

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 : 190521

2. Purpose of Report :

3. Test Standard / Item : LED / 190521 LL30 30K

4. Test Period : 190521 ~ 190521

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
190521	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.4391, 0.4092	
Correlated Color Temperature	K	3021	
Ra	-	97.47	
Power Factor	%	1.000	
Input Voltage	V	23.940	
Input Current	A	0.512	
Input Watt	W	12.26	
Lamp Flux	lm	956.5	
Efficient	lm/W	78.04	
Illuminance	lx	5053	1 m
		1263	2 m
		561	3 m

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

Sample photo

Click to load image

Luminaire

Lamp

Report

190521

No. of lamps

Filename Z:\₩신뢰성시험실 계측기 데이터₩배광측정기_GONI-150SWData₩2019₩190521 LL30 30K.jdt

Lamp flux (lm)

95Operator

Current (A)

0.512

CGR

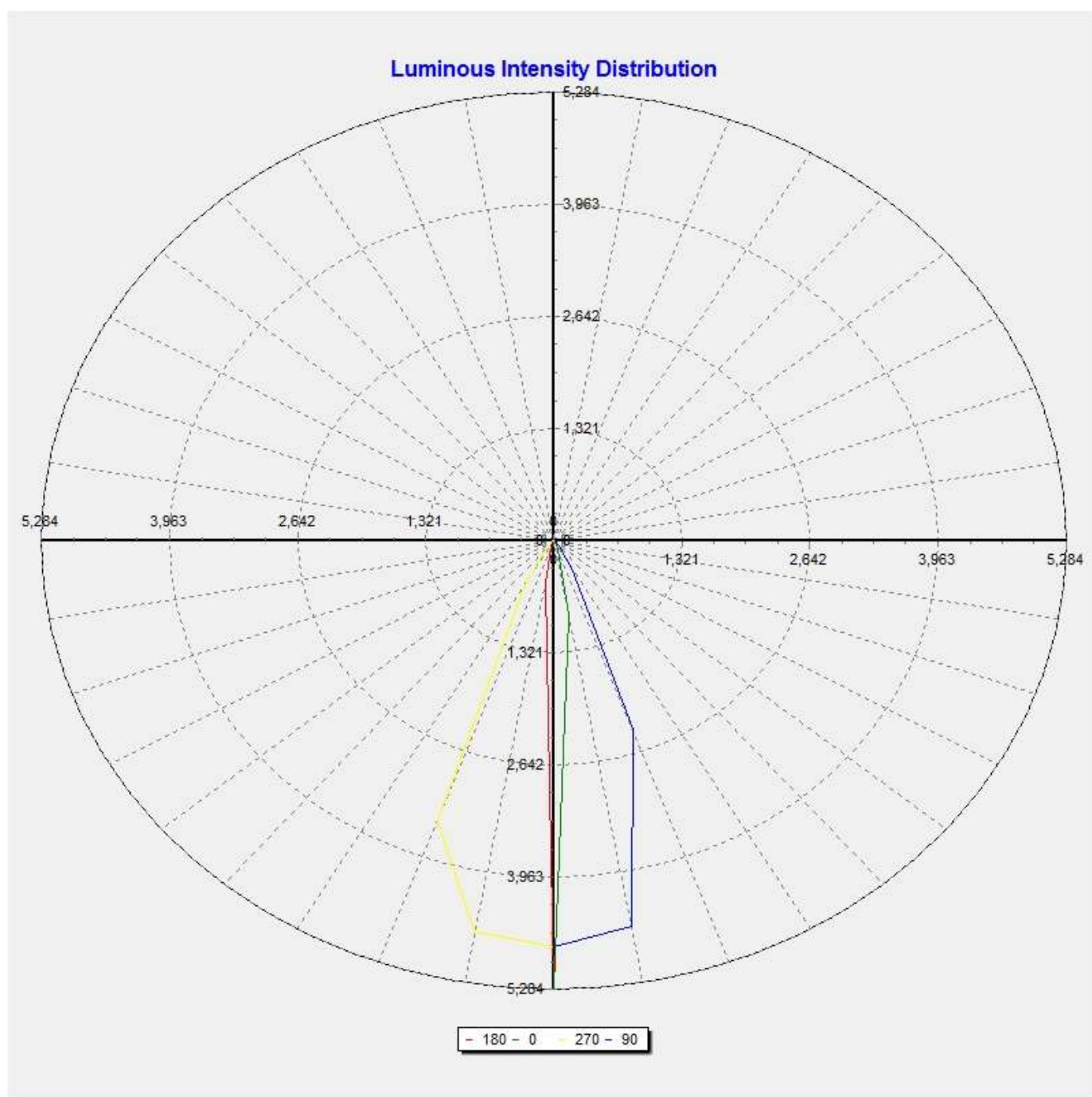
Total flux (lm)

95Date

Power Factor

1

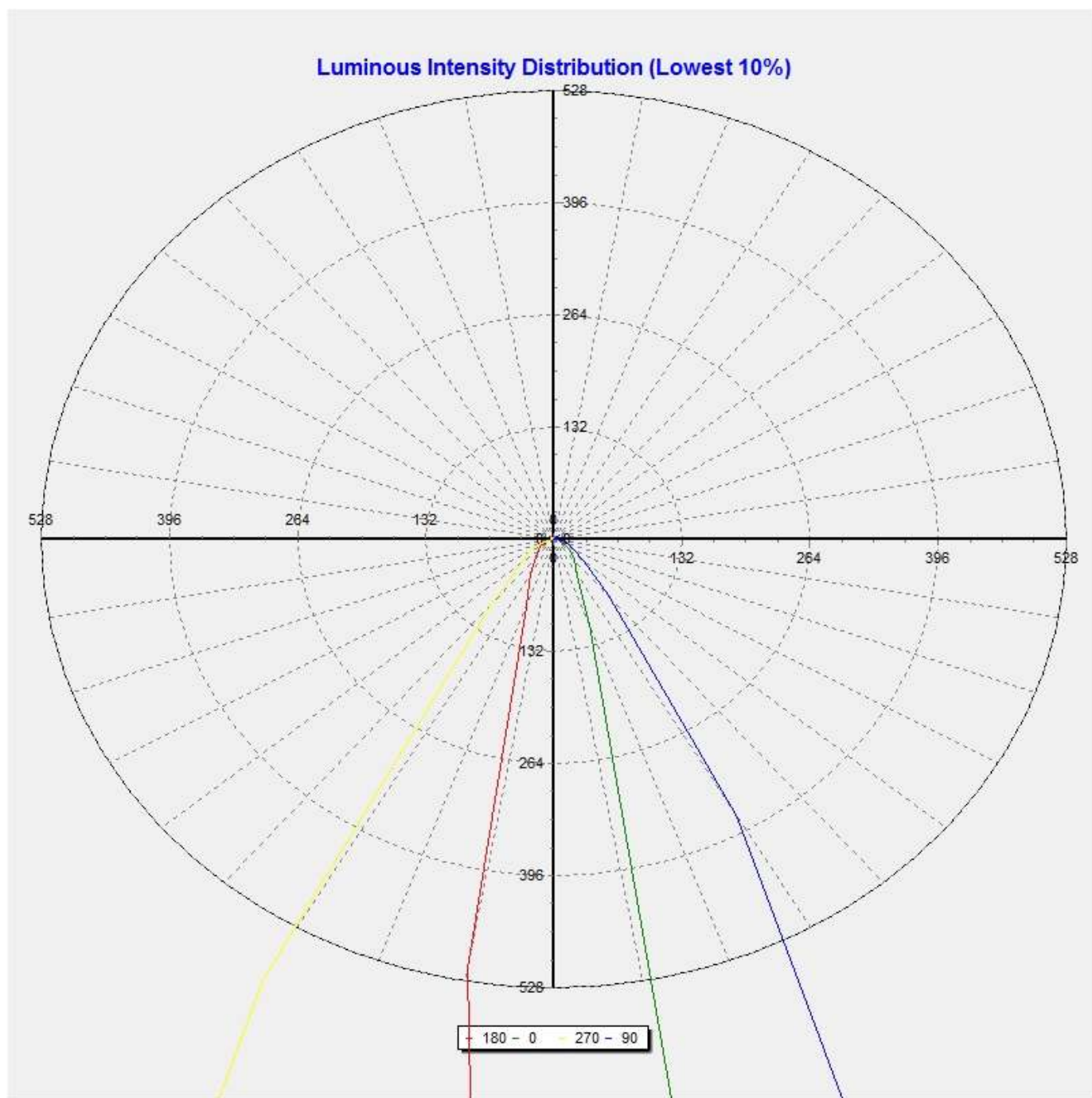
2019-05-21 오후 3:30:28



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp	Report	190521
No. of lamps	Filename Z:\₩신뢰성시험실 계측기 데이터₩배광측정기_GONI-150SWData₩2019₩190521 LL30 30K.jdt	
Lamp flux (lm)	95Operator	Current (A) 0.512 CGR
Total flux (lm)	95Date	Power Factor 1 2019-05-21 오후 3:30:28



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Lamp flux (lm)	95Operator	Current (A)	0.512	CGR	
Total flux (lm)	95Date	Power Factor	1	2019-05-21 오후 3:30:28	

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300
0	5053.16	5065.14	4870.83	4570.18	4179.80	3707.05	5053.16	5065.14	4870.83	4570.18	4179.80
10	857.02	1232.41	3846.80	4414.82	1016.03	360.17	490.95	714.54	1670.63	4469.87	4213.78
20	101.35	147.09	736.19	2267.71	203.34	74.17	80.05	105.83	346.23	3367.25	942.13
30	45.73	54.63	136.02	361.01	63.73	40.20	44.96	51.33	89.93	574.38	165.16
40	30.60	32.35	46.64	83.34	34.38	27.10	26.47	32.28	40.69	96.23	45.87
50	20.30	22.33	31.09	39.07	23.66	19.95	19.95	21.28	27.59	43.07	34.24
60	12.60	16.87	22.40	23.59	17.36	14.56	15.05	16.73	21.91	28.43	23.73
70	7.13	10.28	13.44	14.21	6.78	9.09	7.13	8.25	7.76	16.59	12.18
80	3.70	3.91	2.44	7.76	1.53	1.53	1.53	2.30	3.56	4.75	7.27
90	2.86	0.27	1.25	1.74	3.00	1.11	1.32	1.74	1.46	0.83	-1.48
100	0.41	0.83	-1.20	1.81	2.44	1.60	1.88	-0.15	2.02	2.65	-0.15
110	1.88	1.88	1.11	0.41	2.51	-0.36	0.83	-1.48	1.53	3.07	3.84
120	1.88	0.69	3.00	1.46	2.58	0.90	0.83	2.79	0.62	1.46	0.69
130	1.32	5.03	3.91	7.13	5.31	2.51	4.89	3.00	3.91	3.35	6.85

Luminaire

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Lamp flux (lm)	95Operator	Current (A)	0.512	CGR
Total flux (lm)	95Date	Power Factor	1	2019-05-21 오후 3:30:28

Luminous Intensity Data (Continued)

GWC	330	360
0	3707.05	5053.16
10	2365.71	857.02
20	239.48	101.35
30	65.27	45.73
40	36.90	30.60
50	21.98	20.30
60	18.83	12.60
70	8.46	7.13
80	5.80	3.70
90	2.09	2.86
100	2.51	0.41
110	1.60	1.88
120	3.70	1.88
130	2.23	1.32

Luminaire

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Lamp flux (lm)	95Operator	Current (A) 0.512 CGR
Total flux (lm)	95Date	Power Factor 1 2019-05-21 오후 3:30:28

Luminous Flux Table

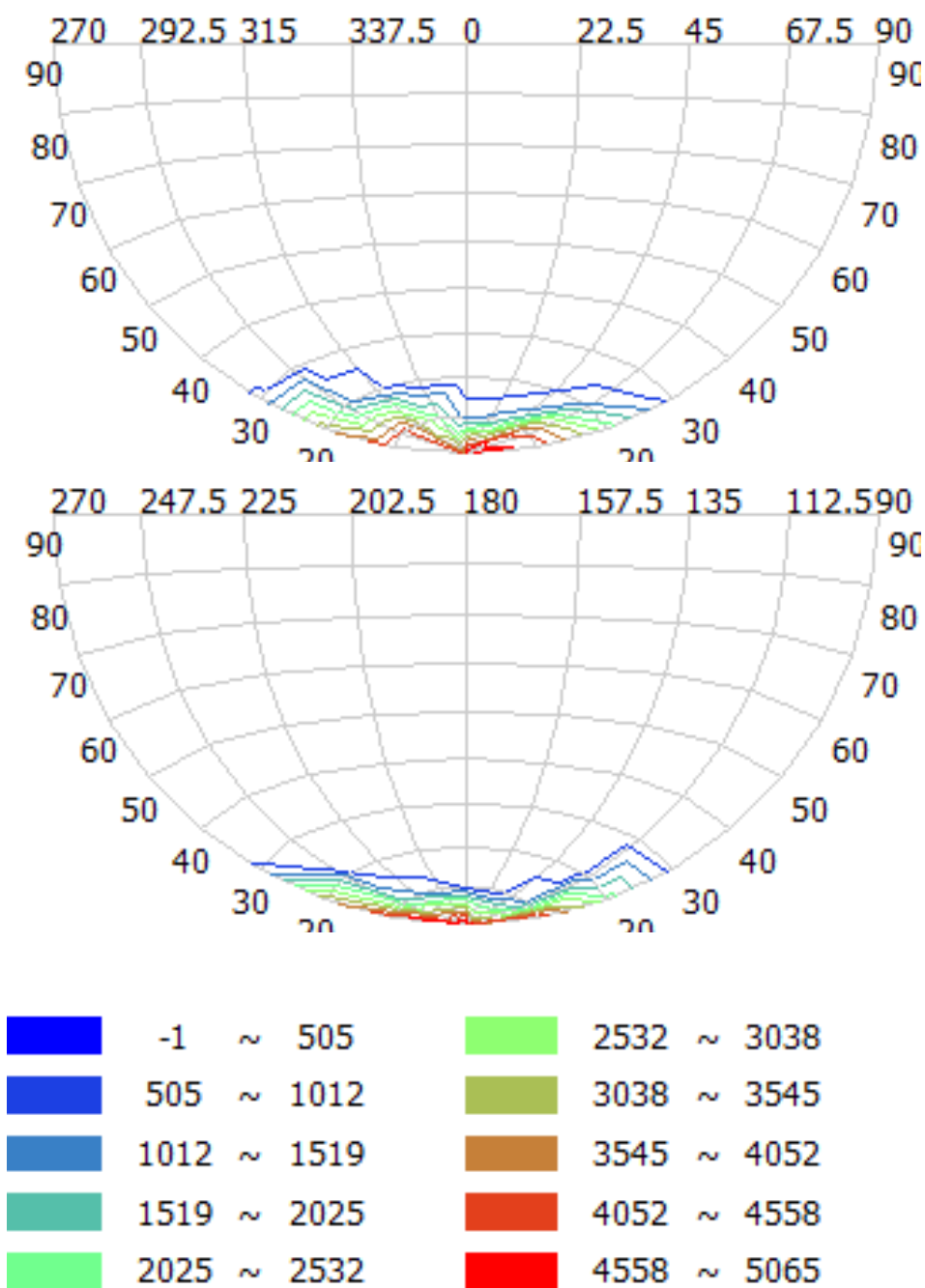
Total Lamp Lumens: 956
 Luminaire Efficiency (lm/W):956.45
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	109.37	109.37	11.43	11.43
10	406.56	515.93	53.94	53.94
20	268.79	784.73	82.04	82.05
30	77.23	861.96	90.12	90.12
40	31.26	893.22	93.38	93.39
50	22.69	915.91	95.76	95.76
60	18.34	934.25	97.67	97.68
70	10.40	944.66	98.76	98.77
80	4.14	948.80	99.19	99.20
90	1.48	950.27	99.35	99.35
100	1.32	951.59	99.49	99.49
110	1.44	953.03	99.64	99.64
120	1.63	954.66	99.81	99.81
130	1.79	956.45	99.99	100.00

Luminaire

Lamp	Report	190521
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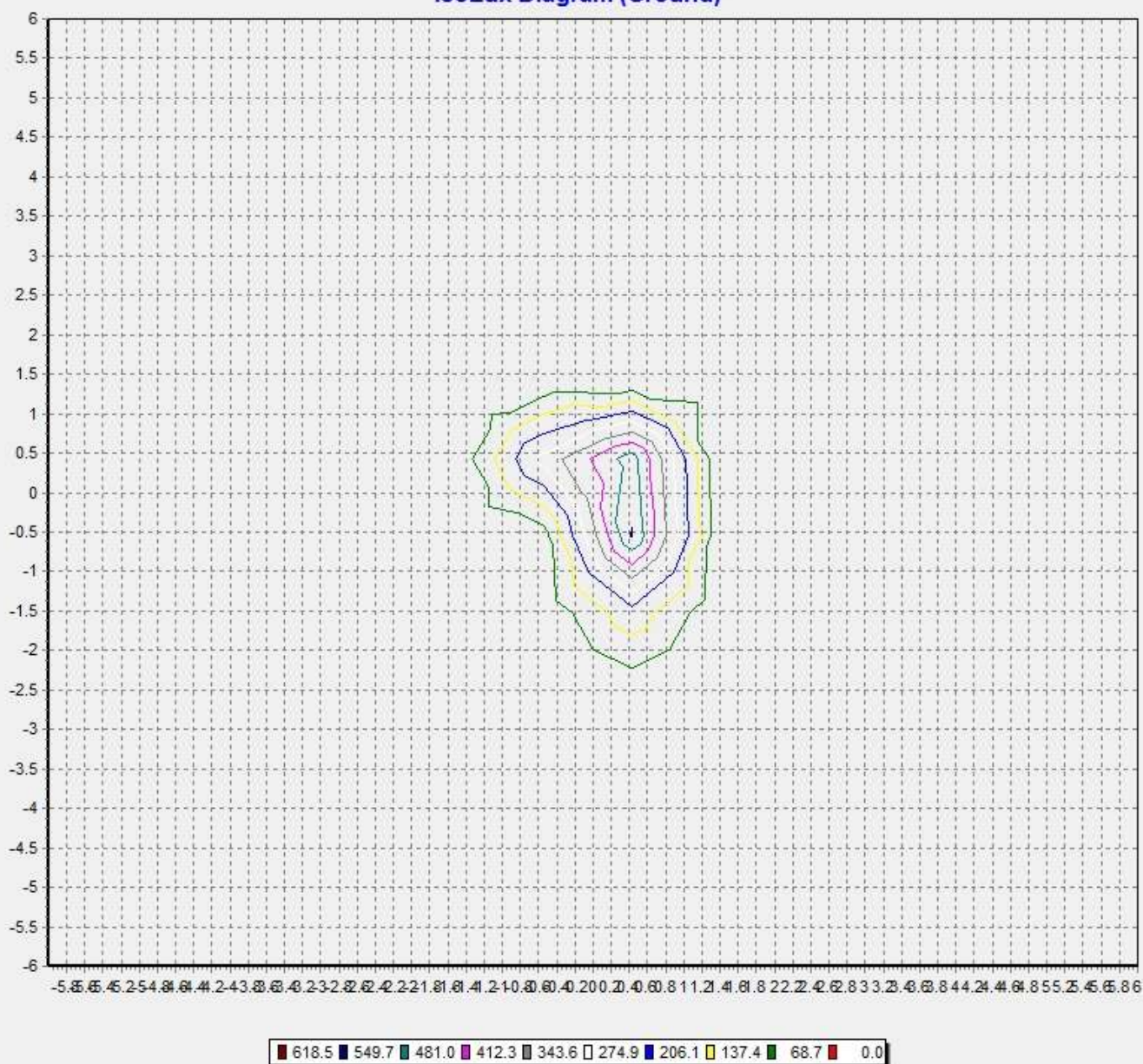
IsoCandela (Type C)



Luminaire

Lamp	Report	190521
No. of lamps	Filename Z:\₩신뢰성시험실 계측기 데이터₩배광측정기_GONI-150SWData₩2019₩190521 LL30 30K.jdt	
Lamp flux (lm)	95Operator	Current (A) 0.512 CGR
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IsoLux Diagram (Ground)



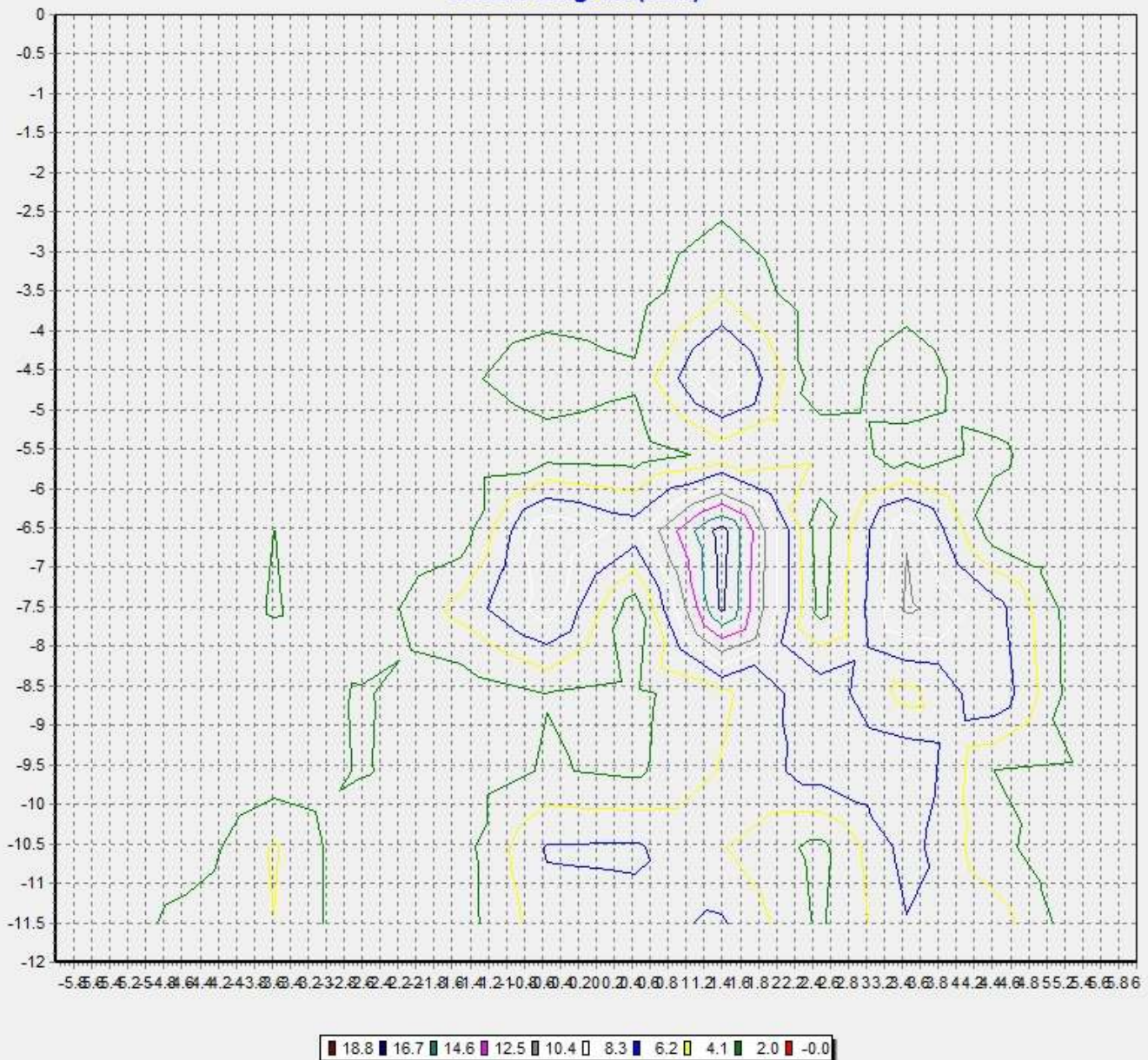
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp	Report	190521
No. of lamps	Filename Z:\₩신뢰성시험실 계측기 데이터₩배광측정기_GONI-150SWData₩2019₩190521 LL30 30K.jdt	
Lamp flux (lm)	95Operator	Current (A) 0.512 CGR
Total flux (lm)	95Date	Power Factor 1 2019-05-21 오후 3:30:28

IsoLux Diagram (Wall)



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

Luminaire				Report			
Lamp				190521			
No. of lamps	1	Voltage (V)	23.94	Filename	Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150SWData\₩2019W190521 LL30 30K.jdt		
Lamp flux (lm)	957	Current (A)	0.512	Operator	CGR		
Total flux (lm)	957	Power Factor	1	Date	2019-05-21 오후 3:30:28		

Illuminance Levels (Ground)

6.00	0.07	0.10	0.08	0.07	0.11	0.16	0.17	0.16	0.11	0.09	0.08	0.09	0.05
5.00	0.07	0.07	0.12	0.19	0.31	0.45	0.54	0.47	0.28	0.18	0.12	0.06	0.06
4.00	0.05	0.08	0.29	0.49	0.36	0.60	0.72	0.61	0.34	0.41	0.20	0.08	0.05
3.00	0.06	0.12	0.29	0.49	1.91	1.16	1.97	0.99	1.19	0.35	0.29	0.10	0.08
2.00	0.09	0.25	0.34	0.76	1.87	2.64	12.79	2.20	1.13	0.81	0.32	0.24	0.09
1.00	0.10	0.27	0.37	0.85	2.17	43.23	491.55	6.45	2.06	0.83	0.40	0.29	0.11
0.00	0.10	0.28	0.41	0.87	2.34	54.03	693.16	94.18	2.55	0.92	0.38	0.28	0.09
-1.00	0.10	0.27	0.37	0.80	2.03	5.60	501.59	75.35	3.06	1.13	0.39	0.28	0.09
-2.00	0.09	0.24	0.32	0.74	1.08	2.14	18.66	3.61	2.28	0.99	0.46	0.35	0.12
-3.00	0.07	0.11	0.29	0.36	1.05	0.91	2.20	1.46	2.21	0.62	0.35	0.14	0.10
-4.00	0.05	0.08	0.20	0.37	0.34	0.65	0.82	0.63	0.48	0.57	0.36	0.10	0.06
-5.00	0.07	0.05	0.09	0.15	0.26	0.49	0.60	0.44	0.40	0.23	0.15	0.10	0.09
-6.00	0.05	0.09	0.05	0.07	0.09	0.17	0.20	0.14	0.15	0.11	0.10	0.12	0.09
-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.): 693

All illuminance level values are in lux.

Illum. (Min.): 0.05

Illum. Avg.: 12.3

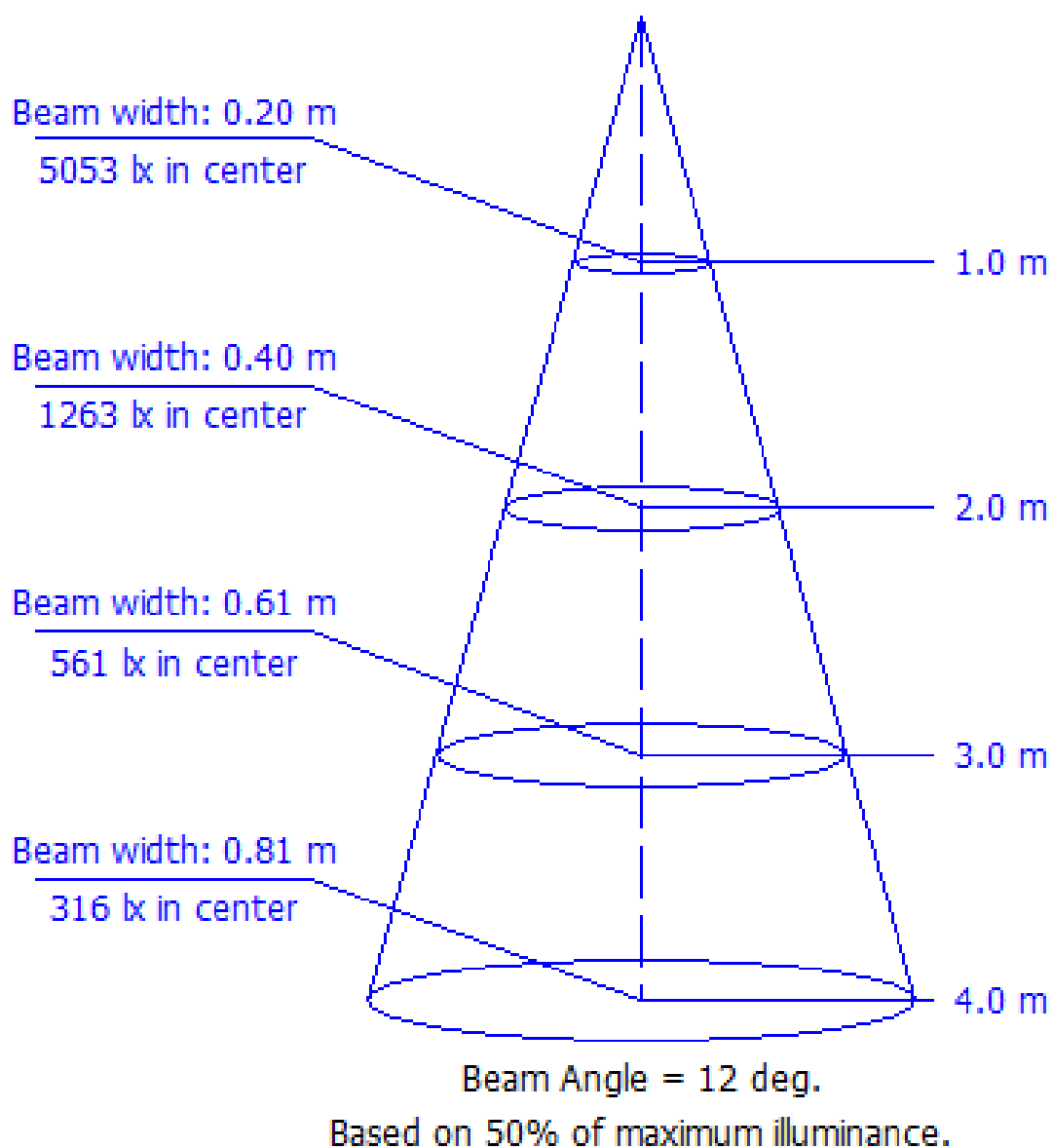
Total Optical Solution Provider


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

Luminaire

Lamp	Report	190521
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Total flux (lm)	95Date	Power Factor 1 2019-05-21 오후 3:30:28

Illuminance Cone Diagram



Luminaire

Lamp

Report

190521

No. of lamps	1	Voltage (V)	23.94	Filename Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150SWData\2019W190521 LL30 30K.jdt
Lamp flux (lm)	957	Current (A)	0.512	Operator CGR
Total flux (lm)	957	Power Factor	1	Date 2019-05-21 오후 3:30:28

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