

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 : 190320

2. Purpose of Report :

3. Test Standard / Item : LED / 190320 MRS3 40K-24V-SV-60

4. Test Period : 190320 ~ 190320

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
190320	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3882, 0.3871	
Correlated Color Temperature	K	3881	
Ra	-	81.6	
Power Factor	%	1.000	
Input Voltage	V	23.980	
Input Current	A	0.105	
Input Watt	W	2.52	
Lamp Flux	lm	225.7	
Efficient	lm/W	89.64	
Illuminance	lx	285	1 m
		71	2 m
		32	3 m

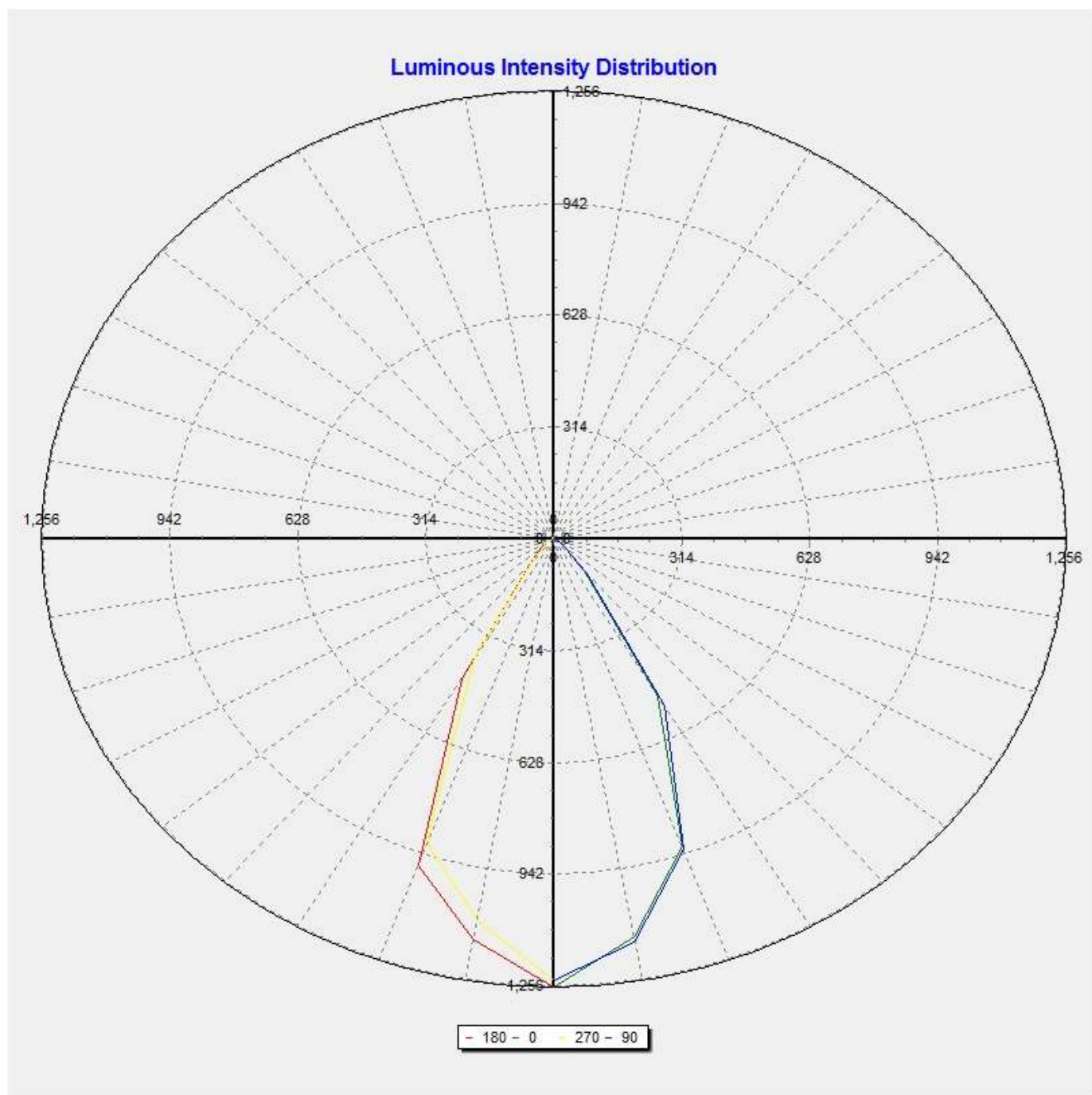
* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

Lamp	Report	190320
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190320 MRS3 40K-24V-SV-60.jdt	
Lamp flux (lm)	226 Operator	Current (A) 0.105 CGR
Total flux (lm)	226 Date	Power Factor 1 2019-03-20 오전 11:53:50

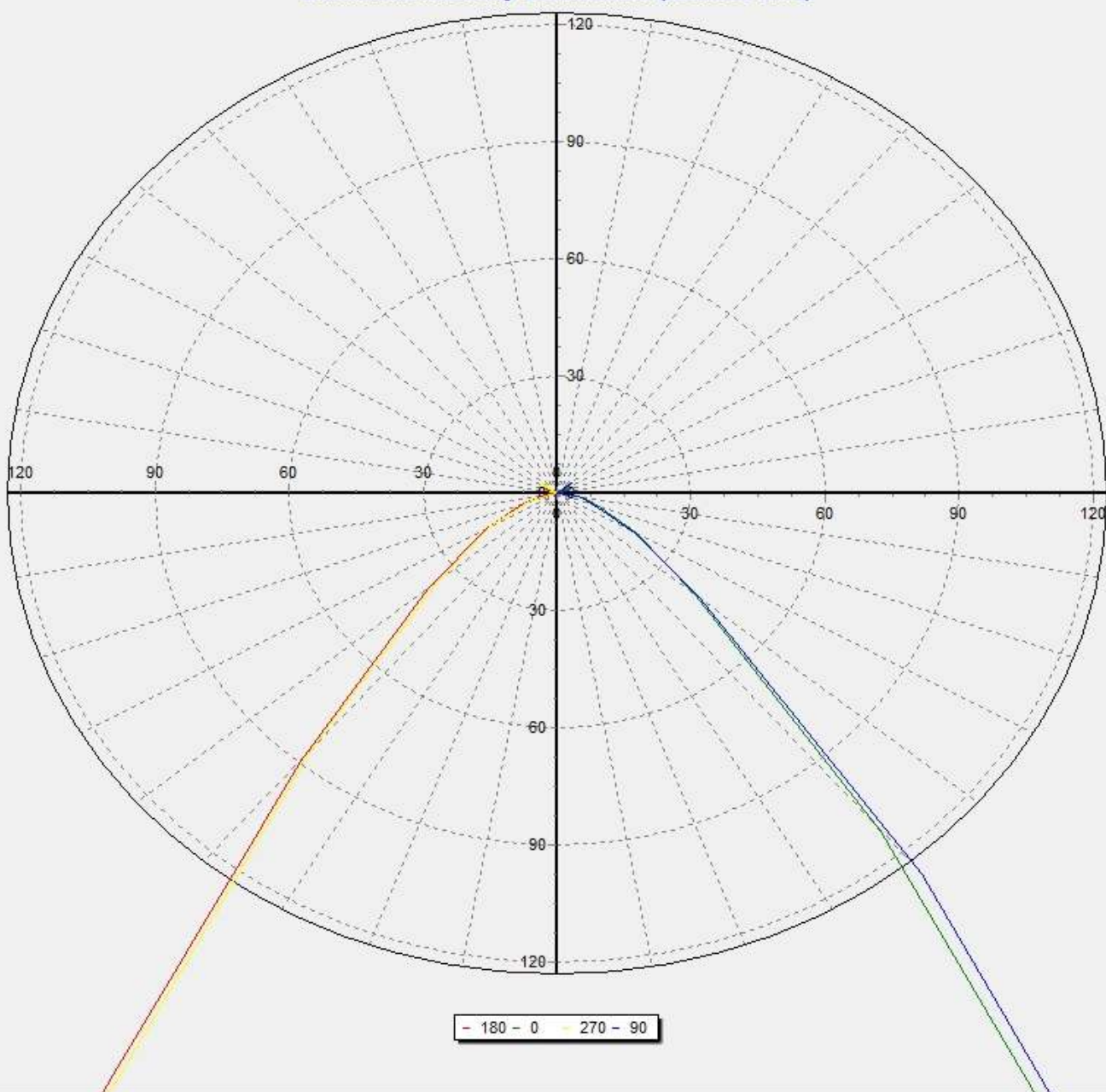


All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp	Report	190320
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190320 MRS3 40K-24V-SV-60.jdt	
Lamp flux (lm)	226 Operator	Current (A) 0.105 CGR
Total flux (lm)	226 Date	Power Factor 1 2019-03-20 오전 11:53:50

Luminous Intensity Distribution (Lowest 10%)



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp	Report			190320
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190320 MRS3 40K-24V-SV-60.jdt			
Lamp flux (lm)	226 Operator	Current (A)	0.105	CGR
Total flux (lm)	226 Date	Power Factor	1	2019-03-20 오전 11:53:50

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	284.61	283.51	277.52	280.24	273.83	276.85	284.61	283.51	277.52	280.24	273.83	276.85	284.61
10	255.99	241.25	249.58	259.75	264.94	275.55	258.12	270.76	255.87	245.67	240.98	228.13	255.99
20	207.53	199.82	206.07	210.06	218.68	238.22	220.50	234.21	221.86	205.38	185.07	180.98	207.53
30	114.98	93.54	108.04	122.71	140.62	156.40	102.04	128.47	113.39	87.53	69.58	64.74	114.98
40	25.51	19.34	24.08	28.72	35.18	40.33	20.19	27.17	24.23	19.23	16.16	14.79	25.51
50	9.13	8.03	8.20	9.34	10.20	10.91	8.51	9.25	8.60	7.84	6.77	6.71	9.13
60	4.58	3.34	4.14	4.55	4.89	5.54	4.07	4.47	4.07	3.98	4.08	3.05	4.58
70	2.37	1.14	1.47	1.98	2.54	3.40	1.85	2.91	2.13	1.61	2.20	2.10	2.37
80	1.34	0.84	0.98	1.14	1.01	1.15	0.77	0.87	0.81	0.35	0.52	0.26	1.34
90	-0.39	-0.46	0.47	-0.36	-0.29	-0.13	0.31	-0.27	-0.46	-0.50	-0.17	0.46	-0.39
100	-0.13	0.47	-0.02	-0.12	-0.75	0.30	0.06	0.05	0.55	0.36	-0.38	0.06	-0.13
110	0.71	0.37	-0.26	-0.17	0.56	-0.34	0.43	0.58	0.80	-0.20	0.06	0.17	0.71
120	0.32	0.65	0.04	0.33	0.78	-0.18	0.93	-0.16	0.21	0.94	0.55	-0.10	0.32
130	0.89	0.43	0.46	0.94	0.47	0.86	0.66	0.80	0.53	0.70	0.39	0.79	0.89

Luminaire

Lamp	Report	190320
No. of lamps	1	Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190320 MRS3 40K-24V-SV-60.jdt
Lamp flux (lm)	226	Operator Current (A) 0.105 CGR
Total flux (lm)	226	Date Power Factor 1 2019-03-20 오전 11:53:50

Luminous Flux Table

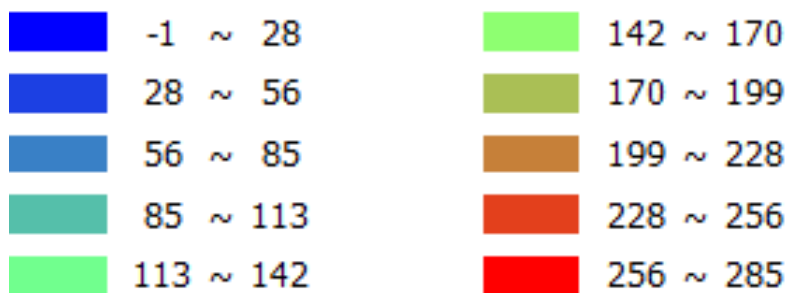
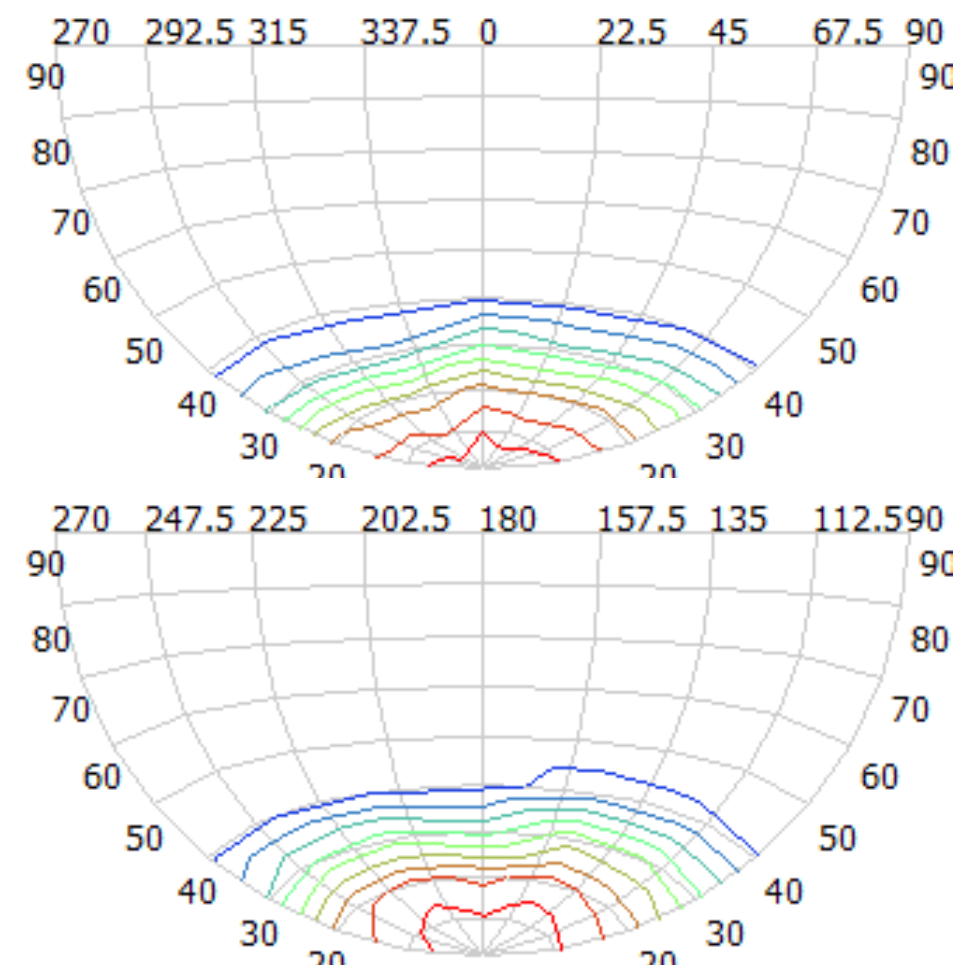
Total Lamp Lumens: 226
 Luminaire Efficiency (lm/W):225.70
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	6.68	6.68	2.96	2.96
10	48.28	54.97	24.35	24.35
20	78.93	133.89	59.32	59.32
30	59.42	193.31	85.65	85.65
40	17.30	210.61	93.31	93.31
50	7.24	217.85	96.52	96.52
60	4.01	221.86	98.30	98.30
70	2.20	224.06	99.27	99.27
80	0.90	224.96	99.67	99.67
90	-0.16	224.80	99.60	99.60
100	0.04	224.84	99.62	99.62
110	0.23	225.08	99.72	99.72
120	0.34	225.42	99.87	99.87
130	0.29	225.70	100.00	100.00

Luminaire

Lamp	Report	190320
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190320 MRS3 40K-24V-SV-60.jdt	
Lamp flux (lm)	226 Operator	Current (A) 0.105 CGR
Total flux (lm)	226 Date	Power Factor 1 2019-03-20 오전 11:53:50

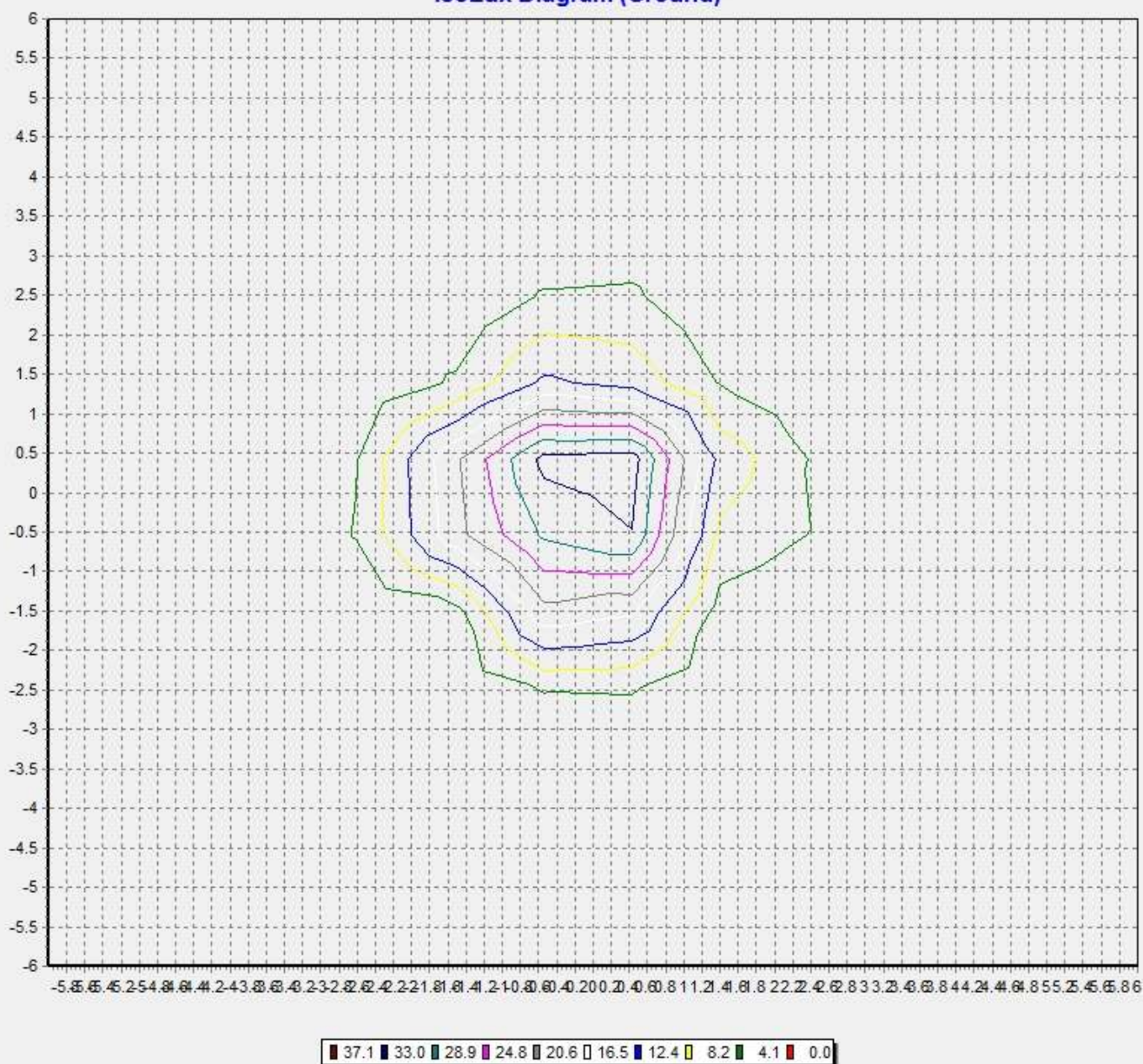
IsoCandela (Type C)



Luminaire

Lamp	Report	190320
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190320 MRS3 40K-24V-SV-60.jdt	
Lamp flux (lm)	226 Operator	Current (A) 0.105 CGR
Total flux (lm)	226 Date	Power Factor 1 2019-03-20 오전 11:53:50

IsoLux Diagram (Ground)



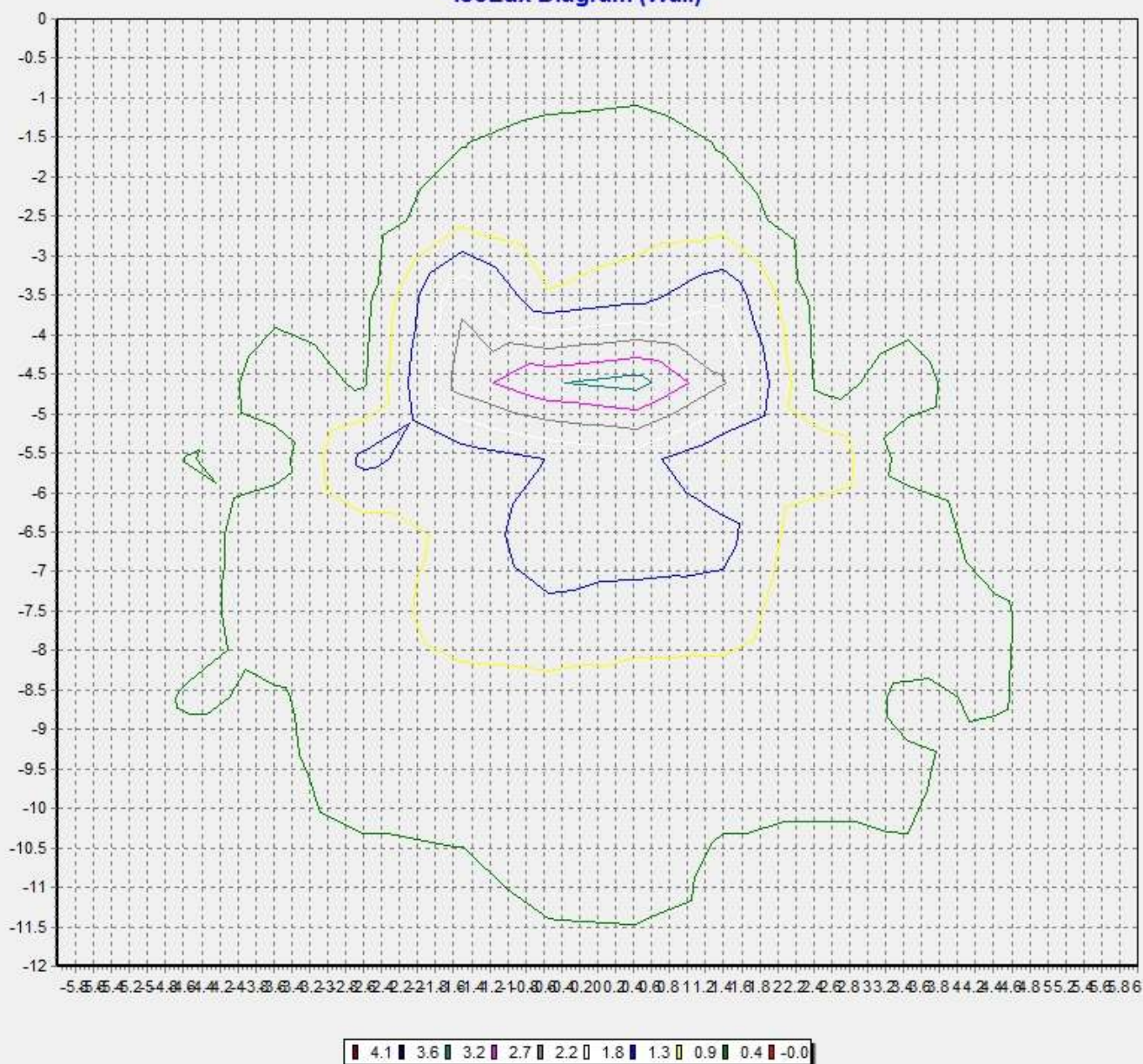
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp	Report	190320
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190320 MRS3 40K-24V-SV-60.jdt	
Lamp flux (lm)	226 Operator	Current (A) 0.105 CGR
Total flux (lm)	226 Date	Power Factor 1 2019-03-20 오전 11:53:50

IsoLux Diagram (Wall)



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

Luminaire

Lamp

Report

190320

No. of lamps 1 Voltage (V) 23.98

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190320 MRS3 40K-24V-SV-60.jdt

Lamp flux (lm) 226 Current (A) 0.105

Operator CGR

Total flux (lm) 226 Power Factor 1

Date 2019-03-20 오전 11:53:50

Illuminance Levels (Ground)

6.00	0.02	0.02	0.01	0.02	0.03	0.02	0.03	0.03	0.02	0.01	0.01	0.02	0.01
5.00	0.02	0.02	0.02	0.03	0.10	0.11	0.13	0.11	0.08	0.03	0.02	0.01	0.02
4.00	0.02	0.03	0.08	0.13	0.10	0.13	0.16	0.13	0.07	0.11	0.07	0.02	0.01
3.00	0.02	0.04	0.15	0.13	0.68	0.41	0.54	0.33	0.55	0.11	0.12	0.03	0.01
2.00	0.03	0.11	0.11	0.90	0.81	2.40	4.37	1.42	0.62	0.58	0.08	0.08	0.02
1.00	0.03	0.12	0.14	0.44	2.49	14.41	29.20	12.17	1.43	0.34	0.11	0.10	0.02
0.00	0.03	0.11	0.14	0.44	3.46	29.06	39.04	28.78	4.03	0.51	0.15	0.12	0.03
-1.00	0.03	0.13	0.15	0.37	1.88	13.51	27.64	10.11	1.13	0.27	0.12	0.10	0.03
-2.00	0.03	0.09	0.09	0.51	0.65	1.91	3.06	1.16	0.50	0.36	0.08	0.07	0.02
-3.00	0.02	0.03	0.12	0.11	0.58	0.37	0.41	0.29	0.45	0.10	0.09	0.03	0.02
-4.00	0.01	0.02	0.07	0.12	0.09	0.12	0.13	0.12	0.08	0.10	0.06	0.02	0.01
-5.00	0.02	0.02	0.02	0.03	0.09	0.10	0.11	0.10	0.07	0.03	0.02	0.01	0.02
-6.00	0.01	0.02	0.01	0.02	0.03	0.02	0.02	0.03	0.02	0.02	0.01	0.02	0.01
-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.): 39.04

All illuminance level values are in lux.

Illum. (Min.): 0.01

Illum. Avg.: 1.49

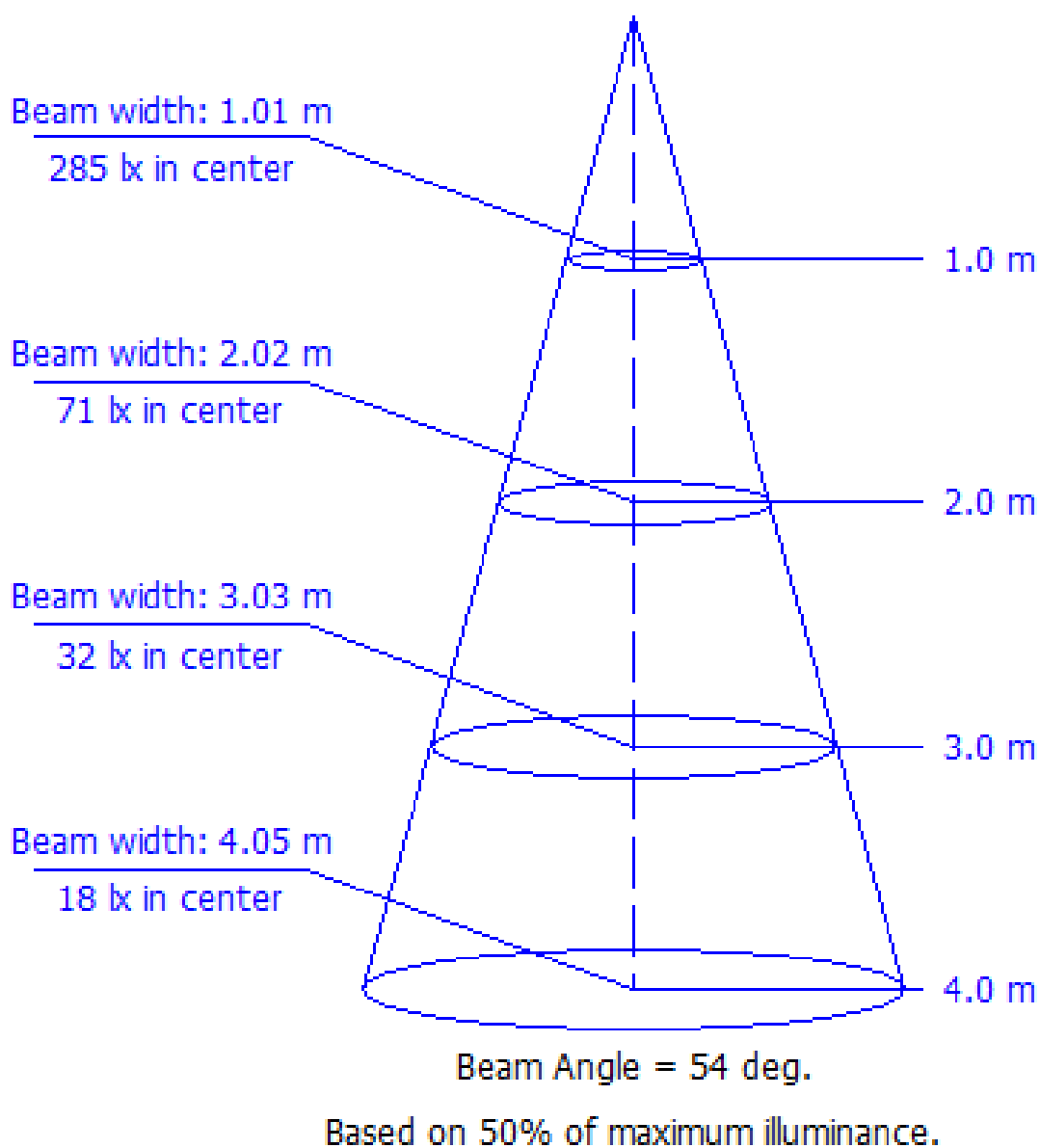
Total Optical Solution Provider


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

Luminaire

Lamp	Report			190320
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190320 MRS3 40K-24V-SV-60.jdt			
Lamp flux (lm)	226 Operator	Current (A)	0.105	CGR
Total flux (lm)	226 Date	Power Factor	1	2019-03-20 오전 11:53:50

Illuminance Cone Diagram



Luminaire

Lamp

Report

190320

No. of lamps	1	Voltage (V)	23.98	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190320 MRS3 40K-24V-SV-60.jdt
Lamp flux (lm)	226	Current (A)	0.105	Operator	CGR
Total flux (lm)	226	Power Factor	1	Date	2019-03-20 오전 11:53:50

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