

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 : 190419

2. Purpose of Report :

3. Test Standard / Item : LED / 190419 FN2 60K

4. Test Period : 190419 ~ 190419

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
190419	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3197, 0.3383	
Correlated Color Temperature	K	6091	
Ra	-	80.42	
Power Factor	%	1.000	
Input Voltage	V	23.940	
Input Current	A	0.497	
Input Watt	W	11.9	
Lamp Flux	lm	719.8	
Efficient	lm/W	60.50	
Illuminance	lx	206	1 m
		52	2 m
		23	3 m

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

Sample photo

Click to load image

Luminaire

Lamp

Report

190419

No. of lamps 1

Filename: C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190419 FN2 60K.jdt

Lamp flux (lm) 720

Operatont (A) 0.497

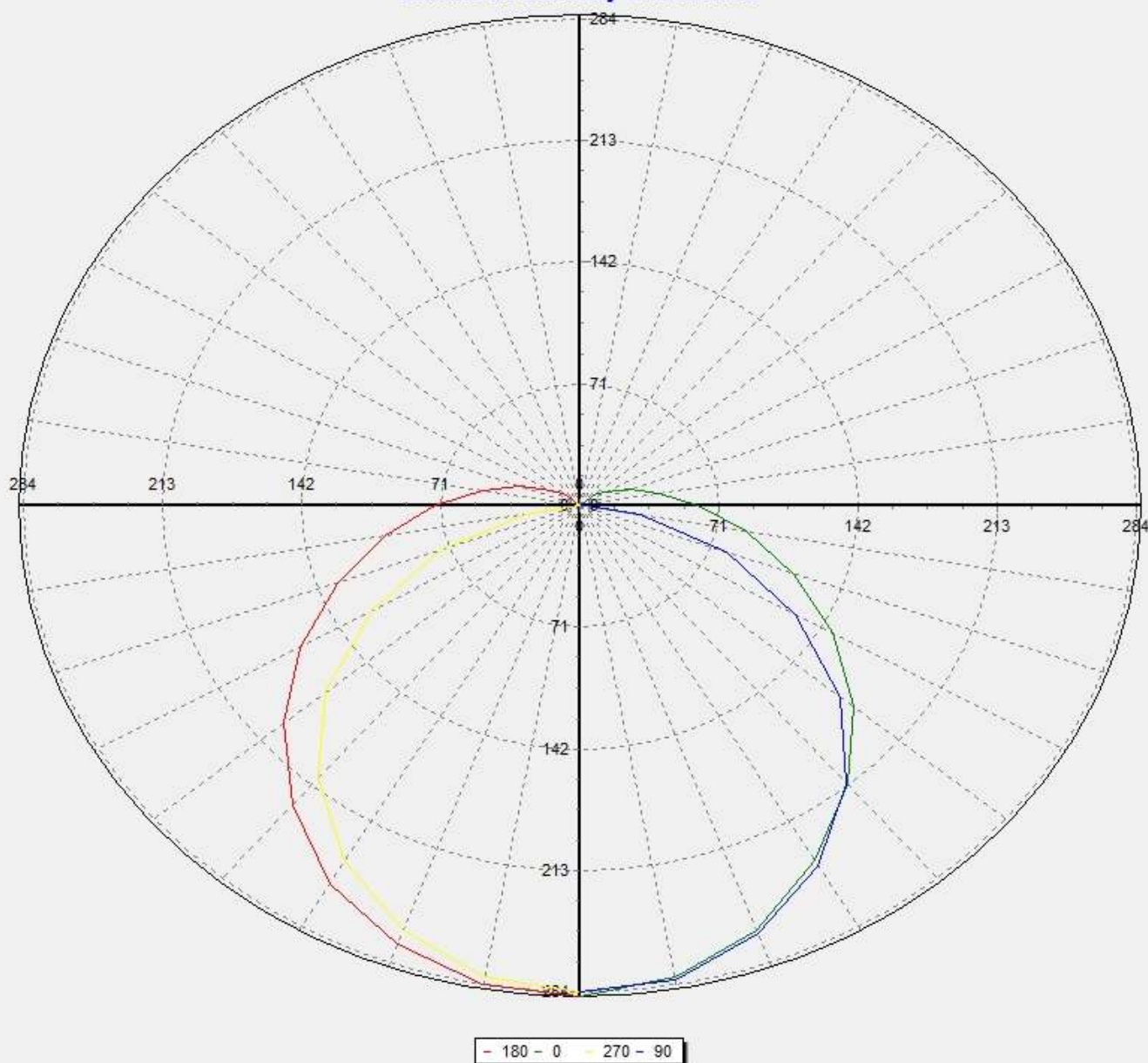
CGR

Total flux (lm) 720

Date: wer Factor 1

2019-04-19 오후 5:07:17

Luminous Intensity Distribution



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp

Report

190419

No. of lamps 1

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Lamp flux (lm) 720

Operatont (A) 0.497

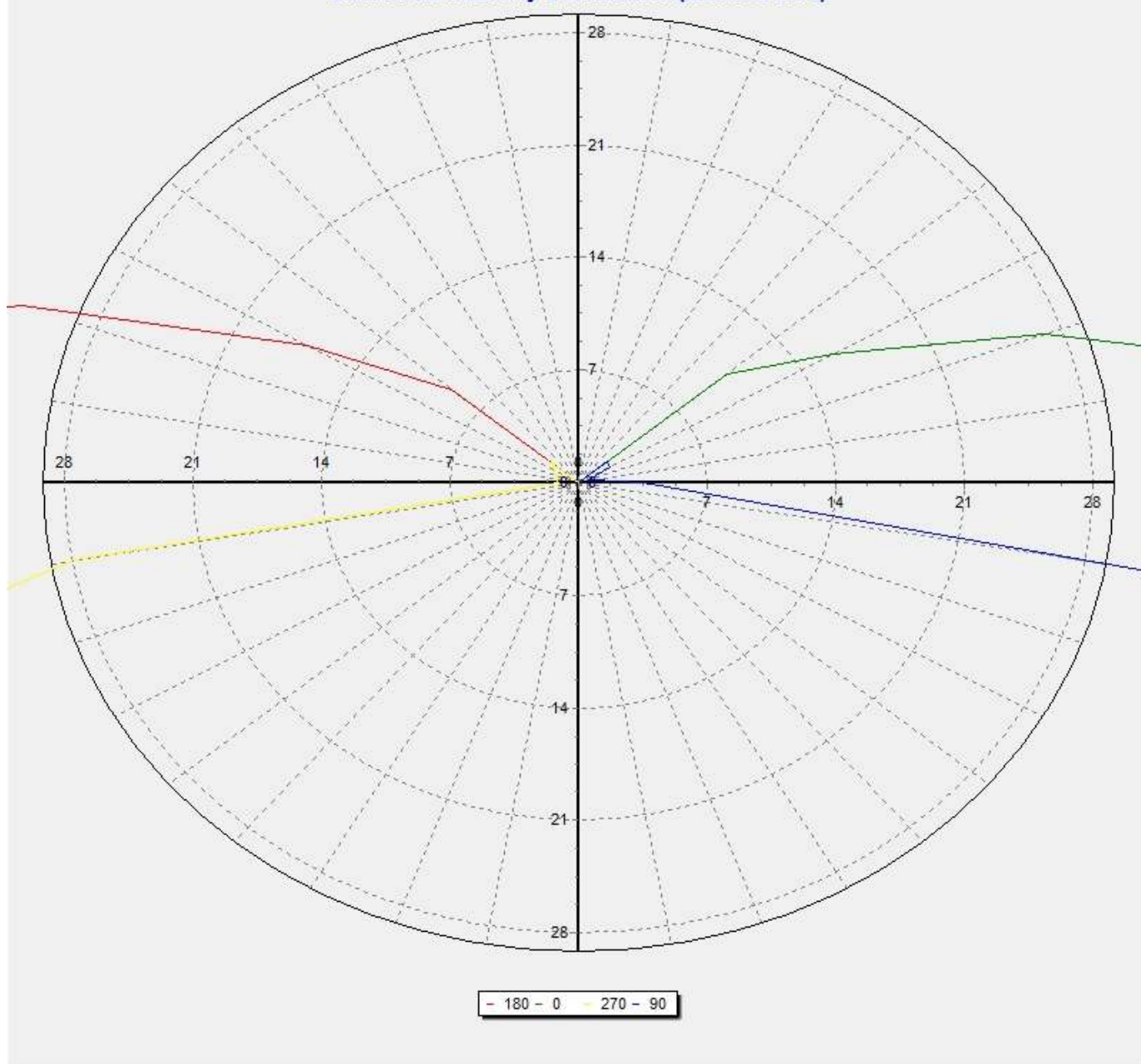
CGR

Total flux (lm) 720

Date: wer Factor 1

2019-04-19 오후 5:07:17

Luminous Intensity Distribution (Lowest 10%)



All luminous intensity values are in Cd/Klm unit.

Luminaire

Lamp		Report	190419
No. of lamps	1	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190419 FN2 60K.jdt
Lamp flux (lm)	720	Operatont (A)	0.497
Total flux (lm)	720	Date	2019-04-19 오후 5:07:17
		ower Factor	1
			CGR

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	206.17	205.73	205.14	204.60	204.44	204.22	206.17	205.73	205.14	204.60	204.44	204.22	206.17
10	201.12	200.34	200.34	202.08	202.63	202.70	204.33	203.80	202.58	201.12	199.67	198.53	201.12
20	190.28	189.42	190.34	191.54	193.75	196.05	196.20	194.78	191.80	190.11	187.57	186.27	190.28
30	172.34	172.22	172.32	174.93	179.82	182.46	183.59	180.61	175.81	172.94	170.04	169.62	172.34
40	152.98	150.76	149.28	152.37	159.12	163.86	163.98	161.78	154.35	149.47	147.35	148.77	152.98
50	131.04	126.34	122.63	124.83	132.47	141.08	142.21	137.89	128.57	121.73	119.50	124.68	131.04
60	107.29	100.28	92.01	91.29	103.82	116.72	118.98	113.00	99.11	88.13	89.97	98.91	107.29
70	83.84	76.25	62.56	57.46	72.99	91.68	94.91	87.21	68.23	53.55	59.94	74.07	83.84
80	62.01	54.15	36.60	22.31	46.02	67.48	72.82	64.07	41.08	20.07	34.72	53.00	62.01
90	43.57	36.10	18.24	2.52	24.43	47.54	53.16	44.23	20.98	0.80	17.68	35.96	43.57
100	29.68	23.05	8.64	0.58	11.88	31.07	36.21	28.56	10.39	0.90	8.39	22.57	29.68
110	19.38	14.69	4.55	0.41	5.92	18.84	23.25	17.15	2.19	0.98	3.71	14.17	19.38
120	11.52	6.57	1.21	1.43	1.13	11.21	12.27	8.17	1.33	1.09	1.27	8.20	11.52
130	7.57	2.22	1.98	1.45	2.29	2.08	6.47	1.26	1.24	1.53	2.58	1.27	7.57

Luminaire

Lamp		Report	190419
No. of lamps	1	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190419 FN2 60K.jdt
Lamp flux (lm)	720	Operatont (A)	0.497
Total flux (lm)	720	Date	2019-04-19 오후 5:07:17
		wer Factor	1
			CGR

Luminous Flux Table

Total Lamp Lumens: 720
 Luminaire Efficiency (lm/W):719.81
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	4.90	4.90	0.68	0.68
10	38.34	43.24	6.01	6.01
20	71.74	114.98	15.97	15.97
30	96.14	211.12	29.33	29.33
40	108.77	319.89	44.44	44.44
50	108.58	428.47	59.53	59.53
60	96.39	524.86	72.92	72.92
70	75.70	600.57	83.44	83.43
80	51.62	652.19	90.61	90.61
90	31.51	683.70	94.98	94.98
100	19.05	702.75	97.63	97.63
110	10.74	713.49	99.12	99.12
120	5.17	718.66	99.84	99.84
130	1.16	719.81	100.00	100.00

Luminaire

Lamp

Report

190419

No. of lamps 1

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Lamp flux (lm) 720

Operatont (A) 0.497

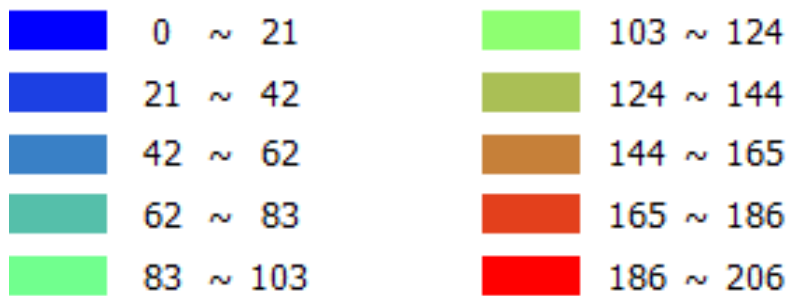
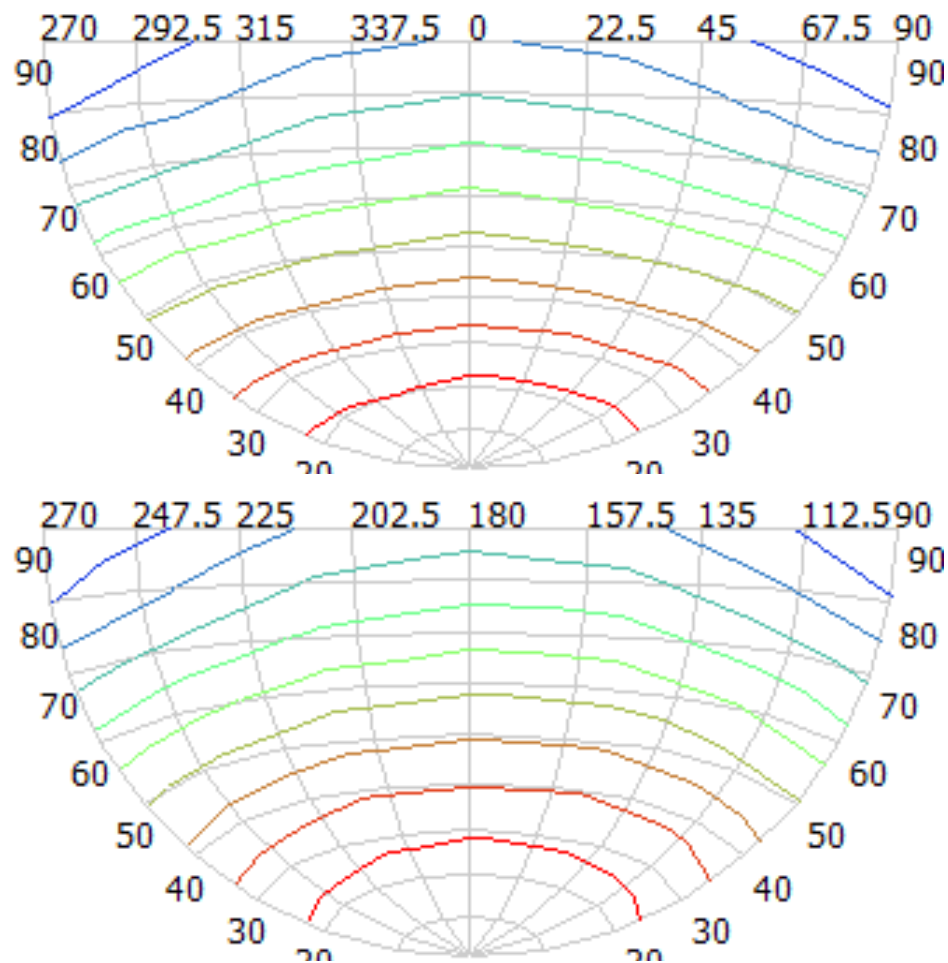
CGR

Total flux (lm) 720

Date: wer Factor 1

2019-04-19 오후 5:07:17

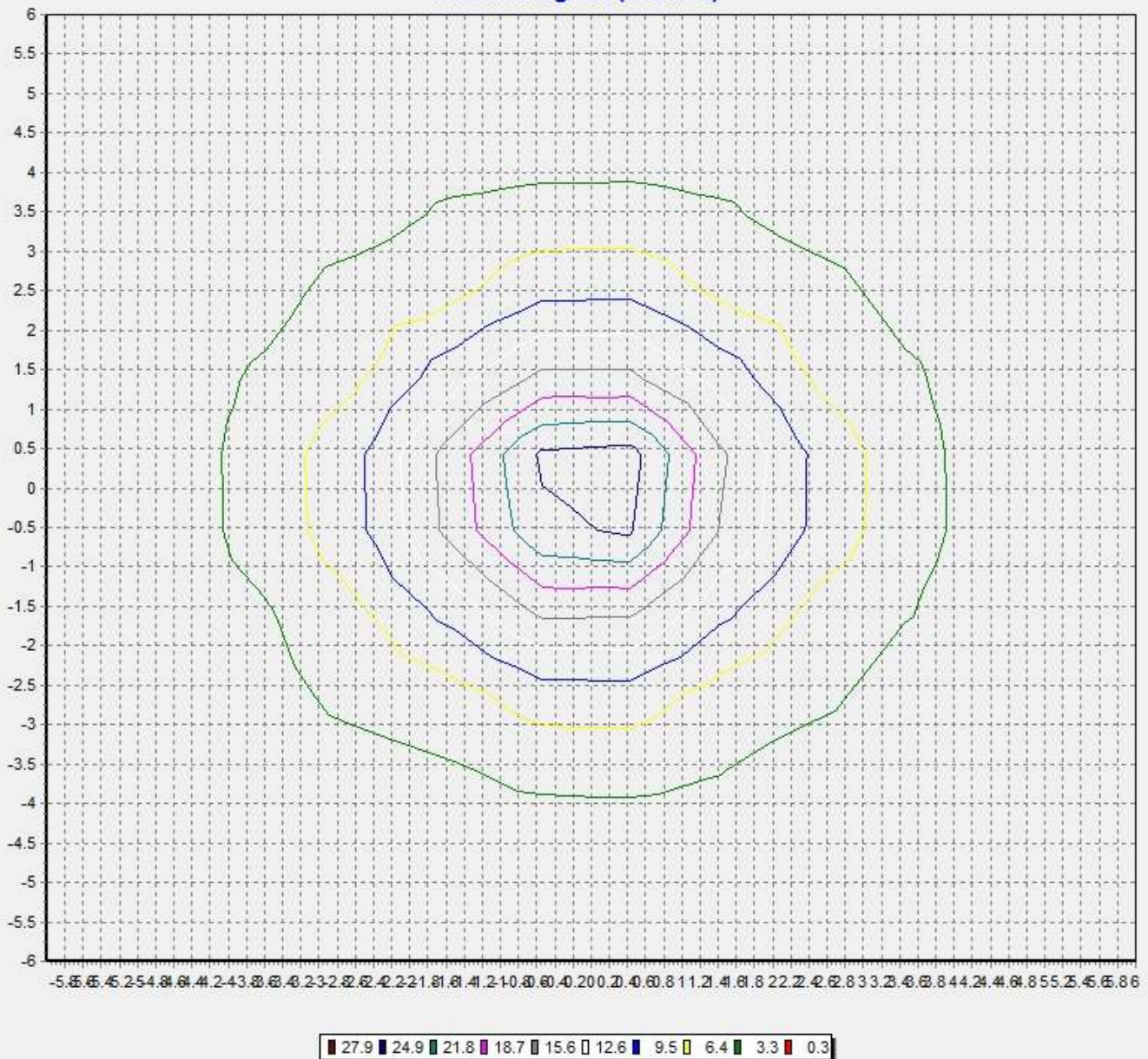
IsoCandela (Type C)



Luminaire

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IsoLux Diagram (Ground)



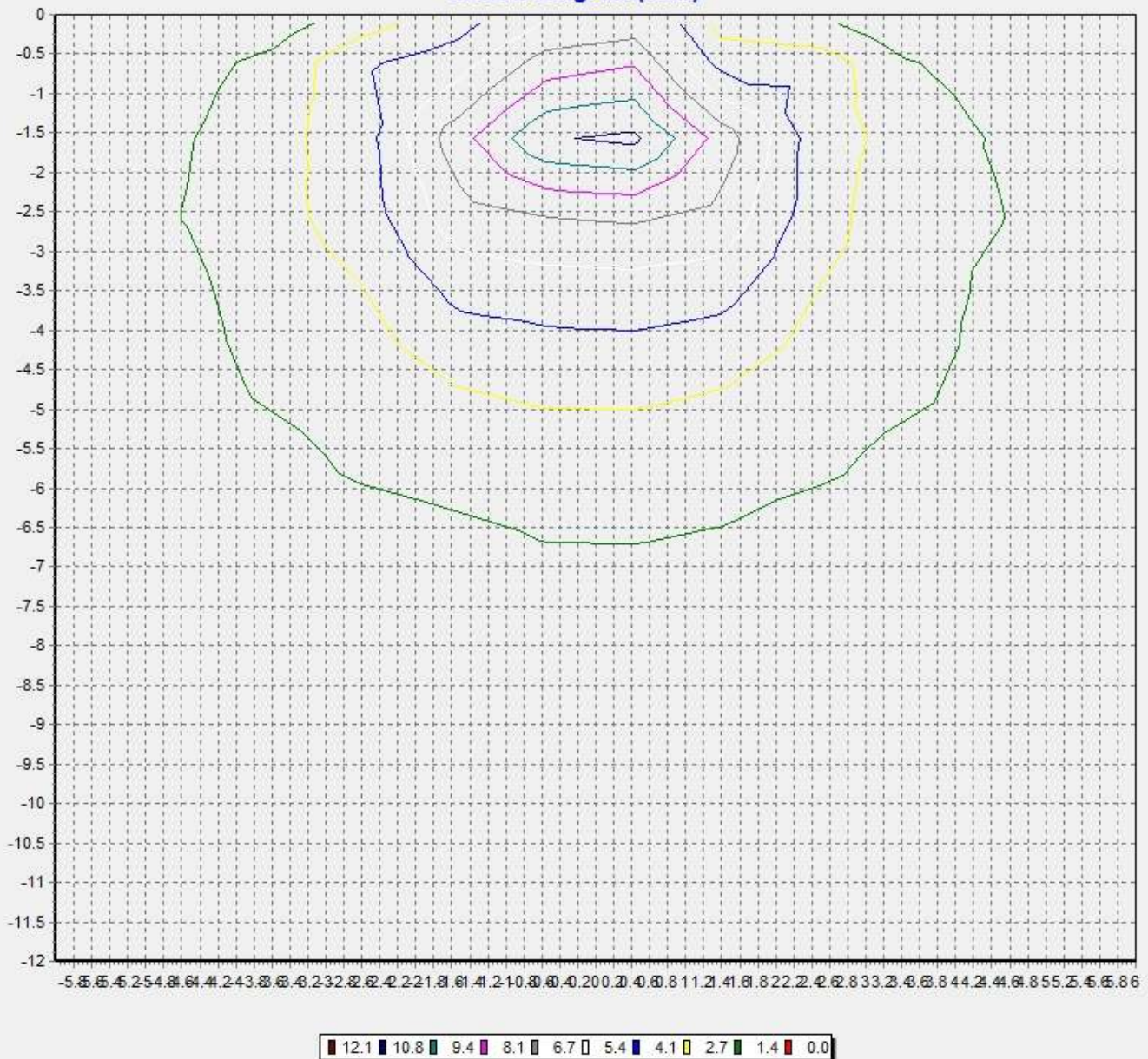
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp		Report	190419
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			CGR

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)	23.94
Lamp flux (lm)	720	Current (A)	0.497
Total flux (lm)	720	Power Factor	1

Report

190419

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190419 FN2 60K.jdt

Operator

CGR

Date

2019-04-19 오후 5:07:17

Illuminance Levels (Ground)

6.00	0.34	0.44	0.36	0.55	0.64	0.67	0.68	0.66	0.66	0.57	0.39	0.44	0.38
5.00	0.53	0.42	0.57	0.76	1.49	1.64	1.76	1.65	1.43	0.79	0.60	0.51	0.49
4.00	0.54	0.76	1.26	1.78	2.00	2.30	2.52	2.30	1.94	1.75	1.29	0.71	0.50
3.00	0.58	1.05	1.99	2.23	4.27	4.91	5.35	4.74	4.17	2.33	1.85	0.97	0.58
2.00	0.74	1.55	2.05	4.61	6.26	9.97	11.40	9.49	6.20	4.30	1.97	1.47	0.72
1.00	0.95	1.92	2.83	5.15	10.05	17.26	22.82	16.82	9.51	4.86	2.50	1.71	0.79
0.00	1.00	2.04	3.08	6.02	12.16	23.08	28.28	22.71	11.37	5.56	2.81	1.87	0.89
-1.00	0.94	1.92	2.83	5.28	10.20	17.66	22.71	16.74	9.30	4.61	2.51	1.74	0.83
-2.00	0.81	1.62	2.21	4.63	6.70	10.13	11.22	9.30	5.91	4.16	1.79	1.37	0.62
-3.00	0.66	1.08	2.02	2.59	4.35	5.09	5.23	4.57	4.15	2.06	1.75	0.87	0.48
-4.00	0.56	0.80	1.42	1.86	2.16	2.33	2.44	2.35	1.76	1.71	1.17	0.62	0.44
-5.00	0.55	0.58	0.66	0.85	1.56	1.65	1.71	1.68	1.36	0.72	0.52	0.37	0.45
-6.00	0.42	0.48	0.43	0.64	0.74	0.65	0.65	0.70	0.56	0.46	0.33	0.41	0.31
-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.): 28.2

All illuminance level values are in lux.

Illum. (Min.): 0.31

Illum. Avg.: 3.46

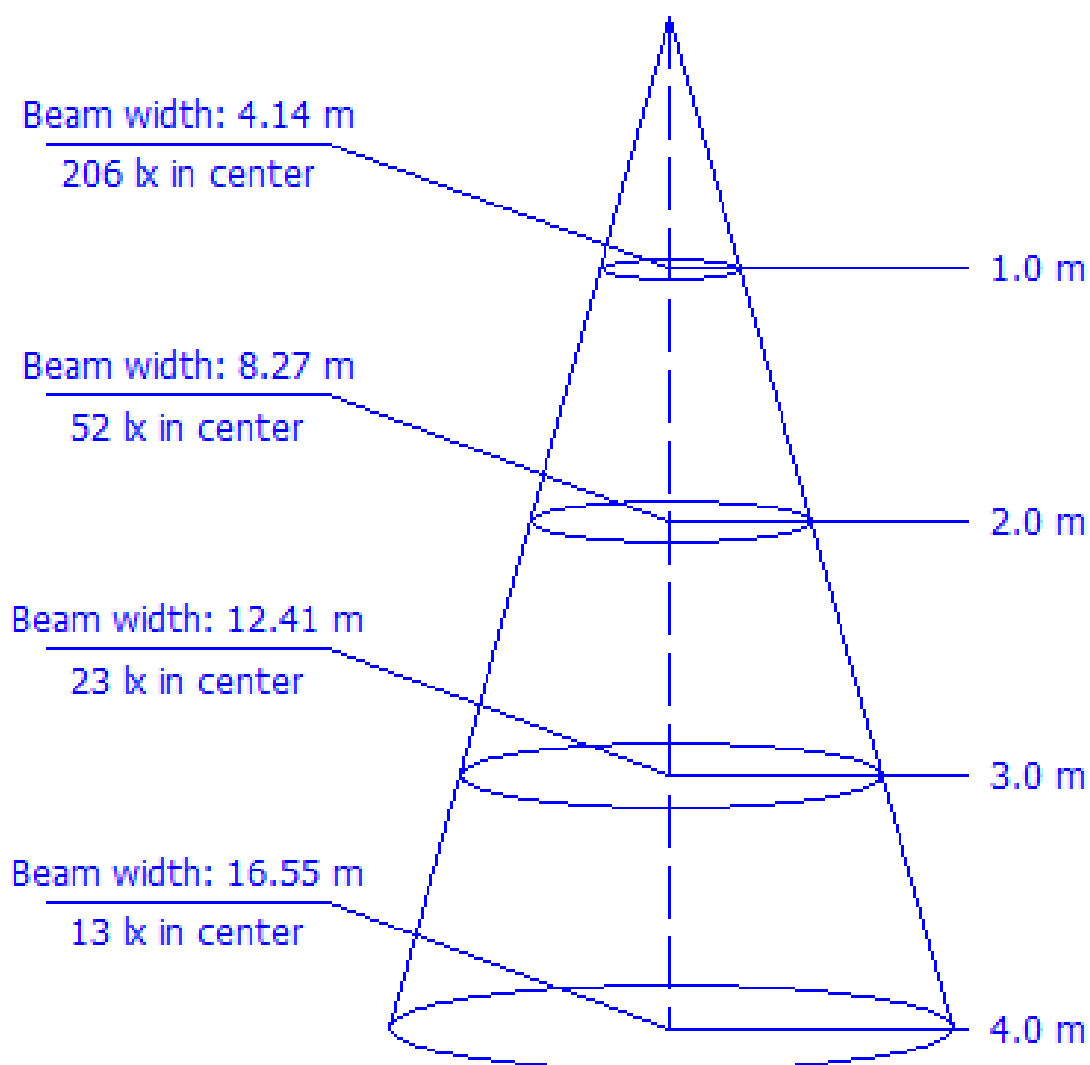
Total Optical Solution Provider


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

Luminaire

Lamp		Report	190419
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		Factor	1

Illuminance Cone Diagram



Beam Angle = 128 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp

No. of lamps	1	Voltage (V)	23.94
Lamp flux (lm)	720	Current (A)	0.497
Total flux (lm)	720	Power Factor	1

Report

190419

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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