

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 : 20190129

2. Purpose of Report :

3. Test Standard / Item : LED / 190211 FN1 50K-24V

4. Test Period : 20190129 ~ 20190129

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 JSY	Technical manager JSY
--------------	----------------	--------------------------

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
This report cannot be reproduced, except in full.
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
	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3373, 0.3594	
Correlated Color Temperature	K	5311	
Ra	-	78.73	
Power Factor	%	1.000	
Input Voltage	V	23.950	
Input Current	A	0.473	
Input Watt	W	11.33	
Lamp Flux	lm	436.3	
Efficient	lm/W	38.51	
Illuminance	lx	118	1 m
		29	2 m
		13	3 m

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

Sample photo

Click to load image

Luminaire

Lamp

Report

No. of lamps 1

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2018\190211 FN1 50K-24V.jdt

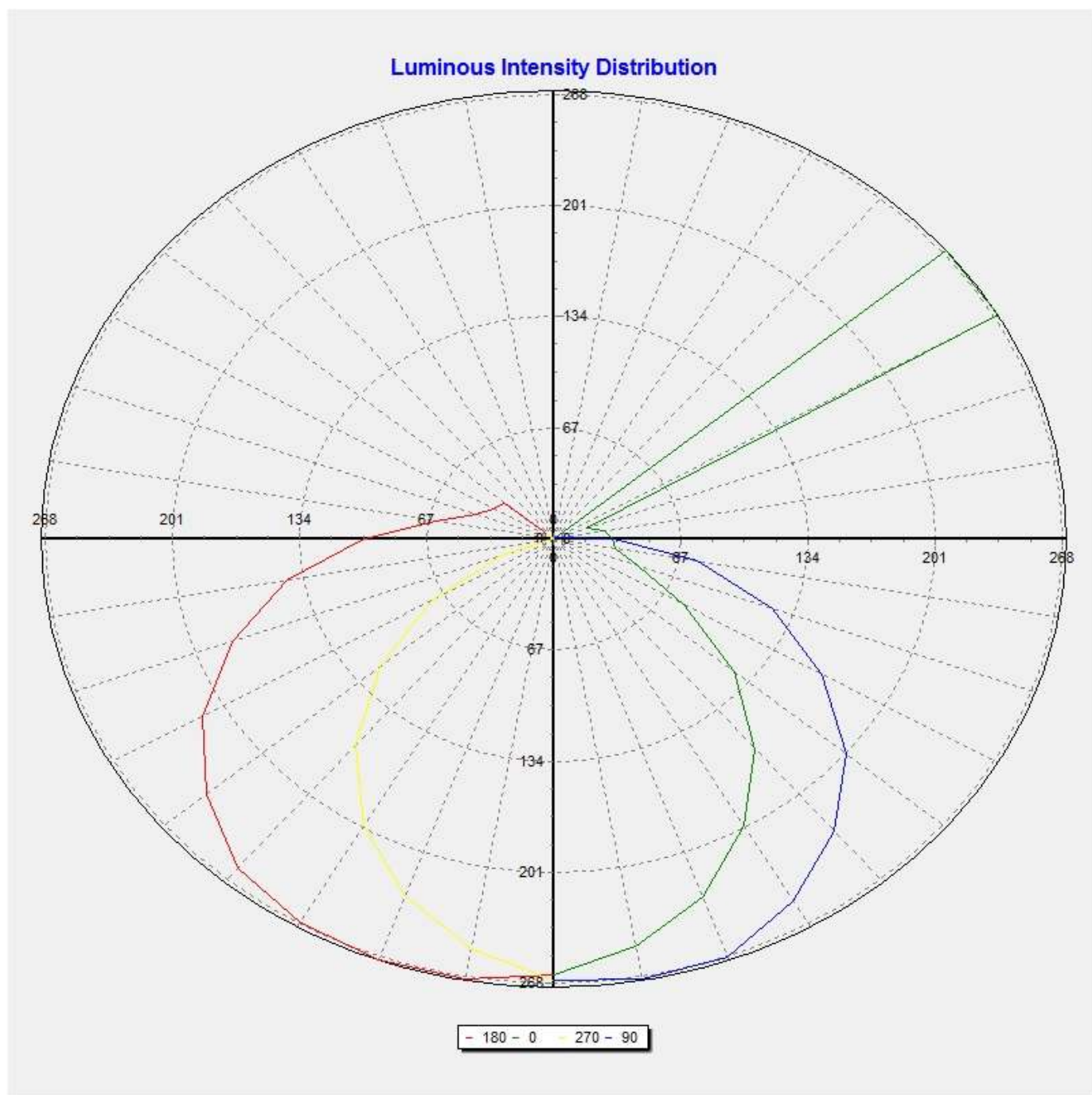
Lamp flux (lm) 436

Operator current (A) 0.473

Total flux (lm) 436

Date Power Factor 1

2019-02-11 오후 1:56:43



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp

No. of lamps 1

Lamp flux (lm) 436

Total flux (lm) 436

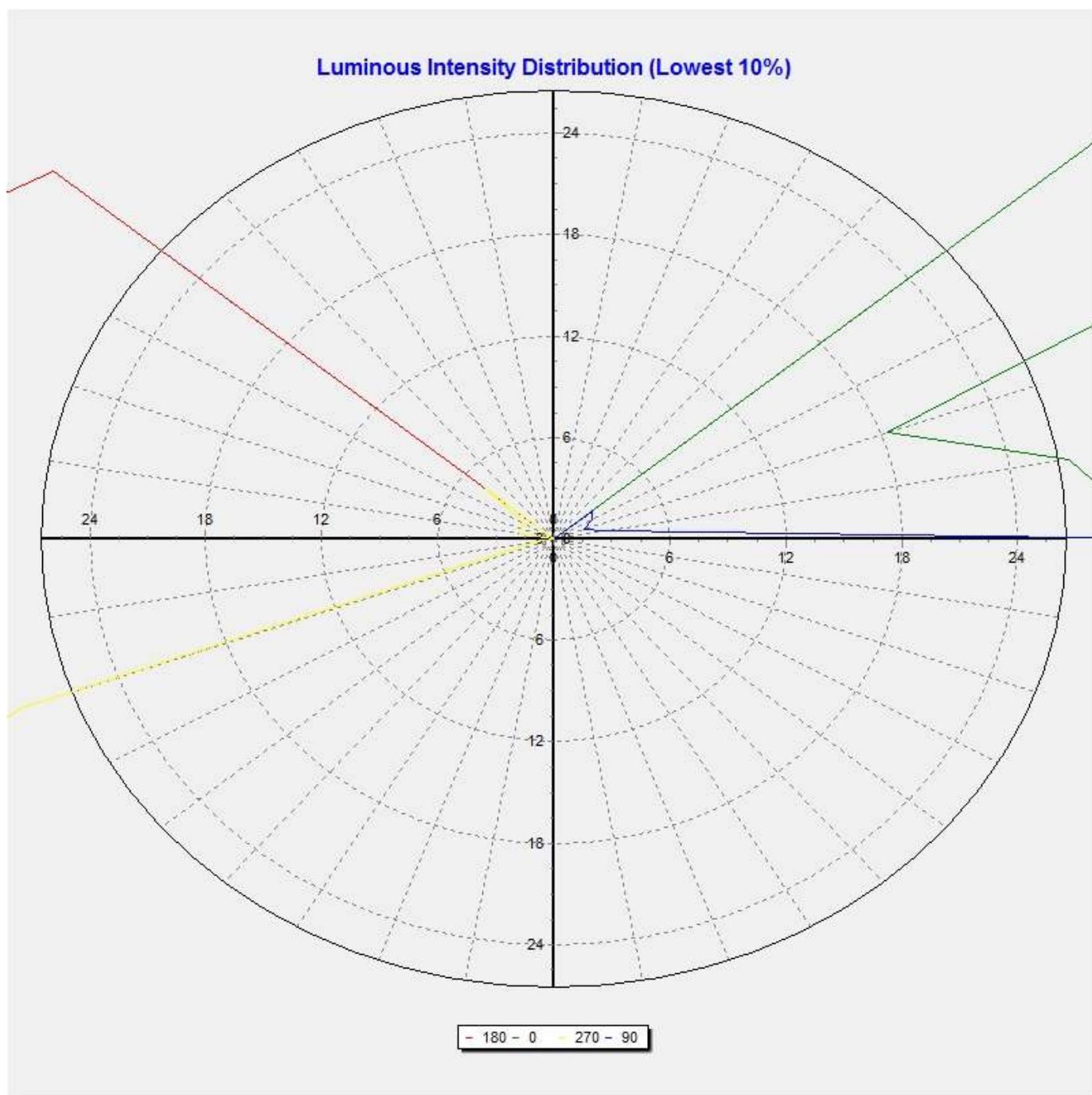
Report

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2018\190211 FN1 50K-24V.jdt

Operator current (A) 0.473

Date Power Factor 1

2019-02-11 오후 1:56:43



All luminous intensity values are in Cd/Klm unit.

Luminaire

Lamp		Report	
No. of lamps	1	FilenameC:\Users\WFEELUX\Desktop\완료 리포트\Data\2018\190211 FN1 50K-24V.jdt	
Lamp flux (lm)	436	Operator	current (A) 0.473
Total flux (lm)	436	Date	Power Factor 1

2019-02-11 오후 1:56:43

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	114.57	118.67	117.98	115.98	118.21	117.93	114.57	118.67	117.98	115.98	118.21	117.93	114.57
10	108.85	116.22	115.66	117.69	116.44	116.91	117.46	116.59	116.62	109.31	116.60	116.52	108.85
20	100.30	113.47	111.37	116.85	111.87	112.56	117.80	111.88	111.79	99.83	110.78	112.97	100.30
30	87.15	107.72	103.77	110.14	103.73	104.41	116.62	103.85	101.63	87.27	102.06	106.80	87.15
40	72.10	98.52	92.41	100.48	90.36	93.09	113.12	91.66	88.84	70.84	91.16	96.76	72.10
50	54.18	84.84	78.12	87.66	75.38	78.50	104.31	77.97	74.61	51.92	77.32	84.05	54.18
60	35.00	68.08	60.82	71.30	58.36	61.79	93.15	61.59	56.75	32.29	60.91	68.30	35.00
70	20.58	51.11	42.12	53.48	39.61	44.01	78.77	42.36	38.30	12.79	40.73	48.59	20.58
80	14.25	31.68	23.03	33.41	19.92	26.83	62.22	25.69	18.38	0.39	20.99	30.06	14.25
90	13.66	17.00	8.99	13.91	9.56	16.66	43.78	16.64	8.89	-0.34	8.48	16.42	13.66
100	11.79	11.89	6.77	1.14	7.77	14.64	27.54	14.04	7.68	0.78	6.47	12.23	11.79
110	7.99	12.02	6.40	0.73	6.43	12.65	19.18	12.15	5.41	0.79	5.83	11.11	7.99
120	117.88	8.41	0.43	1.00	0.70	9.04	16.15	8.66	0.82	0.71	0.91	8.47	117.88
130	117.78	5.91	3.37	1.12	1.29	5.87	14.73	1.38	1.91	2.03	2.78	2.80	117.78

Luminaire

Lamp		Report		
No. of lamps	1	FilenameC:\Users\WFEELUX\Desktop\완료 리포트\Data\2018\190211 FN1 50K-24V.jdt		
Lamp flux (lm)	436	Operator	current (A)	0.473
Total flux (lm)	436	Date	Power Factor	1

2019-02-11 오후 1:56:43

Luminous Flux Table

Total Lamp Lumens: 436

Luminaire Efficiency (lm/W):436.26

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.80	2.80	0.64	0.64
10	21.95	24.75	5.67	5.67
20	41.56	66.31	15.20	15.20
30	56.37	122.68	28.12	28.12
40	64.50	187.18	42.90	42.90
50	64.94	252.12	57.79	57.79
60	57.57	309.69	70.98	70.99
70	43.95	353.63	81.05	81.06
80	27.58	381.22	87.37	87.38
90	15.85	397.06	91.01	91.02
100	11.03	408.10	93.54	93.55
110	8.64	416.73	95.52	95.52
120	13.69	430.42	98.65	98.66
130	5.83	436.26	99.99	100.00

Luminaire

Lamp

Report

No. of lamps 1

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2018\190211 FN1 50K-24V.jdt

Lamp flux (lm) 436

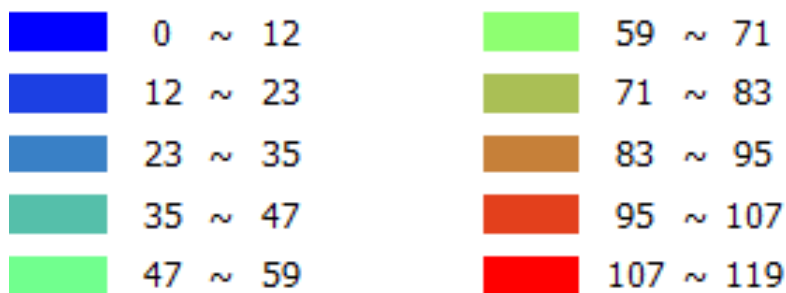
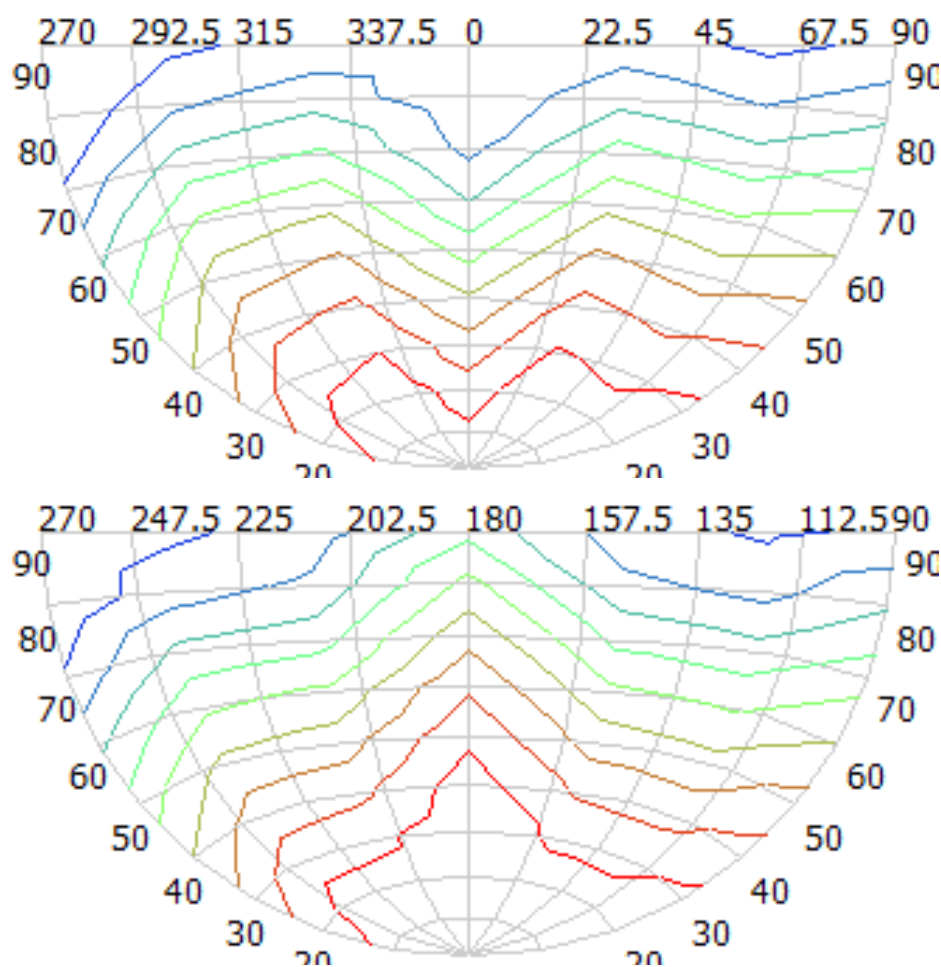
Operator current (A) 0.473

Total flux (lm) 436

Date Power Factor 1

2019-02-11 오후 1:56:43

IsoCandela (Type C)



Luminaire

Lamp

No. of lamps 1

Lamp flux (lm) 436

Total flux (lm) 436

Report

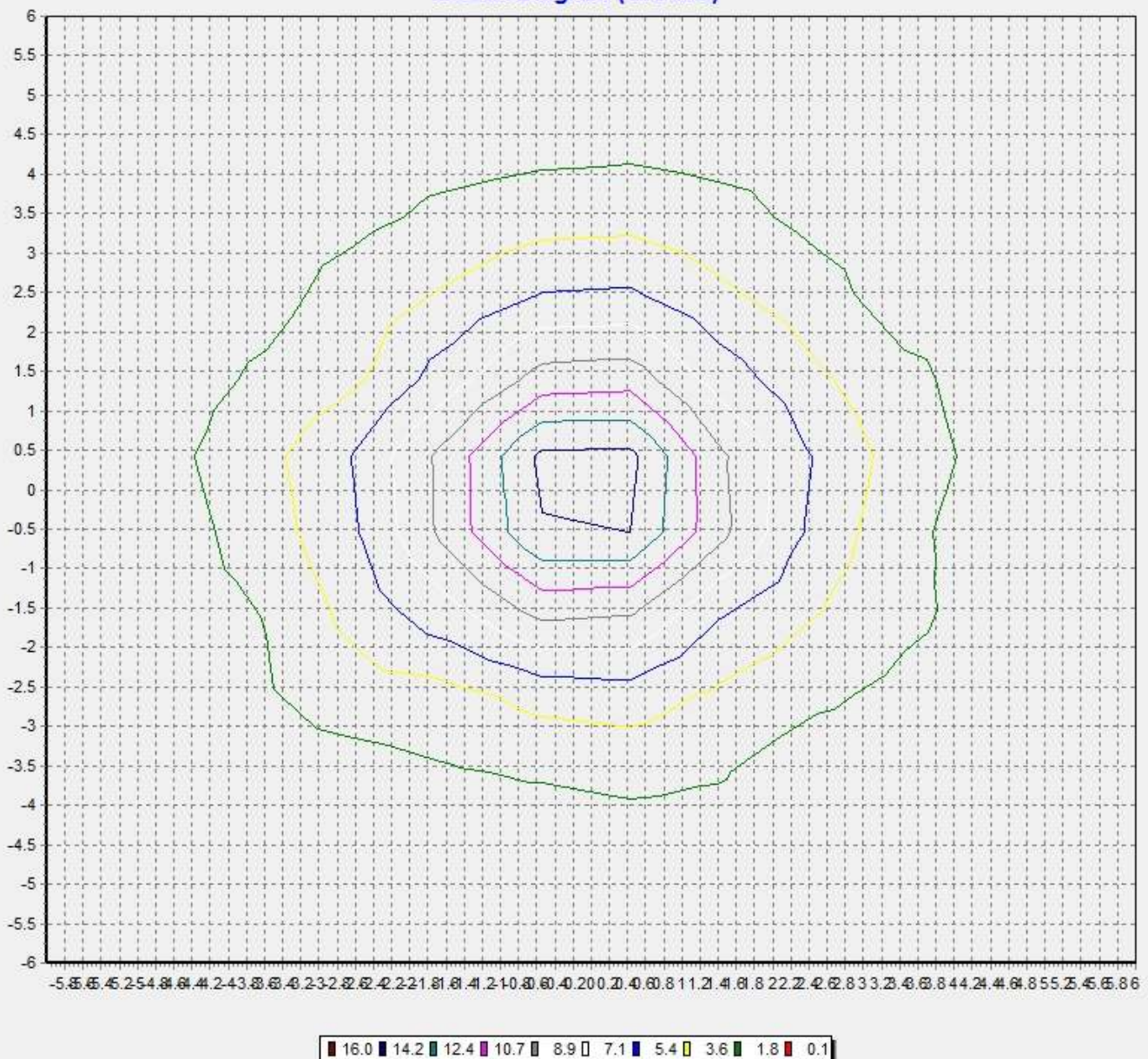
FilenameC:\Users\WFEELUX\Desktop\완료 리포트\Data\2018\190211 FN1 50K-24V.jdt

Operatorcurrent (A) 0.473

Date Power Factor 1

2019-02-11 오후 1:56:43

IsoLux Diagram (Ground)



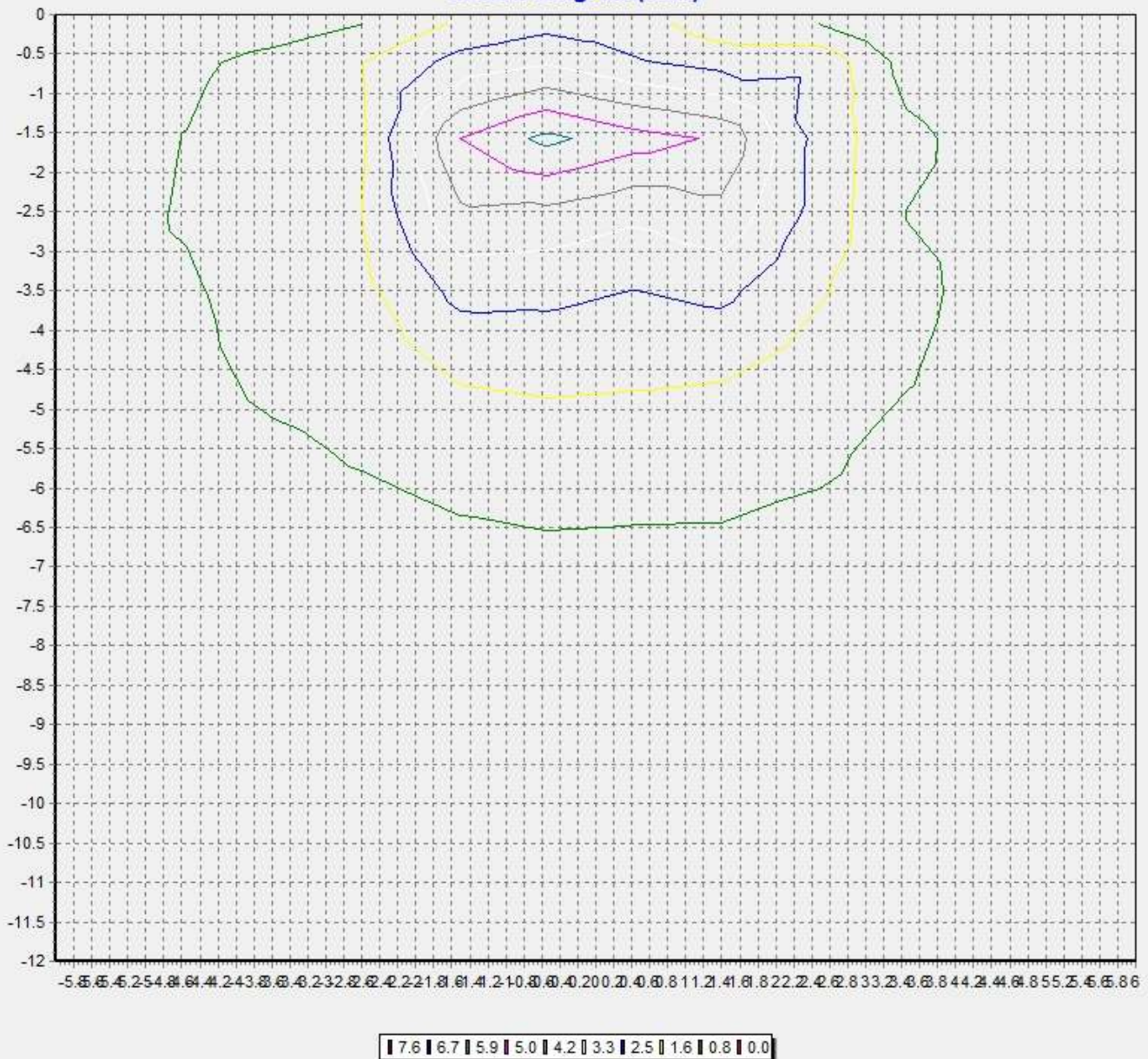
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp		Report	
No. of lamps	1	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2018\190211 FN1 50K-24V.jdt
Lamp flux (lm)	436	Operator	current (A) 0.473
Total flux (lm)	436	Date	Power Factor 1
			2019-02-11 오후 1:56:43

IsoLux Diagram (Wall)



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

Luminaire

Lamp

No. of lamps	1	Voltage (V)	23.95
Lamp flux (lm)	436	Current (A)	0.473
Total flux (lm)	436	Power Factor	1

Report

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2018\190211 FN1 50K-24V.jdt

Operator

Date

2019-02-11 오후 1:56:43

Illuminance Levels (Ground)

6.00	0.23	0.31	0.31	0.32	0.42	0.49	0.58	0.52	0.44	0.38	0.26	0.29	0.18
5.00	0.28	0.30	0.44	0.63	0.90	1.10	1.25	1.13	0.95	0.52	0.40	0.23	0.21
4.00	0.26	0.39	0.81	1.21	1.17	1.60	1.87	1.62	1.31	1.13	0.67	0.27	0.15
3.00	0.31	0.53	1.10	1.46	2.81	3.03	3.70	3.11	2.62	1.19	0.86	0.29	0.36
2.00	0.39	0.87	1.15	2.60	3.91	5.77	7.39	6.15	3.40	2.06	1.25	0.87	0.37
1.00	0.68	1.29	1.87	2.90	5.71	10.36	13.31	9.50	6.01	2.77	1.31	0.97	0.43
0.00	0.80	1.51	2.35	4.36	8.14	13.29	15.72	12.28	5.50	2.37	1.03	0.75	0.25
-1.00	0.56	1.20	1.83	3.33	5.92	10.61	12.33	9.27	5.78	3.03	1.27	0.87	0.33
-2.00	0.51	0.99	1.27	3.18	4.30	5.75	5.45	5.59	3.19	2.72	1.20	0.91	0.42
-3.00	0.36	0.86	1.42	1.71	2.50	2.91	2.29	2.57	2.00	1.08	1.18	0.59	0.32
-4.00	0.44	0.59	0.93	1.07	1.19	1.12	0.97	1.16	1.13	0.80	0.62	0.42	0.29
-5.00	0.39	0.39	0.36	0.48	0.88	0.79	0.72	0.87	0.80	0.24	0.21	0.18	0.31
-6.00	0.28	0.27	0.24	0.33	0.39	0.26	0.20	0.34	0.30	0.30	0.10	0.19	0.16
-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.): 15.7

All illuminance level values are in lux.

Illum. (Min.): 0.10

Illum. Avg.: 2.02

Total Optical Solution Provider


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

Luminaire

Lamp

No. of lamps 1

Lamp flux (lm) 436

Total flux (lm) 436

Report

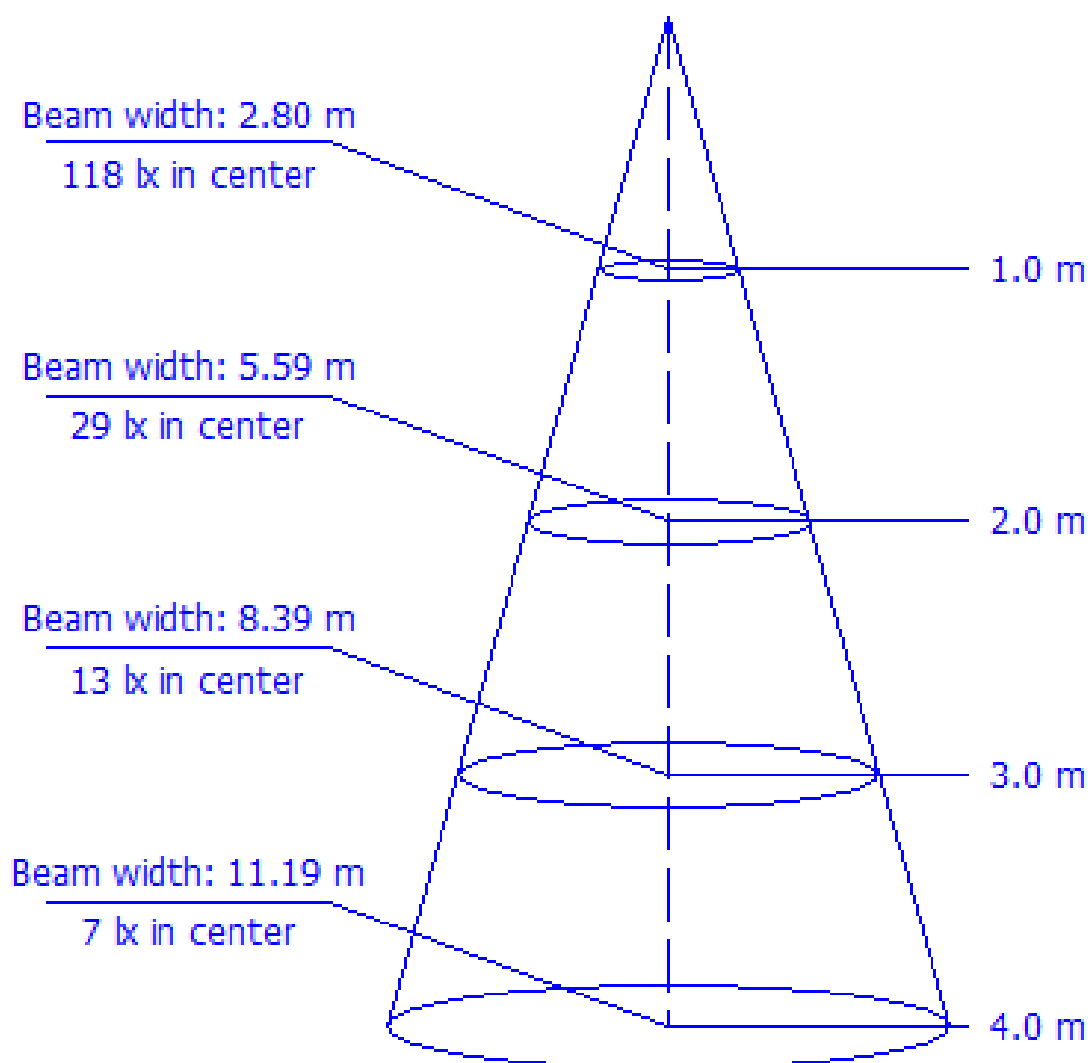
FilenameC:\Users\WFEELUX\Desktop\완료 리포트\Data\2018\190211 FN1 50K-24V.jdt

Operatorcurrent (A) 0.473

Date Power Factor 1

2019-02-11 오후 1:56:43

Illuminance Cone Diagram



Beam Angle = 109 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp

No. of lamps	1	Voltage (V)	23.95
Lamp flux (lm)	436	Current (A)	0.473
Total flux (lm)	436	Power Factor	1

Report

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2018\190211 FN1 50K-24V.jdt

Operator

Date

2019-02-11 오후 1:56:43

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