

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 : 190415

2. Purpose of Report :

3. Test Standard / Item : LED / 190415 MNP4 40K-24V-C90

4. Test Period : 190415 ~ 190415

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
190415	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3825, 0.3761	
Correlated Color Temperature	K	3949	
Ra	-	93.45	
Power Factor	%	1.000	
Input Voltage	V	23.980	
Input Current	A	0.180	
Input Watt	W	4.33	
Lamp Flux	lm	362.1	
Efficient	lm/W	83.89	
Illuminance	lx	96	1 m
		24	2 m
		11	3 m

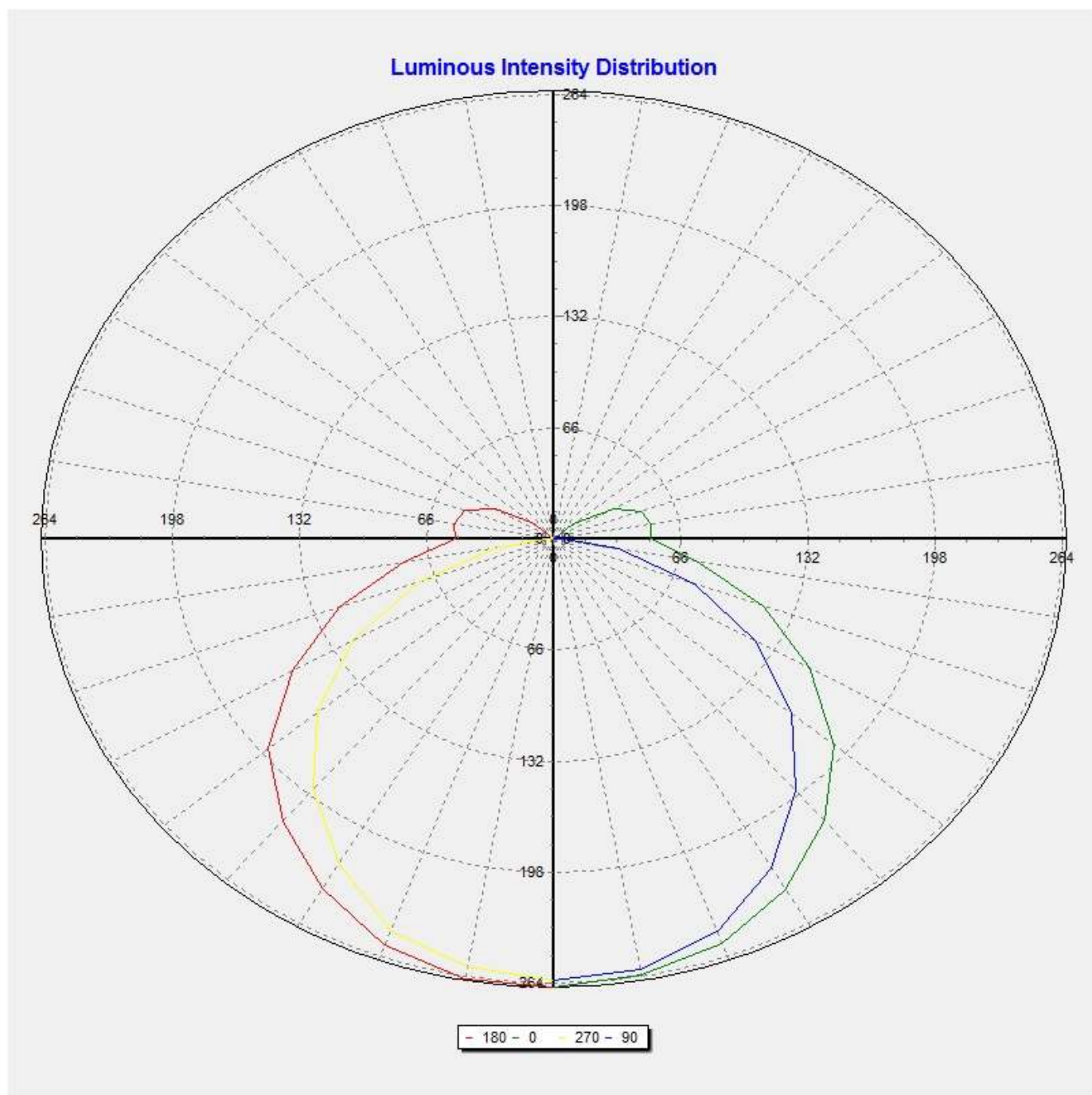
* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

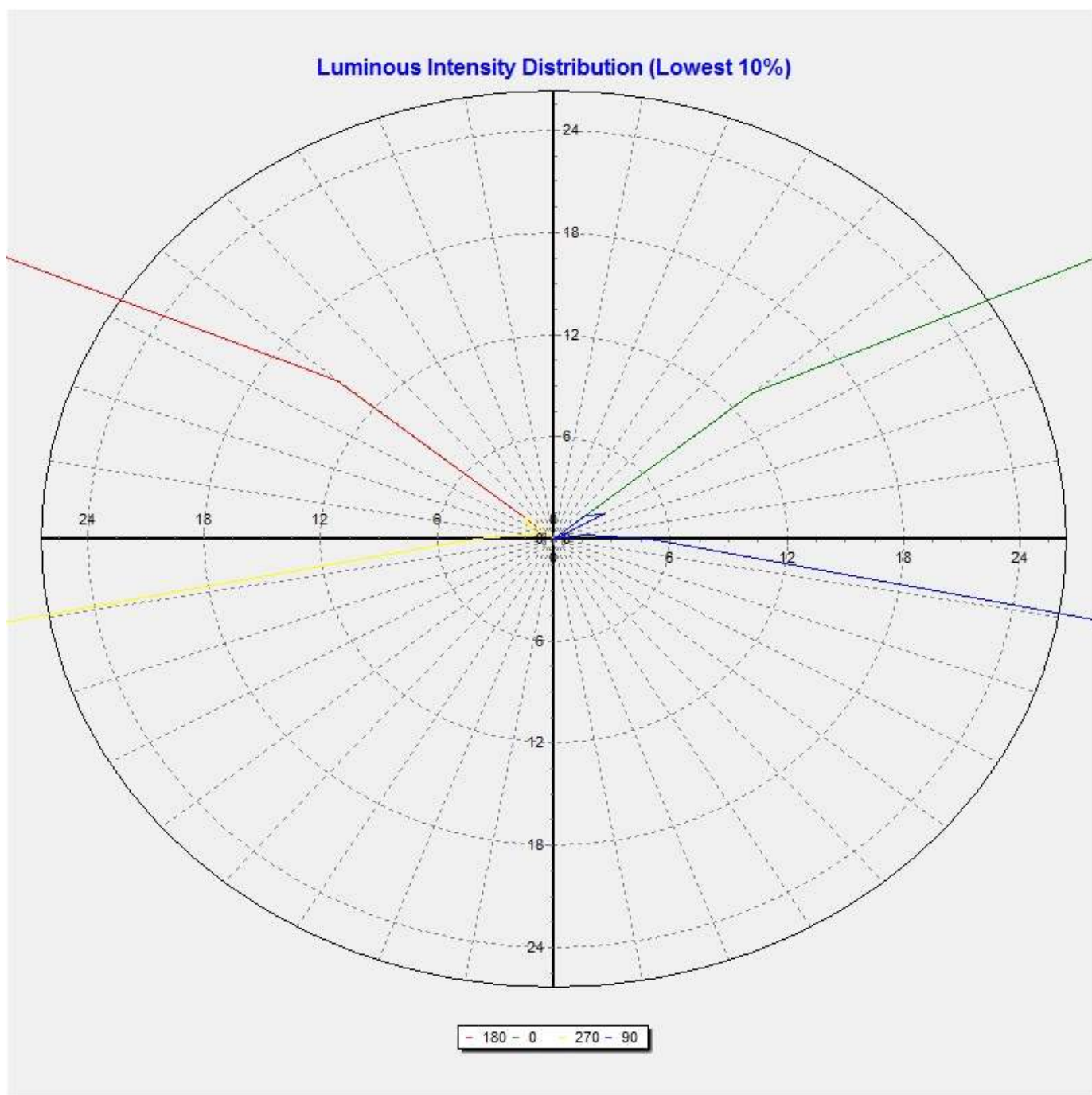
Lamp	Report	190415
No. of lamps	1	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190415 MNP4 40K-24V-C90.jdt
Lamp flux (lm)	362	Operator Current (A) 0.18 CGR
Total flux (lm)	362	Date Power Factor 1 2019-04-15 오후 12:04:42



All luminous intensity values are in Cd/KLm unit.

Luminaire

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Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	96.39	96.45	96.29	94.79	96.38	95.23	96.39	96.45	96.29	94.79	96.38	95.23	96.39
10	95.30	94.67	94.70	94.14	94.81	95.26	95.96	95.15	94.63	93.30	93.83	94.06	95.30
20	92.61	92.17	90.06	89.88	91.09	92.18	92.97	92.13	90.49	89.65	90.04	90.97	92.61
30	87.09	85.47	83.26	81.65	85.67	86.61	86.80	87.09	83.36	80.72	82.71	84.61	87.09
40	79.04	77.11	74.29	70.75	75.06	78.49	79.28	78.50	74.49	70.34	72.37	75.87	79.04
50	68.85	66.50	61.93	58.27	63.62	69.46	70.13	67.55	62.81	57.92	60.24	65.62	68.85
60	55.53	53.33	48.87	43.94	50.17	56.54	56.56	55.45	48.34	43.53	46.68	51.91	55.53
70	41.87	39.04	32.95	28.23	35.66	42.52	43.08	41.87	33.86	26.76	31.77	38.16	41.87
80	27.27	24.37	17.90	12.20	19.98	27.51	28.60	26.39	18.87	11.27	16.77	23.65	27.27
90	18.22	16.46	9.05	1.77	9.70	16.48	18.48	16.27	9.03	1.44	10.57	16.14	18.22
100	18.52	16.26	8.90	0.58	9.77	16.60	19.10	15.47	8.82	0.57	9.23	15.69	18.52
110	17.47	15.29	8.71	-0.11	9.52	14.58	17.66	14.86	6.11	0.31	8.53	15.42	17.47
120	13.03	14.20	0.02	1.07	0.36	14.42	12.72	14.13	0.45	0.56	8.50	13.74	13.03
130	4.85	3.76	4.67	0.77	4.32	4.83	5.27	5.13	4.16	0.71	0.97	5.13	4.85

Luminaire

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Luminous Flux Table

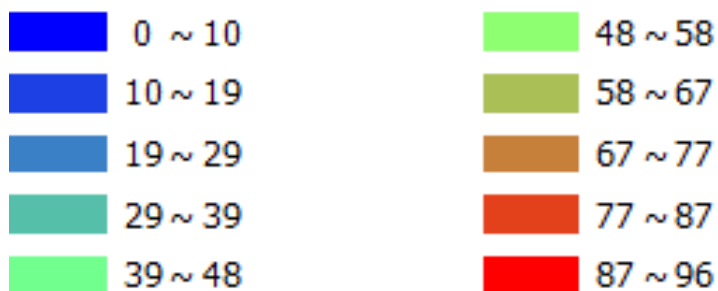
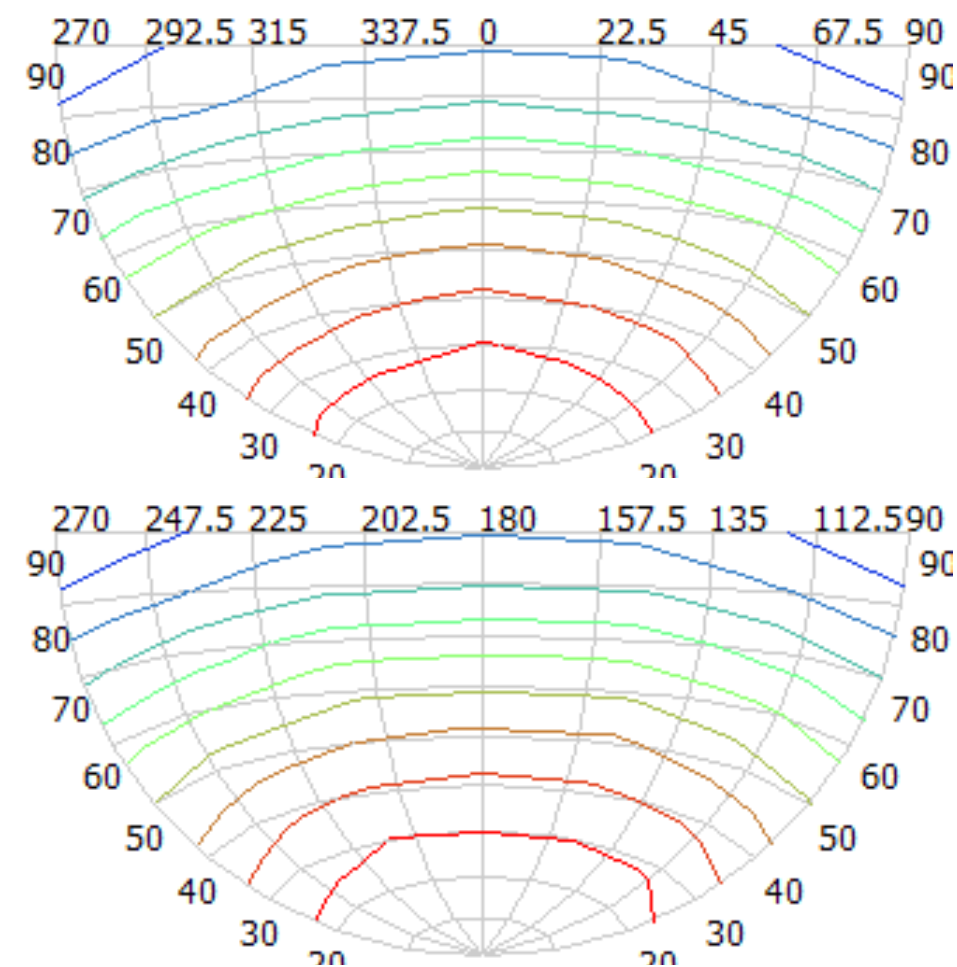
Total Lamp Lumens: 362
 Luminaire Efficiency (lm/W):362.13
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.29	2.29	0.63	0.63
10	18.00	20.29	5.60	5.60
20	34.16	54.45	15.04	15.04
30	46.32	100.77	27.83	27.83
40	53.13	153.90	42.50	42.50
50	54.04	207.94	57.43	57.42
60	48.28	256.22	70.76	70.75
70	37.37	293.59	81.08	81.07
80	22.90	316.49	87.41	87.40
90	13.11	329.60	91.03	91.02
100	12.54	342.14	94.49	94.48
110	11.01	353.15	97.53	97.52
120	7.37	360.52	99.56	99.55
130	1.62	362.13	100.01	100.00

Luminaire

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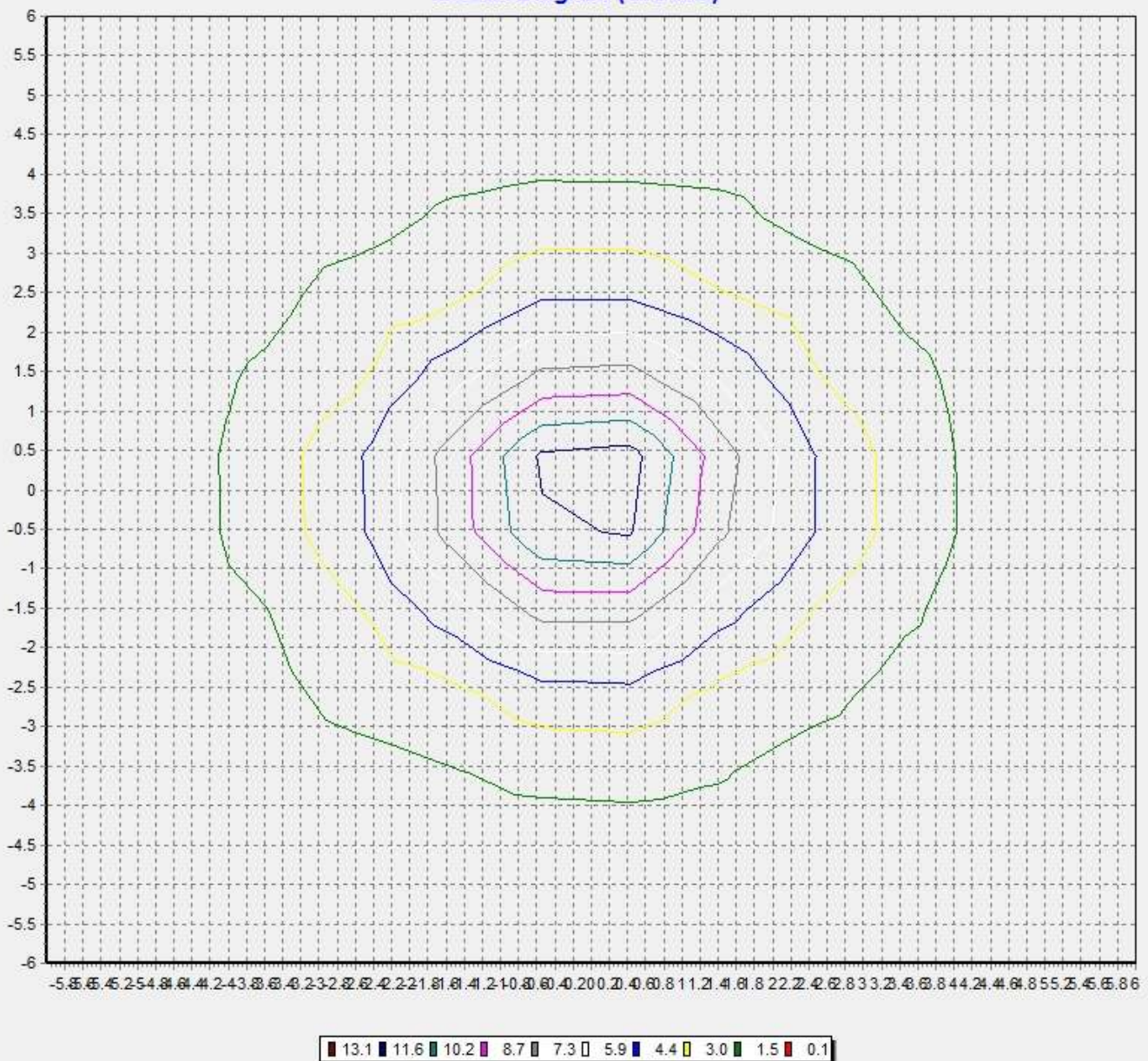
IsoCandela (Type C)



Luminaire

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IsoLux Diagram (Ground)



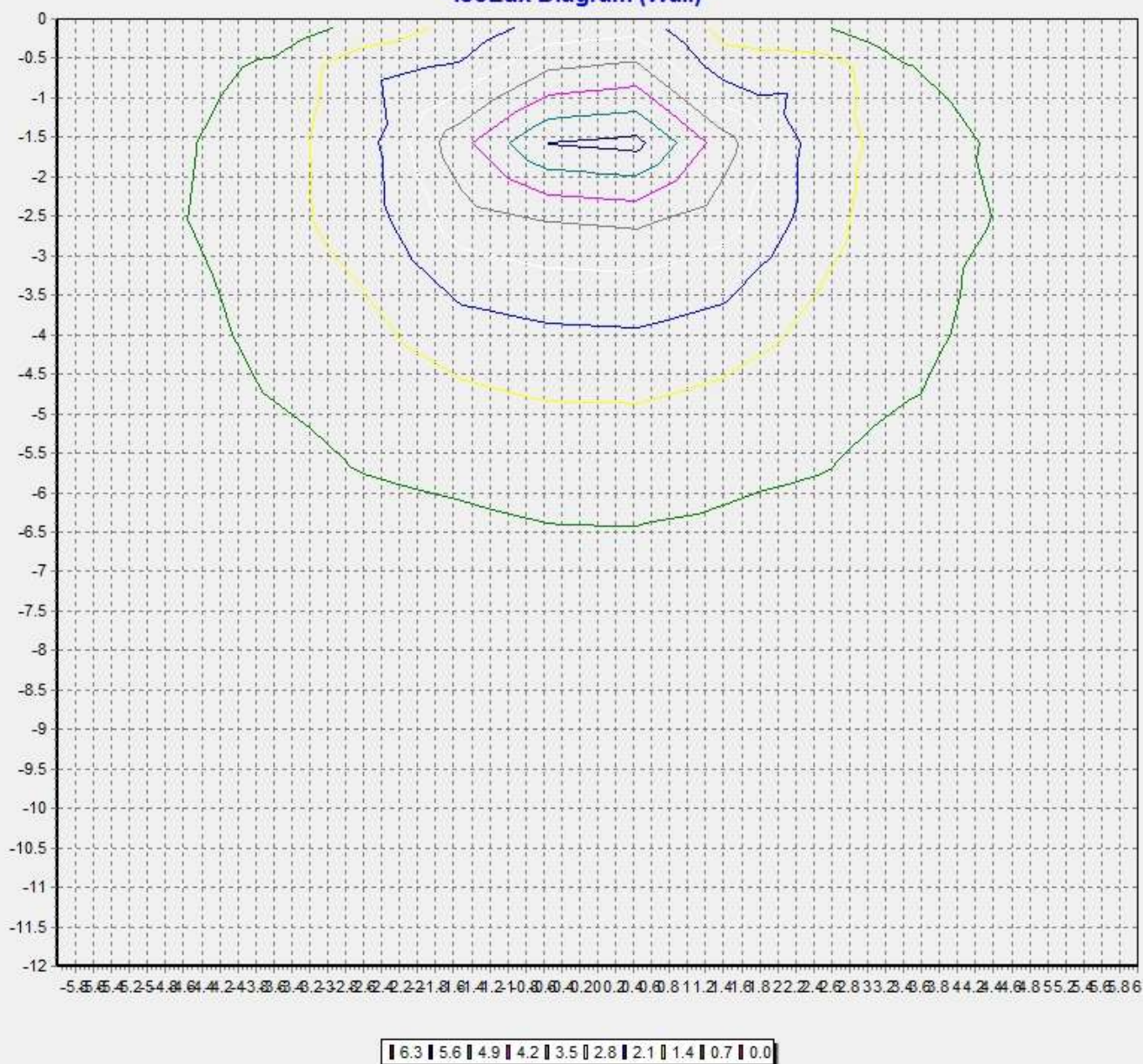
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

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IsoLux Diagram (Wall)



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

Luminaire

Lamp				Report	190415
No. of lamps	1	Voltage (V)	23.98	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190415 MNP4 40K-24V-C90.jdt
Lamp flux (lm)	362	Current (A)	0.18	Operator	CGR
Total flux (lm)	362	Power Factor	1	Date	2019-04-15 오후 12:04:42

Illuminance Levels (Ground)

6.00	0.17	0.21	0.18	0.27	0.31	0.35	0.33	0.33	0.34	0.29	0.20	0.23	0.20
5.00	0.25	0.21	0.28	0.37	0.71	0.81	0.82	0.80	0.75	0.42	0.31	0.26	0.26
4.00	0.25	0.36	0.60	0.84	0.97	1.15	1.19	1.14	1.03	0.90	0.68	0.36	0.25
3.00	0.28	0.50	0.97	1.07	1.99	2.33	2.49	2.45	2.09	1.22	0.97	0.49	0.30
2.00	0.36	0.75	0.99	2.22	2.95	4.70	5.30	4.83	3.23	2.23	1.04	0.77	0.37
1.00	0.44	0.94	1.37	2.49	4.75	8.13	10.63	8.36	4.87	2.55	1.31	0.90	0.41
0.00	0.46	1.00	1.49	2.95	5.83	10.84	13.22	10.77	5.82	2.91	1.46	0.98	0.45
-1.00	0.44	0.94	1.37	2.59	4.94	8.42	10.54	7.97	4.58	2.36	1.31	0.91	0.42
-2.00	0.39	0.79	1.08	2.25	3.28	4.91	5.26	4.54	2.87	2.13	0.92	0.71	0.32
-3.00	0.32	0.50	0.99	1.26	2.11	2.49	2.48	2.25	1.97	1.03	0.91	0.45	0.25
-4.00	0.26	0.37	0.69	0.91	1.06	1.14	1.18	1.14	0.91	0.83	0.58	0.32	0.23
-5.00	0.26	0.27	0.32	0.42	0.77	0.80	0.82	0.81	0.68	0.36	0.26	0.19	0.23
-6.00	0.20	0.24	0.21	0.31	0.36	0.32	0.32	0.34	0.29	0.24	0.17	0.21	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.): 13.2

All illuminance level values are in lux.

Illum. (Min.): 0.16

Illum. Avg.: 1.68

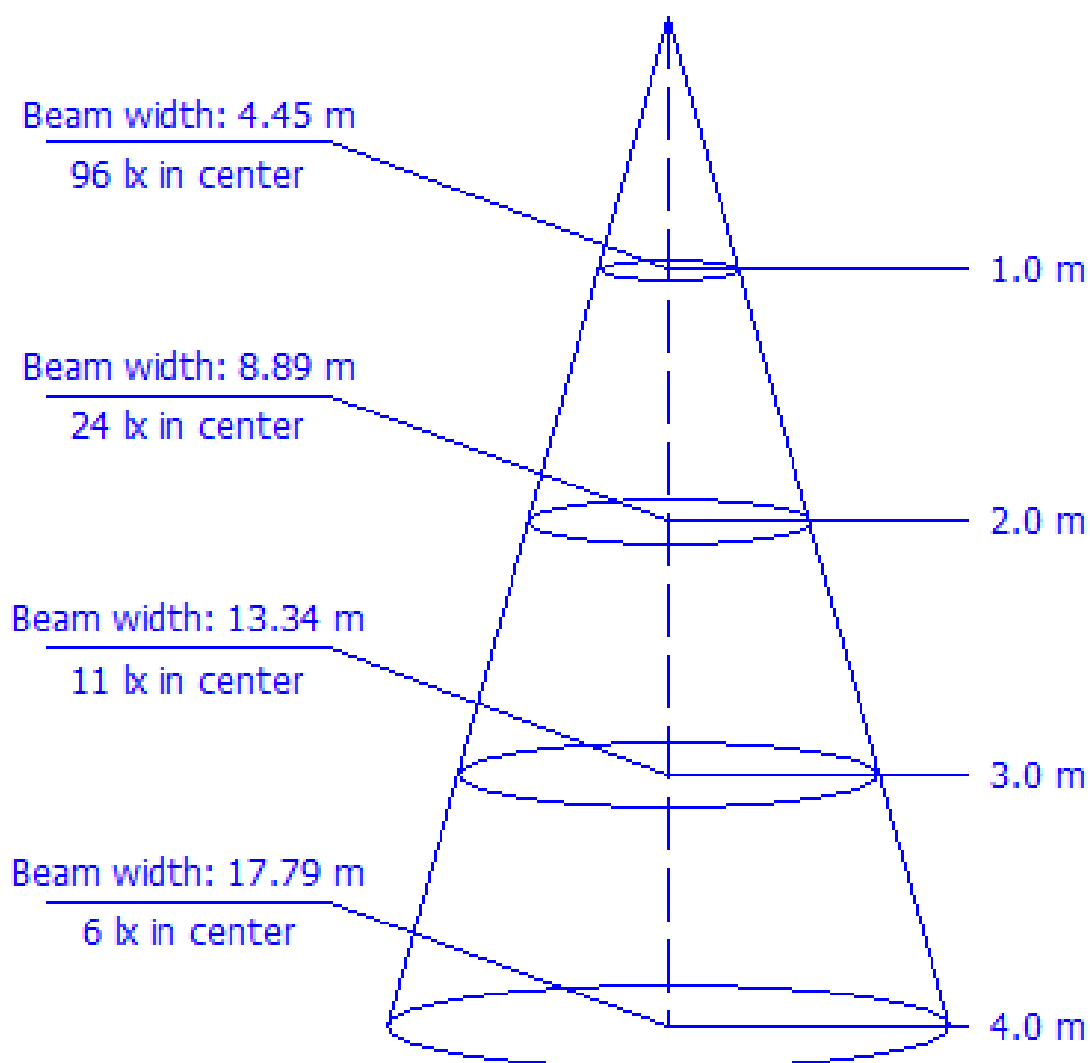
Total Optical Solution Provider


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

Luminaire

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Illuminance Cone Diagram



Beam Angle = 132 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp

Report

190415

No. of lamps 1 Voltage (V) 23.98

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190415 MNP4 40K-24V-C90.jdt

Lamp flux (lm) 362 Current (A) 0.18

Operator CGR

Total flux (lm) 362 Power Factor 1

Date 2019-04-15 오후 12:04:42

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