

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 HDV3 40K-24V-C90-1

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		0.3860, 0.3815	
Correlated Color Temperature	K	3897	
Ra	-	93.04	
Power Factor	%	1.000	
Input Voltage	V	23.990	
Input Current	A	0.120	
Input Watt	W	2.88	
Lamp Flux	lm	222.4	
Efficient	lm/W	77.25	
Illuminance	lx	84	1 m
		21	2 m
		9	3 m

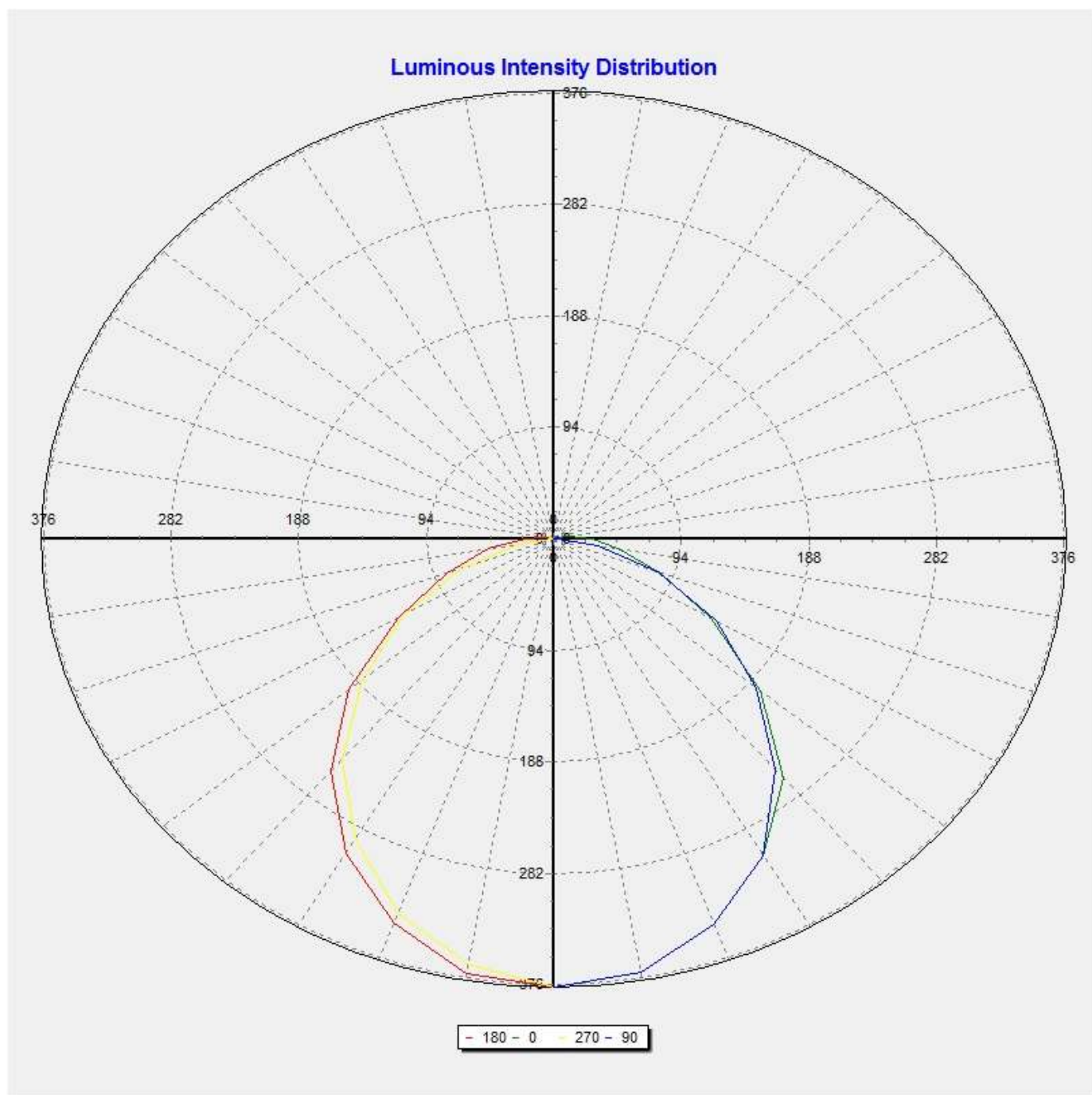
* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

Lamp	Report	190313
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV3 40K-24V-C90-1.jdt	
Lamp flux (lm)	222 Operator	Current (A) 0.12 CGR
Total flux (lm)	222 Date	Power Factor 1 2019-03-13 오전 10:44:44

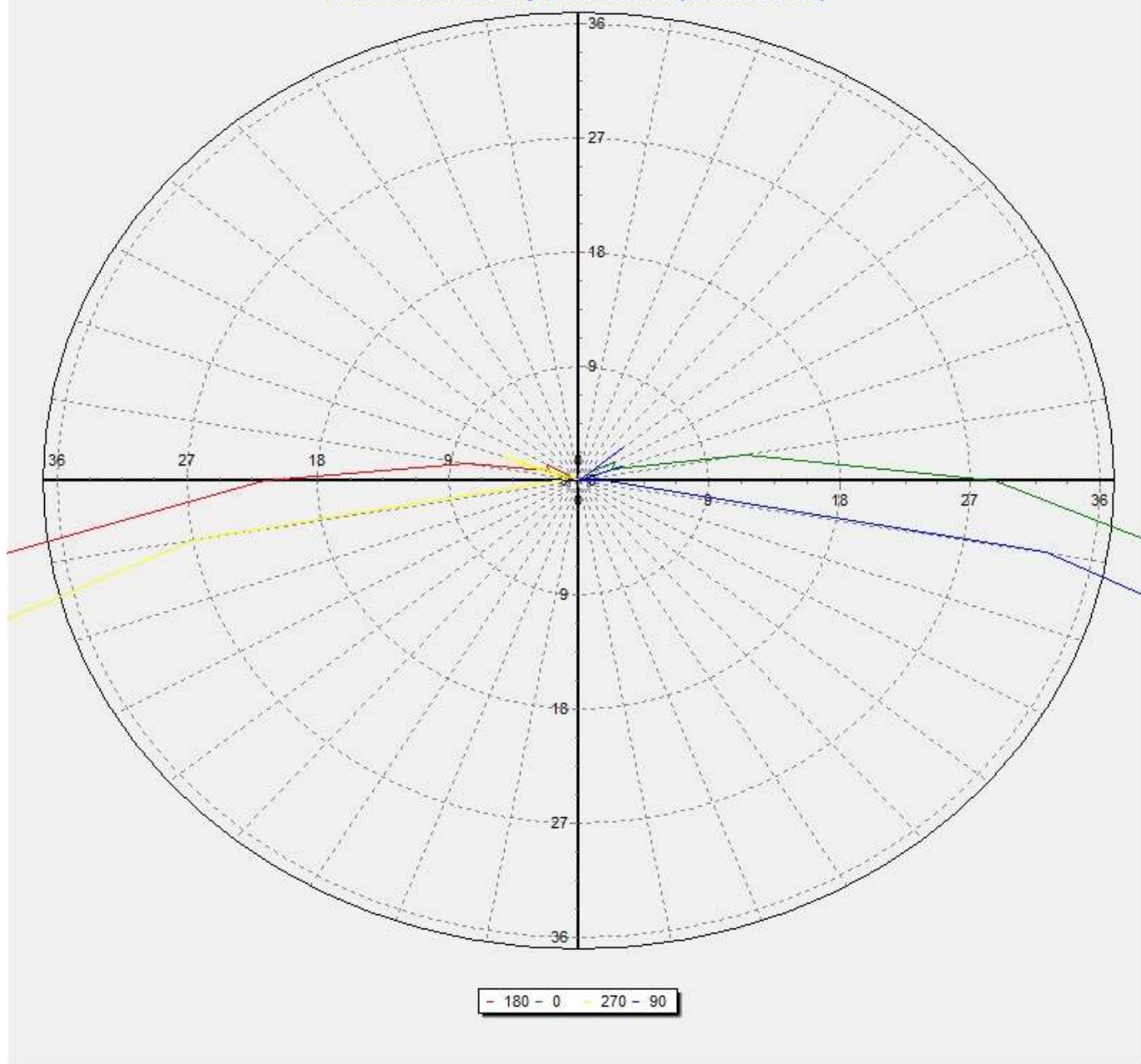


All luminous intensity values are in Cd/KLm unit.

Luminaire

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Luminous Intensity Distribution (Lowest 10%)



All luminous intensity values are in Cd/Klm unit.

Luminaire

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Total flux (lm)	222 Date	Power Factor	1	2019-03-13 오전 10:44:44

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	83.90	83.99	83.75	83.78	83.78	83.91	83.90	83.99	83.75	83.78	83.78	83.91	83.90
10	82.44	82.97	82.49	82.23	82.67	81.59	82.53	81.49	81.88	80.78	81.11	81.46	82.44
20	76.79	76.81	77.17	76.80	77.04	77.01	76.50	75.43	75.22	74.67	75.13	75.09	76.79
30	68.61	68.42	68.33	68.47	68.10	68.45	67.96	67.40	66.10	64.90	65.69	66.55	68.61
40	58.39	58.08	56.52	56.32	56.96	57.88	56.81	55.94	53.95	54.00	54.14	55.87	58.39
50	44.06	45.00	44.62	43.36	44.48	45.68	43.73	43.75	41.18	40.94	40.99	42.18	44.06
60	29.74	30.85	31.72	30.71	31.85	31.99	29.49	30.02	29.41	28.41	29.06	28.63	29.74
70	18.68	19.00	19.08	18.04	19.65	19.82	18.55	18.25	16.79	16.12	17.48	17.56	18.68
80	10.73	11.10	9.12	7.26	9.49	10.99	10.89	10.32	8.48	5.96	7.92	9.89	10.73
90	6.37	4.93	3.50	0.41	3.38	5.06	4.80	5.24	1.94	0.32	2.54	4.51	6.37
100	2.59	1.35	0.24	-0.22	-0.01	1.61	1.74	1.50	0.15	0.17	0.41	1.41	2.59
110	0.57	0.67	0.81	0.71	0.69	0.34	0.50	0.19	0.06	1.23	0.63	-0.12	0.57
120	0.64	0.54	0.37	-0.09	0.68	0.76	0.56	0.17	0.46	0.04	0.56	0.02	0.64
130	0.28	0.10	0.55	0.88	0.58	0.42	0.07	0.92	0.12	0.16	0.30	0.13	0.28

Luminaire

Lamp	Report	190313
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV3 40K-24V-C90-1.jdt	
Lamp flux (lm)	222 Operator	Current (A) 0.12 CGR
Total flux (lm)	222 Date	Power Factor 1 2019-03-13 오전 10:44:44

Luminous Flux Table

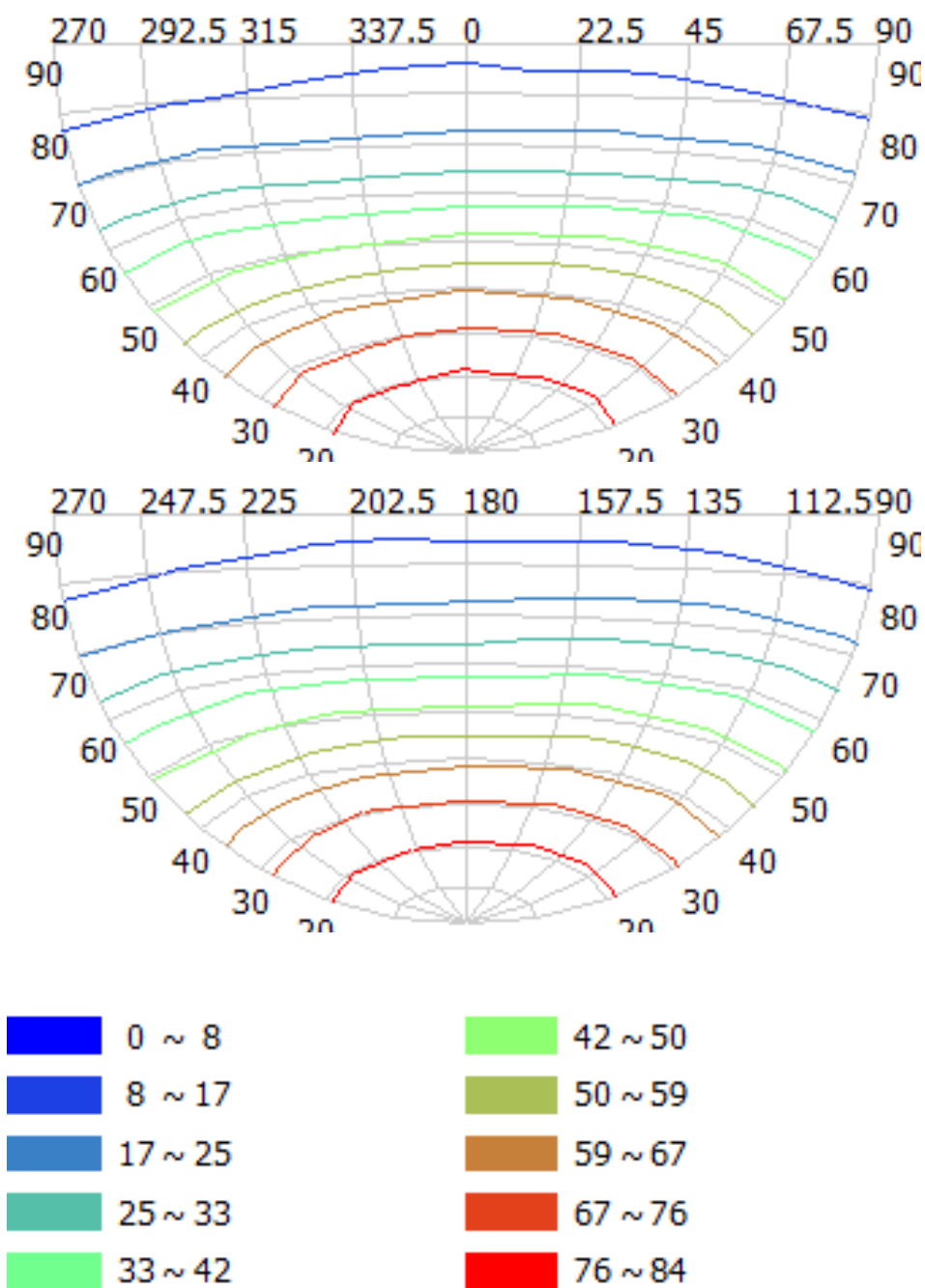
Total Lamp Lumens: 222
 Luminaire Efficiency (lm/W):222.43
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.00	2.00	0.90	0.90
10	15.59	17.59	7.91	7.91
20	28.52	46.12	20.74	20.73
30	36.92	83.03	37.34	37.33
40	39.59	122.63	55.14	55.13
50	36.35	158.98	71.48	71.47
60	28.60	187.58	84.34	84.33
70	18.78	206.37	92.79	92.78
80	10.08	216.45	97.32	97.31
90	3.92	220.37	99.09	99.08
100	0.98	221.35	99.53	99.52
110	0.54	221.89	99.77	99.76
120	0.37	222.26	99.94	99.93
130	0.16	222.43	100.01	100.00

Luminaire

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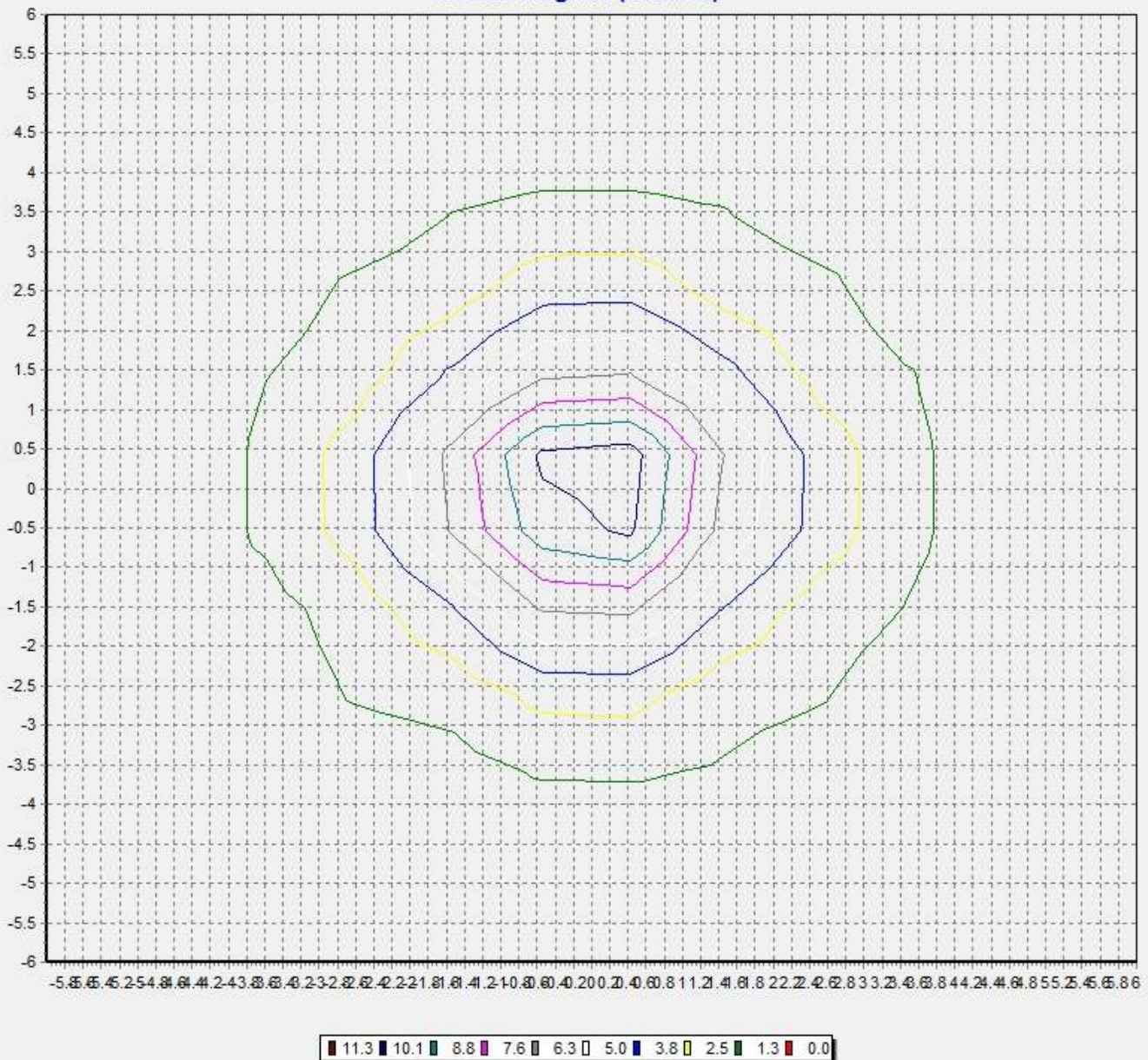
IsoCandela (Type C)



Luminaire

Lamp	Report	190313
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IsoLux Diagram (Ground)



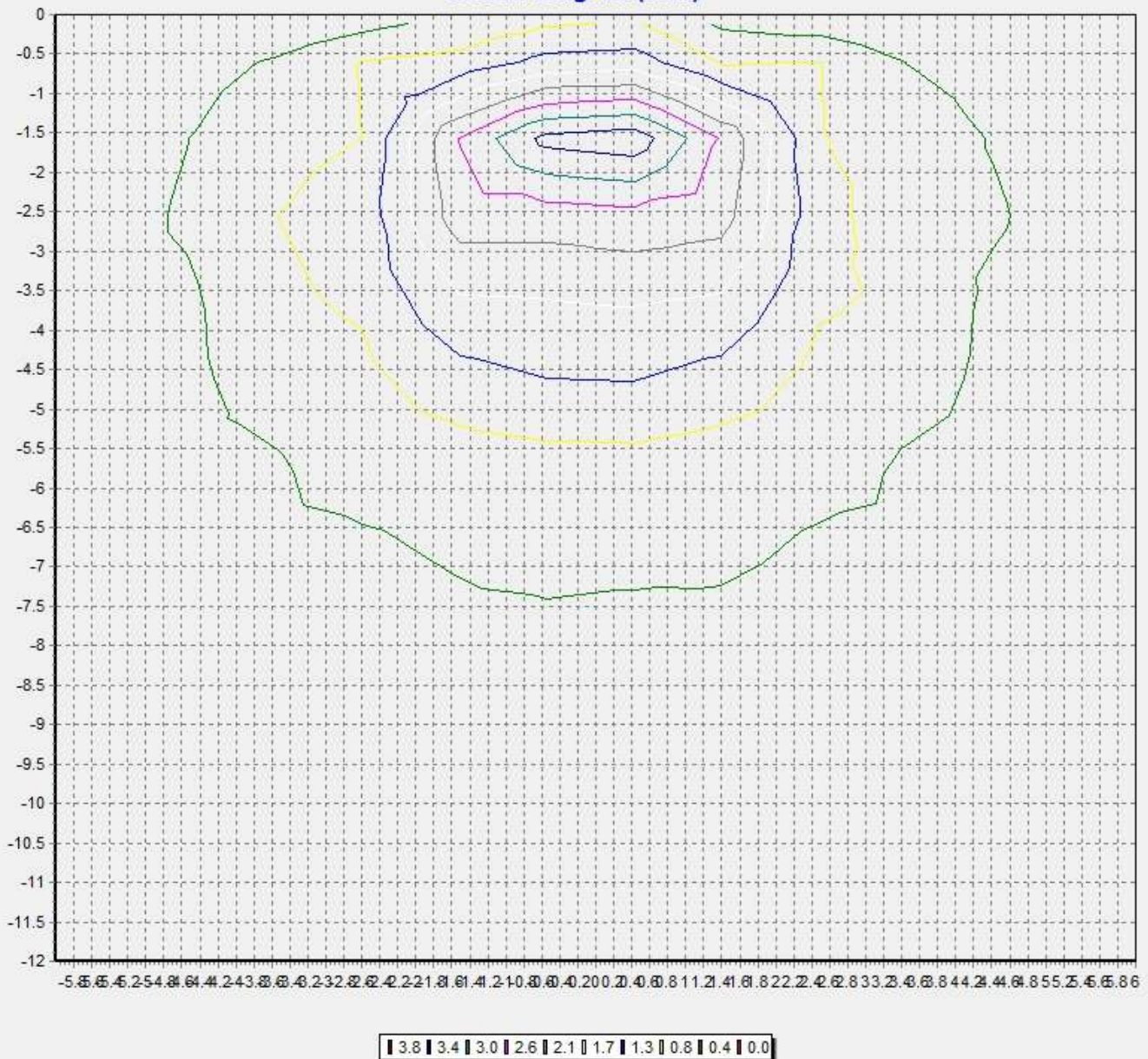
Pole Height (m): 2.7

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

No. of lamps	1	Voltage (V)	23.99	Report	190313
Lamp flux (lm)	222	Current (A)	0.12	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV3 40K-24V-C90-1.jdt
Total flux (lm)	222	Power Factor	1	Operator	CGR
				Date	2019-03-13 오전 10:44:44

Illuminance Levels (Ground)

6.00	0.11	0.14	0.11	0.16	0.19	0.22	0.22	0.21	0.19	0.15	0.12	0.14	0.11
5.00	0.15	0.12	0.18	0.25	0.49	0.58	0.61	0.58	0.50	0.26	0.18	0.12	0.14
4.00	0.12	0.19	0.42	0.61	0.63	0.80	0.86	0.80	0.62	0.63	0.42	0.18	0.11
3.00	0.16	0.26	0.64	0.73	1.55	1.68	1.89	1.71	1.56	0.72	0.62	0.24	0.15
2.00	0.20	0.50	0.63	1.59	2.19	3.59	4.31	3.65	2.24	1.59	0.61	0.49	0.19
1.00	0.21	0.58	0.79	1.71	3.60	6.71	9.28	6.72	3.67	1.70	0.76	0.56	0.20
0.00	0.22	0.61	0.85	1.90	4.32	9.31	11.51	9.30	4.41	1.93	0.85	0.61	0.22
-1.00	0.22	0.59	0.80	1.67	3.54	6.64	9.12	6.44	3.43	1.58	0.76	0.57	0.21
-2.00	0.18	0.48	0.60	1.55	2.18	3.52	4.11	3.42	2.07	1.52	0.58	0.46	0.17
-3.00	0.15	0.24	0.61	0.71	1.48	1.63	1.79	1.56	1.47	0.67	0.59	0.23	0.14
-4.00	0.11	0.17	0.41	0.59	0.60	0.74	0.80	0.74	0.57	0.57	0.39	0.17	0.11
-5.00	0.14	0.12	0.17	0.23	0.48	0.54	0.57	0.54	0.46	0.23	0.16	0.11	0.13
-6.00	0.10	0.14	0.10	0.15	0.18	0.19	0.20	0.20	0.17	0.14	0.10	0.13	0.10
-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.): 11.5

All illuminance level values are in lux.

Illum. (Min.): 0.10

Illum. Avg.: 1.23

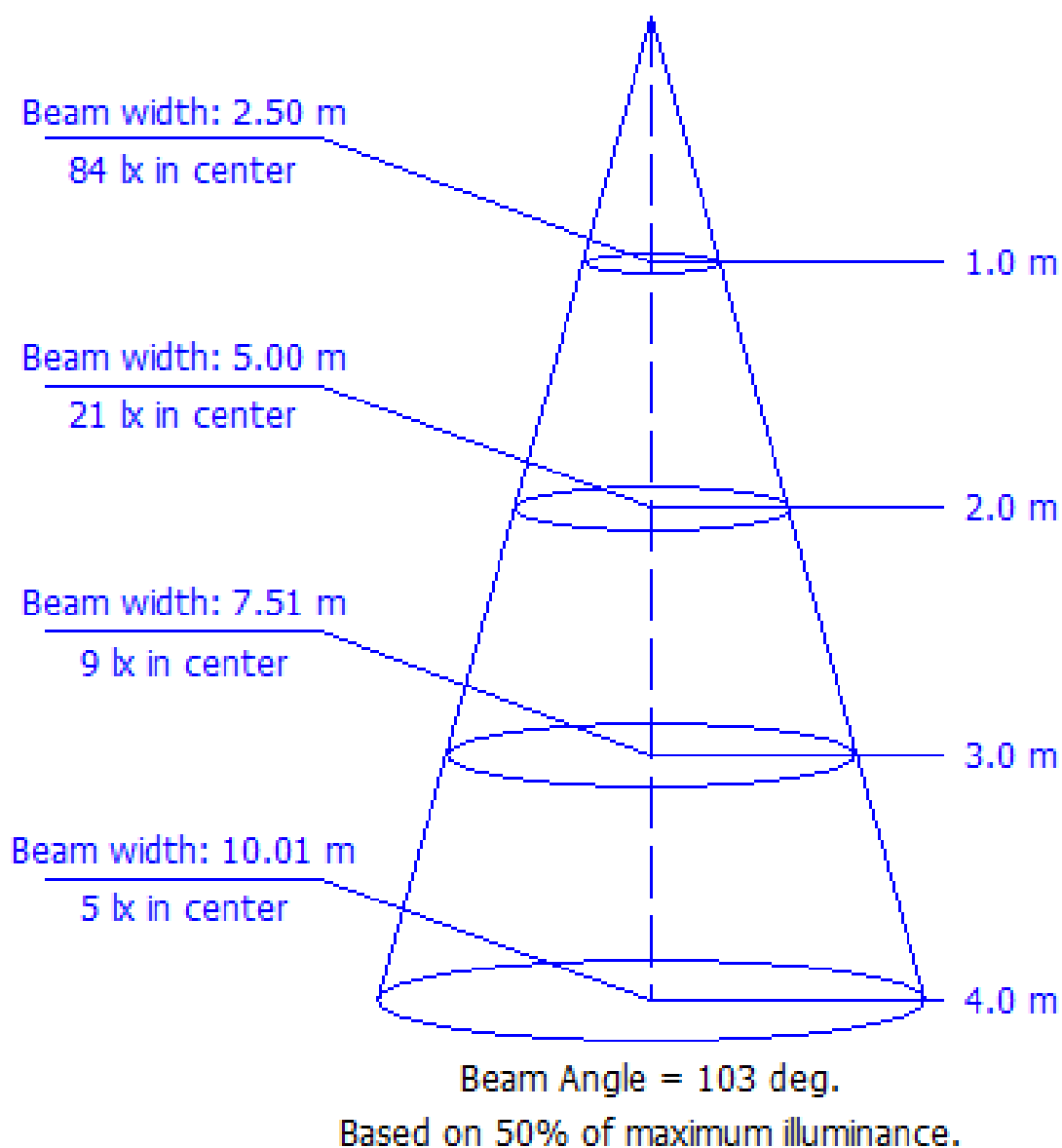
Total Optical Solution Provider


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

Luminaire

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Illuminance Cone Diagram



Luminaire

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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