

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 : 190311

2. Purpose of Report :

3. Test Standard / Item : LED / 190311 NDV15 40K-24V-C90-6

4. Test Period : 190311 ~ 190311

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 JC.K	Technical manager JC.K
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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
190311-0004	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3883, 0.3821	
Correlated Color Temperature	K	3843	
Ra	-	94.21	
Power Factor	%	1.000	
Input Voltage	V	23.930	
Input Current	A	0.636	
Input Watt	W	15.23	
Lamp Flux	lm	1012.1	
Efficient	lm/W	66.50	
Illuminance	lx	397	1 m
		99	2 m
		44	3 m

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

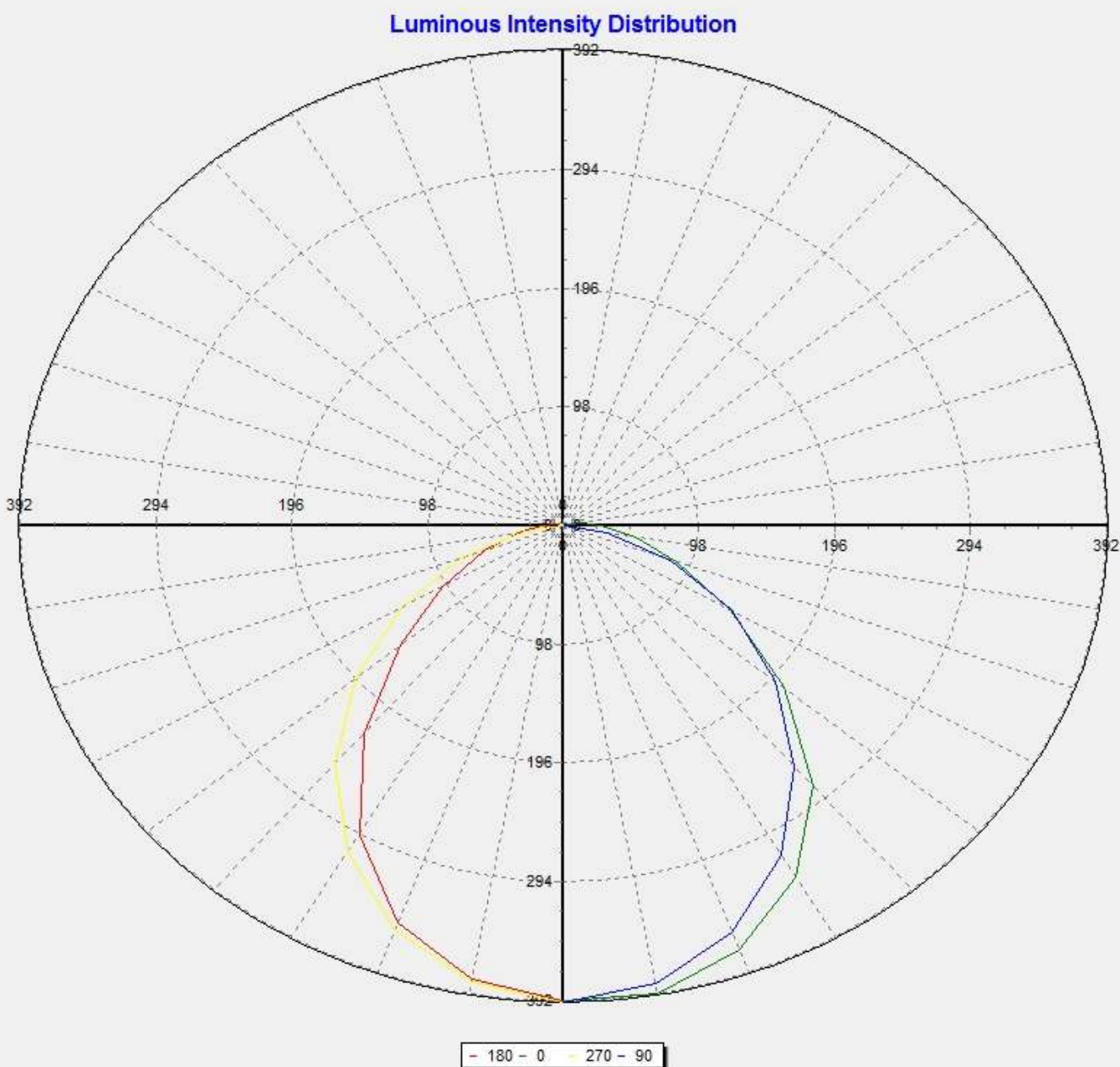
Sample photo

Click to load image

Luminaire

Lamp	Report			190311-0004
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190311 NDV15 40K-24V-C90-6.jdt			
Lamp flux (lm)	101Operator	Current (A)	0.636	CGR
Total flux (lm)	101Date	Power Factor	1	2019-03-11 오후 2:34:17

CGR

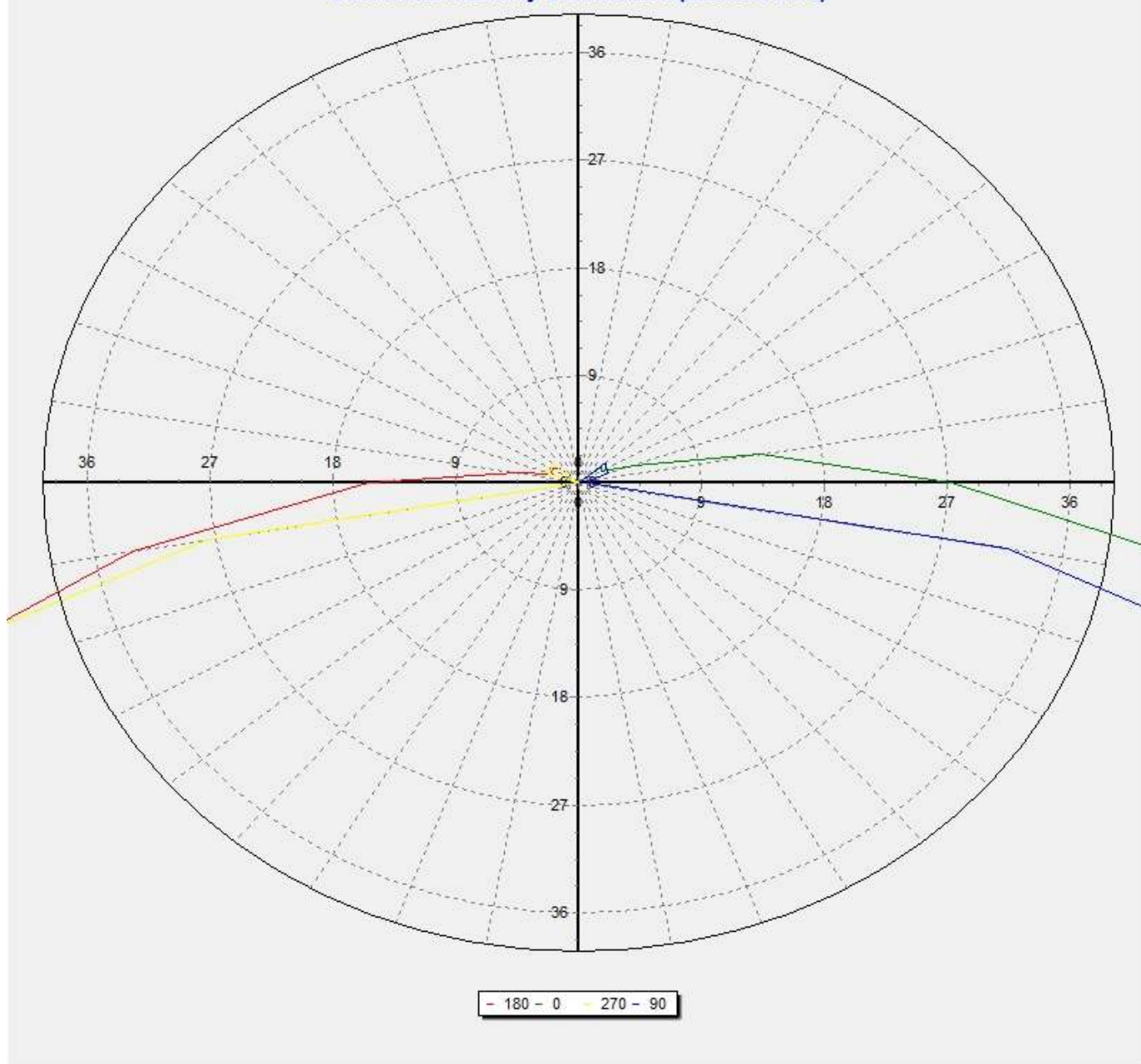


All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp	Report	190311-0004
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190311 NDV15 40K-24V-C90-6.jdt	
Lamp flux (lm)	101Operator	Current (A) 0.636 CGR
Total flux (lm)	101Date	Power Factor 1 2019-03-11 오후 2:34:17

Luminous Intensity Distribution (Lowest 10%)



All luminous intensity values are in Cd/Klm unit.

Luminaire

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Lamp flux (lm)	101Operator	Current (A) 0.636 CGR
Total flux (lm)	101Date	Power Factor 1 2019-03-11 오후 2:34:17

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	397.30	397.25	398.93	397.99	398.21	399.22	397.30	397.25	398.93	397.99	398.21	399.22	397.30
10	396.48	394.44	392.15	388.60	387.45	387.24	384.07	385.84	385.33	387.10	390.57	393.68	396.48
20	376.75	373.19	367.38	360.98	358.17	357.68	352.66	354.13	353.94	358.91	365.18	372.15	376.75
30	338.64	334.79	328.71	317.78	314.99	308.49	297.78	302.81	309.24	314.57	323.93	332.54	338.64
40	283.17	280.93	275.73	263.21	256.77	243.26	226.83	235.70	249.70	259.53	269.55	275.36	283.17
50	210.41	212.95	214.17	202.63	193.00	173.97	155.39	166.18	184.94	197.51	206.87	205.78	210.41
60	141.21	144.62	150.56	141.73	130.55	114.57	101.26	108.64	123.43	136.31	142.46	137.70	141.21
70	88.32	90.85	92.30	84.02	76.38	68.77	61.04	64.54	70.52	79.23	84.91	84.66	88.32
80	53.58	51.37	45.05	32.23	33.41	36.67	33.61	32.97	28.90	27.98	39.95	47.62	53.58
90	27.65	25.17	14.30	0.67	8.99	15.59	15.57	13.22	6.08	-0.21	11.87	23.34	27.65
100	13.71	10.84	3.20	0.77	2.33	4.03	4.67	2.80	1.75	0.46	3.09	9.15	13.71
110	4.37	3.30	1.12	2.33	2.63	1.73	2.08	2.38	2.71	2.56	1.34	2.86	4.37
120	1.95	1.72	1.69	2.37	2.46	2.87	2.46	2.02	3.16	2.37	2.62	2.03	1.95
130	2.16	2.82	1.94	2.63	2.83	2.07	1.86	2.72	2.41	2.44	1.67	2.68	2.16

Luminaire

Lamp	Report	190311-0004
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190311 NDV15 40K-24V-C90-6.jdt	
Lamp flux (lm)	1010Operator	Current (A) 0.636 CGR
Total flux (lm)	101Date	Power Factor 1 2019-03-11 오후 2:34:17

Luminous Flux Table

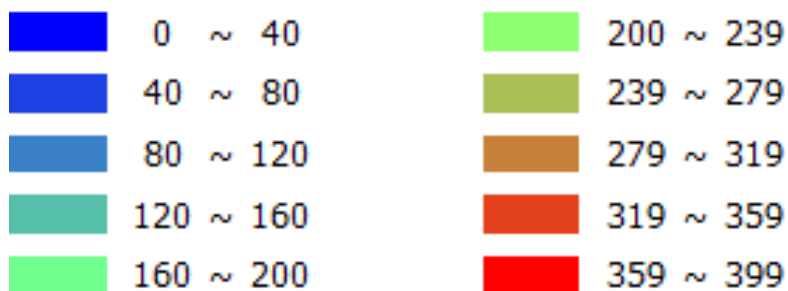
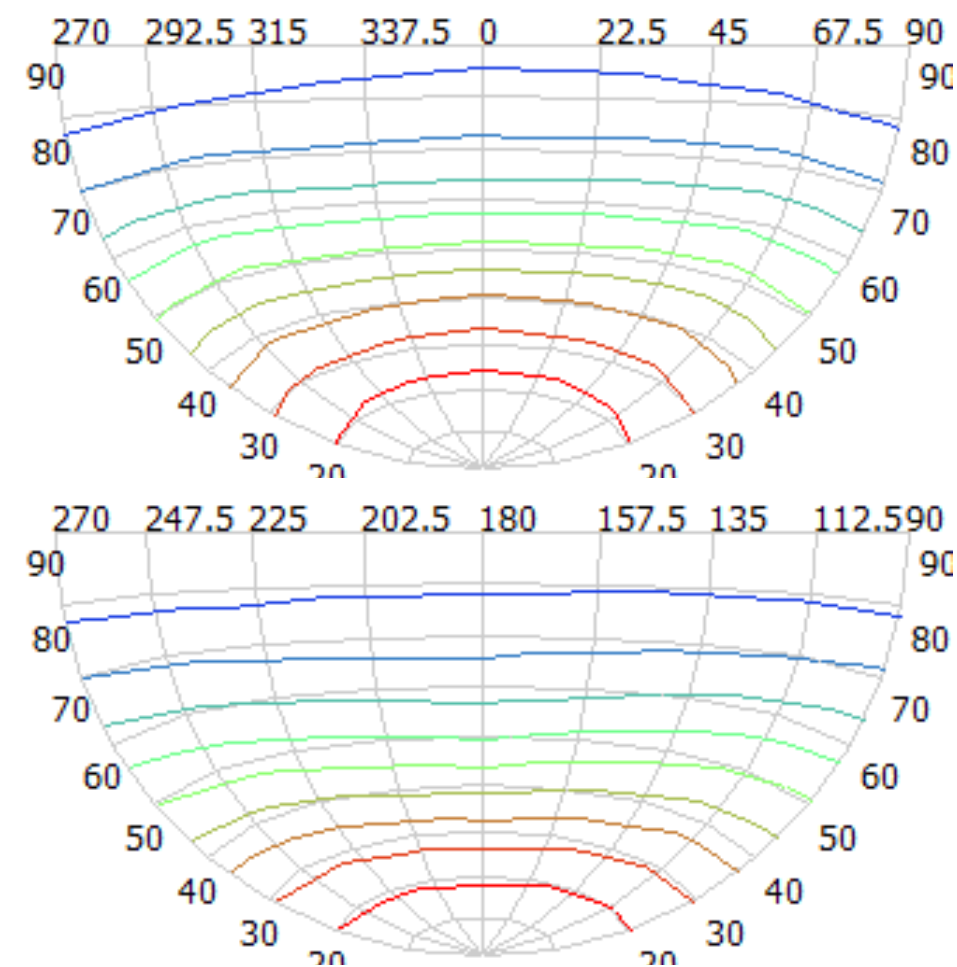
Total Lamp Lumens: 1012
 Luminaire Efficiency (lm/W) 1012.15
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	9.52	9.52	0.94	0.94
10	74.06	83.58	8.26	8.26
20	135.82	219.40	21.68	21.68
30	174.52	393.92	38.92	38.92
40	183.02	576.95	57.01	57.00
50	162.47	739.42	73.06	73.05
60	124.34	863.76	85.34	85.34
70	81.10	944.85	93.36	93.35
80	41.65	986.50	97.47	97.47
90	14.81	1001.30	98.93	98.93
100	5.11	1006.41	99.44	99.43
110	2.52	1008.93	99.69	99.68
120	2.19	1011.13	99.90	99.90
130	1.02	1012.15	100.00	100.00

Luminaire

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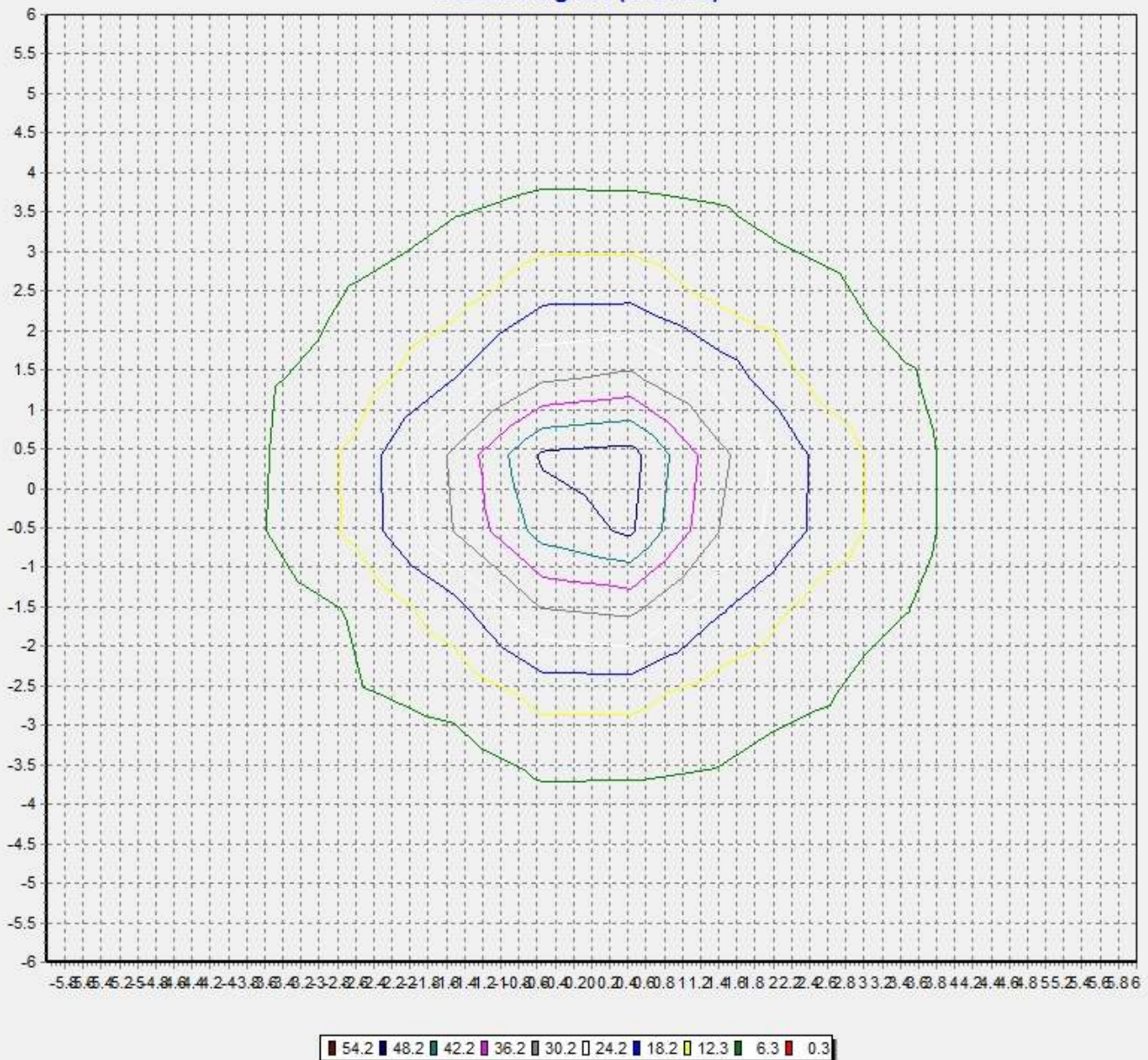
IsoCandela (Type C)



Luminaire

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IsoLux Diagram (Ground)



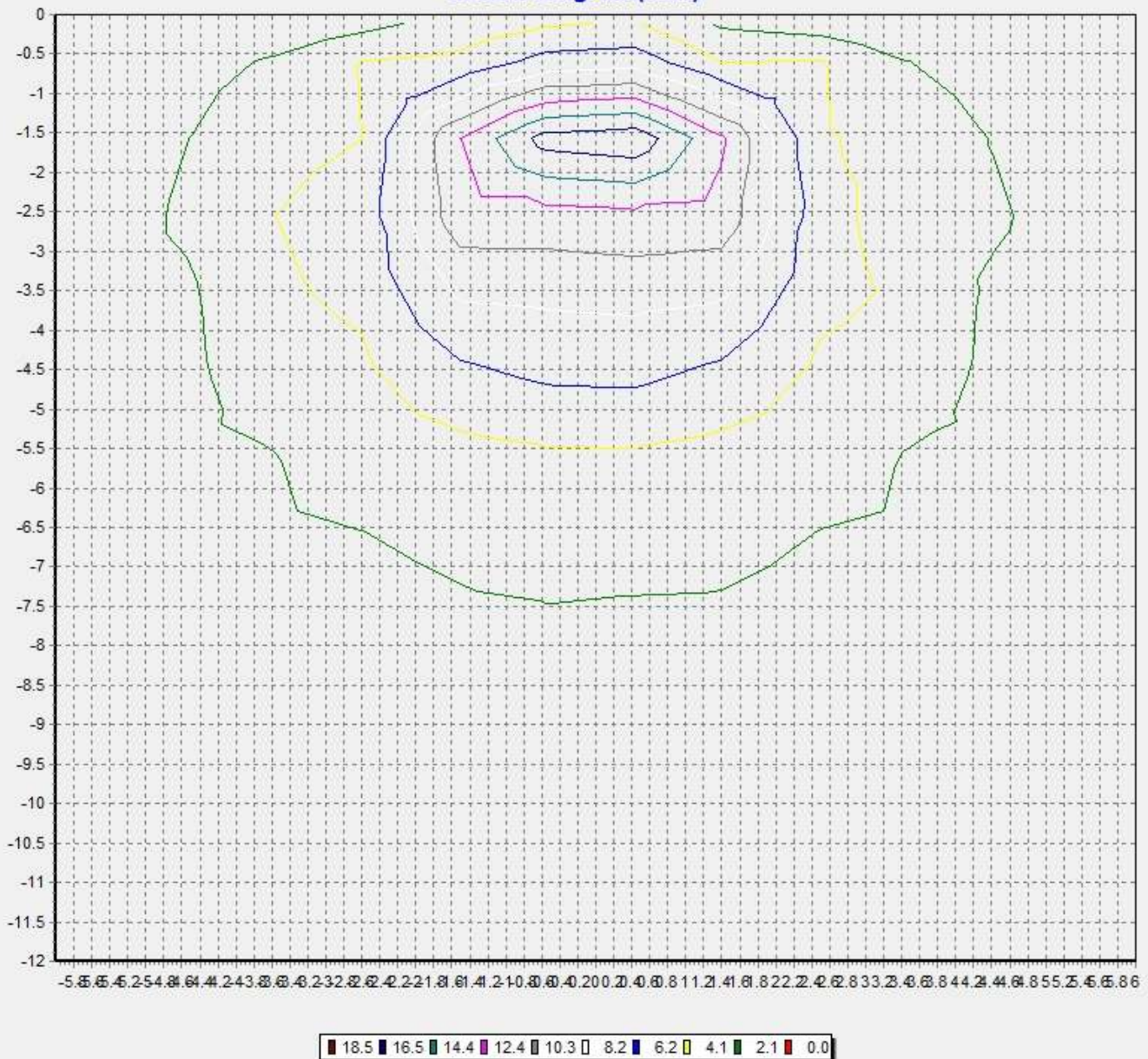
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp	Report	190311-0004
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190311 NDV15 40K-24V-C90-6.jdt	
Lamp flux (lm)	101Operator	Current (A) 0.636 CGR
Total flux (lm)	101Date	Power Factor 1 2019-03-11 오후 2:34:17

IsoLux Diagram (Wall)



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

Luminaire

Lamp

Report

190311-0004

No. of lamps	1	Voltage (V)	23.93	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190311 NDV15 40K-24V-C90-6.jdt
Lamp flux (lm)	1012	Current (A)	0.636	Operator	CGR
Total flux (lm)	1012	Power Factor	1	Date	2019-03-11 오후 2:34:17

Illuminance Levels (Ground)

6.00	0.47	0.64	0.51	0.63	0.80	1.03	1.03	1.00	0.90	0.72	0.56	0.69	0.50
5.00	0.55	0.53	0.79	1.14	2.16	2.76	2.84	2.73	2.35	1.23	0.87	0.59	0.66
4.00	0.43	0.68	1.87	2.80	2.63	3.76	3.99	3.74	2.90	2.99	1.98	0.84	0.54
3.00	0.61	0.93	2.48	3.21	7.18	7.50	8.82	8.14	7.58	3.39	2.94	1.16	0.72
2.00	0.74	2.06	2.57	6.59	9.96	16.27	20.08	17.69	10.73	7.68	2.88	2.34	0.88
1.00	0.73	2.12	2.84	7.09	16.13	31.14	43.86	32.97	17.75	8.09	3.64	2.72	0.98
0.00	0.74	2.16	2.96	6.96	17.90	43.33	54.50	44.78	21.52	9.23	4.06	2.93	1.05
-1.00	0.77	2.18	2.86	6.21	14.86	29.83	43.69	31.40	17.06	7.87	3.65	2.73	0.99
-2.00	0.63	1.78	2.16	6.07	8.43	15.02	19.83	16.95	10.16	7.47	2.83	2.28	0.85
-3.00	0.52	0.82	2.19	2.52	6.71	6.64	8.62	7.75	7.12	3.29	2.87	1.12	0.68
-4.00	0.38	0.59	1.49	2.51	2.21	3.38	3.87	3.37	2.82	2.79	1.91	0.81	0.52
-5.00	0.48	0.41	0.67	0.98	1.87	2.53	2.76	2.49	2.26	1.09	0.78	0.54	0.64
-6.00	0.36	0.55	0.43	0.53	0.68	0.90	0.98	0.87	0.84	0.68	0.49	0.64	0.48
-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.): 54.5

All illuminance level values are in lux.

Illum. (Min.): 0.36

Illum. Avg.: 5.66

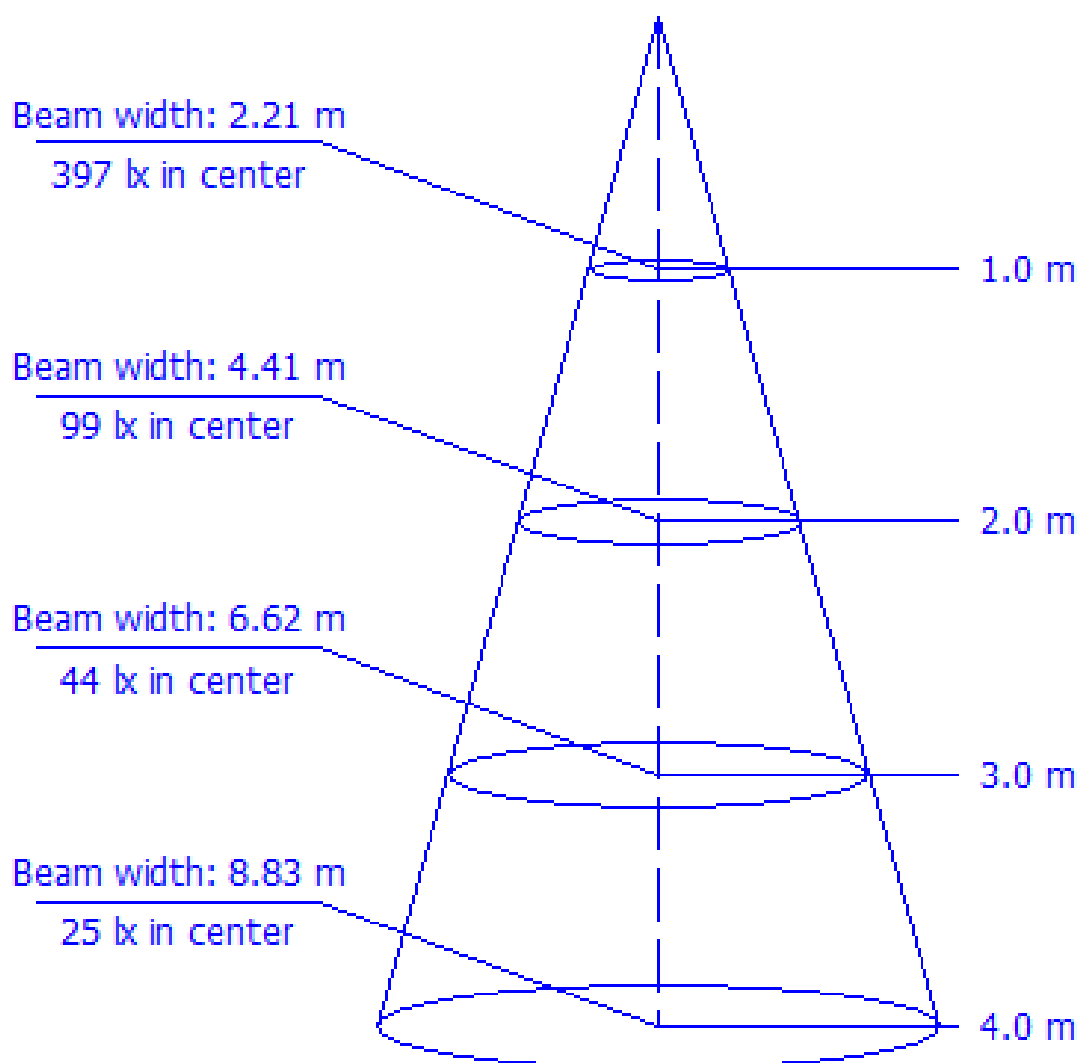
Total Optical Solution Provider


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

Luminaire

Lamp	Report			190311-0004
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190311 NDV15 40K-24V-C90-6.jdt			
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Total flux (lm)	101	Date	Power Factor	1 2019-03-11 오후 2:34:17

Illuminance Cone Diagram



Beam Angle = 96 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp

Report

190311-0004

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Total flux (lm)	1012	Power Factor	1	Date	2019-03-11 오후 2:34:17

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