

# 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 : 190328

## 2. Purpose of Report :

3. Test Standard / Item : LED / 190328 DVS4A 40K-24V-SW-WT-60

4. Test Period : 190328 ~ 190328

## 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
190328	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3871, 0.3875	
Correlated Color Temperature	K	3910	
Ra	-	81.62	
Power Factor	%	1.000	
Input Voltage	V	23.980	
Input Current	A	0.192	
Input Watt	W	4.61	
Lamp Flux	lm	484.8	
Efficient	lm/W	105.30	
Illuminance	lx	420	1 m
		105	2 m
		47	3 m

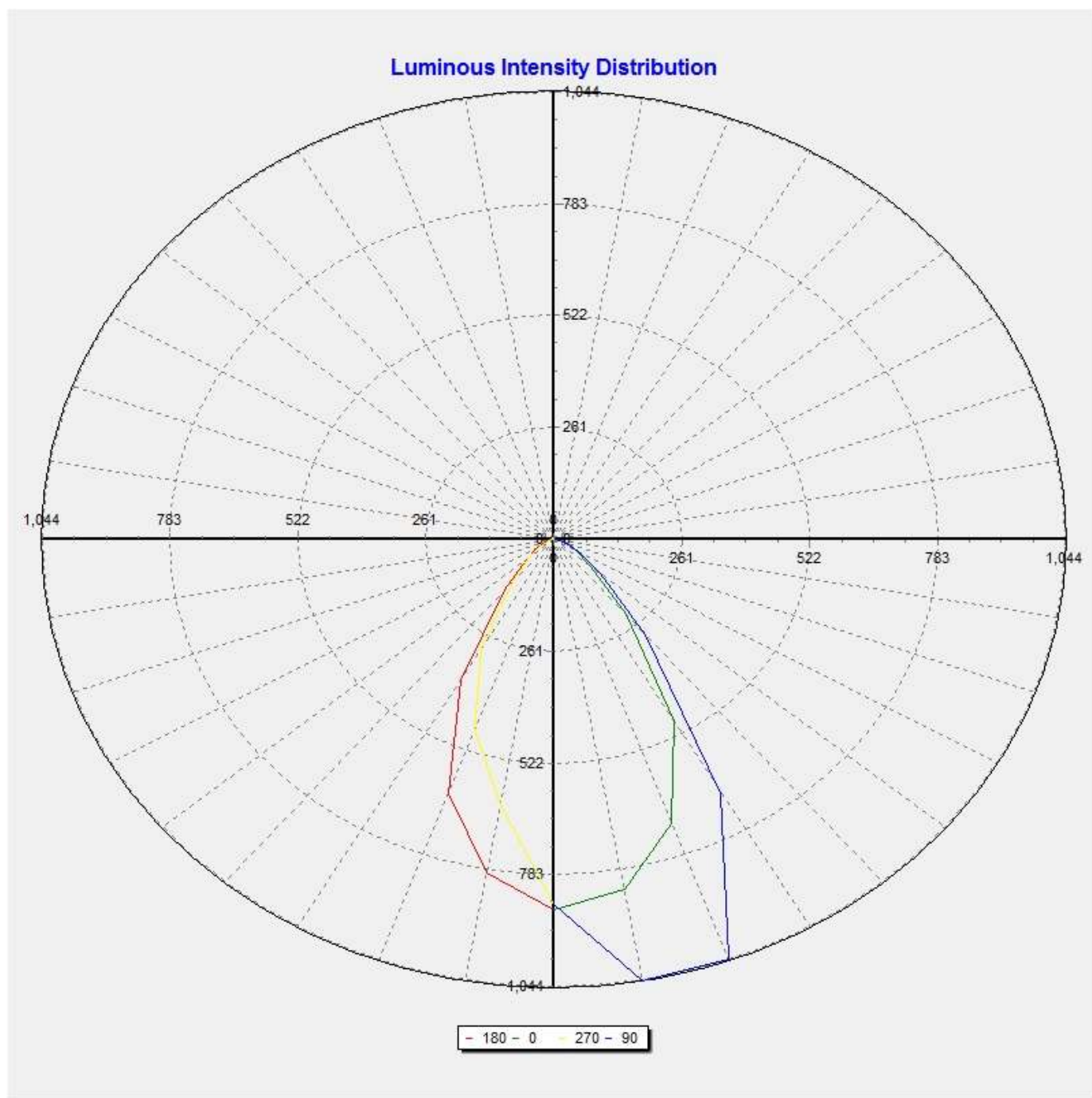
\* This test result is for the sample provided by the client.

Sample photo

Click to load image

## Luminaire

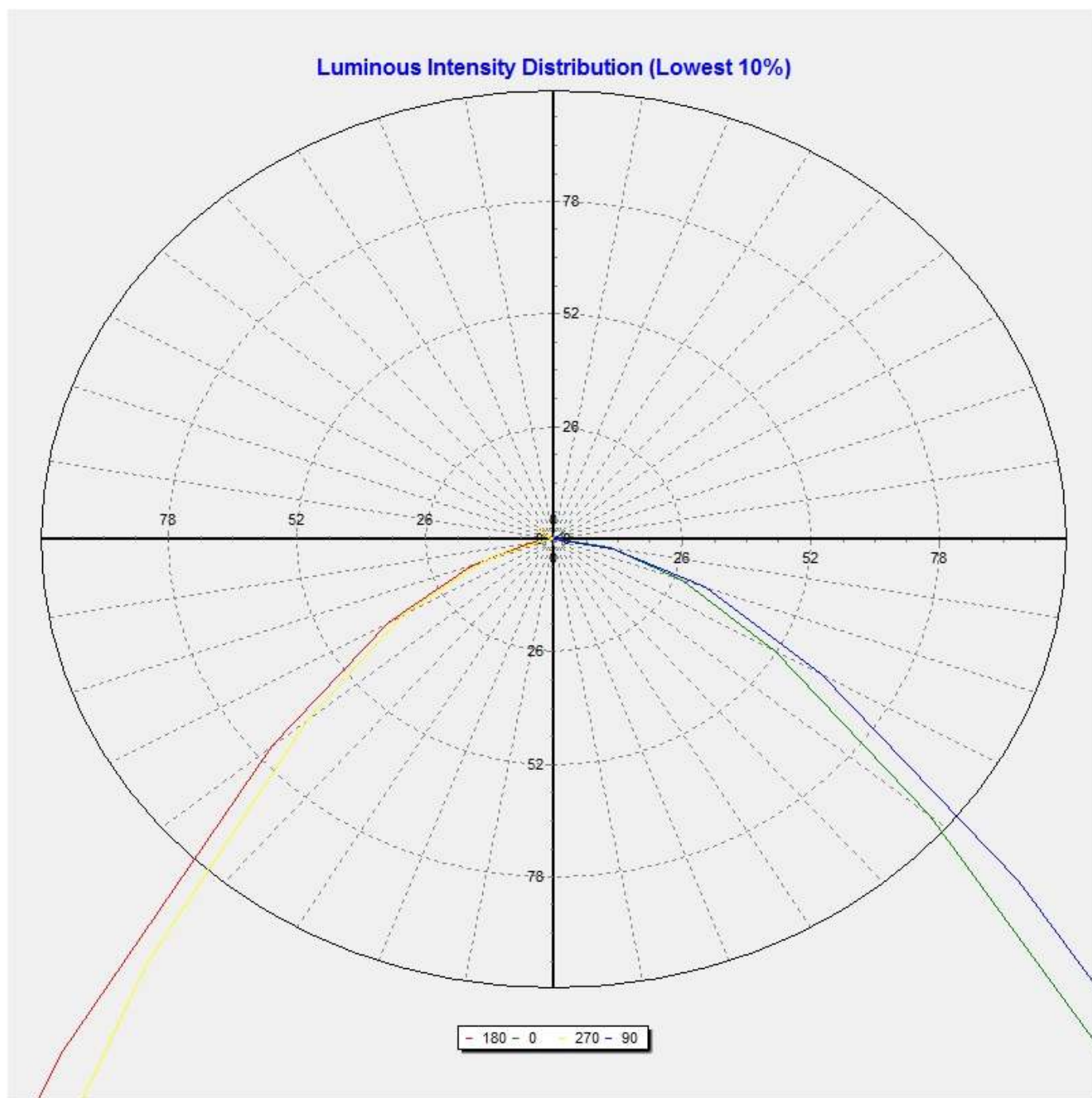
Lamp	Report	190328
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190328 DVS4A 40K-24V-SW-WT-60.jdt	
Lamp flux (lm)	Operator	Current (A) 0.192
Total flux (lm)	Date	Power Factor 1
		2019-03-28 오후 2:38:29



All luminous intensity values are in Cd/Klm unit.

Luminaire

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## Luminaire

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Lamp flux (lm)	Operator	Current (A)	0.192	CGR	
Total flux (lm)	Date:	Power Factor	1	2019-03-28 오후 2:38:29	

## Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	419.64	415.22	411.09	414.00	412.03	416.65	419.64	415.22	411.09	414.00	412.03	416.65	419.64
10	402.02	457.09	497.41	507.66	478.42	428.63	383.72	334.32	309.51	305.03	317.35	351.41	402.02
20	341.86	421.30	499.48	506.30	463.80	380.52	306.54	265.33	236.99	229.55	245.44	281.46	341.86
30	238.14	289.53	332.75	331.66	301.45	240.67	183.20	153.26	139.38	143.19	154.77	181.76	238.14
40	110.85	129.88	144.61	140.67	129.59	101.58	75.36	66.60	61.27	62.16	68.33	81.55	110.85
50	48.19	55.83	60.42	59.58	56.00	45.50	36.08	32.32	30.66	31.52	33.64	38.61	48.19
60	25.04	28.06	31.29	30.38	28.71	23.58	18.71	17.36	16.78	17.17	18.73	20.29	25.04
70	13.38	14.80	16.36	15.90	14.51	12.00	8.76	7.87	6.90	7.34	8.10	10.52	13.38
80	5.54	6.53	6.89	5.91	6.21	3.31	2.50	1.82	0.35	1.55	2.50	3.71	5.54
90	0.34	1.24	0.33	-0.25	0.07	0.00	0.18	0.14	0.24	-0.56	0.49	0.29	0.34
100	0.18	0.26	0.70	0.55	0.10	0.25	-0.05	0.31	0.64	0.37	0.14	0.40	0.18
110	0.37	0.77	0.91	0.14	0.34	0.70	0.55	0.47	0.47	0.55	1.15	0.17	0.37
120	0.11	1.19	0.74	0.53	0.43	0.82	0.85	1.23	0.37	1.62	0.83	1.58	0.11
130	1.49	1.07	1.48	0.66	1.02	1.31	1.77	1.62	1.39	1.53	1.76	1.98	1.49

# Luminaire

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Lamp flux (lm)	Operator	Current (A) 0.192 CGR
Total flux (lm)	Date:	Power Factor 1 2019-03-28 오후 2:38:29

## Luminous Flux Table

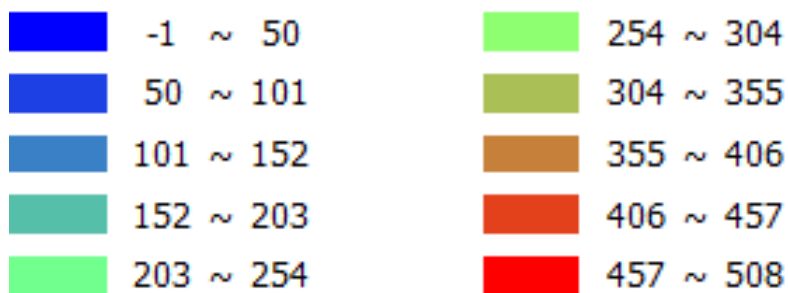
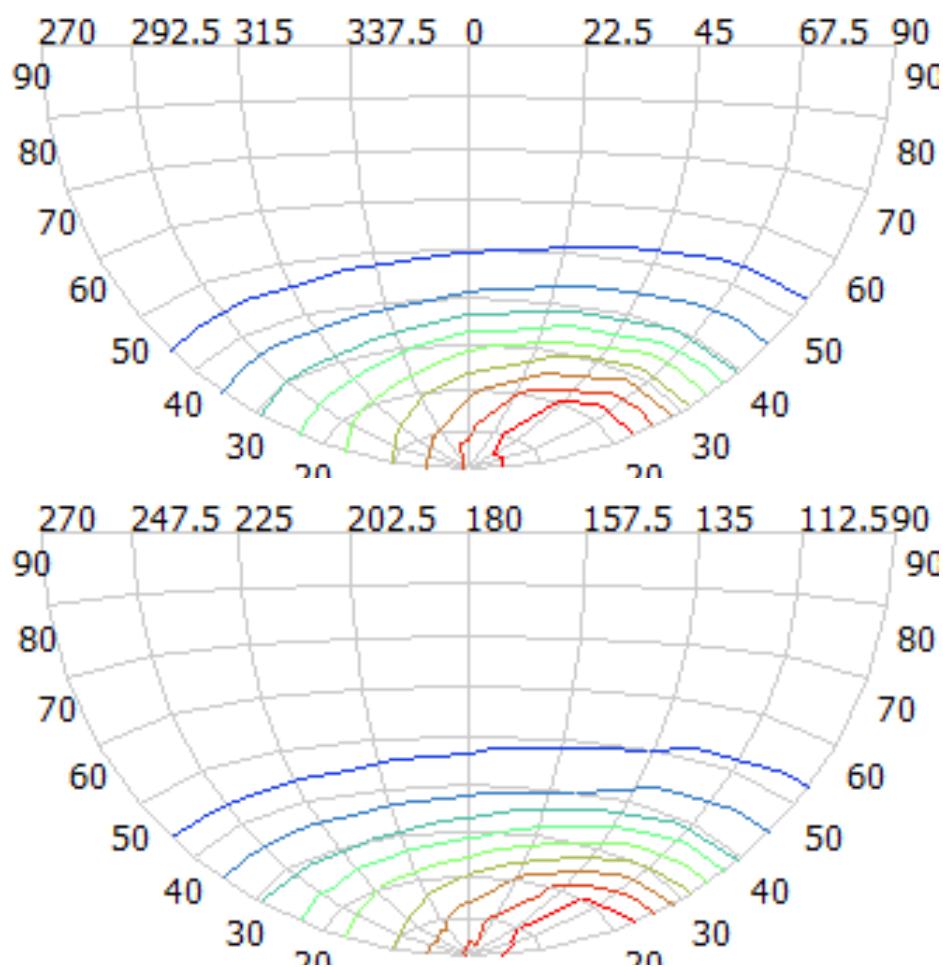
Total Lamp Lumens: 485  
 Luminaire Efficiency (lm/W):484.77  
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	9.92	9.92	2.05	2.05
10	75.64	85.56	17.65	17.65
20	130.44	215.99	44.55	44.56
30	122.75	338.74	69.87	69.88
40	68.78	407.53	84.06	84.07
50	36.94	444.46	91.68	91.69
60	21.83	466.29	96.18	96.19
70	11.70	477.99	98.60	98.60
80	4.21	482.20	99.46	99.47
90	0.23	482.43	99.51	99.52
100	0.35	482.77	99.58	99.59
110	0.56	483.34	99.70	99.70
120	0.82	484.15	99.87	99.87
130	0.62	484.77	99.99	100.00

Luminaire

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### IsoCandela (Type C)

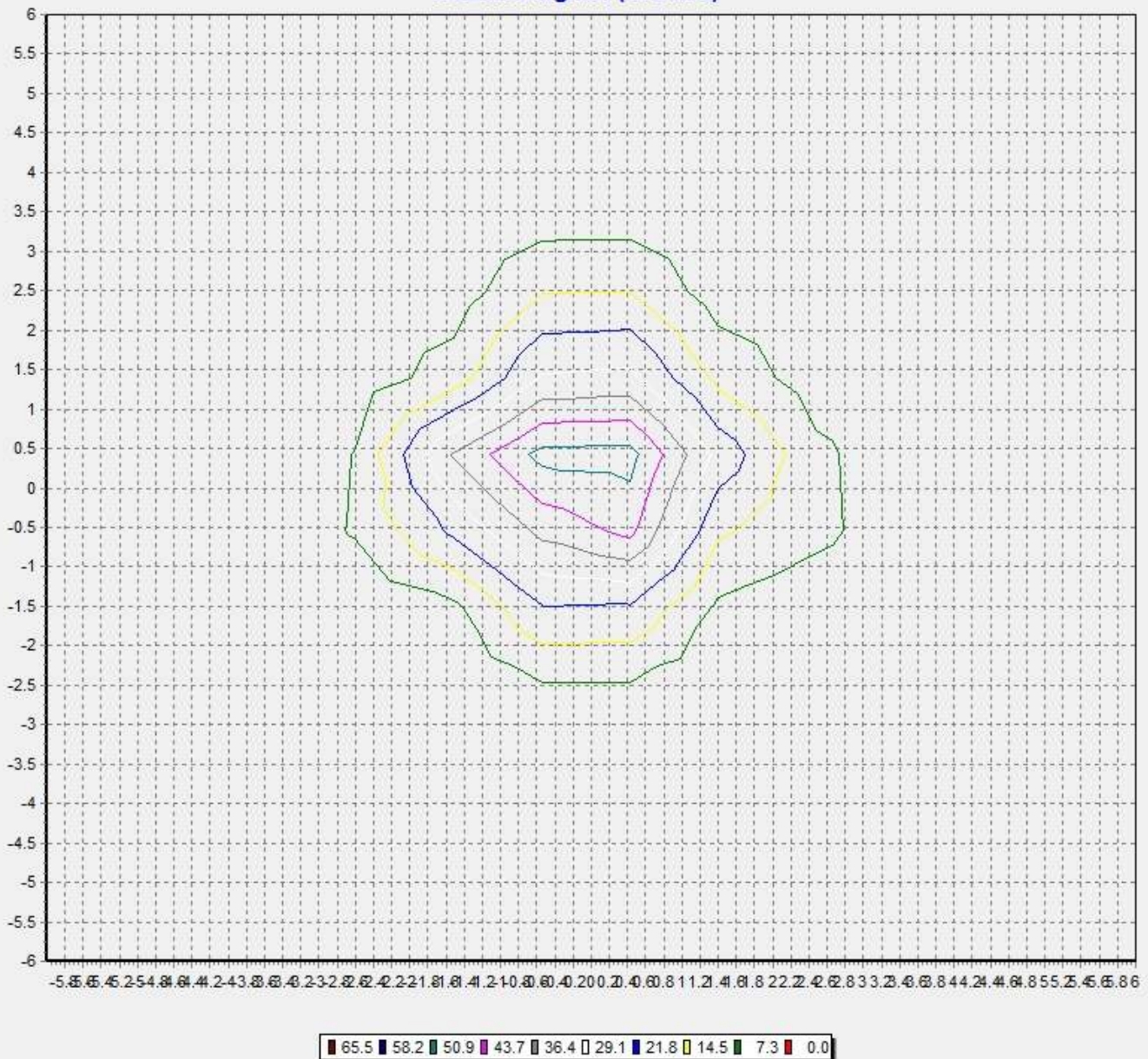




# Luminaire

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IsoLux Diagram (Ground)



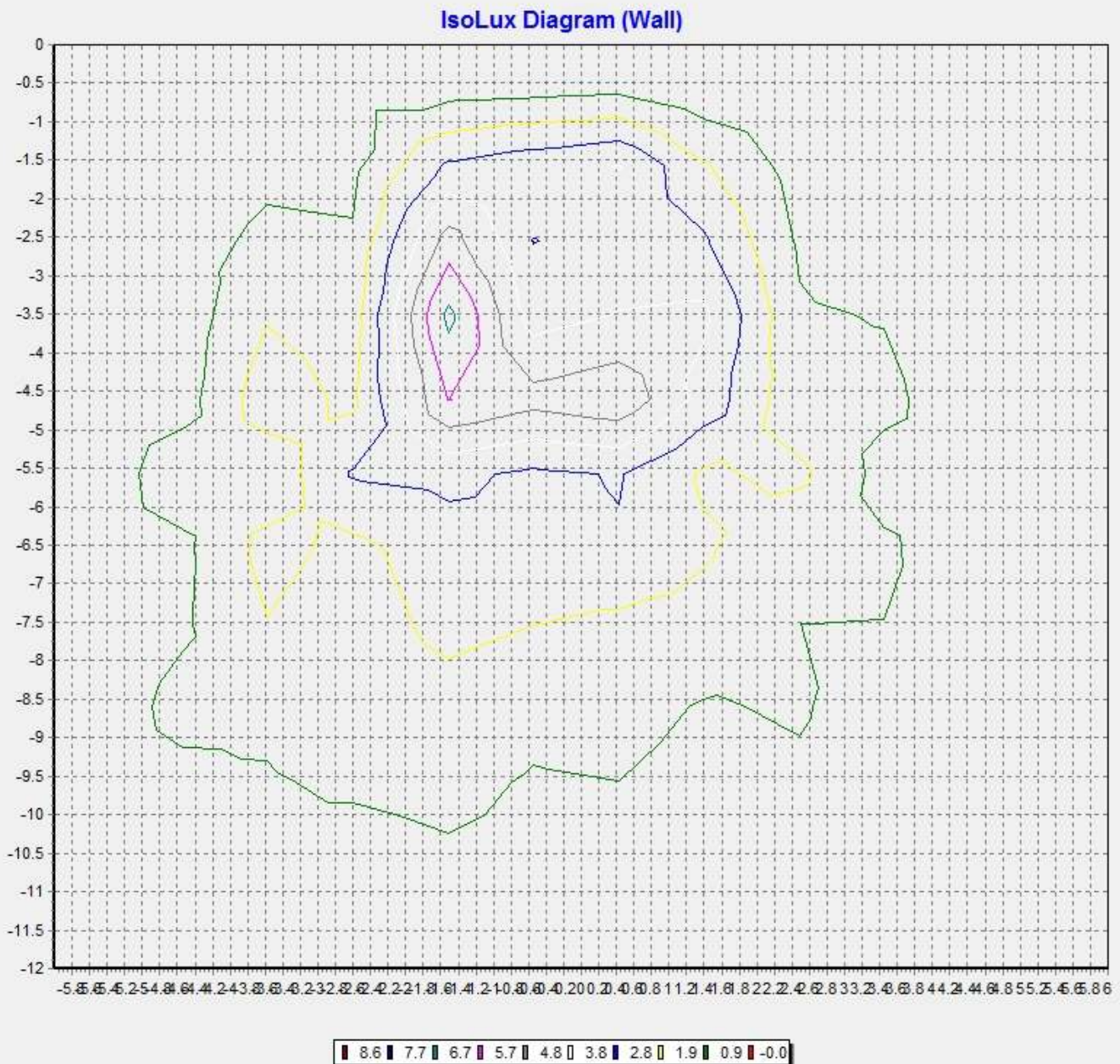
Pole Height (m): 2.7

Area Width (m): 12



# Luminaire

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

## Luminaire

Lamp				Report	190328
No. of lamps	1	Voltage (V)	23.98	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190328 DVS4A 40K-24V-SW-WT-60.jdt
Lamp flux (lm)	485	Current (A)	0.192	Operator	CGR
Total flux (lm)	485	Power Factor	1	Date	2019-03-28 오후 2:38:29

## Illuminance Levels (Ground)

6.00	0.10	0.14	0.10	0.12	0.16	0.20	0.21	0.20	0.16	0.13	0.10	0.14	0.09
5.00	0.12	0.10	0.16	0.23	0.59	0.76	0.81	0.76	0.59	0.24	0.16	0.09	0.12
4.00	0.08	0.13	0.49	0.80	0.61	0.91	1.01	0.91	0.60	0.80	0.44	0.14	0.08
3.00	0.12	0.18	0.65	0.78	3.36	2.30	3.11	2.31	3.44	0.70	0.68	0.19	0.12
2.00	0.15	0.55	0.59	2.56	3.89	8.60	14.73	8.62	3.48	2.74	0.58	0.55	0.15
1.00	0.13	0.50	0.61	2.07	8.31	33.97	57.42	27.80	8.36	2.11	0.66	0.53	0.14
0.00	0.12	0.49	0.62	1.80	8.03	43.12	57.56	45.26	11.03	2.49	0.83	0.65	0.17
-1.00	0.14	0.53	0.62	1.33	4.44	18.68	34.23	16.19	4.58	1.41	0.67	0.56	0.15
-2.00	0.09	0.35	0.36	1.83	2.15	4.33	6.43	4.44	2.01	1.97	0.39	0.37	0.10
-3.00	0.07	0.14	0.48	0.47	1.54	1.25	1.54	1.29	1.57	0.46	0.51	0.15	0.07
-4.00	0.05	0.09	0.30	0.42	0.36	0.49	0.55	0.48	0.38	0.44	0.29	0.10	0.06
-5.00	0.08	0.06	0.08	0.12	0.33	0.40	0.43	0.39	0.35	0.12	0.08	0.05	0.09
-6.00	0.06	0.08	0.04	0.07	0.09	0.10	0.11	0.10	0.09	0.07	0.05	0.08	0.06
-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.): 57.6

All illuminance level values are in lux.

Illum. (Min.): 0.04

Illum. Avg.: 3.07

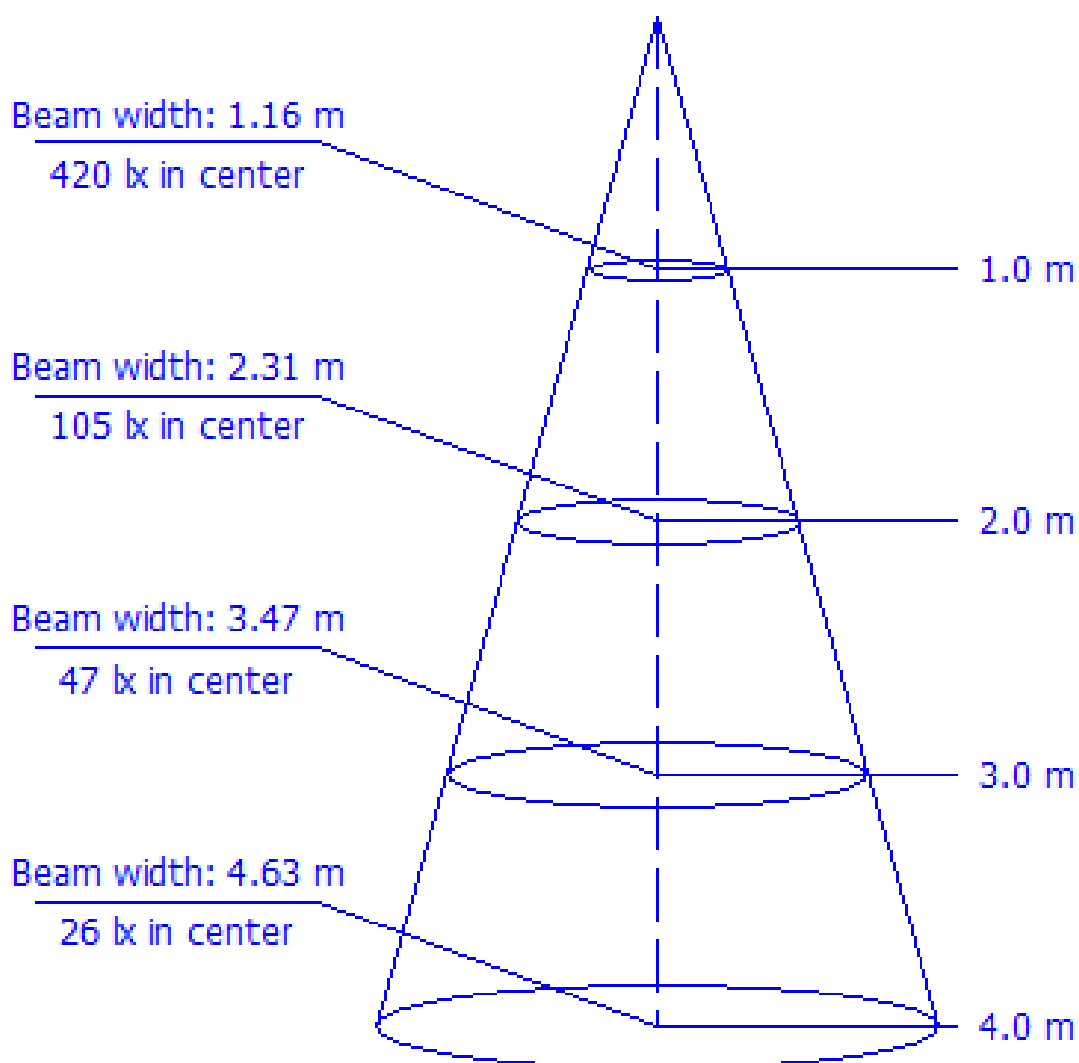
Total Optical Solution Provider


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

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## Illuminance Cone Diagram



Beam Angle = 60 deg.

Based on 50% of maximum illuminance.

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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