

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 HDV18 40K-24V-C90-4

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		0.3871, 0.3832	
Correlated Color Temperature	K	3881	
Ra	-	93.28	
Power Factor	%	1.000	
Input Voltage	V	23.920	
Input Current	A	0.720	
Input Watt	W	17.23	
Lamp Flux	lm	1396.4	
Efficient	lm/W	81.08	
Illuminance	lx	570	1 m
		142	2 m
		63	3 m

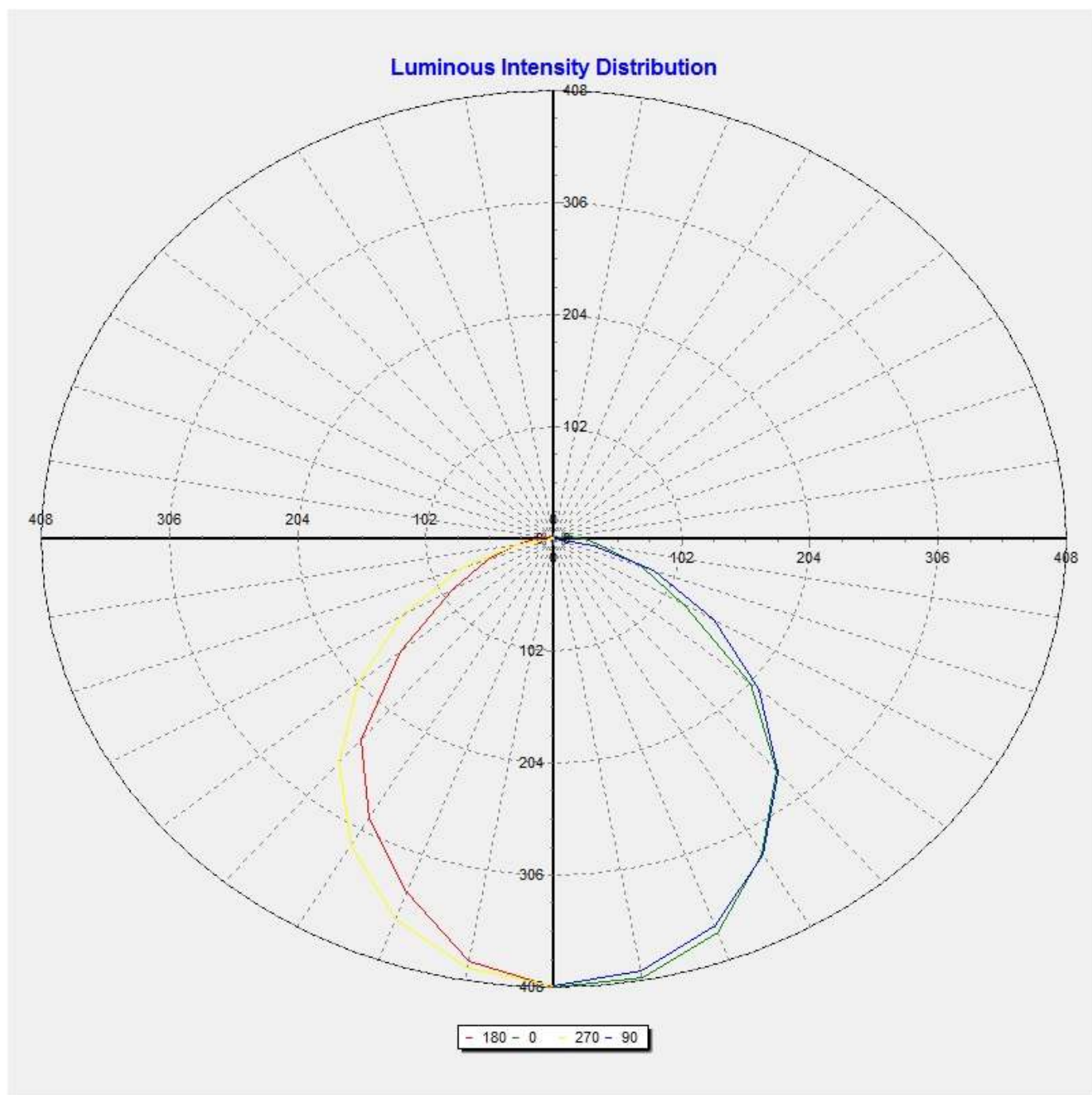
* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

Lamp	Report	190313
No. of lamps	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV18 40K-24V-C90-4.jdt	
Lamp flux (lm)	135Operator	Current (A) 0.72 CGR
Total flux (lm)	135Date	Power Factor 1 2019-03-13 오후 12:00:59

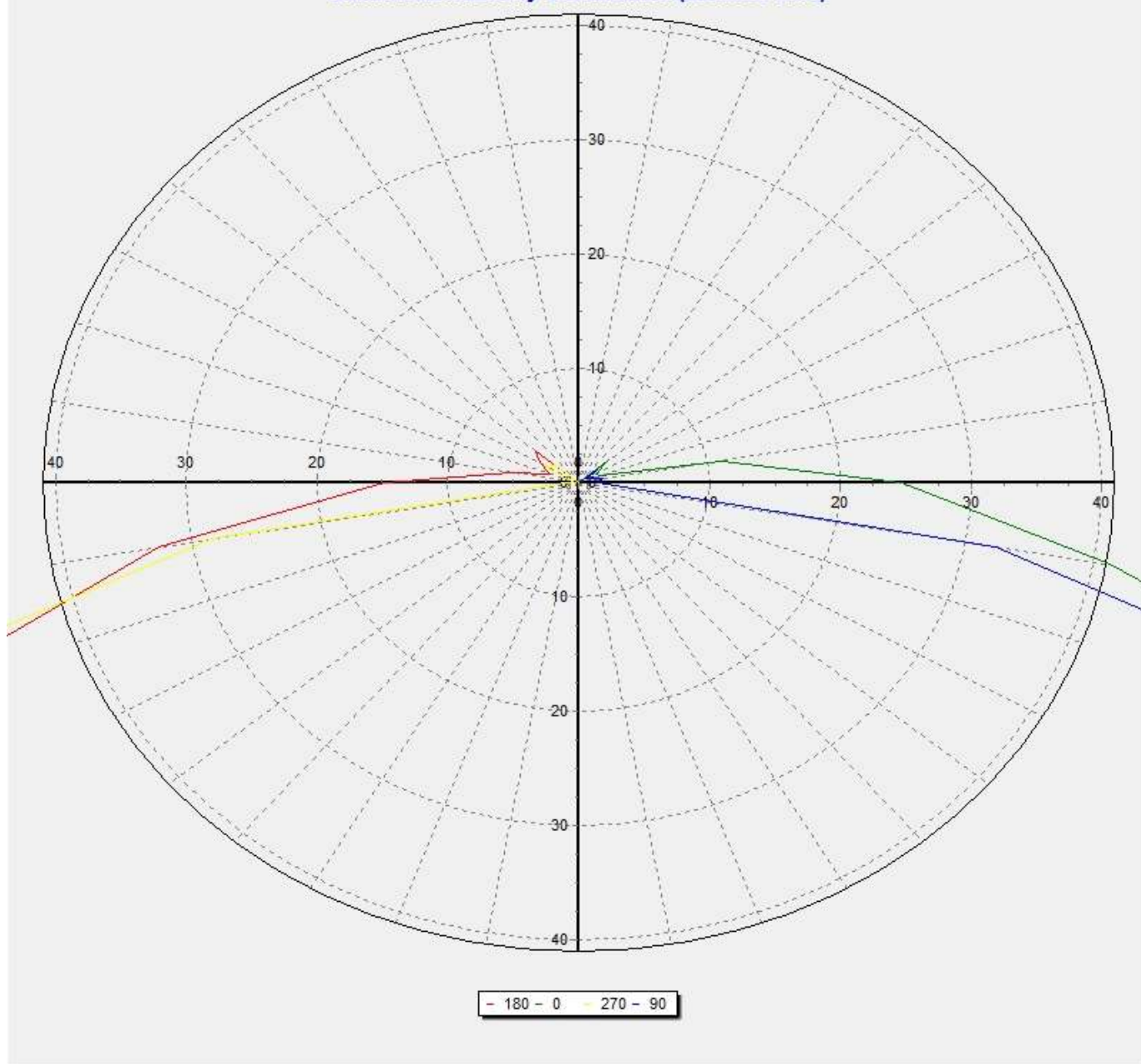


All luminous intensity values are in Cd/KLm unit.

Luminaire

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Luminous Intensity Distribution (Lowest 10%)



All luminous intensity values are in Cd/KLm unit.

Luminaire

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Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	569.73	568.47	568.68	567.98	566.72	568.19	569.73	568.47	568.68	567.98	566.72	568.19	569.73
10	566.44	564.34	562.44	557.33	553.90	548.01	545.07	545.77	548.43	553.20	556.98	560.55	566.44
20	531.90	534.70	533.02	522.58	513.13	494.56	477.75	488.12	502.76	513.34	517.26	521.67	531.90
30	463.25	464.65	474.74	463.53	444.34	421.64	410.29	411.13	428.08	451.06	459.89	455.05	463.25
40	386.19	384.23	387.31	388.64	356.70	346.40	334.21	335.68	337.71	372.04	370.50	370.71	386.19
50	285.59	295.12	296.17	297.22	271.93	255.75	221.57	241.18	253.23	283.00	276.42	276.35	285.59
60	168.75	183.39	203.49	204.54	188.15	152.91	129.10	144.72	172.46	192.42	188.71	171.69	168.75
70	103.32	106.61	119.78	118.66	107.52	89.80	77.05	82.16	95.54	107.59	108.08	101.71	103.32
80	57.57	59.88	57.22	45.24	48.60	46.78	45.45	43.07	39.22	39.57	45.66	54.77	57.57
90	34.45	30.60	18.83	2.02	14.84	23.88	20.72	20.72	11.83	1.32	14.70	26.54	34.45
100	15.47	12.04	6.15	2.65	2.93	7.20	7.27	4.75	4.47	0.34	2.51	10.08	15.47
110	2.44	2.86	2.86	1.32	5.45	3.91	3.28	3.84	3.00	1.67	3.56	3.70	2.44
120	2.09	0.48	2.72	0.97	4.33	3.42	4.75	4.54	1.04	4.26	3.28	0.20	2.09
130	4.26	2.79	3.70	2.51	2.09	6.57	5.94	2.02	1.46	3.14	6.29	7.20	4.26

Luminaire

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Lamp flux (lm)	139Operator	Current (A) 0.72 CGR
Total flux (lm)	139Date	Power Factor 1 2019-03-13 오후 12:00:59

Luminous Flux Table

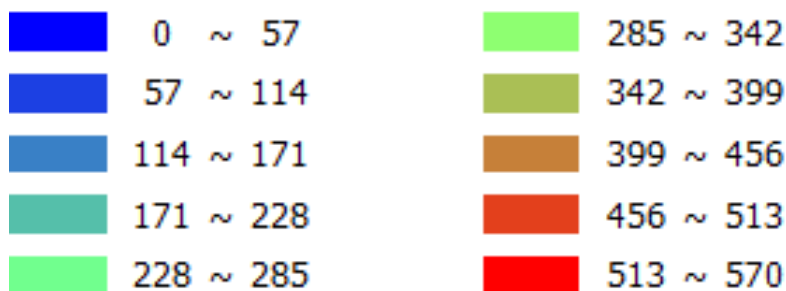
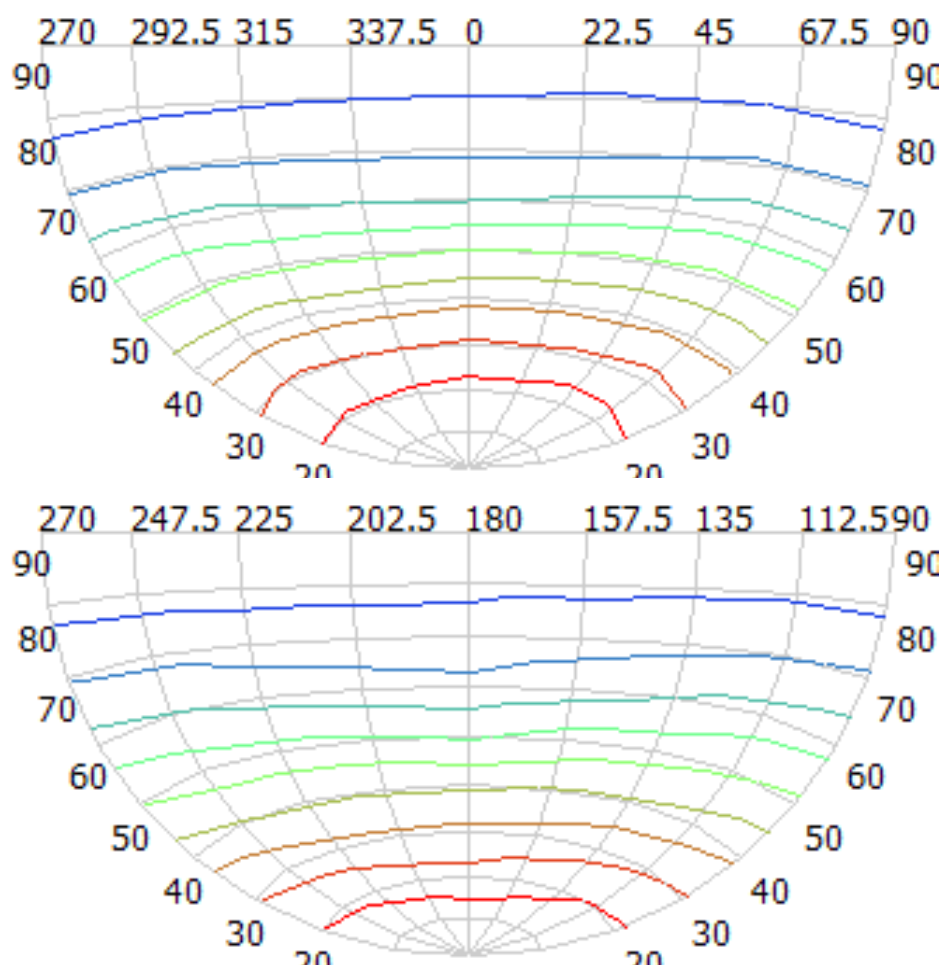
Total Lamp Lumens: 1396
 Luminaire Efficiency (lm/W)1396.42
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	13.59	13.59	0.97	0.97
10	105.59	119.18	8.53	8.53
20	192.00	311.18	22.28	22.28
30	244.04	555.22	39.76	39.76
40	256.39	811.61	58.12	58.12
50	227.48	1039.09	74.41	74.41
60	166.01	1205.10	86.30	86.30
70	104.44	1309.55	93.78	93.78
80	52.41	1361.95	97.53	97.53
90	20.12	1382.07	98.97	98.97
100	6.82	1388.89	99.46	99.46
110	3.25	1392.14	99.70	99.69
120	2.54	1394.68	99.88	99.88
130	1.74	1396.42	100.00	100.00

Luminaire

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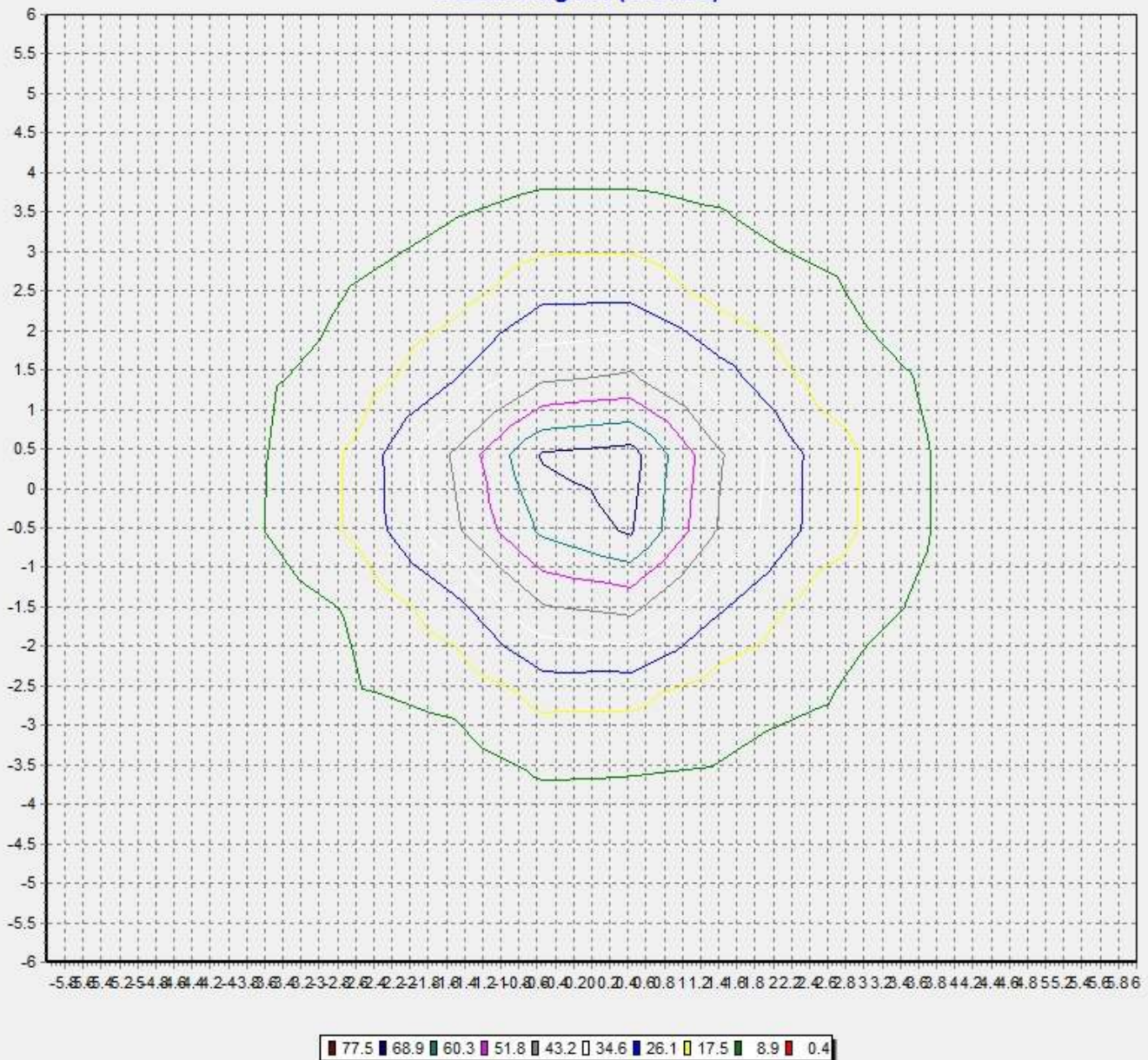
IsoCandela (Type C)



Luminaire

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IsoLux Diagram (Ground)



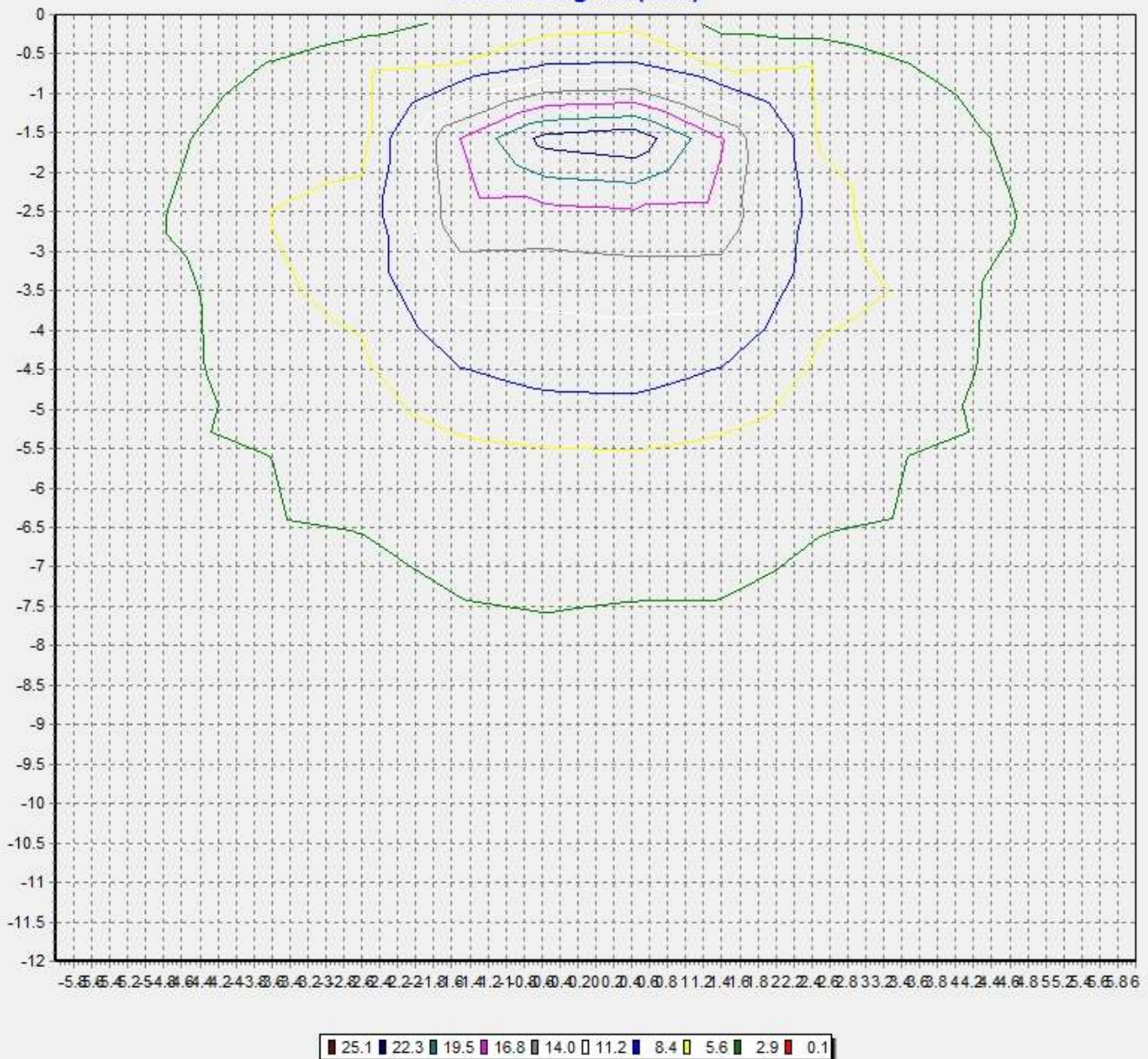
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp	Report	190313
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Lamp flux (lm)	139Operator	Current (A) 0.72 CGR
Total flux (lm)	139Date	Power Factor 1 2019-03-13 오후 12:00:59

IsoLux Diagram (Wall)



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) 23.92

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV18 40K-24V-C90-4.jdt

Lamp flux (lm) 1396 Current (A) 0.72

Operator CGR

Total flux (lm) 1396 Power Factor 1

Date 2019-03-13 오후 12:00:59

Illuminance Levels (Ground)

6.00	0.68	0.92	0.72	0.89	1.14	1.40	1.47	1.40	1.13	0.88	0.72	0.91	0.61
5.00	0.76	0.75	1.12	1.63	3.08	3.90	4.15	3.90	3.20	1.63	1.12	0.69	0.80
4.00	0.56	0.92	2.69	4.07	3.78	5.27	5.81	5.27	3.75	4.12	2.62	1.00	0.63
3.00	0.86	1.23	3.58	4.63	10.52	10.74	12.95	11.26	10.58	4.34	3.96	1.38	0.86
2.00	1.03	2.93	3.67	9.43	14.31	22.78	29.51	24.29	14.68	10.47	3.68	3.14	1.06
1.00	0.94	3.01	3.87	10.14	22.48	44.72	62.92	45.80	24.28	11.12	4.64	3.61	1.18
0.00	0.94	3.04	3.99	10.02	25.67	61.41	78.15	63.95	29.39	12.55	5.18	3.92	1.24
-1.00	1.00	3.12	3.91	8.96	21.20	40.78	62.43	44.77	23.42	10.55	4.64	3.63	1.18
-2.00	0.82	2.52	2.91	8.84	12.17	21.23	28.43	23.43	14.15	10.07	3.73	3.03	1.08
-3.00	0.67	1.04	3.10	3.40	9.17	9.40	12.35	10.65	10.14	4.51	3.82	1.38	0.88
-4.00	0.48	0.76	2.07	3.48	3.00	4.75	5.50	4.72	3.77	3.93	2.63	1.00	0.63
-5.00	0.62	0.53	0.91	1.34	2.64	3.56	3.95	3.47	3.07	1.51	1.06	0.72	0.82
-6.00	0.47	0.75	0.58	0.69	0.90	1.25	1.36	1.20	1.11	0.88	0.66	0.88	0.65
-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.): 78.15

All illuminance level values are in lux.

Illum. (Min.): 0.47

Illum. Avg.: 7.93

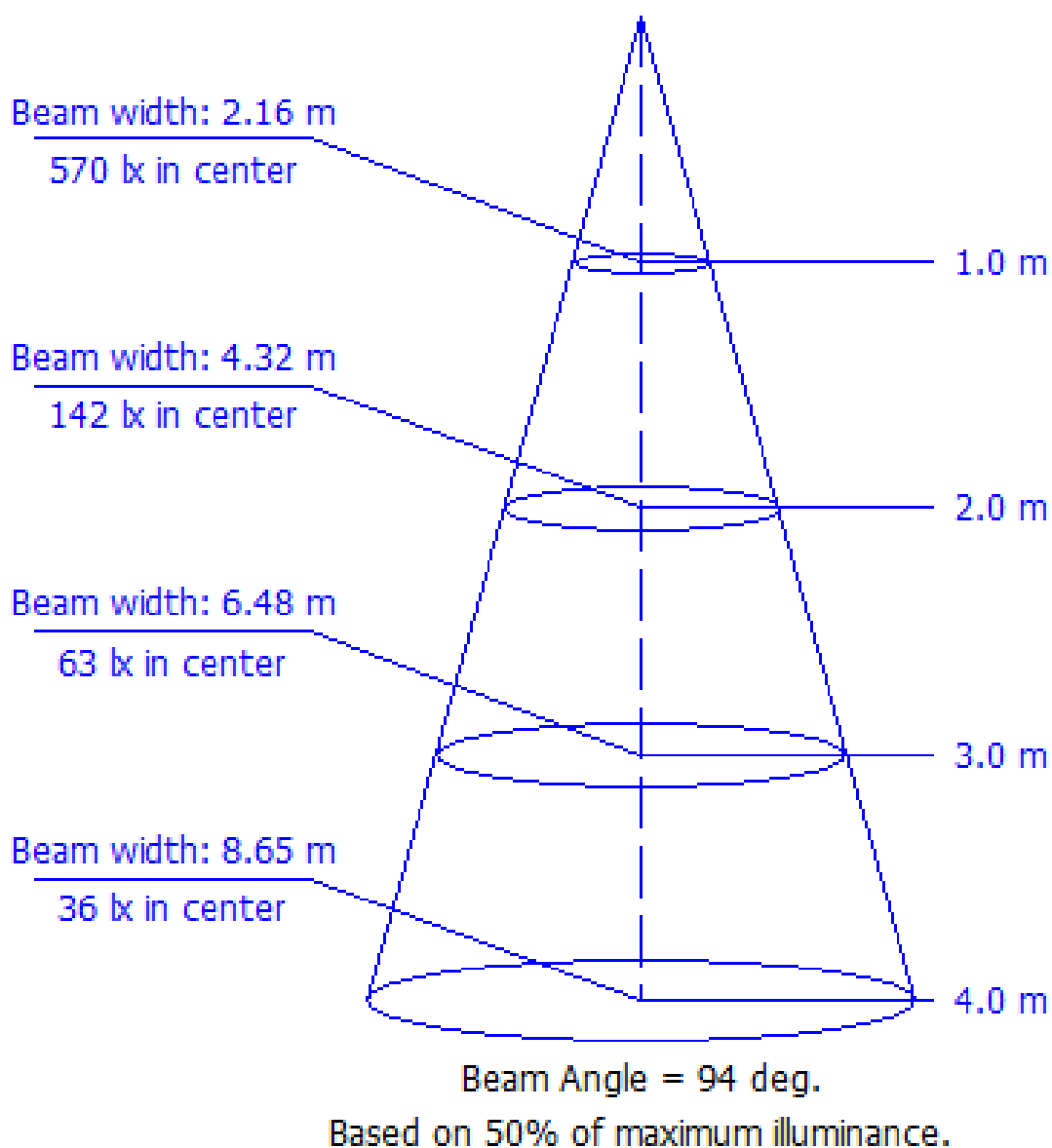
Total Optical Solution Provider


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

Luminaire

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Illuminance Cone Diagram



Luminaire

Lamp				Report	190313
No. of lamps	1	Voltage (V)	23.92	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190313 HDV18 40K-24V-C90-4.jdt
Lamp flux (lm)	1396	Current (A)	0.72	Operator	CGR
Total flux (lm)	1396	Power Factor	1	Date	2019-03-13 오후 12:00:59

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