

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 : 190612

2. Purpose of Report :

3. Test Standard / Item : LED / 190612 MRS3 30K-24V-25

4. Test Period : 190612 ~ 190612

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
190612	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.4285, 0.4006	
Correlated Color Temperature	K	3135	
Ra	-	92.04	
Power Factor	%	1.000	
Input Voltage	V	23.970	
Input Current	A	0.088	
Input Watt	W	2.11	
Lamp Flux	lm	144.2	
Efficient	lm/W	68.36	
Illuminance	lx	594	1 m
		148	2 m
		66	3 m

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

Sample photo

Click to load image

Luminaire

Lamp Report

190612

No. of lamps Filename Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150S\₩Data\2019\₩190612 MRS3 30K-24V-25.jdt

Lamp flux (lm)Operator4

Current (A)

0.088

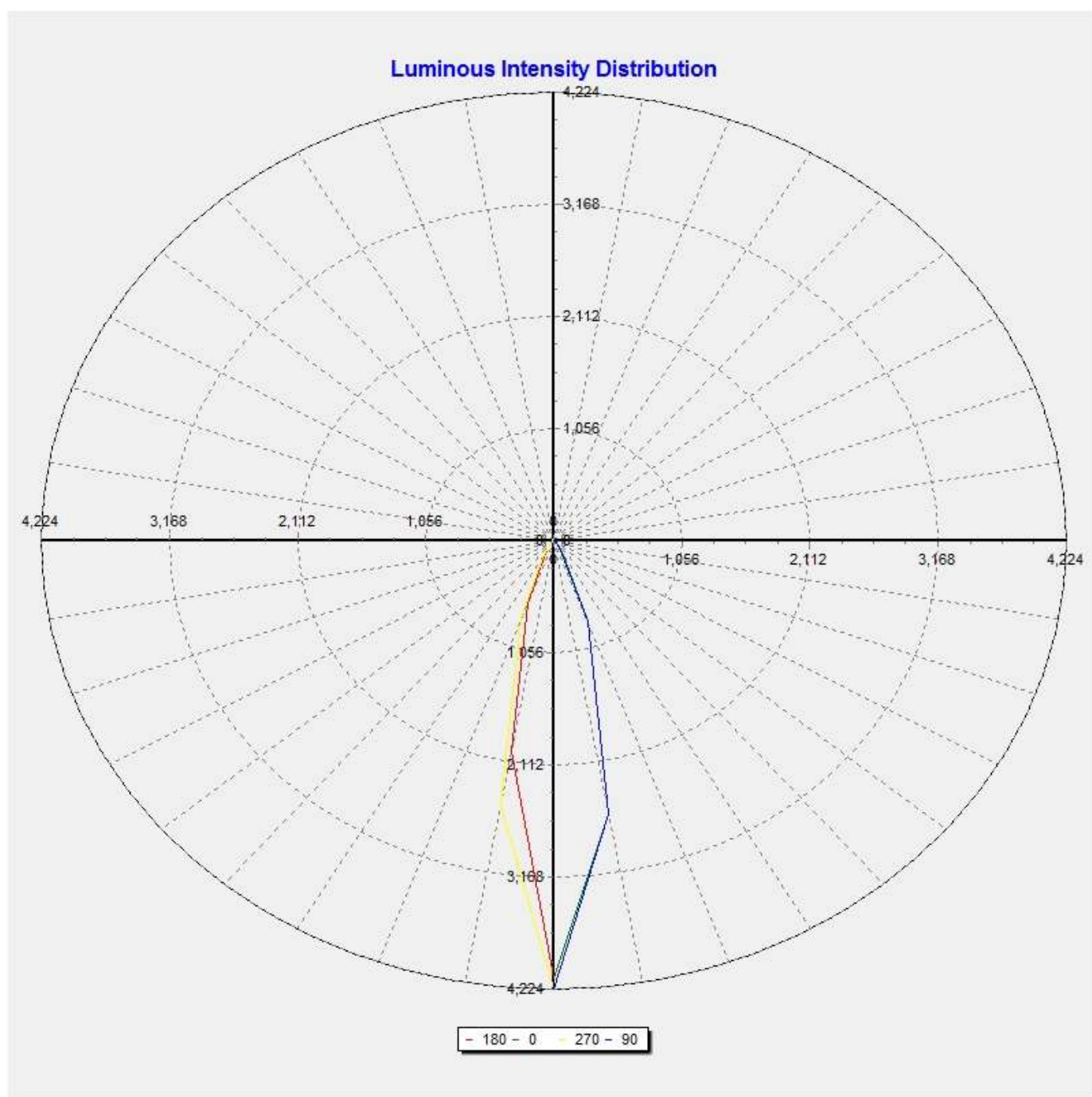
CGR

Total flux (lm)Date 144

Power Factor

1

2019-06-12 오전 11:08:41



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp Report

190612

No. of lamps Filename Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150S\₩Data\2019\₩190612 MRS3 30K-24V-25.jdt

Lamp flux (lm)Operator14

Current (A)

0.088

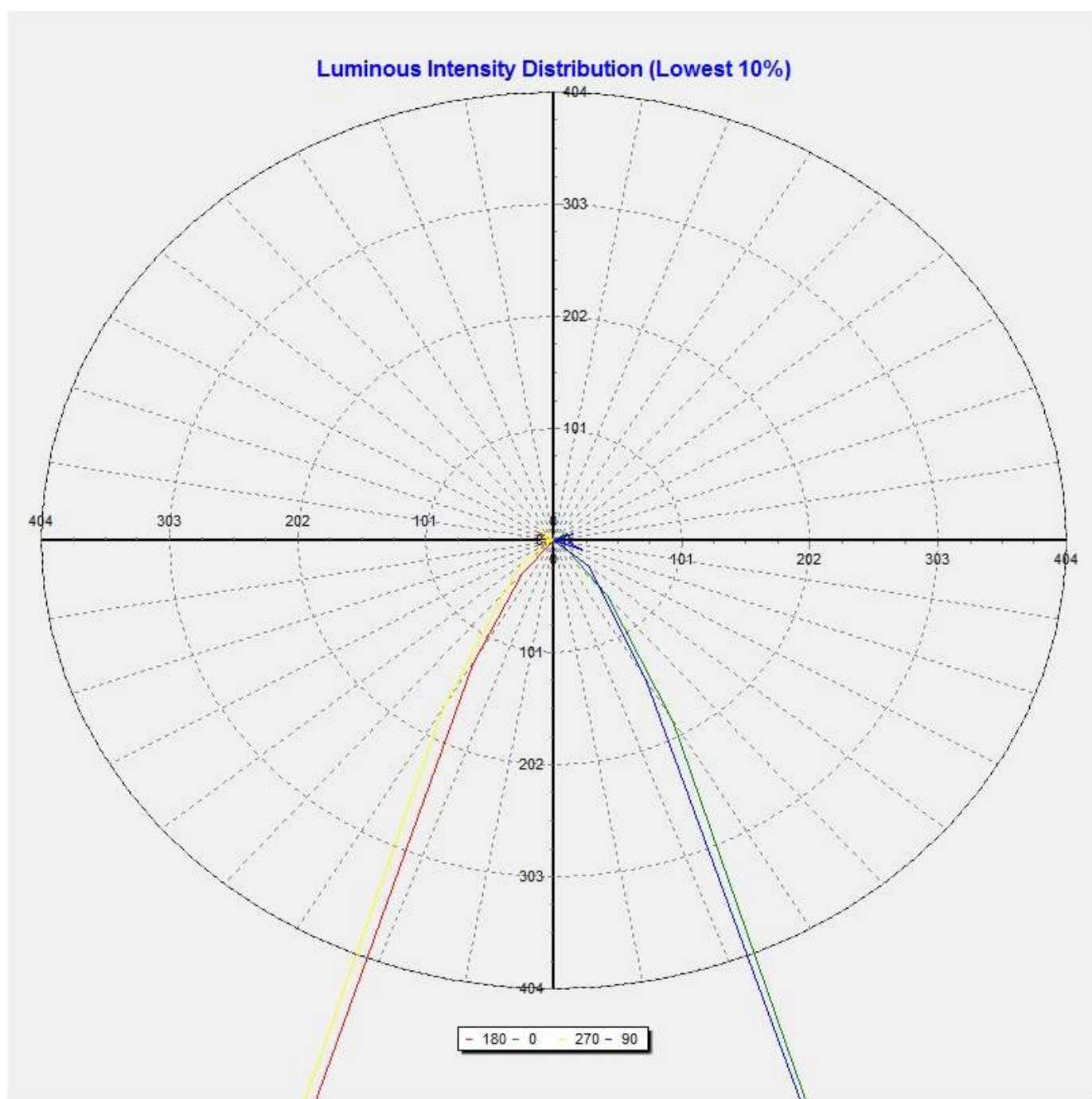
CGR

Total flux (lm)Date 144

Power Factor

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Lamp flux (lm) Operator l4 Current (A) 0.088 CGR

Total flux (lm) Date 144 Power Factor 1 2019-06-12 오전 11:08:41

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	593.57	607.44	605.97	608.49	608.21	600.30	593.57	607.44	605.97	608.49	608.21	600.30	593.57
10	376.42	357.09	347.70	377.26	398.42	326.20	290.83	300.84	327.74	363.95	376.56	403.53	376.42
20	116.97	105.62	106.60	116.76	126.84	94.62	90.35	88.04	96.58	111.57	116.97	137.21	116.97
30	27.10	22.96	21.77	20.72	26.12	21.42	18.34	17.92	20.23	25.28	22.54	28.57	27.10
40	9.30	6.64	8.67	7.97	7.90	6.92	5.66	5.17	3.35	8.74	8.74	10.21	9.30
50	2.16	2.65	3.21	5.17	3.07	3.07	-0.22	3.35	3.28	4.89	2.79	2.65	2.16
60	1.11	2.02	0.97	-0.64	4.12	0.41	1.60	-2.46	-0.29	0.69	-0.01	2.72	1.11
70	0.76	-0.78	-0.36	3.42	0.76	-0.43	-0.99	-2.46	3.56	-2.04	0.55	-0.36	0.76
80	-0.01	1.25	-2.04	1.74	-1.48	-0.71	-0.01	-1.69	-2.04	-0.71	-1.20	-0.15	-0.01
90	1.11	-2.18	-1.27	2.16	0.20	-1.34	0.69	1.32	-2.04	1.46	1.39	0.69	1.11
100	-1.13	1.88	0.62	-0.08	0.20	-0.78	-2.46	0.06	0.20	-1.13	-0.01	-0.50	-1.13
110	0.34	0.90	-0.64	2.37	1.60	0.27	0.34	1.25	-0.43	1.11	1.04	2.23	0.34
120	1.81	-2.95	-0.64	-0.99	2.44	-1.55	2.16	2.93	0.62	0.97	0.83	-1.55	1.81
130	-1.62	1.53	-1.97	-2.39	0.55	0.34	-0.78	-0.85	-1.97	1.53	2.79	1.95	-1.62

Luminaire

Lamp Report 190612

No. of lamps Filename Z:\₩신뢰성시험실 계측기 데이터₩배광측정기_GONI-150S₩Data₩2019₩190612 MRS3 30K-24V-25.jdt

Lamp flux (lm)Operator!4 Current (A) 0.088 CGR

Total flux (lm)Date 144 Power Factor 1 2019-06-12 오전 11:08:41

Luminous Flux Table

Total Lamp Lumens: 144

Luminaire Efficiency (lm/W):144.20

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	14.44	14.44	10.01	10.01
10	67.30	81.74	56.69	56.69
20	40.83	122.58	85.01	85.01
30	12.46	135.04	93.64	93.65
40	5.24	140.27	97.28	97.28
50	2.52	142.80	99.03	99.03
60	0.81	143.60	99.59	99.59
70	0.14	143.74	99.68	99.68
80	-0.64	143.11	99.24	99.24
90	0.20	143.30	99.38	99.38
100	-0.28	143.02	99.18	99.18
110	0.89	143.91	99.80	99.80
120	0.32	144.23	100.02	100.02
130	-0.03	144.20	100.00	100.00

Luminaire

Lamp Report

190612

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Lamp flux (lm)Operator14

Current (A)

0.088

CGR

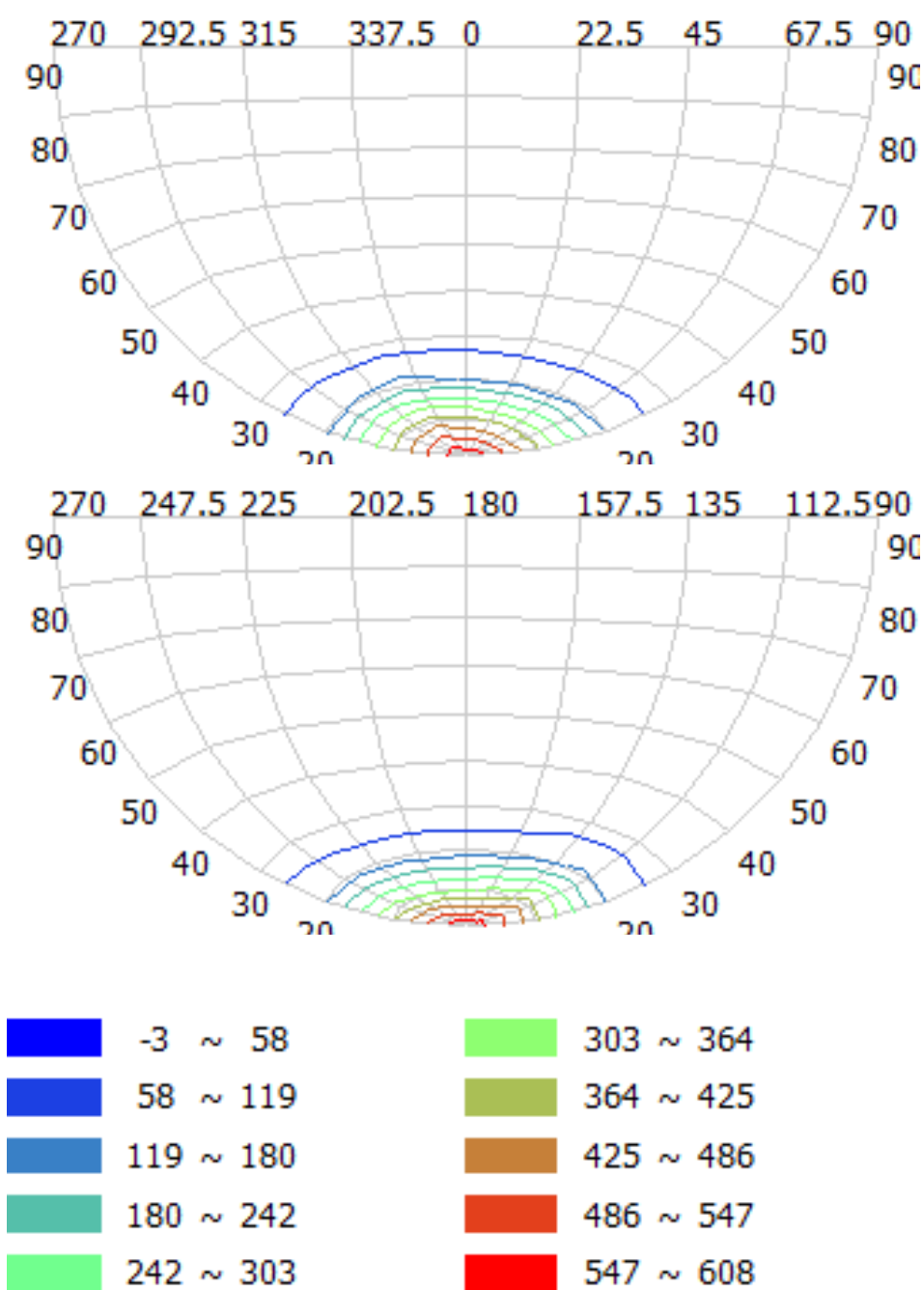
Total flux (lm)Date 144

Power Factor

1

2019-06-12 오전 11:08:41

IsoCandela (Type C)



Luminaire

Lamp Report

190612

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Lamp flux (lm) Operator l4

Current (A)

0.088

CGR

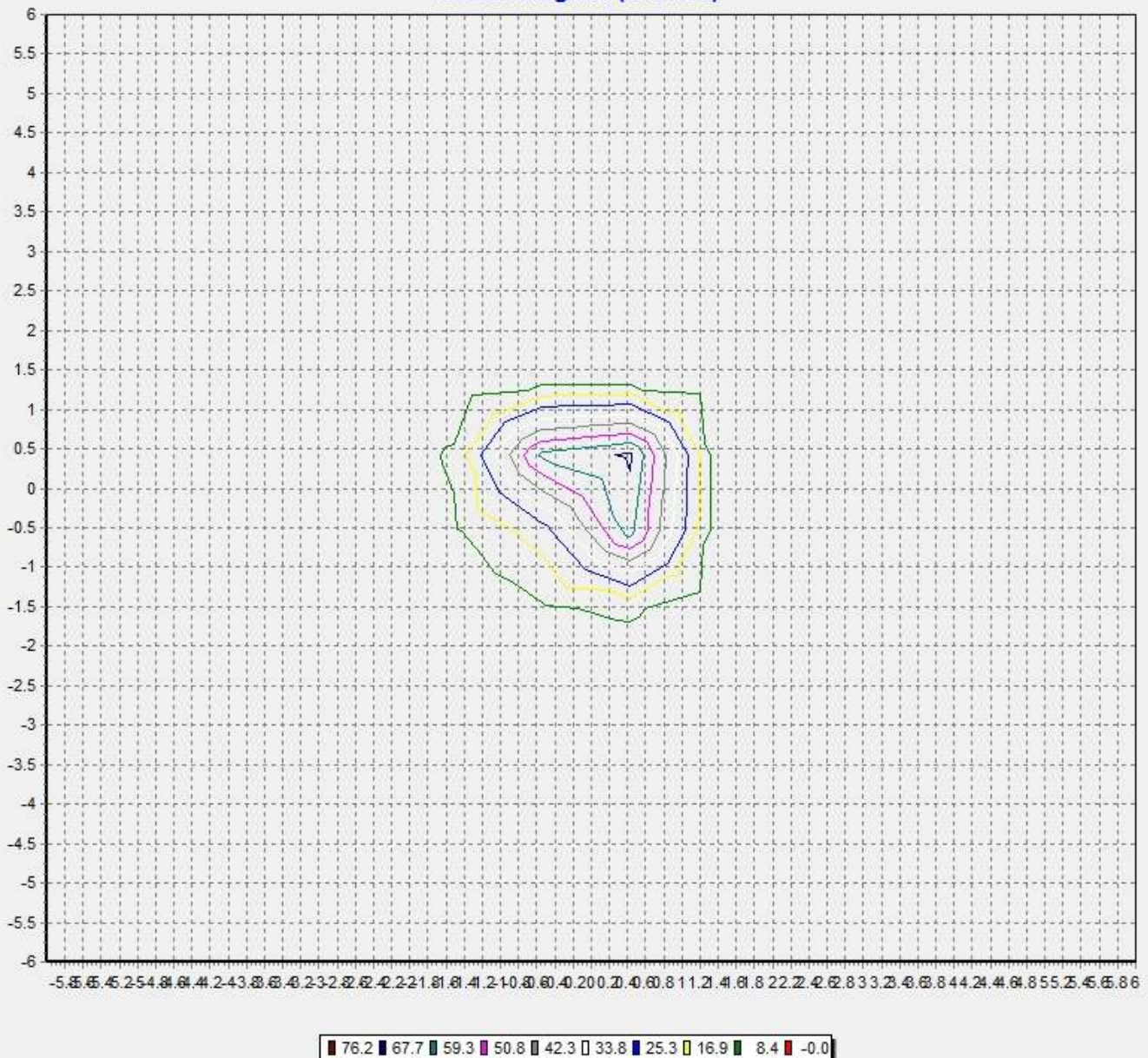
Total flux (lm) Date 144

Power Factor

1

2019-06-12 오전 11:08:41

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp Report

190612

No. of lamps Filename Z:\신뢰성시험실 계측기 데이터\배광측정기_GONI-150S\Data\2019\190612 MRS3 30K-24V-25.jdt

Lamp flux (lm) Operator l4

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CGR

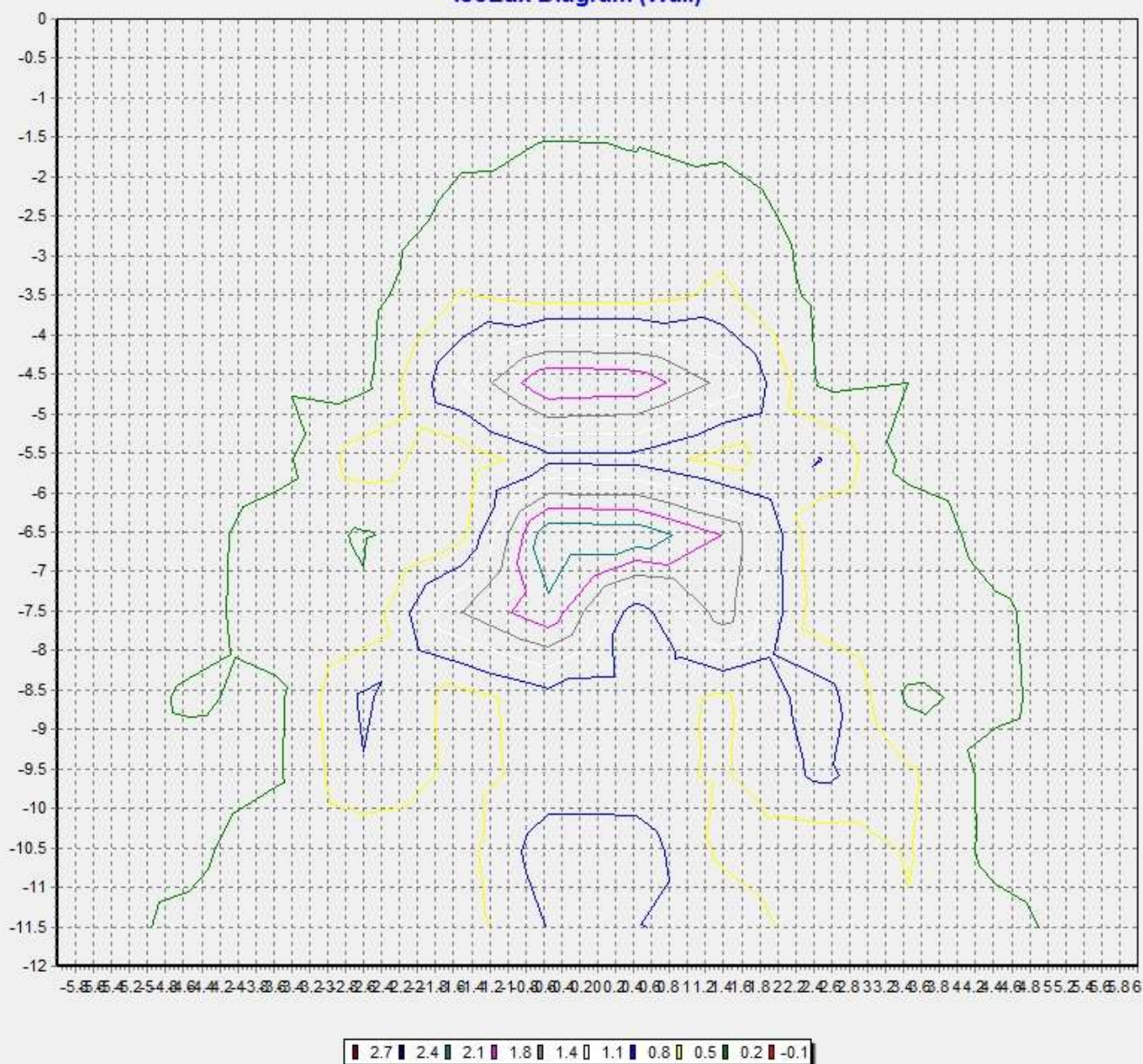
Total flux (lm) Date 144

Power Factor

1

2019-06-12 오전 11:08:41

IsoLux Diagram (Wall)



Pole Height (m): 2.7

Wall Distance (m): 2.7

Aiming Plane: 0

Wall Height (m): 12

Luminaire

Lamp				Report	190612
No. of lamps	1	Voltage (V)	23.97	Filename Z:\₩신뢰성시험실 계측기 데이터\배광측정기_GONI-150SWData\2019W190612 MRS3 30K-24V-25.jdt	
Lamp flux (lm)	144	Current (A)	0.088	Operator	CGR
Total flux (lm)	144	Power Factor	1	Date	2019-06-12 오전 11:08:41

Illuminance Levels (Ground)

6.00	0.01	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.00	0.00	0.00	0.01	0.00
5.00	0.01	0.01	0.02	0.02	0.04	0.04	0.06	0.05	0.03	0.00	0.00	0.00	0.01
4.00	0.00	0.00	0.03	0.06	0.07	0.03	0.04	0.03	0.04	0.04	0.02	0.00	0.00
3.00	0.01	0.00	0.04	0.05	0.21	0.15	0.24	0.12	0.20	0.04	0.03	0.01	0.00
2.00	0.01	0.04	0.07	0.17	0.25	0.54	0.88	0.47	0.20	0.20	0.04	0.03	0.00
1.00	0.00	0.01	0.03	0.12	0.53	4.44	41.72	4.32	0.47	0.10	0.05	0.03	0.01
0.00	0.00	0.00	0.02	0.04	0.72	32.16	81.42	41.63	1.10	0.15	0.04	0.03	0.01
-1.00	0.00	0.02	0.03	0.08	0.36	3.32	40.25	4.31	0.59	0.11	0.05	0.03	0.01
-2.00	-0.01	0.01	-0.03	0.12	0.13	0.34	1.03	0.58	0.25	0.23	0.01	0.03	0.00
-3.00	-0.02	0.00	0.01	0.00	0.10	0.13	0.23	0.14	0.22	0.03	0.04	0.01	0.00
-4.00	-0.01	-0.01	0.01	0.04	-0.03	0.03	0.06	0.03	0.01	0.06	0.02	0.00	0.00
-5.00	0.00	-0.01	0.01	0.02	0.02	0.05	0.06	0.04	0.03	-0.01	-0.01	0.00	0.01
-6.00	0.00	0.00	0.02	-0.01	-0.01	0.00	-0.01	0.01	0.00	0.00	-0.01	0.00	0.00
-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.): 81.4

All illuminance level values are in lux.

Illum. (Min.): -0.03

Illum. Avg.: 1.58

Total Optical Solution Provider

Luminaire

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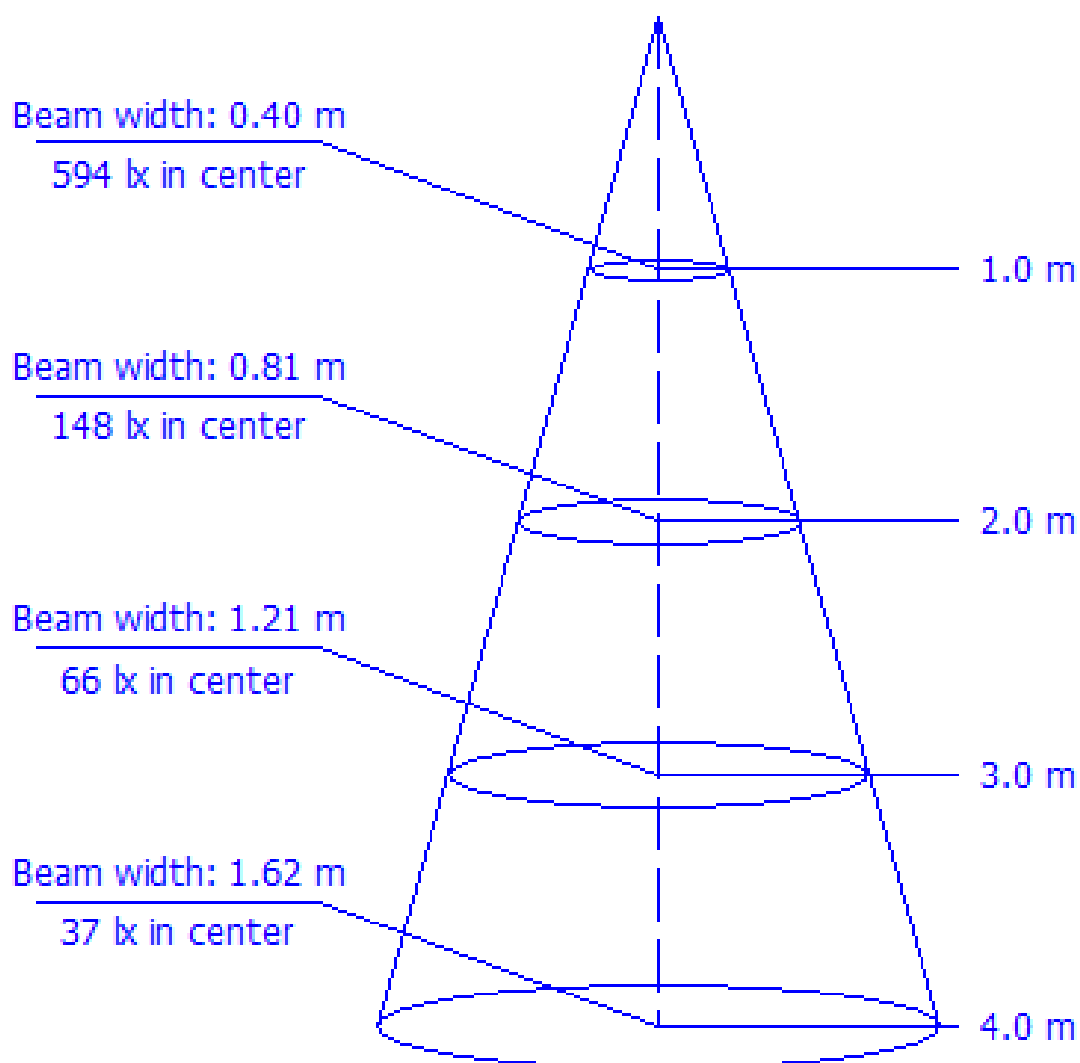
Total flux (lm)Date 144

Power Factor

1

2019-06-12 오전 11:08:41

Illuminance Cone Diagram



Beam Angle = 23 deg.

Based on 50% of maximum illuminance.

Luminaire

Lamp				Report	190612
No. of lamps	1	Voltage (V)	23.97	Filename Z:\₩신뢰성시험실 계측기 데이터\₩배광측정기_GONI-150SWData\2019W190612 MRS3 30K-24V-25.jdt	
Lamp flux (lm)	144	Current (A)	0.088	Operator	CGR
Total flux (lm)	144	Power Factor	1	Date	2019-06-12 오전 11:08:41

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