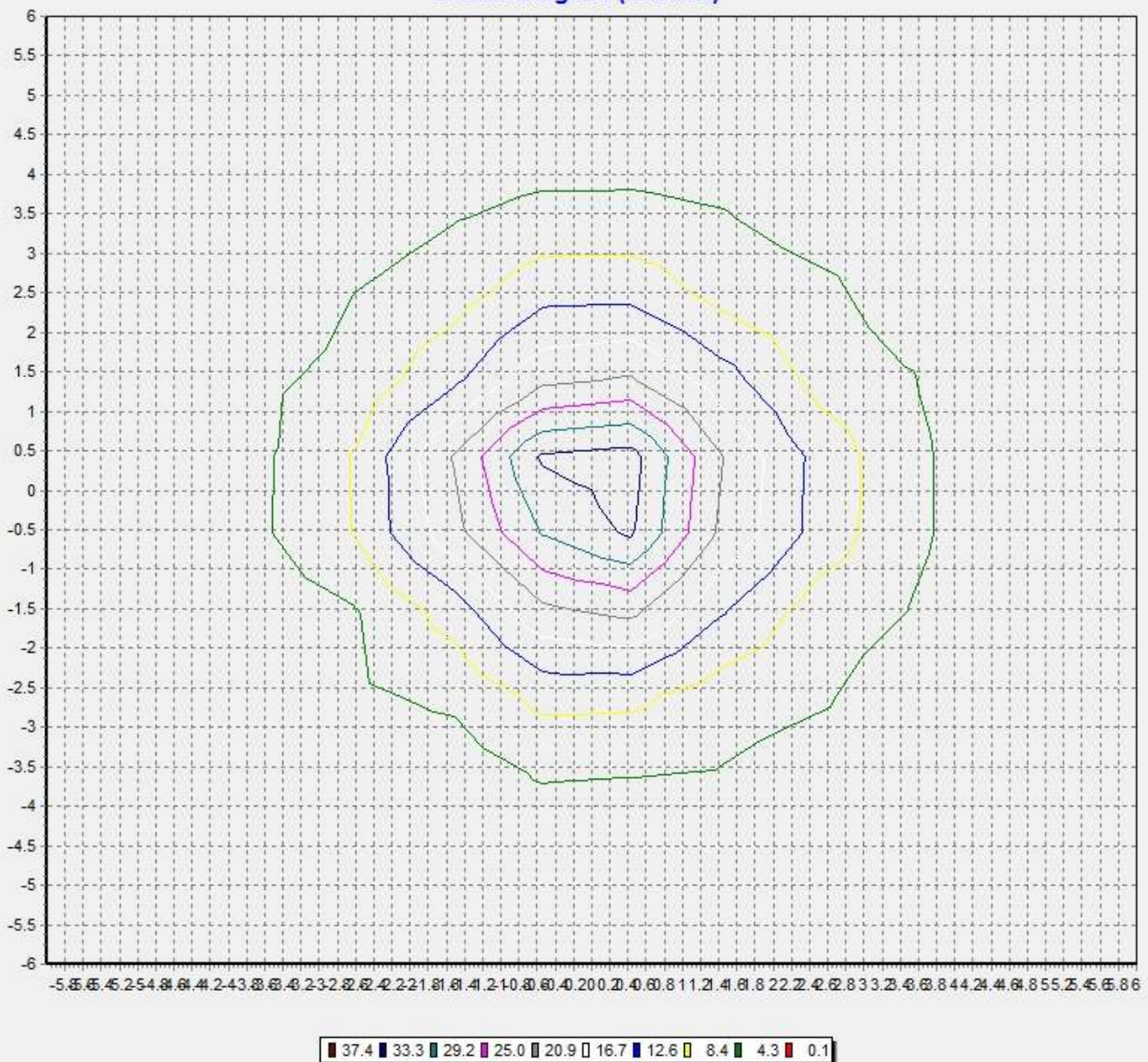


	0 ~ 28		139 ~ 166
	28 ~ 56		166 ~ 194
	56 ~ 83		194 ~ 221
	83 ~ 111		221 ~ 249
	111 ~ 139		249 ~ 277

Luminaire

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Lamp flux (lm)	66(Operator	Current (A) 0.36 CGR
Total flux (lm)	66(Date	Power Factor 1 2019-03-15 오후 1:46:39

IsoLux Diagram (Ground)



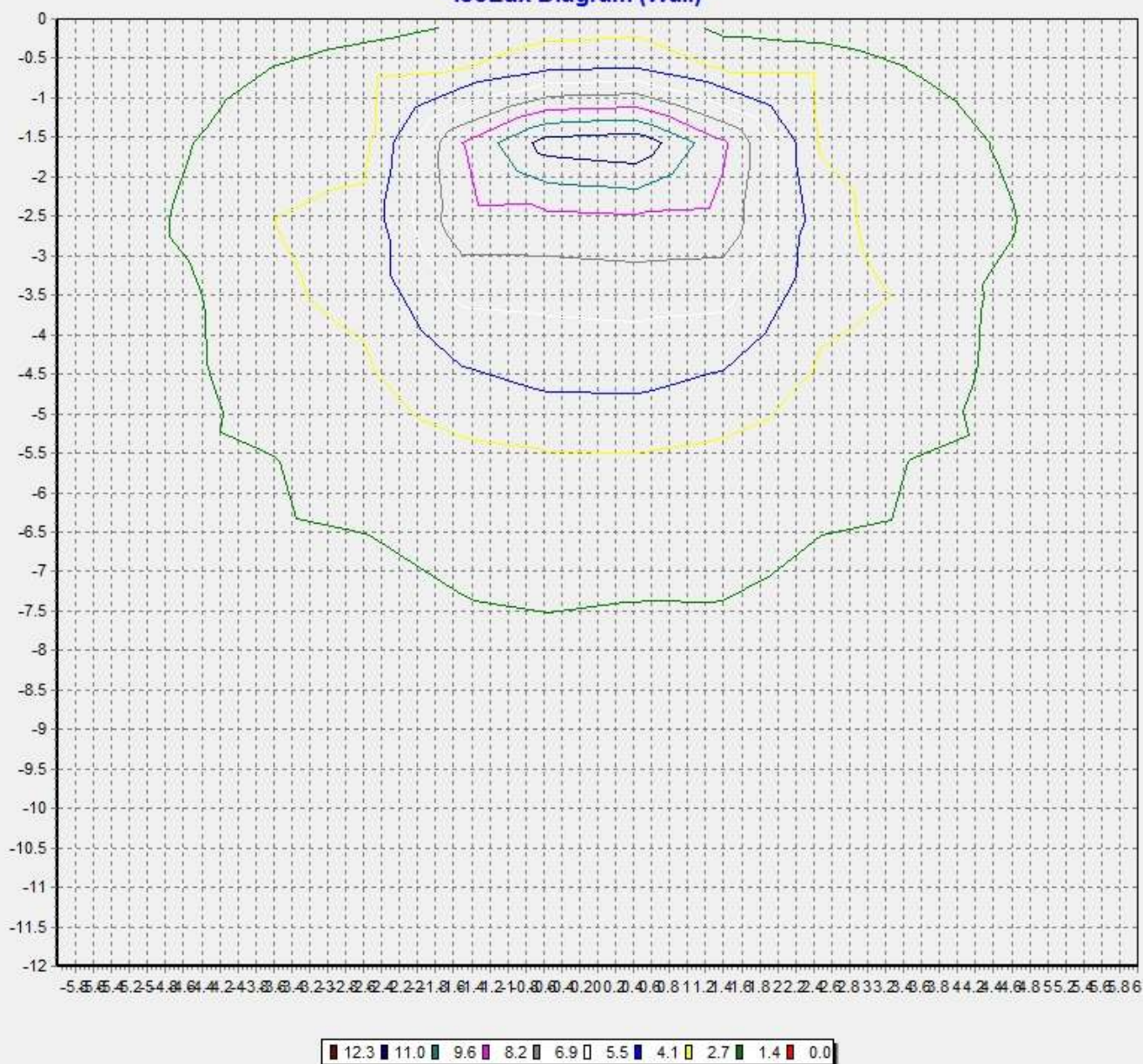
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp	Report	190315
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV18 24V-C90-Warm.jdt	
Lamp flux (lm)	66(Operator	Current (A) 0.36 CGR
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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)	23.96	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV18 24V-C90-Warm.jdt
Lamp flux (lm)	660	Current (A)	0.36	Operator	CGR
Total flux (lm)	660	Power Factor	1	Date	2019-03-15 오후 1:46:39

Illuminance Levels (Ground)

6.00	0.31	0.42	0.33	0.39	0.51	0.67	0.69	0.66	0.55	0.42	0.35	0.44	0.30
5.00	0.32	0.34	0.51	0.76	1.41	1.88	1.98	1.88	1.57	0.79	0.54	0.33	0.39
4.00	0.24	0.39	1.24	1.92	1.68	2.55	2.77	2.54	1.82	2.01	1.29	0.48	0.30
3.00	0.37	0.52	1.55	2.13	5.06	4.97	6.22	5.51	5.12	2.13	1.95	0.67	0.41
2.00	0.44	1.30	1.61	4.24	6.72	10.63	14.33	11.97	7.23	5.15	1.79	1.54	0.51
1.00	0.39	1.25	1.62	4.50	10.41	21.42	30.41	22.04	11.99	5.47	2.29	1.80	0.57
0.00	0.39	1.24	1.64	4.19	11.59	29.22	37.63	30.89	14.35	6.19	2.56	1.94	0.60
-1.00	0.42	1.31	1.64	3.81	9.68	19.09	30.30	21.77	11.50	5.28	2.29	1.80	0.57
-2.00	0.34	1.07	1.22	3.86	5.28	9.77	13.93	11.48	6.97	5.04	1.84	1.51	0.53
-3.00	0.28	0.43	1.29	1.42	4.31	4.20	6.03	5.27	4.97	2.21	1.91	0.67	0.43
-4.00	0.20	0.32	0.87	1.59	1.27	2.25	2.67	2.22	1.86	1.92	1.29	0.48	0.30
-5.00	0.26	0.22	0.39	0.59	1.15	1.71	1.92	1.64	1.52	0.73	0.51	0.35	0.40
-6.00	0.20	0.33	0.25	0.29	0.39	0.58	0.65	0.54	0.54	0.43	0.32	0.43	0.32
-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.): 37.6

All illuminance level values are in lux.

Illum. (Min.): 0.20

Illum. Avg.: 3.78

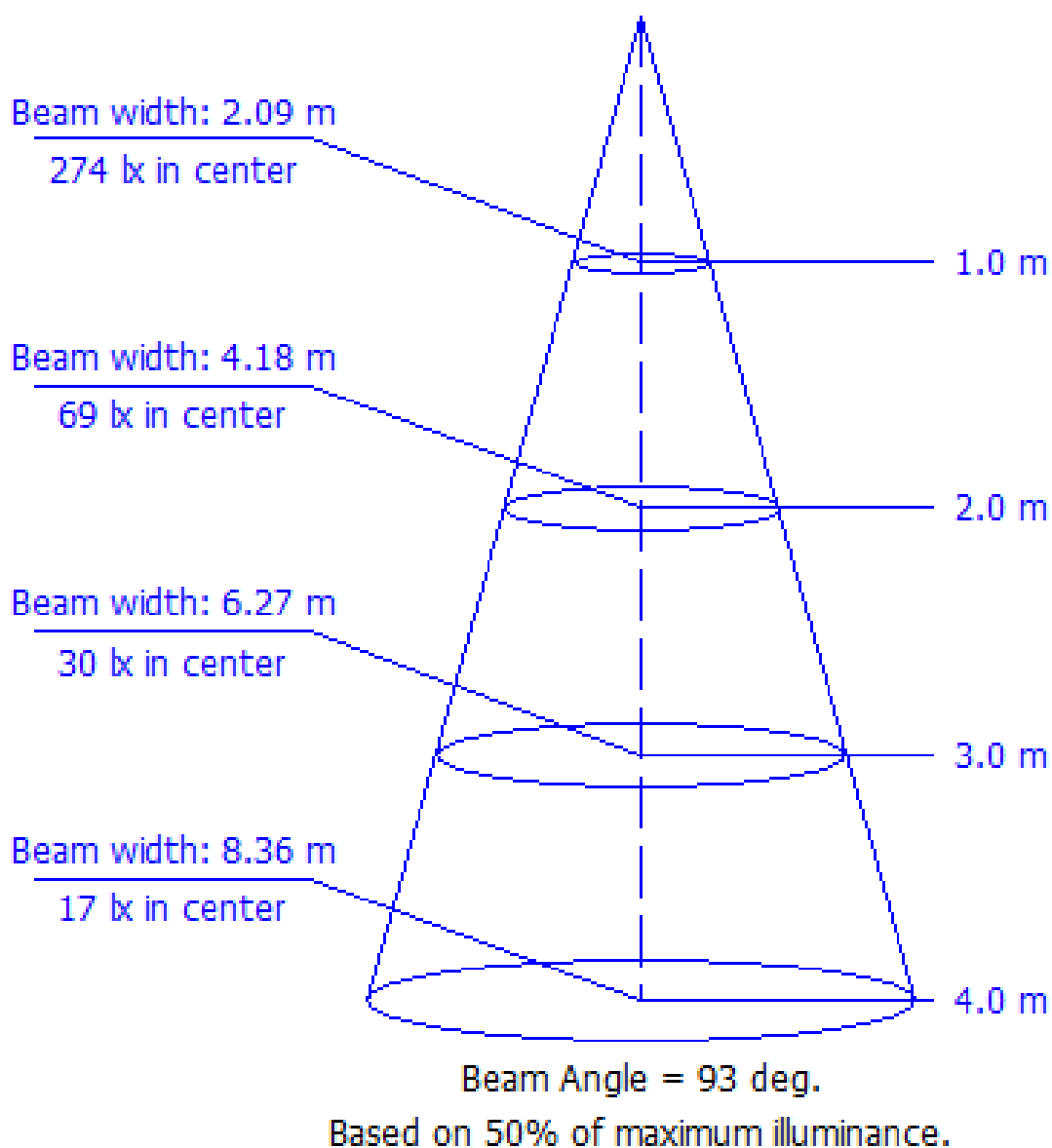
Total Optical Solution Provider


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

Luminaire

Lamp	Report	190315
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Illuminance Cone Diagram



Luminaire

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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