

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 DDV6 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		0.3880, 0.3716	
Correlated Color Temperature	K	3773	
Ra	-	95.43	
Power Factor	%	1.000	
Input Voltage	V	23.970	
Input Current	A	0.237	
Input Watt	W	5.67	
Lamp Flux	lm	423.1	
Efficient	lm/W	74.48	
Illuminance	lx	159	1 m
		40	2 m
		18	3 m

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

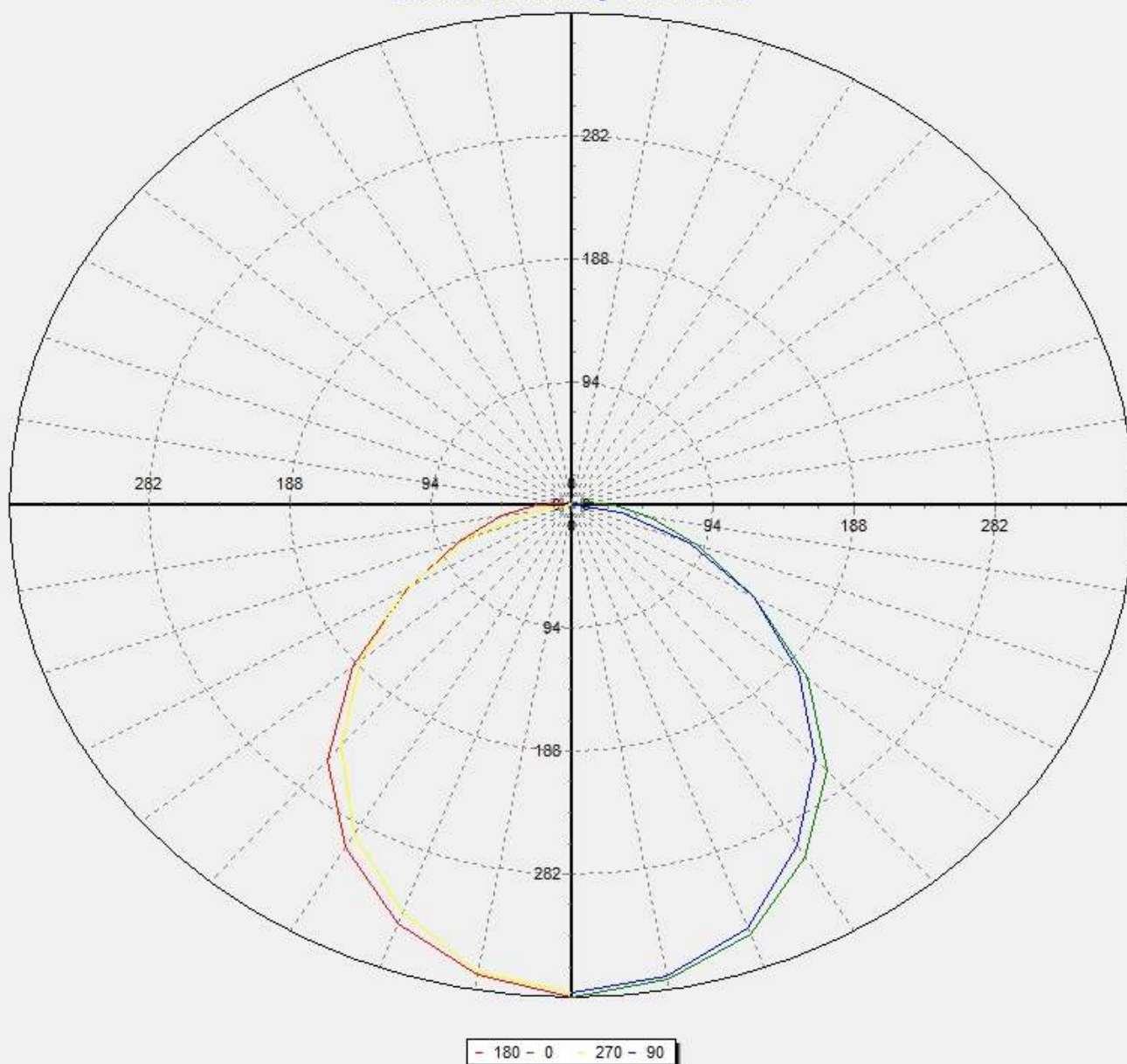
Sample photo

Click to load image

Luminaire

Lamp		Report		190315
No. of lamps	1	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV6 24V-C90-WC.jdt	
Lamp flux (lm)	423	Operator	Current (A)	0.237
				CGR
Total flux (lm)	423	Date	Power Factor	1
				2019-03-15 오전 10:01:09

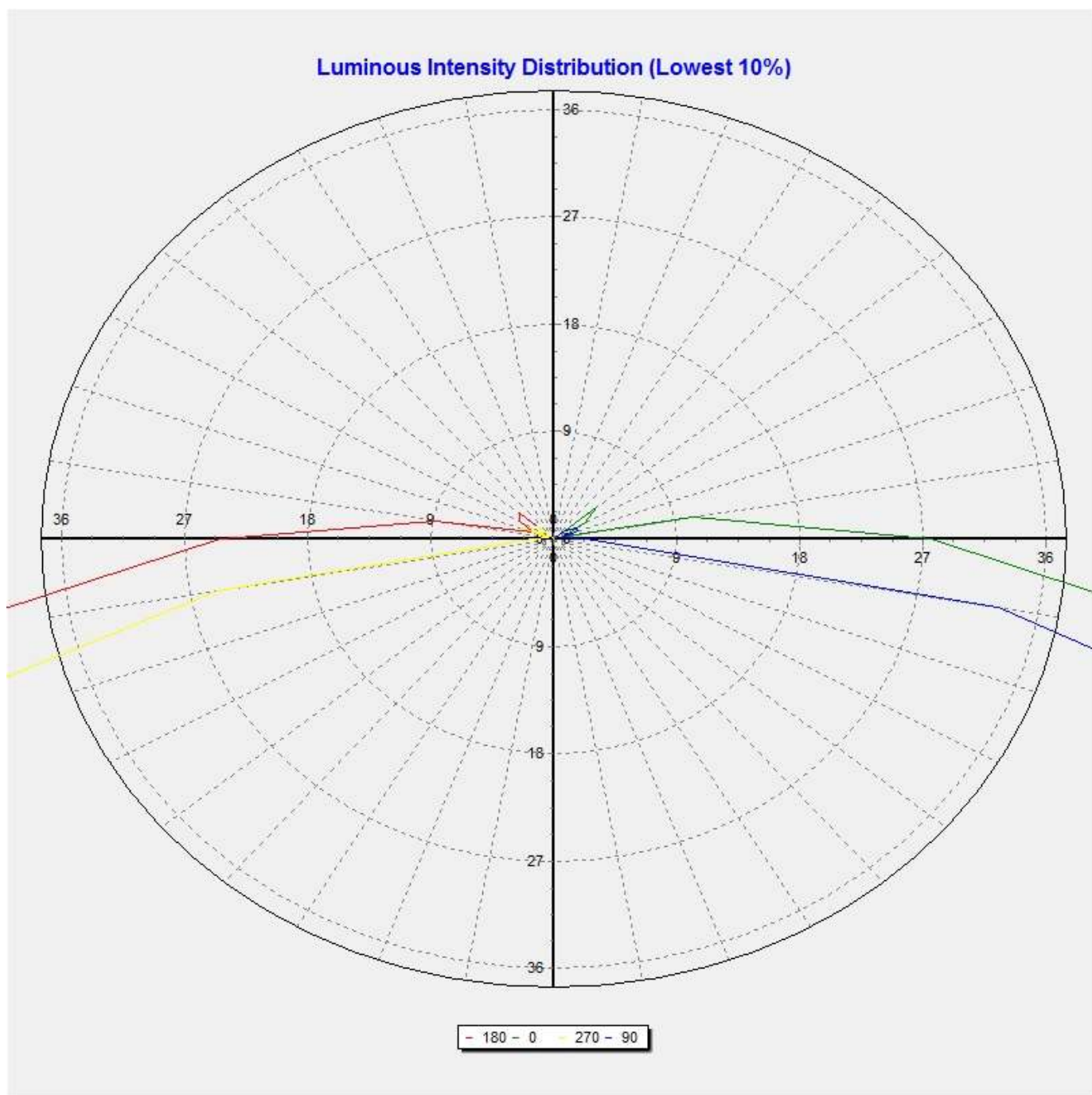
Luminous Intensity Distribution



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 DDV6 24V-C90-WC.jdt	
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Luminaire

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Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	158.90	158.65	157.49	157.44	157.46	157.51	158.90	158.65	157.49	157.44	157.46	157.51	158.90
10	155.55	155.80	156.64	154.63	154.88	153.43	153.78	154.55	152.92	153.23	154.08	153.20	155.55
20	147.26	145.56	145.11	145.43	144.68	143.69	143.94	142.71	140.60	139.79	141.30	145.22	147.26
30	131.54	132.21	130.56	127.02	128.79	127.24	127.74	125.80	123.04	122.86	124.98	128.71	131.54
40	111.94	110.41	110.26	106.61	106.62	106.95	107.66	106.21	101.66	101.53	102.87	107.53	111.94
50	86.82	87.57	86.18	83.72	83.47	83.69	80.64	81.19	77.30	78.25	79.41	83.63	86.82
60	59.39	60.51	61.05	59.06	59.80	58.61	54.00	55.78	55.01	54.28	55.91	56.41	59.39
70	38.02	37.85	38.13	34.98	37.03	36.31	34.04	33.75	32.63	31.43	33.55	34.53	38.02
80	22.37	21.39	17.73	13.99	17.47	21.05	20.24	19.26	15.08	10.57	15.71	19.15	22.37
90	11.71	10.63	5.66	0.96	5.73	10.28	10.35	8.97	4.51	0.62	4.37	9.72	11.71
100	4.39	3.54	1.81	0.21	0.99	2.82	3.74	2.49	0.47	0.16	0.32	3.09	4.39
110	0.35	1.13	1.19	0.82	0.30	1.16	0.70	0.50	0.39	1.07	0.97	0.55	0.35
120	1.12	0.89	0.61	0.81	0.82	-0.01	1.21	1.16	0.87	0.32	0.94	0.66	1.12
130	1.71	1.81	0.93	0.42	1.08	1.60	1.41	0.81	0.81	0.65	1.25	0.95	1.71

Luminaire

Lamp	Report	190315
No. of lamps	1	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV6 24V-C90-WC.jdt
Lamp flux (lm)	423	Operator Current (A) 0.237 CGR
Total flux (lm)	423	Date Power Factor 1 2019-03-15 오전 10:01:09

Luminous Flux Table

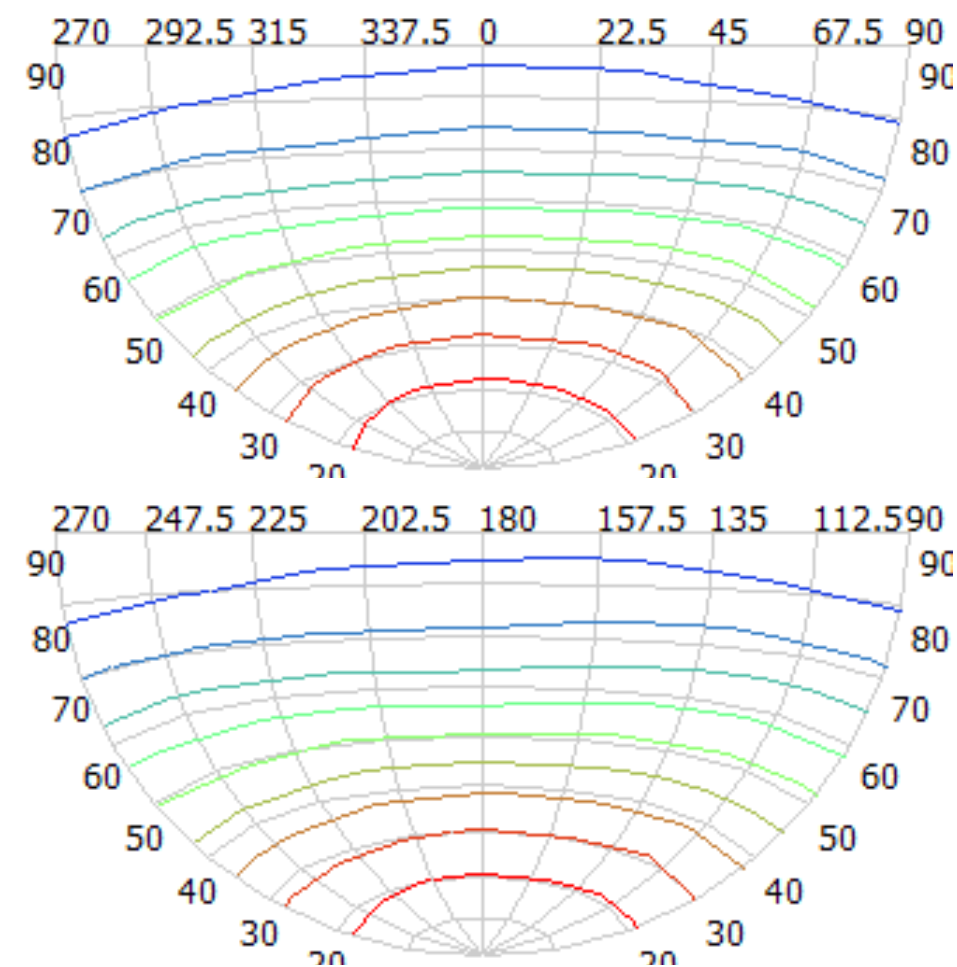
Total Lamp Lumens: 423
 Luminaire Efficiency (lm/W):423.06
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	3.78	3.78	0.89	0.89
10	29.36	33.14	7.83	7.83
20	53.86	87.00	20.56	20.56
30	69.84	156.84	37.07	37.07
40	75.11	231.95	54.82	54.83
50	69.35	301.29	71.21	71.22
60	54.52	355.82	84.10	84.10
70	36.21	392.03	92.66	92.67
80	19.24	411.27	97.20	97.21
90	7.62	418.89	99.01	99.01
100	2.16	421.05	99.52	99.52
110	0.78	421.83	99.70	99.71
120	0.74	422.58	99.88	99.88
130	0.49	423.06	99.99	100.00

Luminaire

Lamp	Report			190315
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Lamp flux (lm)	423	Operator	Current (A)	0.237
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				2019-03-15 오전 10:01:09

IsoCandela (Type C)

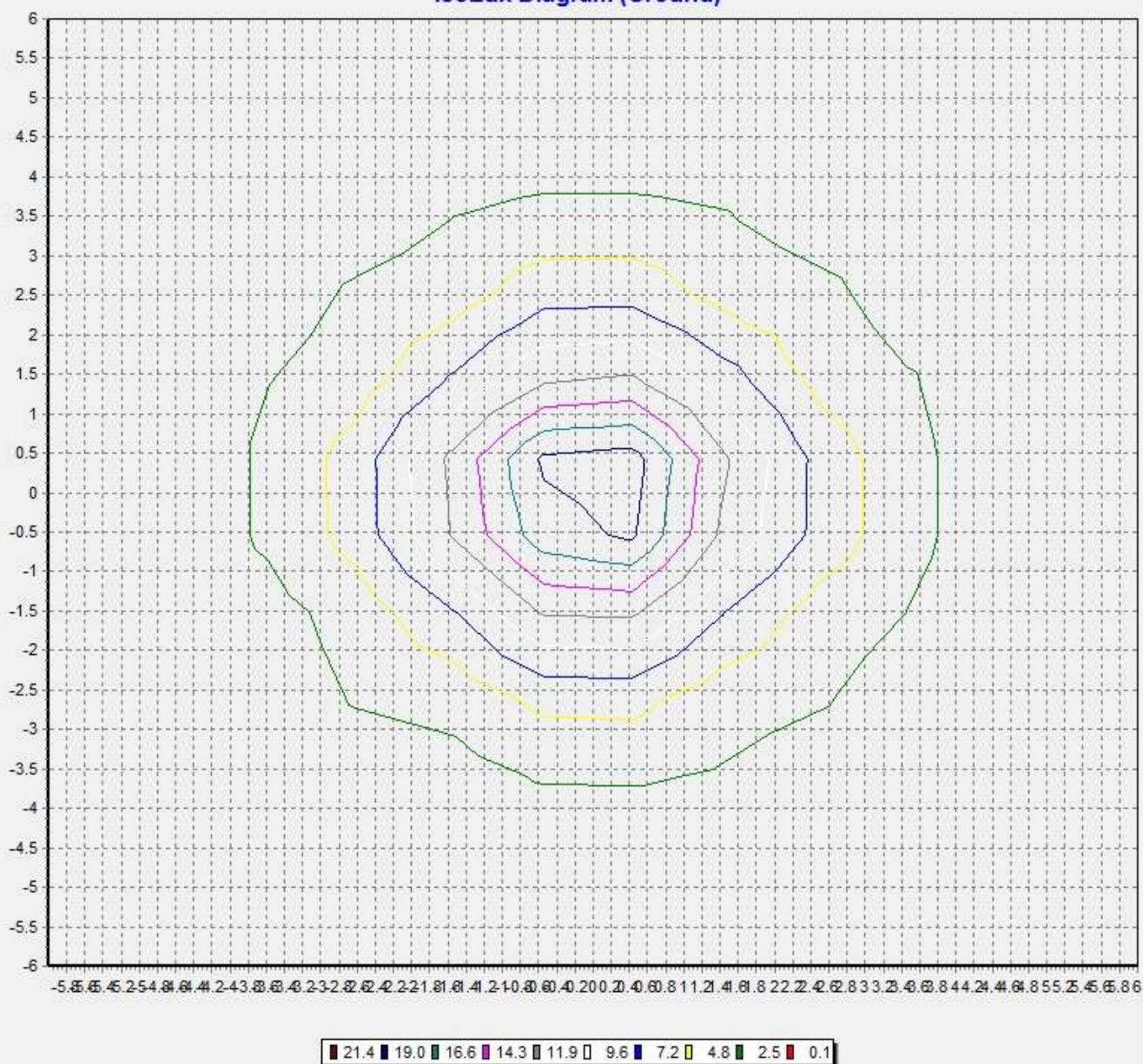


0 ~ 16	79 ~ 95
16 ~ 32	95 ~ 111
32 ~ 48	111 ~ 127
48 ~ 64	127 ~ 143
64 ~ 79	143 ~ 159

Luminaire

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Lamp flux (lm)	423	Operator Current (A) 0.237 CGR
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IsoLux Diagram (Ground)



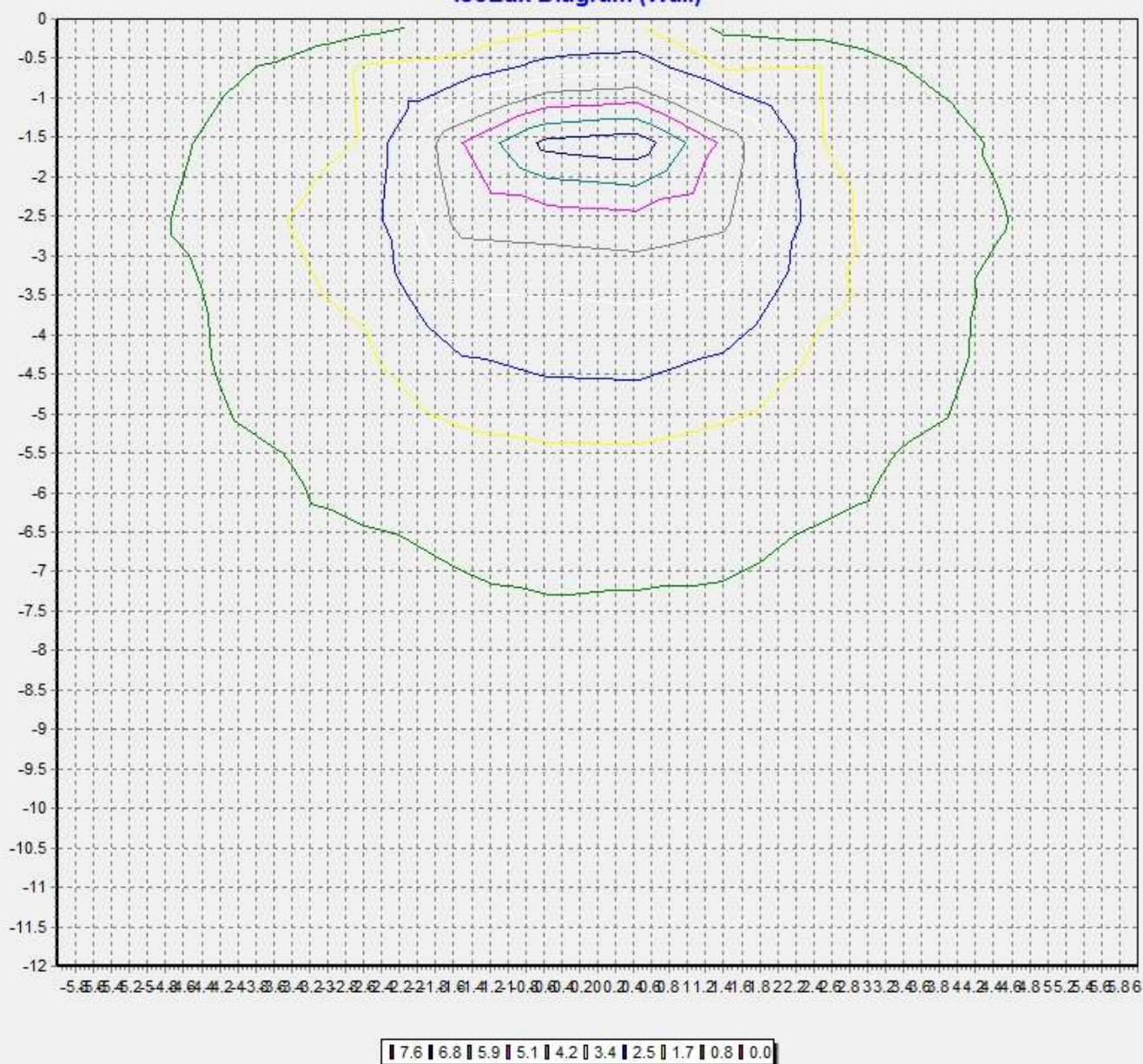
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp	Report	190315
No. of lamps	1	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190315 DDV6 24V-C90-WC.jdt
Lamp flux (lm)	423	Operator Current (A) 0.237 CGR
Total flux (lm)	423	Date Power Factor 1 2019-03-15 오전 10:01:09

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 DDV6 24V-C90-WC.jdt	
Lamp flux (lm)	423	Current (A)	0.237	Operator	CGR
Total flux (lm)	423	Power Factor	1	Date	2019-03-15 오전 10:01:09

Illuminance Levels (Ground)

6.00	0.21	0.27	0.22	0.29	0.36	0.42	0.43	0.42	0.37	0.30	0.23	0.28	0.21
5.00	0.27	0.24	0.34	0.48	0.93	1.12	1.17	1.12	0.97	0.50	0.36	0.25	0.28
4.00	0.22	0.35	0.80	1.17	1.18	1.54	1.66	1.53	1.20	1.21	0.82	0.36	0.23
3.00	0.30	0.48	1.17	1.39	2.93	3.18	3.62	3.31	3.03	1.42	1.21	0.49	0.30
2.00	0.36	0.93	1.18	2.94	4.16	6.73	8.09	6.97	4.34	3.07	1.20	0.97	0.37
1.00	0.39	1.07	1.45	3.18	6.73	12.58	17.46	12.90	6.98	3.32	1.50	1.11	0.40
0.00	0.40	1.12	1.55	3.53	8.16	17.36	21.80	17.56	8.45	3.77	1.69	1.21	0.45
-1.00	0.40	1.08	1.46	3.09	6.71	12.46	17.28	12.19	6.53	3.09	1.51	1.12	0.42
-2.00	0.34	0.89	1.11	2.92	4.09	6.67	7.75	6.49	3.95	2.94	1.11	0.89	0.34
-3.00	0.27	0.45	1.13	1.30	2.79	3.04	3.40	3.01	2.79	1.29	1.15	0.46	0.27
-4.00	0.21	0.32	0.76	1.10	1.11	1.40	1.54	1.40	1.11	1.10	0.75	0.33	0.21
-5.00	0.25	0.22	0.32	0.44	0.89	1.03	1.09	1.02	0.88	0.43	0.31	0.21	0.26
-6.00	0.19	0.25	0.20	0.27	0.33	0.37	0.39	0.38	0.33	0.27	0.19	0.25	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.): 21.8

All illuminance level values are in lux.

Illum. (Min.): 0.19

Illum. Avg.: 2.34

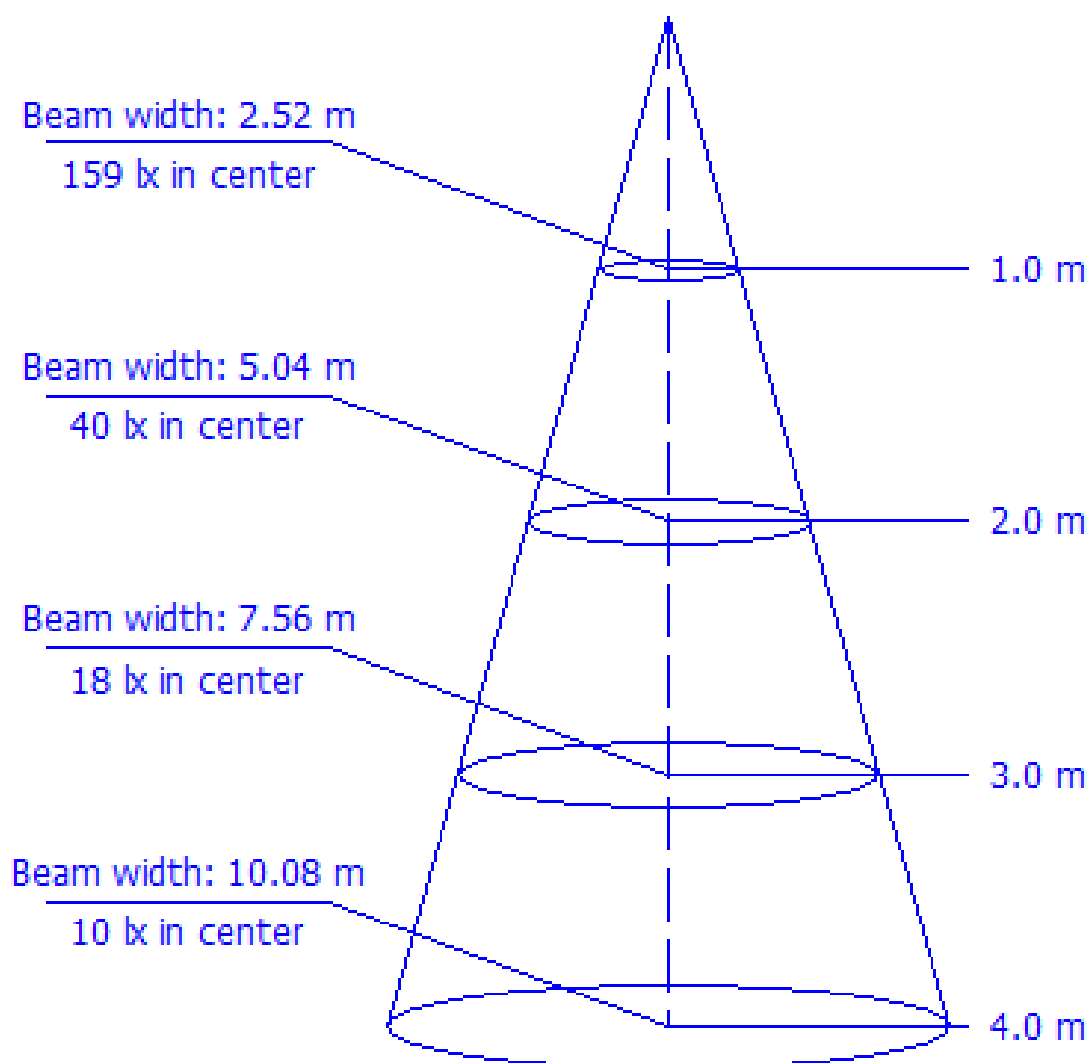
Total Optical Solution Provider


<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 DDV6 24V-C90-WC.jdt		
Lamp flux (lm)	423	Operator	Current (A)	0.237	CGR
Total flux (lm)	423	Date	Power Factor	1	2019-03-15 오전 10:01:09

Illuminance Cone Diagram



Beam Angle = 103 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 DDV6 24V-C90-WC.jdt

Lamp flux (lm) 423 Current (A) 0.237

Operator CGR

Total flux (lm) 423 Power Factor 1

Date 2019-03-15 오전 10:01:09

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