

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 : 190708

2. Purpose of Report :

3. Test Standard / Item : LED / 190708 FN1 30K-24V-C90

4. Test Period : 190708 ~ 190708

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
--------------	----------------	--------------------------

The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

This report cannot be reproduced, except in full.

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
190708	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.4354, 0.4055	
Correlated Color Temperature	K	3054	
Ra	-	92.39	
Power Factor	%	1.000	
Input Voltage	V	23.920	
Input Current	A	0.367	
Input Watt	W	8.78	
Lamp Flux	lm	367	
Efficient	lm/W	41.81	
Illuminance	lx	105	1 m
		26	2 m
		12	3 m

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

Sample photo

Click to load image

Luminaire

Lamp Report

190708

No. of lamps Filename Z:\₩신뢰성시험실 계측기 데이터₩배광측정기_GONI-150S₩Data₩2019₩190708 FN1 30K-24V-C90.jdt

Lamp flux (lm)Operator7

Current (A)

0.367

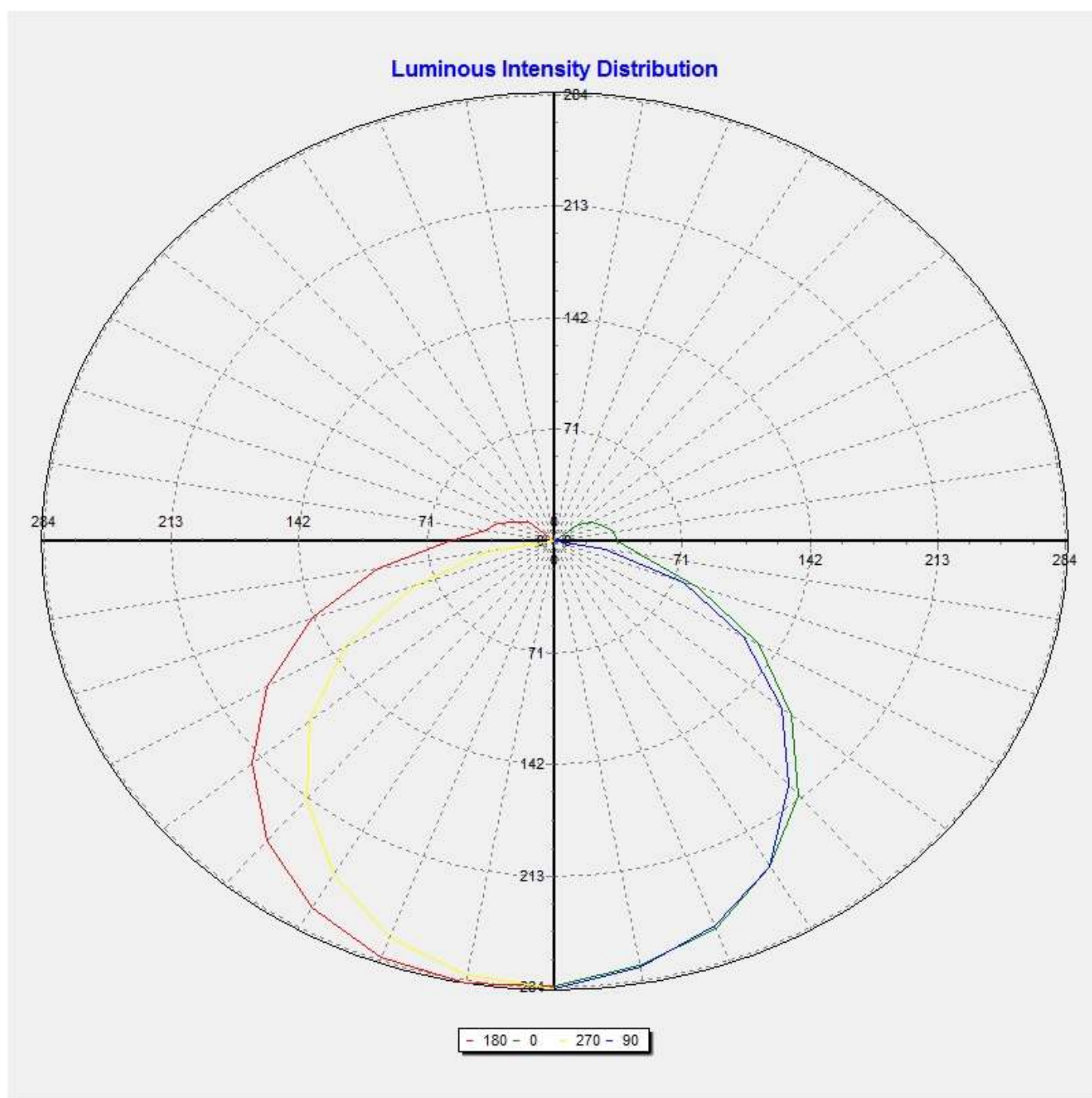
CGR

Total flux (lm)Date 367

Power Factor

1

2019-07-08 오후 4:17:46



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp Report

190708

No. of lamps Filename Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150S\₩Data\₩2019\₩190708 FN1 30K-24V-C90.jdt

Lamp flux (lm) Operator 7

Current (A)

0.367

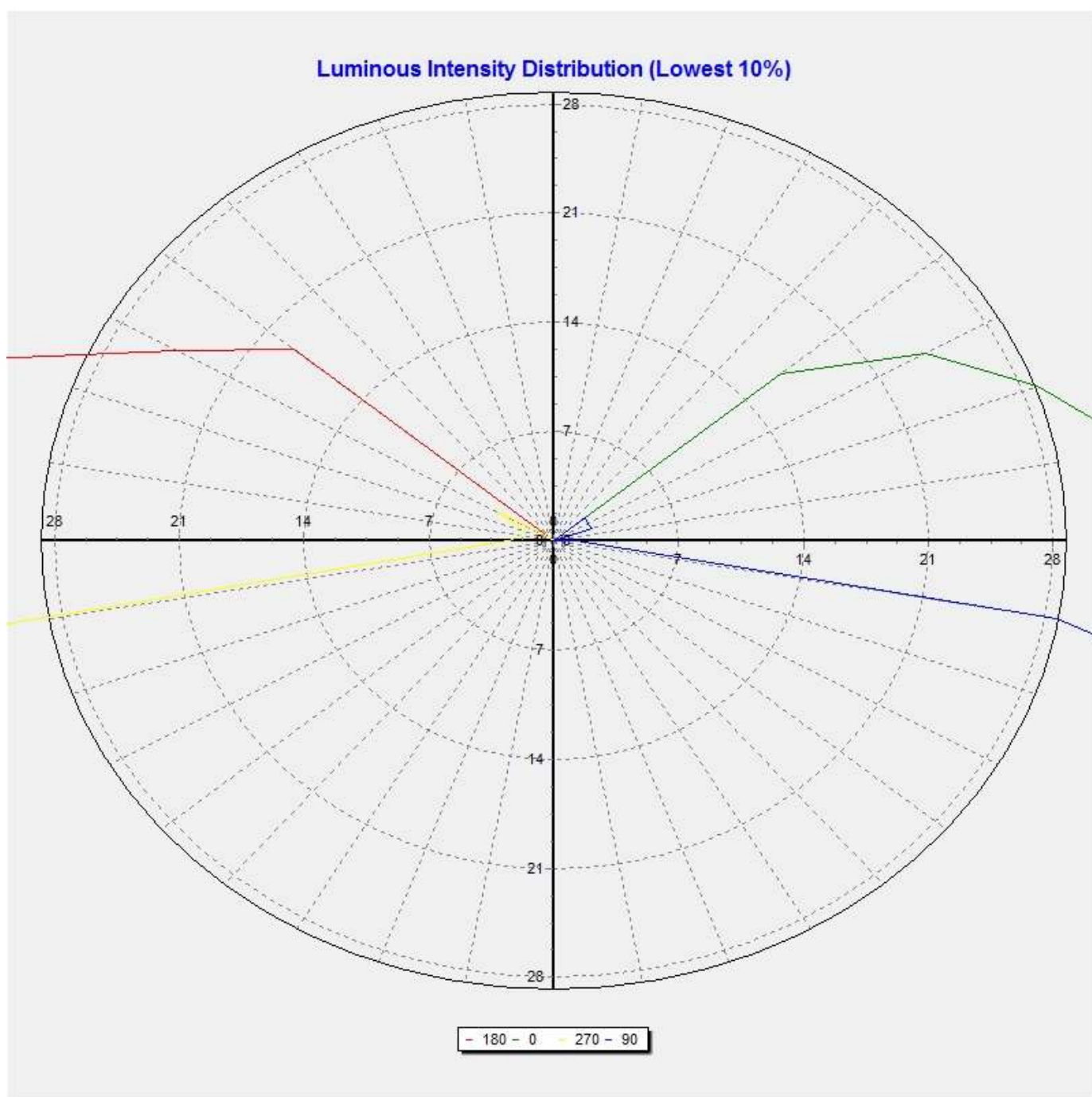
CGR

Total flux (lm) Date 367

Power Factor

1

2019-07-08 오후 4:17:46



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp Report

190708

No. of lamps Filename: Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150S\₩Data\2019\₩190708 FN1 30K-24V-C90.jdt

Lamp flux (lm) Operator: 7 Current (A) 0.367 CGR

Total flux (lm) Date: 367 Power Factor 1 2019-07-08 오후 4:17:46

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	103.89	104.46	104.20	104.35	102.54	104.67	103.89	104.46	104.20	104.35	102.54	104.67	103.89
10	100.52	100.05	101.85	100.89	101.11	105.60	104.75	104.17	103.79	102.77	101.05	103.01	100.52
20	96.20	96.42	95.64	95.61	97.72	103.15	103.37	102.98	100.72	98.41	95.04	97.91	96.20
30	87.62	87.71	87.66	87.59	90.74	97.56	98.70	98.35	94.34	90.05	87.87	90.54	87.62
40	77.51	76.25	75.33	74.39	80.54	88.49	91.24	89.61	85.13	78.77	77.24	79.69	77.51
50	62.94	62.53	61.58	60.63	68.95	77.26	80.66	78.75	72.50	65.19	63.90	67.01	62.94
60	47.96	47.54	45.55	44.59	54.07	63.78	67.89	65.99	58.54	49.44	48.28	51.26	47.96
70	31.32	30.51	28.59	27.89	38.44	47.56	52.47	50.13	42.25	30.77	30.50	33.25	31.32
80	17.86	16.17	12.42	10.50	21.87	30.87	36.58	34.25	24.69	13.89	14.58	18.29	17.86
90	12.79	11.36	6.33	0.45	9.16	16.69	21.52	18.34	10.06	0.94	6.49	11.62	12.79
100	12.33	10.57	5.07	-0.01	6.05	11.36	14.11	11.33	5.47	0.68	5.40	11.01	12.33
110	10.59	8.56	2.85	0.83	3.43	9.87	12.47	10.88	4.49	0.62	5.10	10.32	10.59
120	8.83	5.85	0.87	0.80	0.60	7.47	8.96	7.19	0.39	1.34	0.14	7.00	8.83
130	6.09	0.89	0.78	0.86	2.68	0.65	6.99	4.16	2.05	0.21	2.22	1.47	6.09

Luminaire

Lamp Report 190708

No. of lamps Filename: Z:\신뢰성시험실 계측기 데이터\배광측정기_GONI-150S\Data\2019\190708 FN1 30K-24V-C90.jdt

Lamp flux (lm) Operator: 7 Current (A) 0.367 CGR

Total flux (lm) Date: 367 Power Factor 1 2019-07-08 오후 4:17:46

Luminous Flux Table

Total Lamp Lumens: 367

Luminaire Efficiency (lm/W): 367.03

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.49	2.49	0.68	0.68
10	19.49	21.97	5.99	5.99
20	36.93	58.91	16.05	16.05
30	50.14	109.05	29.71	29.71
40	57.15	166.20	45.29	45.28
50	57.46	223.66	60.94	60.94
60	50.97	274.64	74.83	74.83
70	38.05	312.69	85.20	85.20
80	22.65	335.34	91.37	91.37
90	11.48	346.81	94.50	94.49
100	8.39	355.20	96.79	96.78
110	6.86	362.07	98.66	98.65
120	3.91	365.97	99.72	99.71
130	1.05	367.03	100.01	100.00

Luminaire

Lamp Report

190708

No. of lamps Filename Z:\₩신뢰성시험실 계측기 데이터₩배광측정기_GONI-150S₩Data₩2019₩190708 FN1 30K-24V-C90.jdt

Lamp flux (lm)Operator7

Current (A)

0.367

CGR

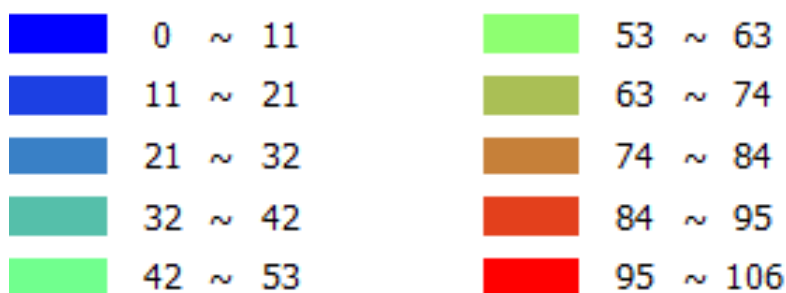
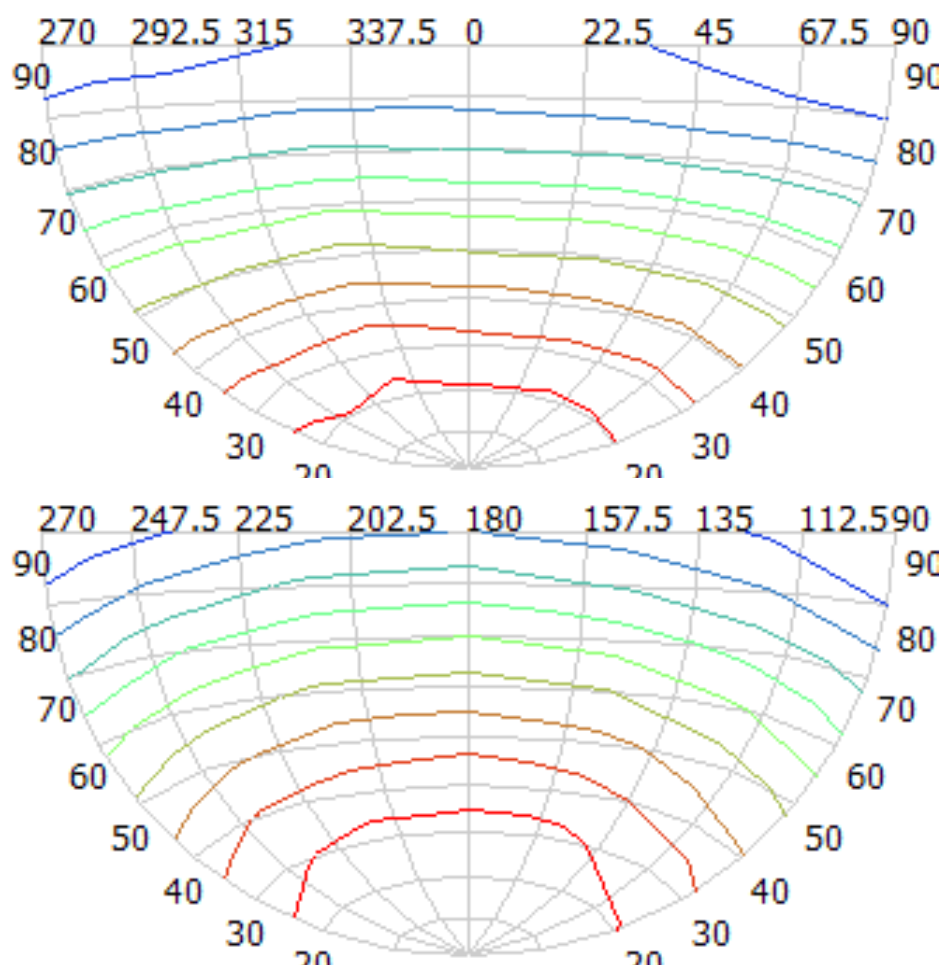
Total flux (lm)Date 367

Power Factor

1

2019-07-08 오후 4:17:46

IsoCandela (Type C)



Luminaire

Lamp Report

190708

No. of lamps Filename: Z:\신뢰성시험실 계측기 데이터\배광측정기_GONI-150S\Data\2019\190708 FN1 30K-24V-C90.jdt

Lamp flux (lm) Operator: 7

Current (A)

0.367

CGR

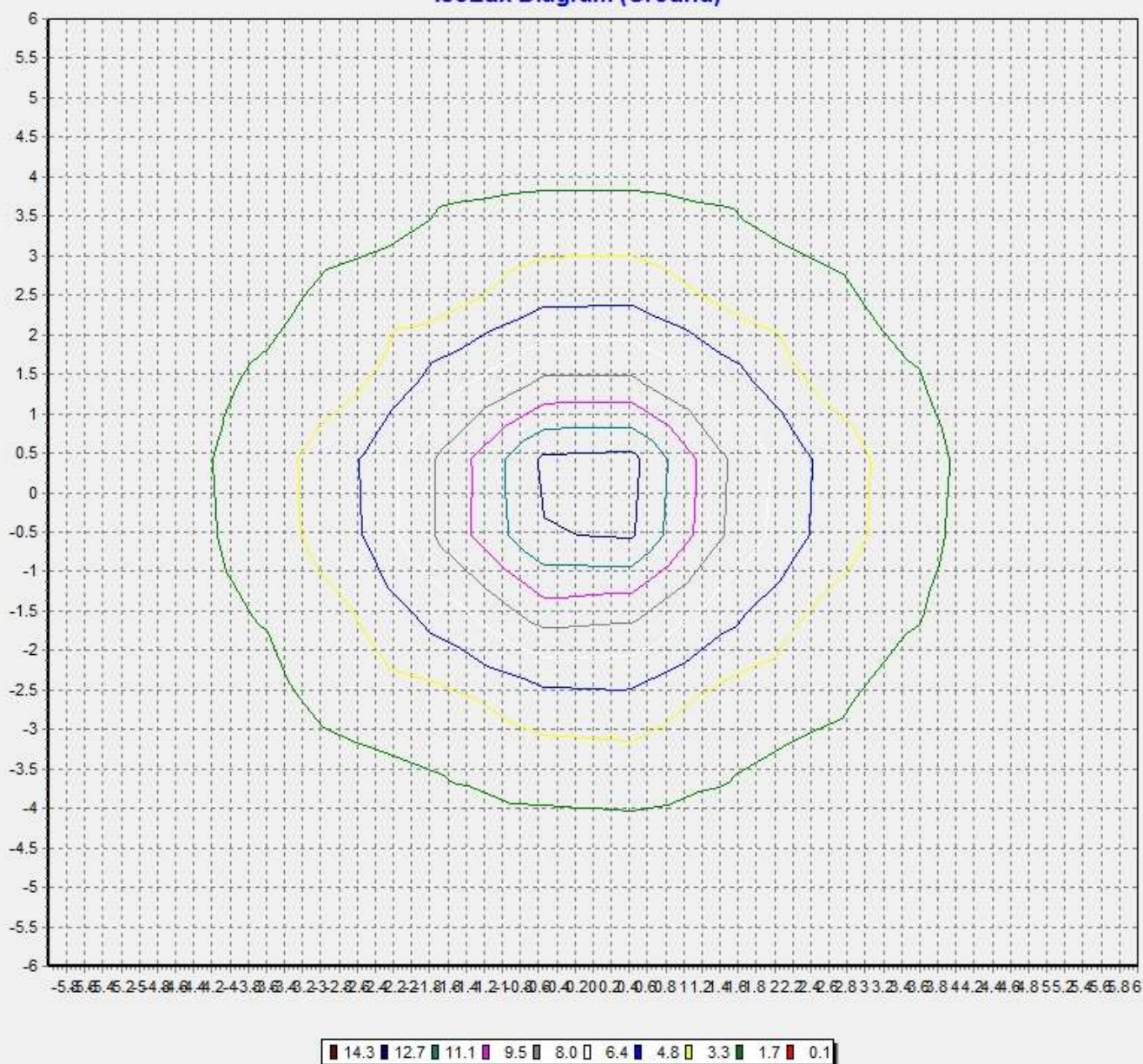
Total flux (lm) Date: 367

Power Factor

1

2019-07-08 오후 4:17:46

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp Report

190708

No. of lamps Filename Z:\신뢰성시험실 계측기 데이터\배광측정기_GONI-150S\Data\2019\190708 FN1 30K-24V-C90.jdt

Lamp flux (lm) Operator 7

Current (A)

0.367

CGR

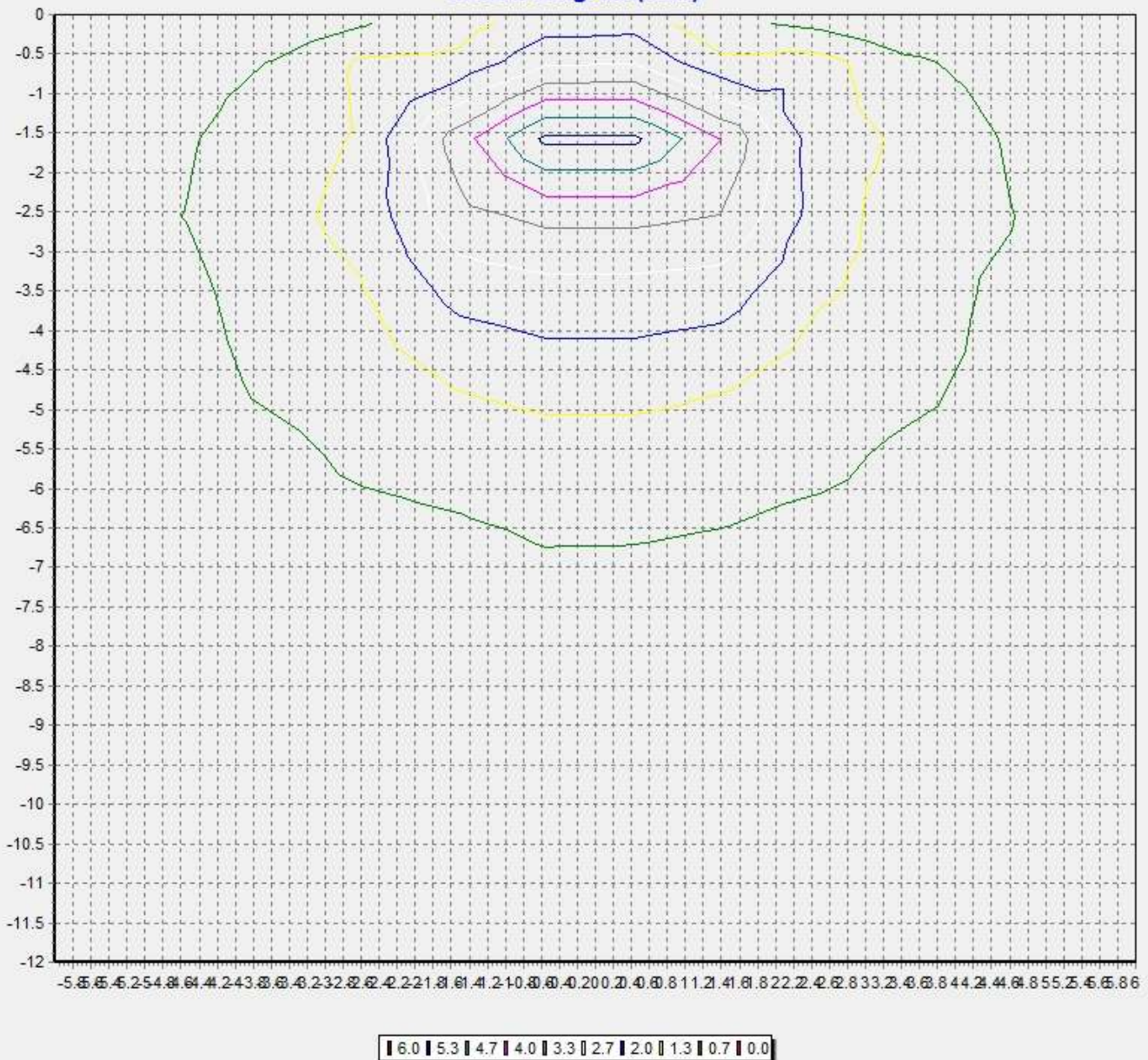
Total flux (lm) Date 367

Power Factor

1

2019-07-08 오후 4:17:46

IsoLux Diagram (Wall)



Pole Height (m): 2.7

Wall Distance (m): 2.7

Aiming Plane: 0

Wall Height (m): 12

Luminaire

Lamp

Report

190708

No. of lamps	1	Voltage (V)	23.92	Filename Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150SWData\W2019W190708 FN1 30K-24V-C90.jdt
Lamp flux (lm)	367	Current (A)	0.367	Operator CGR
Total flux (lm)	367	Power Factor	1	Date 2019-07-08 오후 4:17:46

Illuminance Levels (Ground)

6.00	0.17	0.22	0.18	0.29	0.33	0.32	0.33	0.32	0.29	0.24	0.18	0.21	0.17
5.00	0.28	0.22	0.29	0.37	0.76	0.81	0.85	0.81	0.71	0.38	0.27	0.20	0.22
4.00	0.28	0.40	0.63	0.88	1.04	1.13	1.23	1.13	0.93	0.87	0.61	0.29	0.19
3.00	0.30	0.56	1.08	1.13	2.09	2.49	2.60	2.36	2.10	1.09	0.89	0.40	0.24
2.00	0.39	0.82	1.08	2.48	3.14	5.03	5.62	4.80	3.07	2.15	0.93	0.71	0.30
1.00	0.52	1.08	1.58	2.73	5.13	8.67	11.39	8.55	4.81	2.38	1.23	0.87	0.36
0.00	0.56	1.16	1.75	3.40	6.68	11.84	14.25	11.35	5.77	2.70	1.30	0.89	0.36
-1.00	0.51	1.07	1.58	3.00	5.65	9.50	11.61	8.66	4.88	2.47	1.23	0.86	0.35
-2.00	0.46	0.93	1.28	2.59	3.78	5.60	5.89	4.88	3.14	2.23	0.95	0.73	0.31
-3.00	0.38	0.61	1.15	1.49	2.41	2.89	2.79	2.44	2.19	1.12	0.94	0.43	0.24
-4.00	0.31	0.45	0.81	1.06	1.26	1.32	1.34	1.33	0.95	0.92	0.63	0.30	0.20
-5.00	0.31	0.33	0.40	0.51	0.90	0.91	0.92	0.94	0.73	0.40	0.29	0.20	0.23
-6.00	0.24	0.28	0.26	0.37	0.43	0.38	0.37	0.42	0.30	0.24	0.19	0.23	0.17
-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.): 14.2

All illuminance level values are in lux.

Illum. (Min.): 0.17

Illum. Avg.: 1.79

Total Optical Solution Provider


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

Luminaire

Lamp Report

190708

No. of lamps Filename: Z:\₩신뢰성시험실 계측기 데이터₩배광측정기_GONI-150S₩Data₩2019₩190708 FN1 30K-24V-C90.jdt

Lamp flux (lm) Operator: 7

Current (A)

0.367

CGR

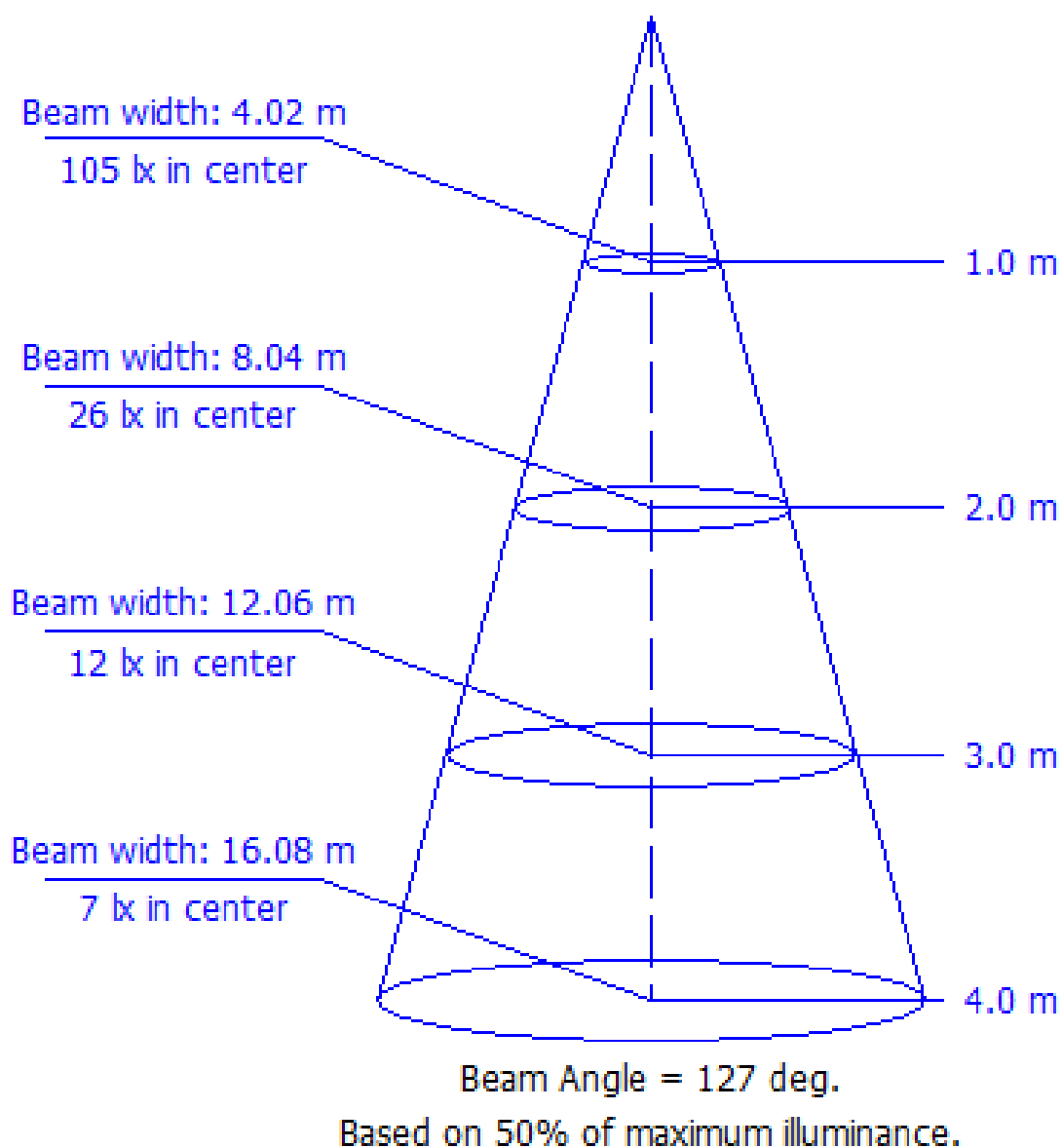
Total flux (lm) Date 367

Power Factor

1

2019-07-08 오후 4:17:46

Illuminance Cone Diagram



Luminaire

Lamp

Report

190708

No. of lamps	1	Voltage (V)	23.92	Filename Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150SWData\W2019\W190708 FN1 30K-24V-C90.jdt
Lamp flux (lm)	367	Current (A)	0.367	Operator CGR
Total flux (lm)	367	Power Factor	1	Date 2019-07-08 오후 4:17:46

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