

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 FN2 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		0.4343, 0.4051	
Correlated Color Temperature	K	3069	
Ra	-	92	
Power Factor	%	1.000	
Input Voltage	V	23.950	
Input Current	A	0.361	
Input Watt	W	8.64	
Lamp Flux	lm	545	
Efficient	lm/W	63.04	
Illuminance	lx	161	1 m
		40	2 m
		18	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 FN2 30K-24V-C90.jdt

Lamp flux (lm)Operator5

Current (A)

0.361

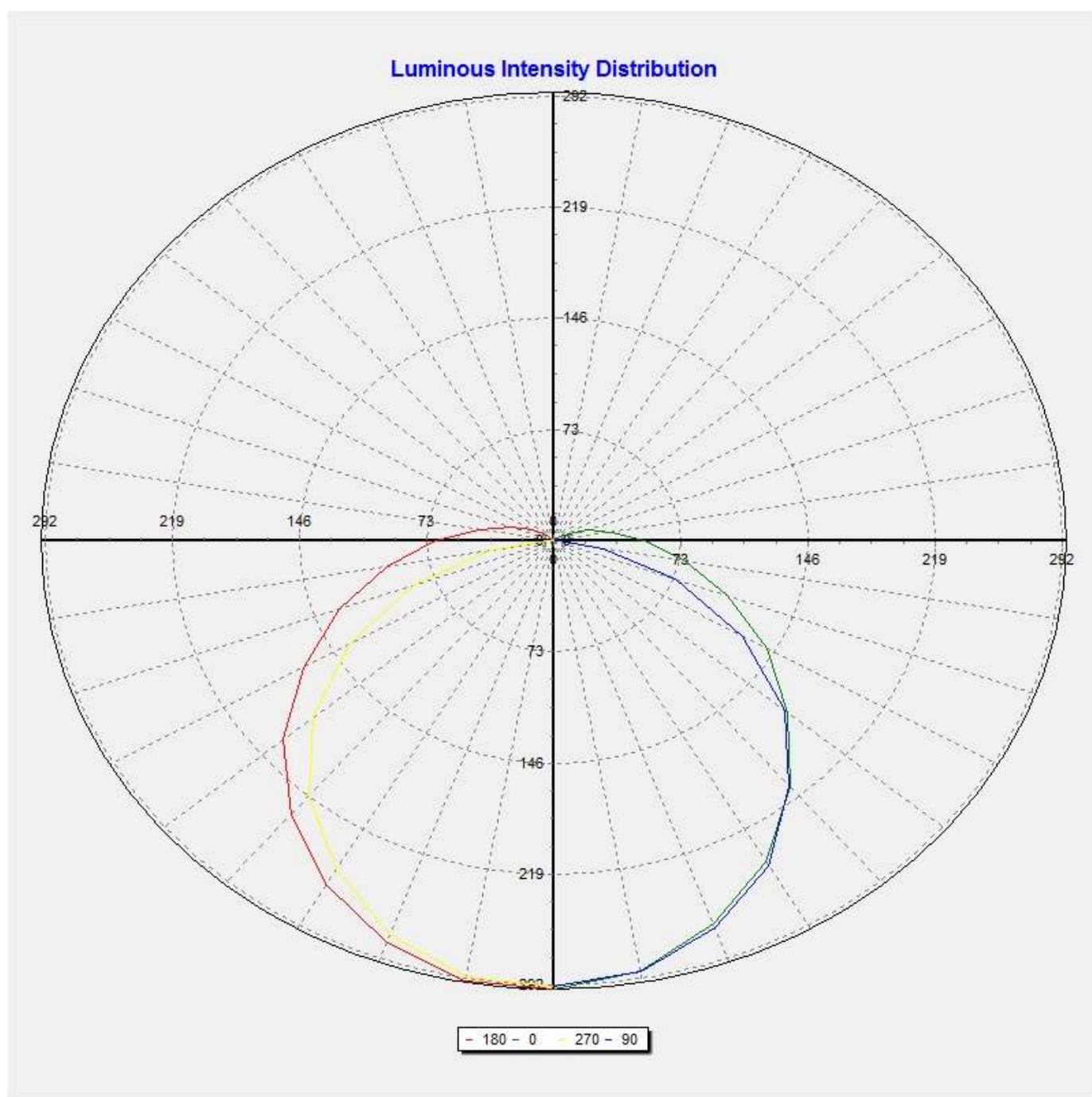
CGR

Total flux (lm)Date 545

Power Factor

1

2019-07-08 오후 3:52:28



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 FN2 30K-24V-C90.jdt

Lamp flux (lm) Operator 5

Current (A)

0.361

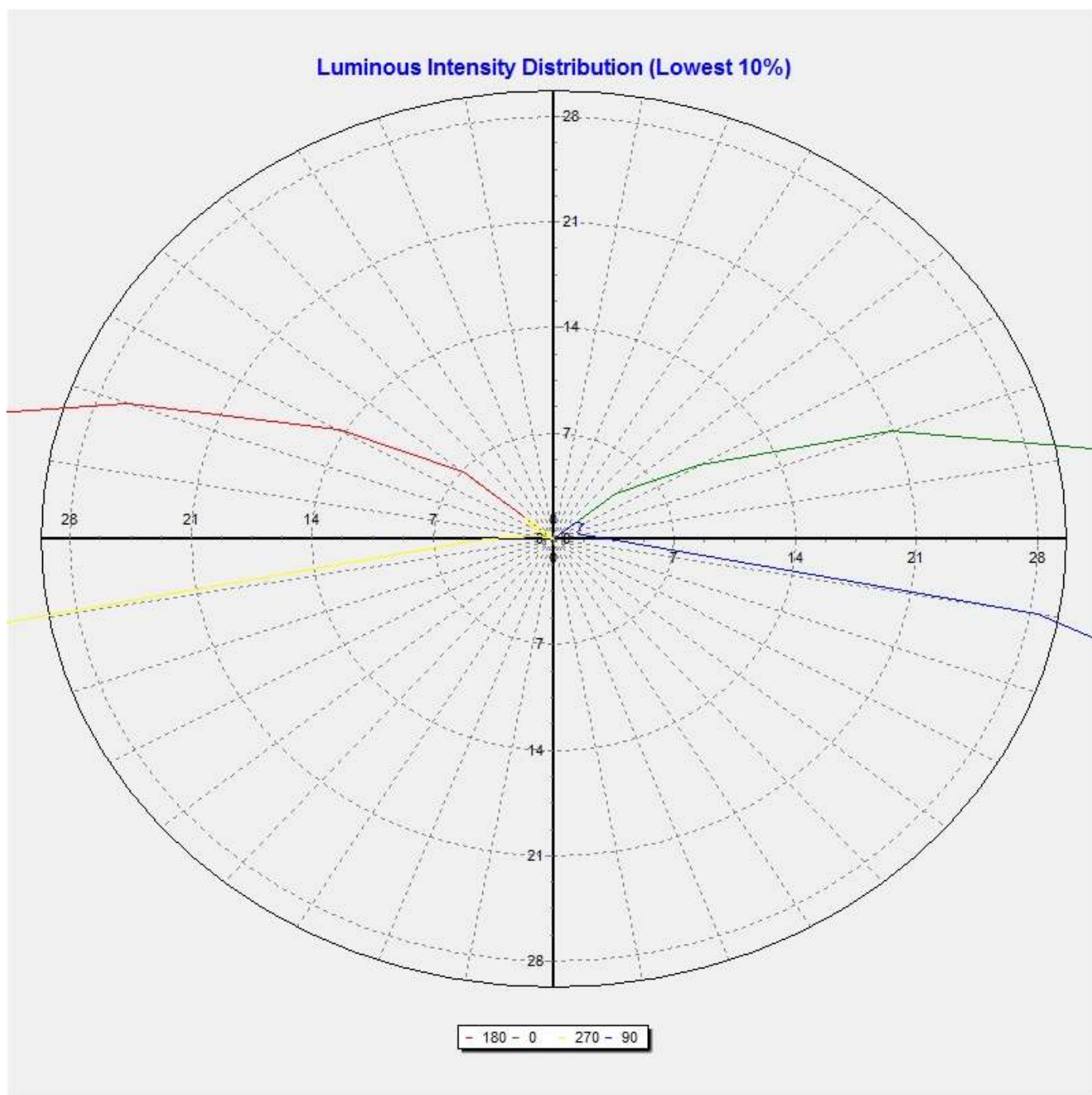
CGR

Total flux (lm) Date 545

Power Factor

1

2019-07-08 오후 3:52:28



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 FN2 30K-24V-C90.jdt

Lamp flux (lm) Operator: 5 Current (A) 0.361 CGR

Total flux (lm) Date: 545 Power Factor 1 2019-07-08 오후 3:52:28

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	160.58	160.17	159.82	159.73	160.87	161.84	160.58	160.17	159.82	159.73	160.87	161.84	160.58
10	156.44	155.94	156.12	156.62	158.15	159.78	159.96	159.90	157.86	158.46	157.38	157.98	156.44
20	145.96	146.50	146.92	147.63	149.79	151.50	153.37	153.29	151.02	150.23	149.58	149.96	145.96
30	133.08	131.39	132.32	134.47	138.01	139.08	142.40	143.02	139.46	135.78	137.19	136.45	133.08
40	115.13	114.23	114.10	114.90	119.73	123.24	128.17	127.45	122.96	119.39	118.84	119.63	115.13
50	95.81	93.92	92.68	94.62	98.68	104.84	110.63	109.12	102.60	98.22	98.02	100.20	95.81
60	77.06	73.40	68.27	68.42	76.15	83.79	90.71	88.19	79.84	73.66	74.04	79.20	77.06
70	57.68	53.31	44.67	40.77	51.58	63.54	71.70	67.33	55.38	46.45	50.37	58.94	57.68
80	41.78	36.05	24.60	15.53	30.10	44.60	53.19	48.15	33.91	20.04	29.26	41.13	41.78
90	28.25	23.12	11.89	1.72	15.05	29.30	37.18	31.42	16.74	2.18	13.93	26.82	28.25
100	18.29	14.01	5.67	0.87	6.78	17.64	23.51	19.26	6.91	0.53	6.11	16.33	18.29
110	11.35	7.77	1.56	0.76	2.95	10.19	14.33	11.48	2.55	0.00	2.91	9.32	11.35
120	5.29	3.37	1.01	1.11	1.71	4.47	7.85	3.79	0.21	0.71	1.03	4.98	5.29
130	2.51	1.48	0.87	0.89	1.08	0.80	3.73	1.36	0.81	1.20	1.52	1.90	2.51

Luminaire

Lamp Report 190708
 No. of lamps Filename: Z:\신뢰성시험실 계측기 데이터\배광측정기_GONI-150S\Data\2019\190708 FN2 30K-24V-C90.jdt
 Lamp flux (lm) Operator: 545 Current (A) 0.361 CGR
 Total flux (lm) Date: 545 Power Factor 1 2019-07-08 오후 3:52:28

Luminous Flux Table

Total Lamp Lumens: 545
 Luminaire Efficiency (lm/W): 544.98
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	3.84	3.84	0.70	0.70
10	30.03	33.86	6.21	6.21
20	56.06	89.92	16.50	16.50
30	74.96	164.88	30.25	30.25
40	84.35	249.23	45.73	45.73
50	83.85	333.08	61.12	61.12
60	73.72	406.81	74.64	74.65
70	56.75	463.56	85.06	85.06
80	37.60	501.16	91.96	91.96
90	21.69	522.85	95.94	95.94
100	12.22	535.06	98.18	98.18
110	6.45	541.51	99.36	99.36
120	2.81	544.32	99.88	99.88
130	0.66	544.98	100.00	100.00

Luminaire

Lamp Report

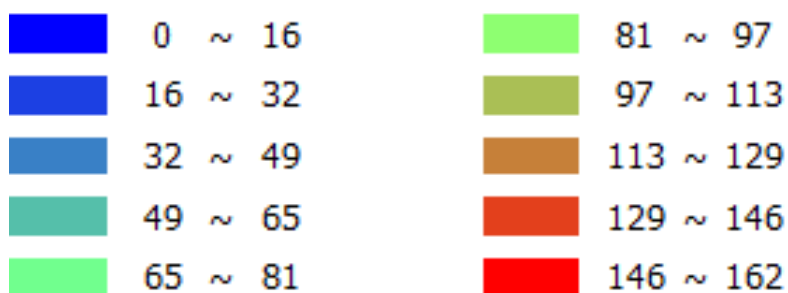
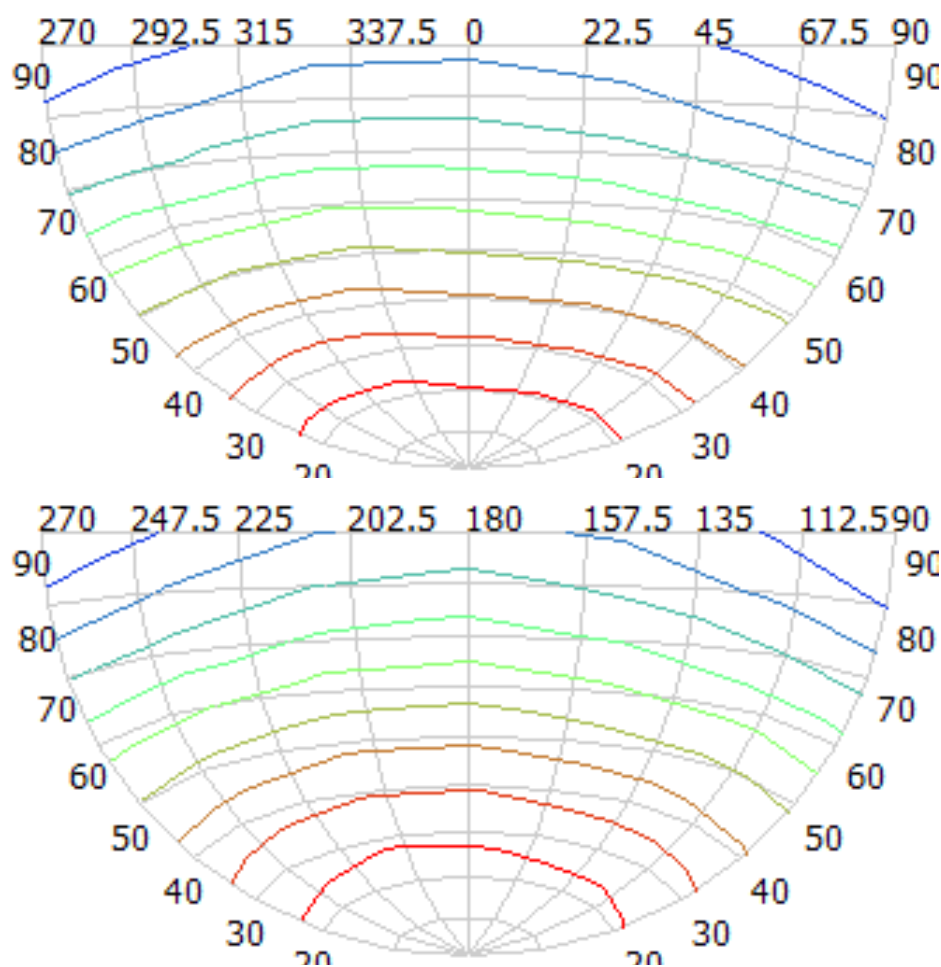
190708

No. of lamps Filename Z:\₩신뢰성시험실 계측기 데이터₩배광측정기_GONI-150S₩Data₩2019₩190708 FN2 30K-24V-C90.jdt

Lamp flux (lm) Operator 5 Current (A) 0.361 CGR

Total flux (lm) Date 545 Power Factor 1 2019-07-08 오후 3:52:28

IsoCandela (Type C)



Luminaire

Lamp Report

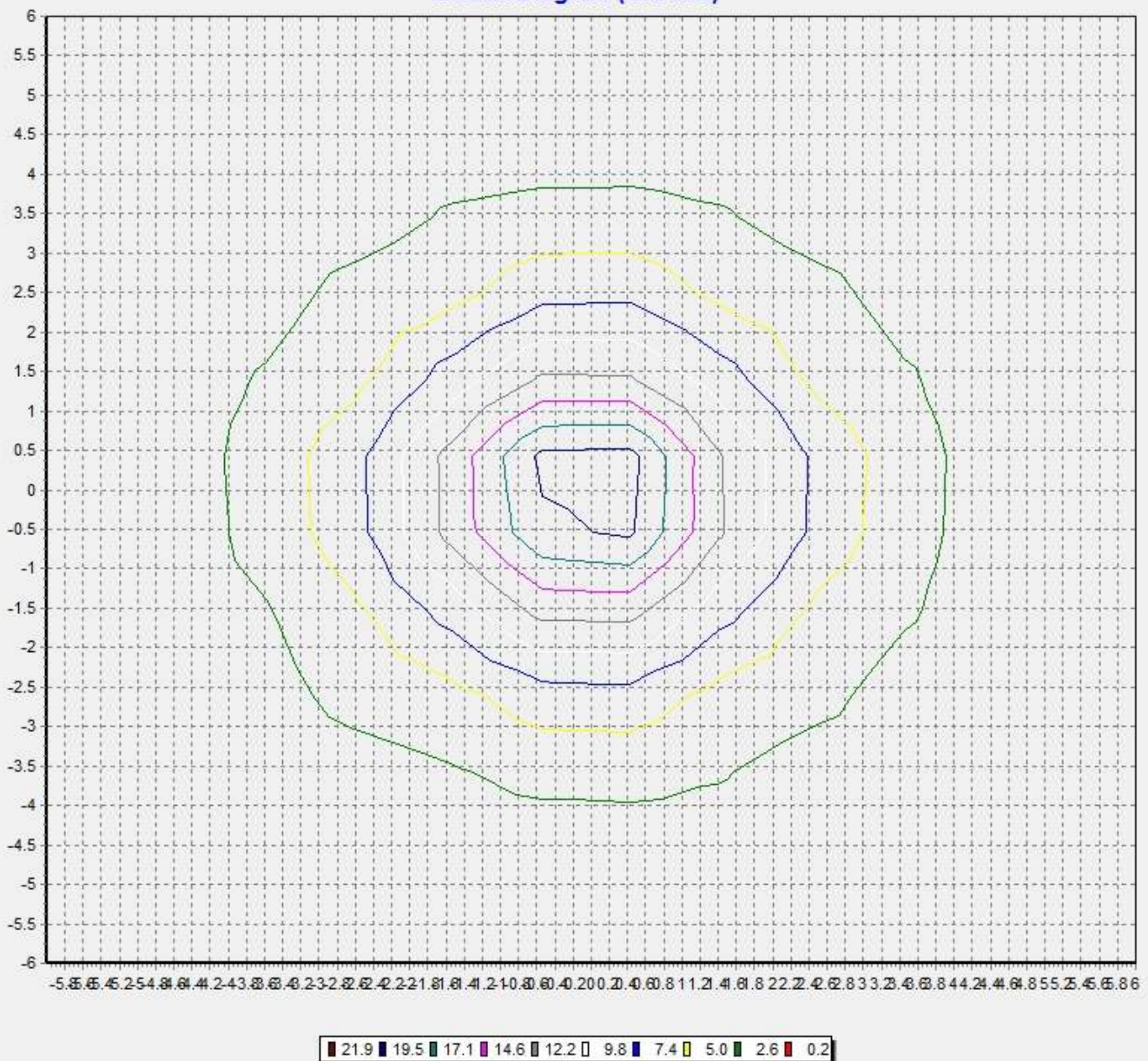
190708

No. of lamps Filename: Z:\신뢰성시험실 계측기 데이터\배광측정기_GONI-150S\Data\2019\190708 FN2 30K-24V-C90.jdt

Lamp flux (lm) Operator: 5 Current (A) 0.361 CGR

Total flux (lm) Date: 545 Power Factor 1 2019-07-08 오후 3:52:28

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 FN2 30K-24V-C90.jdt

Lamp flux (lm) Operator 5

Current (A)

0.361

CGR

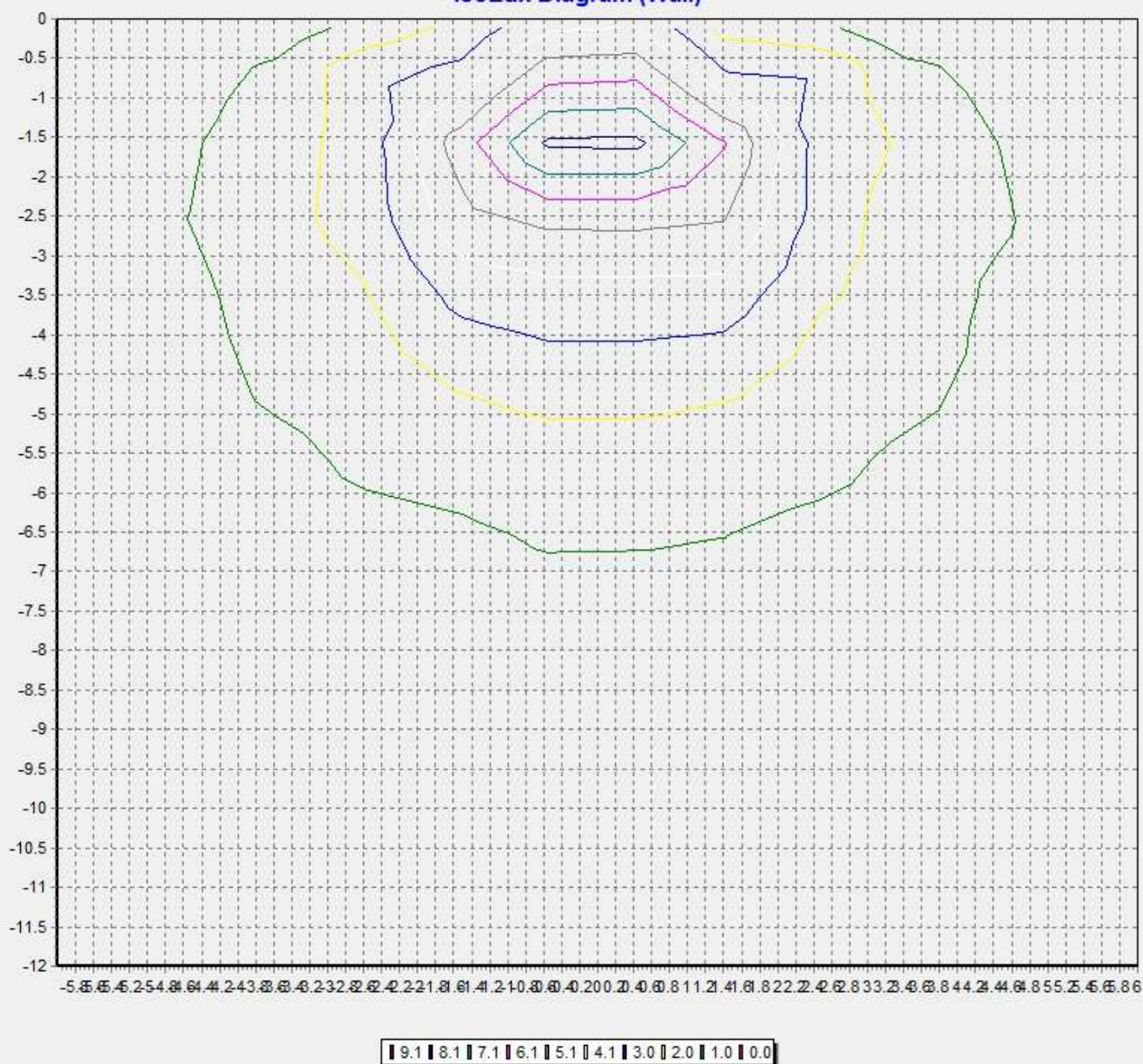
Total flux (lm) Date 545

Power Factor

1

2019-07-08 오후 3:52:28

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)	23.95	Filename Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150SWData\2019\190708 FN2 30K-24V-C90.jdt
Lamp flux (lm)	545	Current (A)	0.361	Operator CGR
Total flux (lm)	545	Power Factor	1	Date 2019-07-08 오후 3:52:28

Illuminance Levels (Ground)

6.00	0.25	0.33	0.26	0.39	0.46	0.49	0.50	0.48	0.47	0.40	0.28	0.32	0.27
5.00	0.38	0.30	0.41	0.55	1.11	1.24	1.33	1.24	1.07	0.57	0.43	0.36	0.35
4.00	0.37	0.53	0.94	1.35	1.47	1.72	1.90	1.73	1.42	1.31	0.94	0.50	0.34
3.00	0.41	0.74	1.47	1.66	3.22	3.69	4.05	3.55	3.17	1.70	1.36	0.68	0.41
2.00	0.53	1.15	1.51	3.45	4.71	7.51	8.66	7.20	4.61	3.22	1.44	1.08	0.51
1.00	0.70	1.46	2.12	3.83	7.57	13.27	17.68	12.92	7.20	3.59	1.91	1.33	0.61
0.00	0.76	1.58	2.37	4.69	9.47	18.07	22.03	17.66	8.64	4.09	2.03	1.36	0.62
-1.00	0.68	1.44	2.11	4.15	8.03	13.85	17.89	13.32	7.49	3.75	1.90	1.31	0.60
-2.00	0.63	1.27	1.72	3.62	5.26	7.99	8.90	7.49	4.78	3.35	1.46	1.12	0.50
-3.00	0.51	0.82	1.57	2.01	3.46	4.04	4.21	3.72	3.33	1.70	1.42	0.70	0.40
-4.00	0.43	0.61	1.10	1.48	1.70	1.90	2.01	1.91	1.45	1.39	0.96	0.50	0.35
-5.00	0.42	0.44	0.53	0.69	1.24	1.33	1.39	1.35	1.11	0.61	0.44	0.32	0.36
-6.00	0.32	0.38	0.34	0.50	0.58	0.55	0.55	0.57	0.47	0.39	0.29	0.34	0.26
-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.): 22.0

All illuminance level values are in lux.

Illum. (Min.): 0.25

Illum. Avg.: 2.68

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 FN2 30K-24V-C90.jdt

Lamp flux (lm) Operator: 5

Current (A)

0.361

CGR

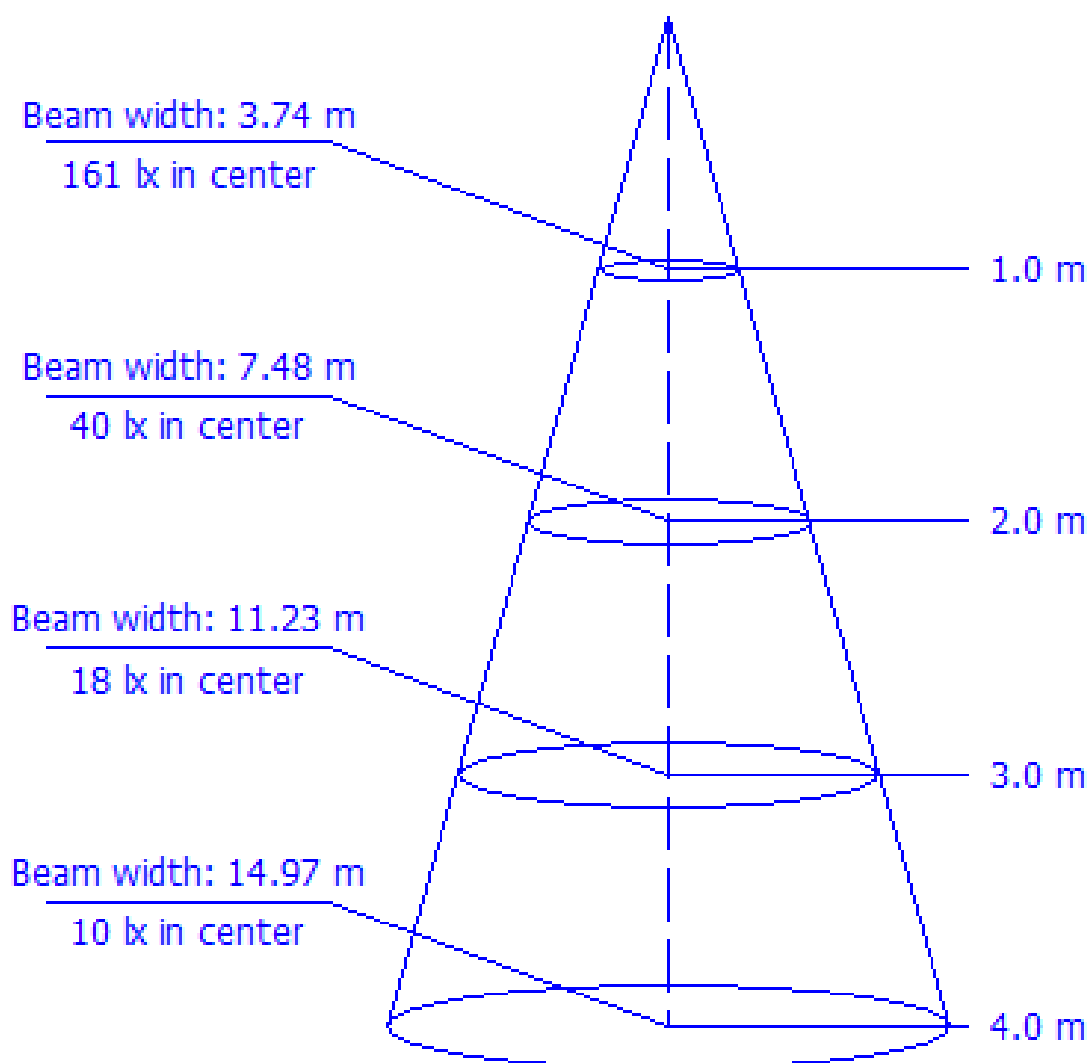
Total flux (lm) Date: 545

Power Factor

1

2019-07-08 오후 3:52:28

Illuminance Cone Diagram



Beam Angle = 124 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp

Report

190708

No. of lamps	1	Voltage (V)	23.95	Filename Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150SWData\2019\190708 FN2 30K-24V-C90.jdt
Lamp flux (lm)	545	Current (A)	0.361	Operator CGR
Total flux (lm)	545	Power Factor	1	Date 2019-07-08 오후 3:52:28

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