

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 : 190313

2. Purpose of Report :

3. Test Standard / Item : LED / 190313 HDV12 40K-24V-C90-3

4. Test Period : 190313 ~ 190313

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
190313	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3882, 0.3840	
Correlated Color Temperature	K	3859	
Ra	-	93.06	
Power Factor	%	1.000	
Input Voltage	V	23.950	
Input Current	A	0.481	
Input Watt	W	11.53	
Lamp Flux	lm	904.8	
Efficient	lm/W	78.54	
Illuminance	lx	339	1 m
		85	2 m
		38	3 m

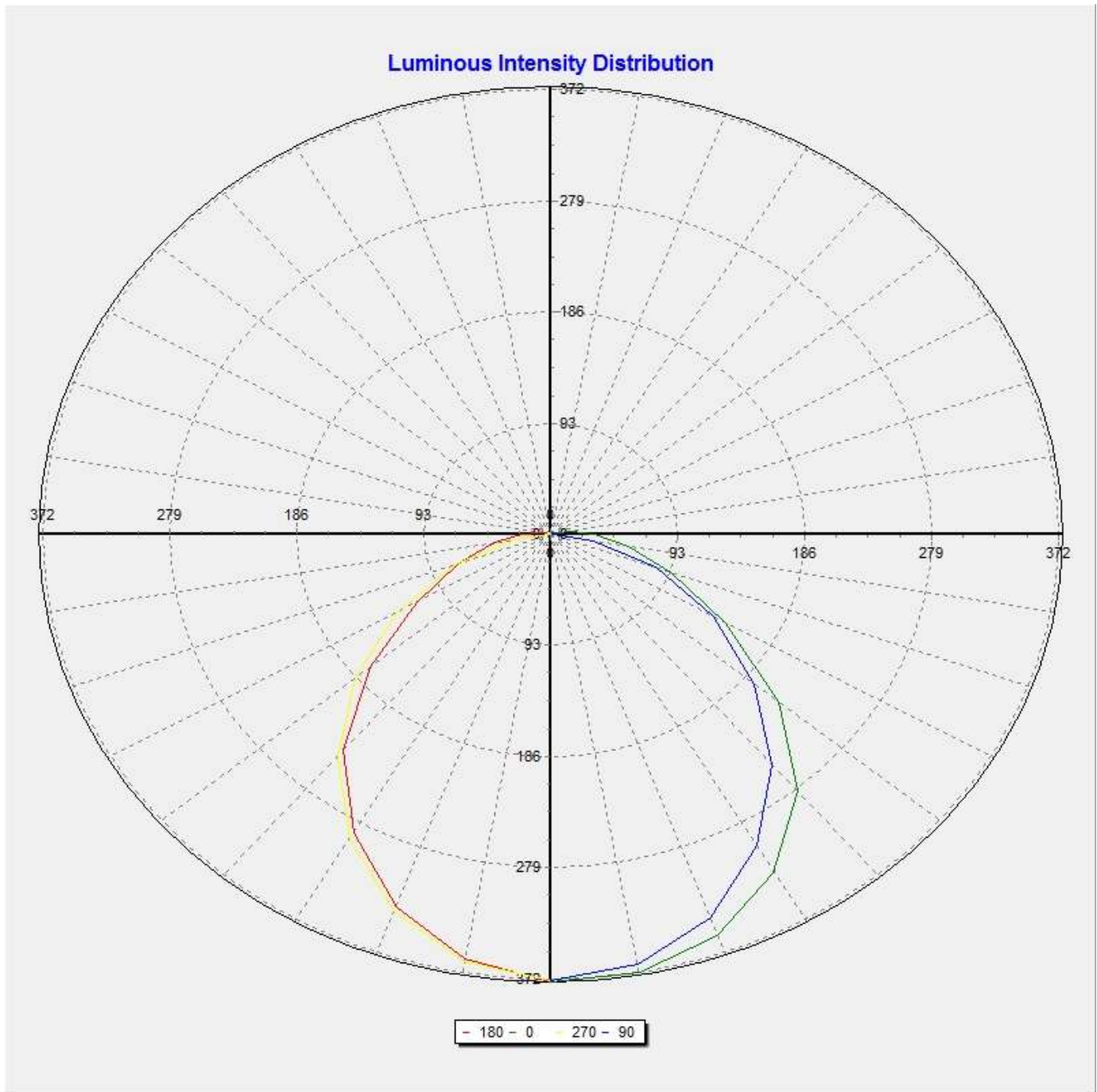
* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

Lamp	Report	190313
No. of lamps	1Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV12 40K-24V-C90-3.jdt	
Lamp flux (lm)	905Operator	Current (A) 0.481 CGR
Total flux (lm)	905Date	Power Factor 1 2019-03-13 오전 11:36:28

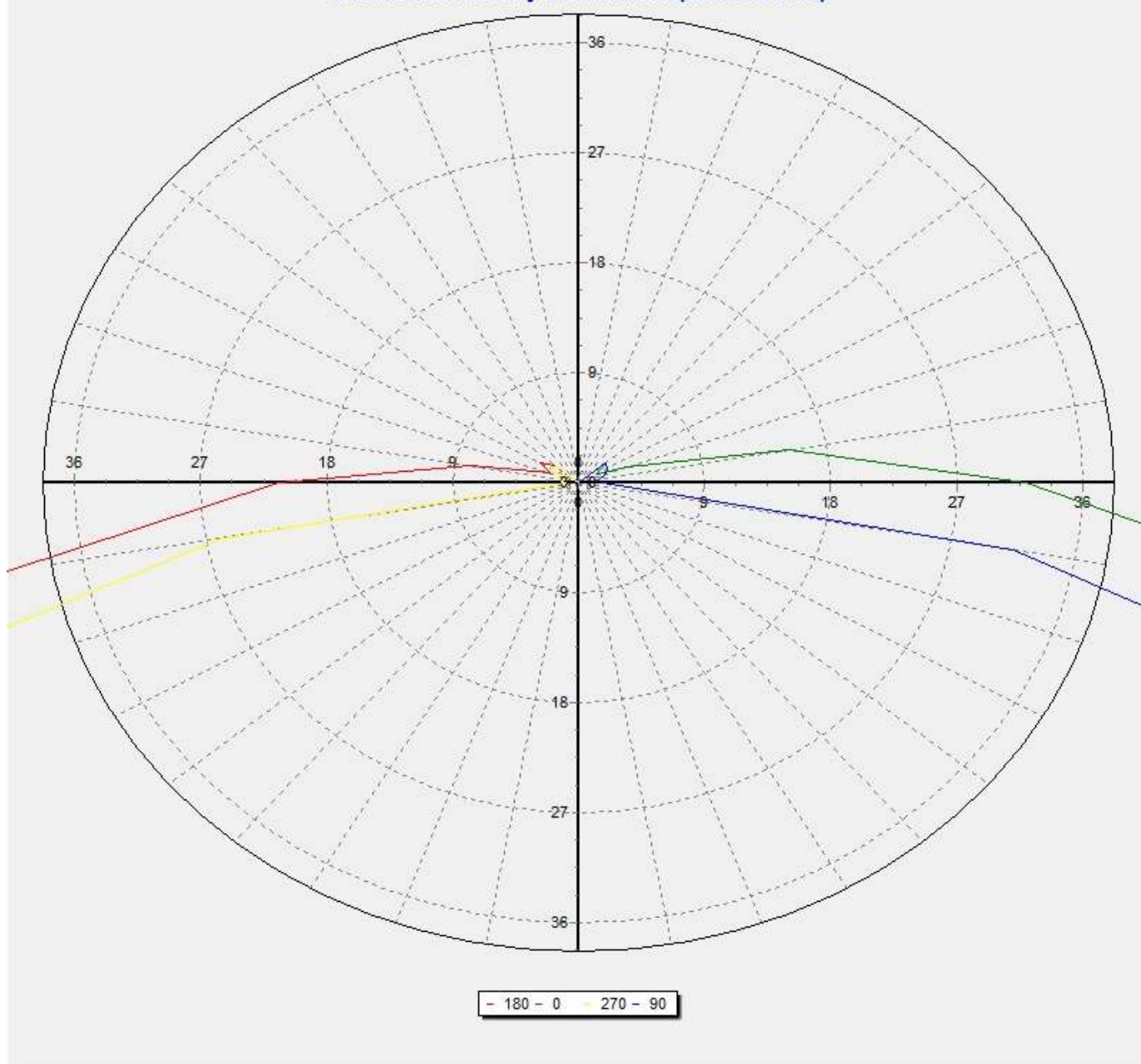


All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp	Report	190313
No. of lamps	1Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV12 40K-24V-C90-3.jdt	
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Luminous Intensity Distribution (Lowest 10%)



All luminous intensity values are in Cd/Klm unit.

Luminaire

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No. of lamps	JFilename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV12 40K-24V-C90-3.jdt				
Lamp flux (lm)	905Operator	Current (A)	0.481	CGR	
Total flux (lm)	905Date	Power Factor	1	2019-03-13 오전 11:36:28	

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	339.18	338.90	338.95	338.08	337.73	337.60	339.18	338.90	338.95	338.08	337.73	337.60	339.18
10	337.12	336.06	333.55	330.84	329.81	328.11	326.95	326.77	326.64	328.61	330.42	332.94	337.12
20	323.35	320.12	314.47	308.80	306.44	303.45	300.15	300.40	301.16	303.72	308.53	315.19	323.35
30	295.75	291.10	282.14	272.80	269.32	265.61	261.33	261.43	261.05	266.64	274.59	285.09	295.75
40	254.15	249.94	238.61	227.62	223.07	220.44	213.80	214.87	214.45	219.44	229.23	242.08	254.15
50	197.34	196.27	188.75	176.46	171.91	167.03	156.38	160.85	161.73	169.34	178.93	188.14	197.34
60	134.01	135.94	135.69	124.17	120.14	112.63	102.53	107.15	112.11	116.95	126.00	128.48	134.01
70	84.91	85.68	83.92	74.02	72.45	69.29	64.95	64.78	65.41	67.06	75.73	79.33	84.91
80	52.66	50.00	41.74	28.48	34.33	39.61	37.51	36.57	29.37	23.43	37.75	46.73	52.66
90	28.92	25.54	15.31	1.50	10.52	18.71	19.44	17.27	8.33	0.81	12.18	23.65	28.92
100	13.78	9.95	2.85	1.33	1.97	6.00	7.15	5.08	1.38	1.32	1.60	9.55	13.78
110	3.38	1.25	1.61	1.84	1.53	1.39	2.01	1.87	1.92	1.38	1.73	1.97	3.38
120	1.34	1.62	1.21	2.16	2.05	2.24	2.90	1.50	2.29	2.02	1.86	1.96	1.34
130	2.14	1.69	1.99	2.33	2.38	2.79	2.04	2.13	1.89	1.81	1.99	2.26	2.14

Luminaire

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No. of lamps	1	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV12 40K-24V-C90-3.jdt
Lamp flux (lm)	905	Operator Current (A) 0.481 CGR
Total flux (lm)	905	Date Power Factor 1 2019-03-13 오전 11:36:28

Luminous Flux Table

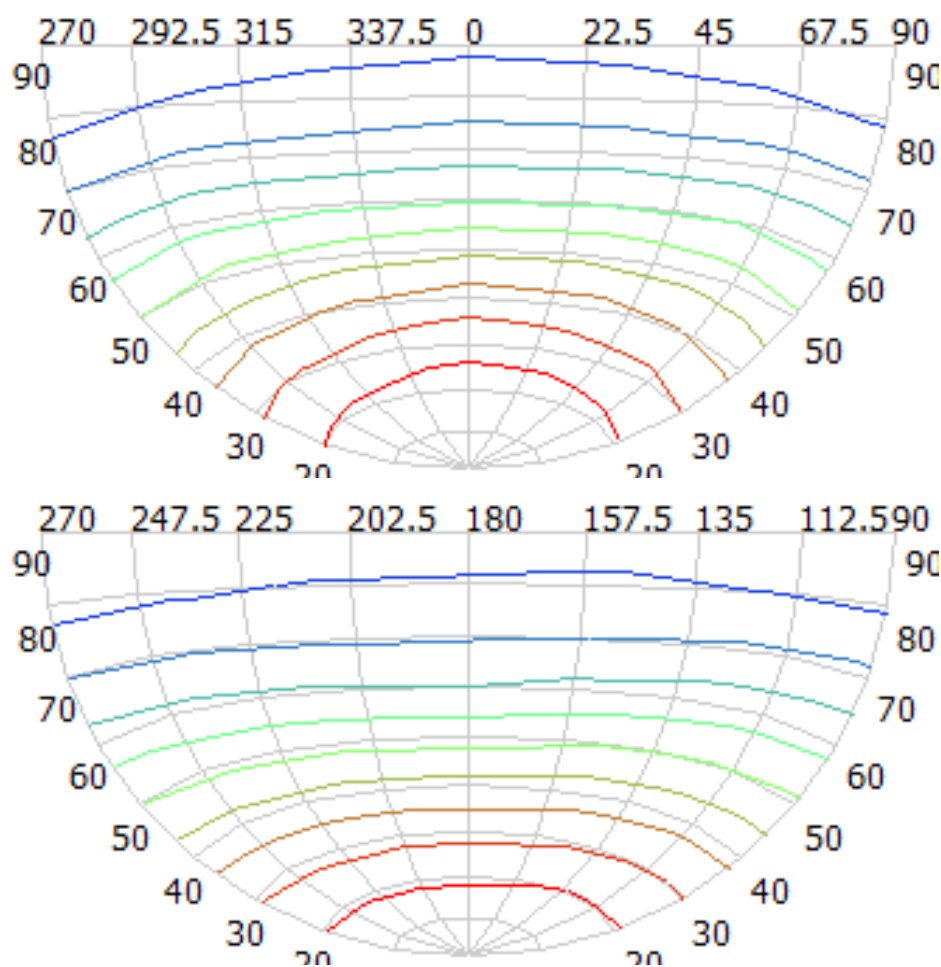
Total Lamp Lumens: 905
 Luminaire Efficiency (lm/W):904.79
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	8.09	8.09	0.89	0.89
10	62.88	70.98	7.84	7.84
20	115.68	186.66	20.63	20.63
30	149.99	336.65	37.21	37.21
40	161.20	497.85	55.02	55.02
50	147.74	645.59	71.35	71.35
60	115.07	760.66	84.07	84.07
70	76.12	836.78	92.48	92.48
80	41.18	877.96	97.03	97.03
90	16.63	894.59	98.87	98.87
100	5.57	900.16	99.49	99.49
110	1.88	902.03	99.69	99.70
120	1.83	903.87	99.90	99.90
130	0.92	904.79	100.00	100.00

Luminaire

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IsoCandela (Type C)

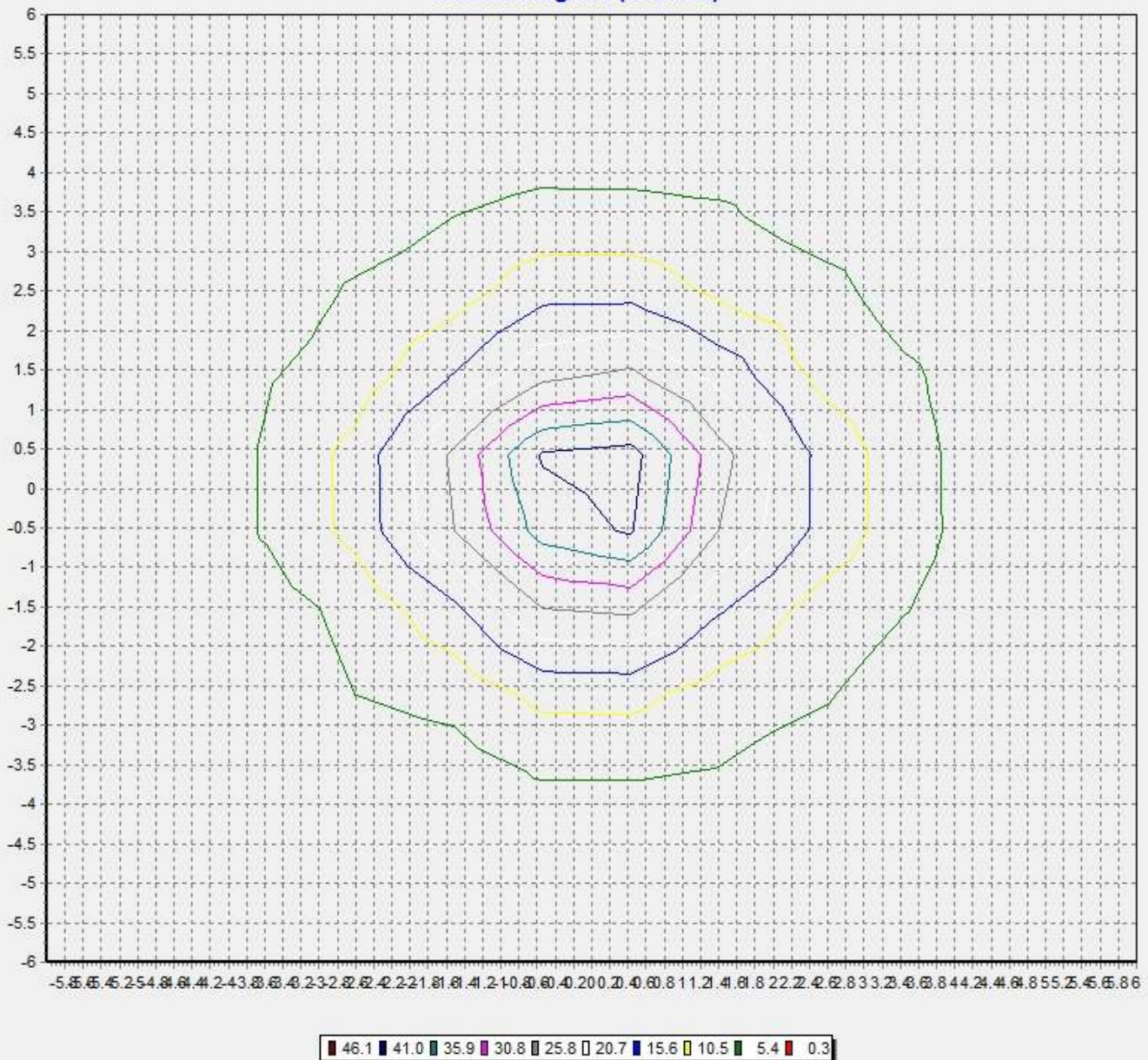


	1 ~ 35		170 ~ 204
	35 ~ 68		204 ~ 238
	68 ~ 102		238 ~ 272
	102 ~ 136		272 ~ 305
	136 ~ 170		305 ~ 339

Luminaire

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IsoLux Diagram (Ground)

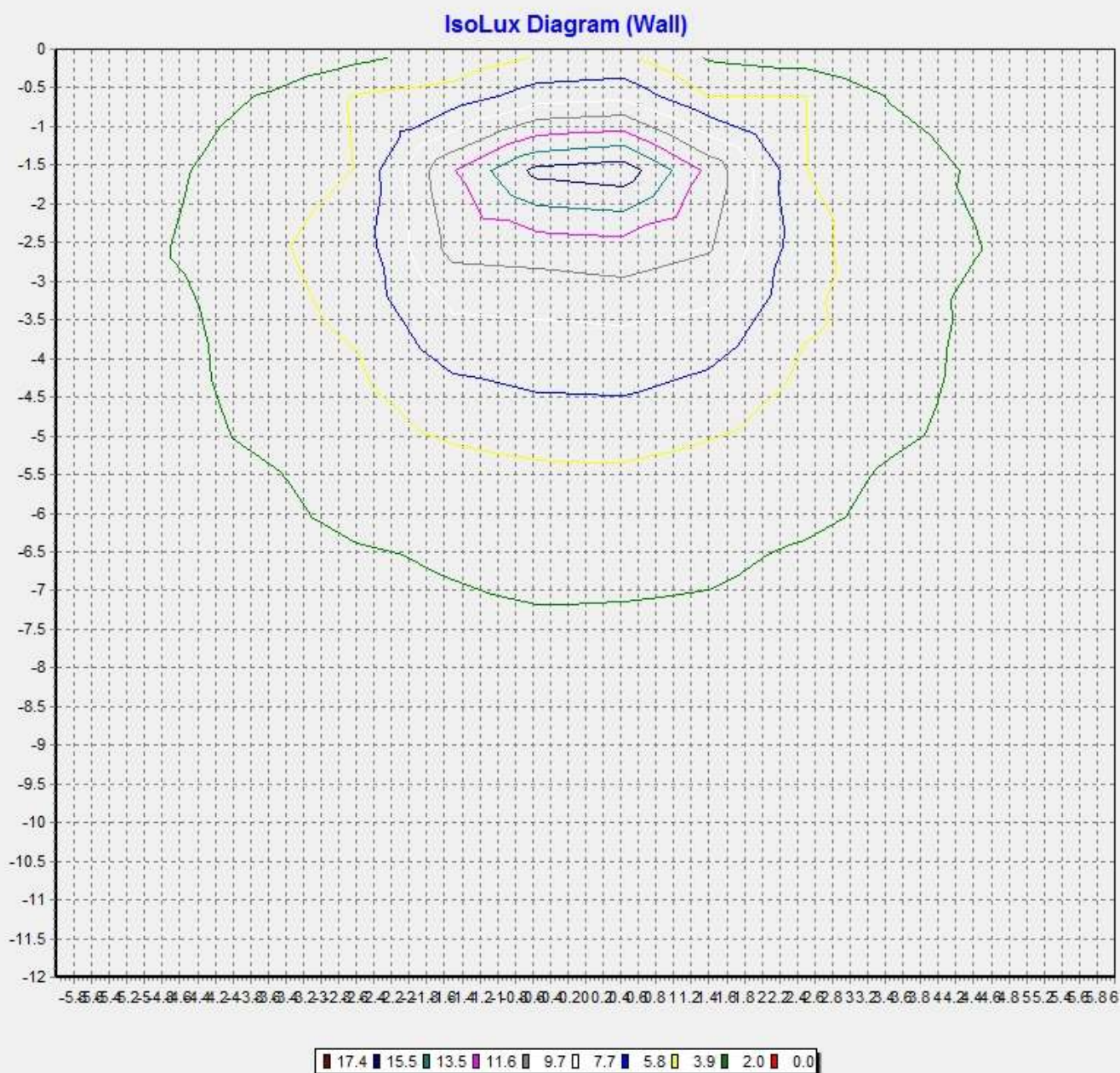


Pole Height (m): 2.7

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

190313

No. of lamps 1 Voltage (V) 23.95

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV12 40K-24V-C90-3.jdt

Lamp flux (lm) 905 Current (A) 0.481

Operator CGR

Total flux (lm) 905 Power Factor 1

Date 2019-03-13 오전 11:36:28

Illuminance Levels (Ground)

6.00	0.42	0.57	0.45	0.58	0.73	0.92	0.90	0.89	0.84	0.68	0.51	0.63	0.47
5.00	0.53	0.48	0.71	1.00	1.92	2.43	2.47	2.39	2.16	1.11	0.80	0.56	0.62
4.00	0.43	0.67	1.65	2.46	2.39	3.32	3.49	3.30	2.70	2.67	1.85	0.80	0.52
3.00	0.58	0.92	2.35	2.87	6.23	6.62	7.66	7.36	6.62	3.19	2.75	1.11	0.68
2.00	0.71	1.89	2.37	6.02	8.71	14.12	17.32	15.68	9.80	6.96	2.70	2.17	0.84
1.00	0.75	2.10	2.81	6.48	14.07	26.67	37.34	28.61	15.79	7.49	3.40	2.51	0.92
0.00	0.77	2.17	2.98	6.89	16.39	36.89	46.53	38.08	19.12	8.57	3.83	2.75	1.00
-1.00	0.77	2.13	2.83	6.08	13.57	25.80	37.08	26.60	14.56	6.95	3.41	2.54	0.94
-2.00	0.64	1.75	2.13	5.79	8.09	13.57	16.78	14.40	8.70	6.60	2.51	2.01	0.77
-3.00	0.52	0.85	2.19	2.51	5.84	6.15	7.36	6.67	6.05	2.86	2.60	1.05	0.61
-4.00	0.40	0.61	1.47	2.26	2.15	2.96	3.32	2.95	2.48	2.40	1.65	0.74	0.48
-5.00	0.48	0.43	0.63	0.90	1.77	2.19	2.37	2.16	1.96	0.93	0.67	0.47	0.59
-6.00	0.37	0.51	0.40	0.52	0.65	0.79	0.84	0.78	0.73	0.60	0.42	0.55	0.42
-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.): 46.5

All illuminance level values are in lux.

Illum. (Min.): 0.37

Illum. Avg.: 5.00

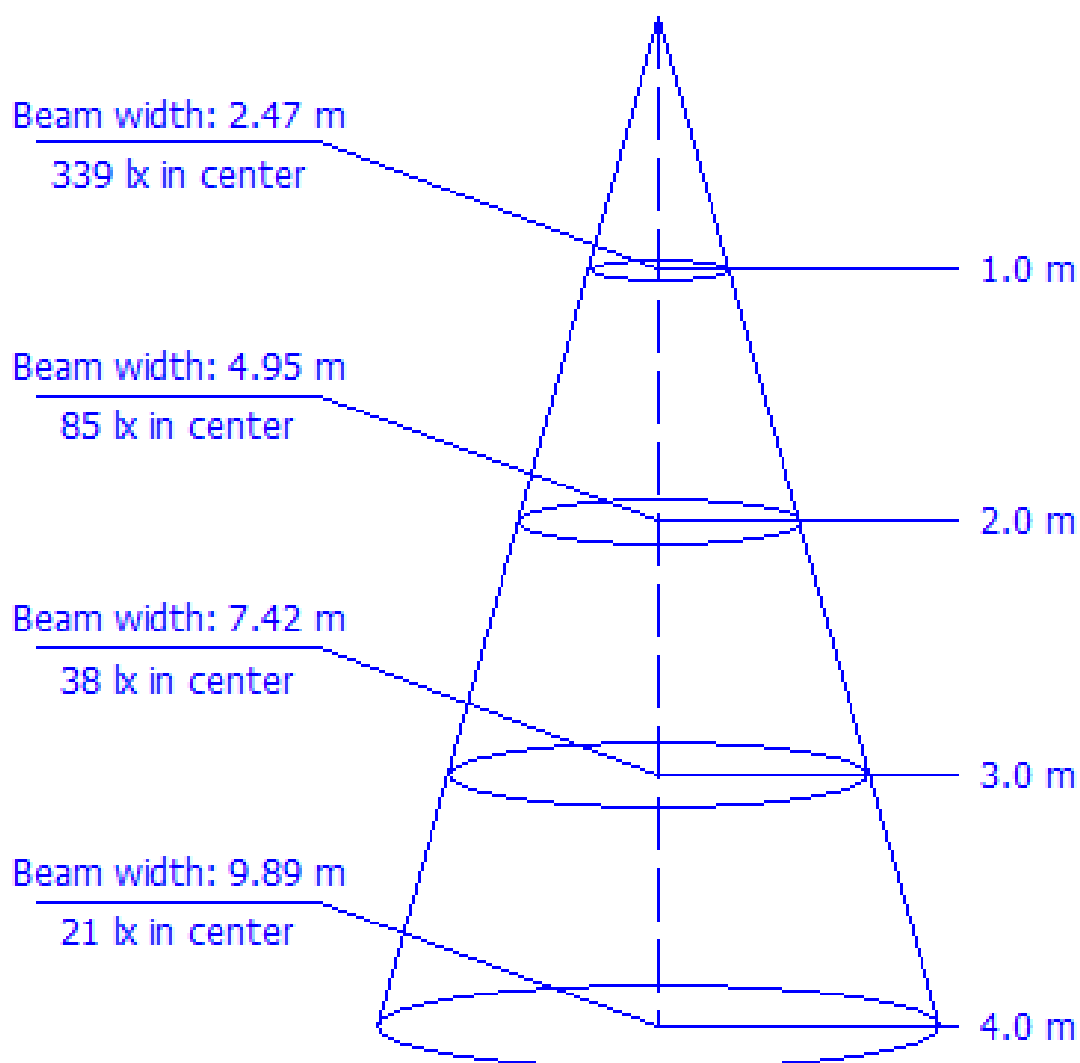
Total Optical Solution Provider


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

Luminaire

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Illuminance Cone Diagram



Beam Angle = 102 deg.

Based on 50% of maximum illuminance.

Luminaire

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No. of lamps	1	Voltage (V)	23.95	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV12 40K-24V-C90-3.jdt
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Total flux (lm)	905	Power Factor	1	Date	2019-03-13 오전 11:36:28

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