

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 : 190319

2. Purpose of Report :

3. Test Standard / Item : LED / 190319 MRS3 30K-24V-BK-45

4. Test Period : 190319 ~ 190319

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
190319	FEELUX		LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.4393, 0.4085	
Correlated Color Temperature	K	3012	
Ra	-	83.03	
Power Factor	%	1.000	
Input Voltage	V	23.970	
Input Current	A	0.105	
Input Watt	W	2.51	
Lamp Flux	lm	208.4	
Efficient	lm/W	82.80	
Illuminance	lx	450	1 m
		113	2 m
		50	3 m

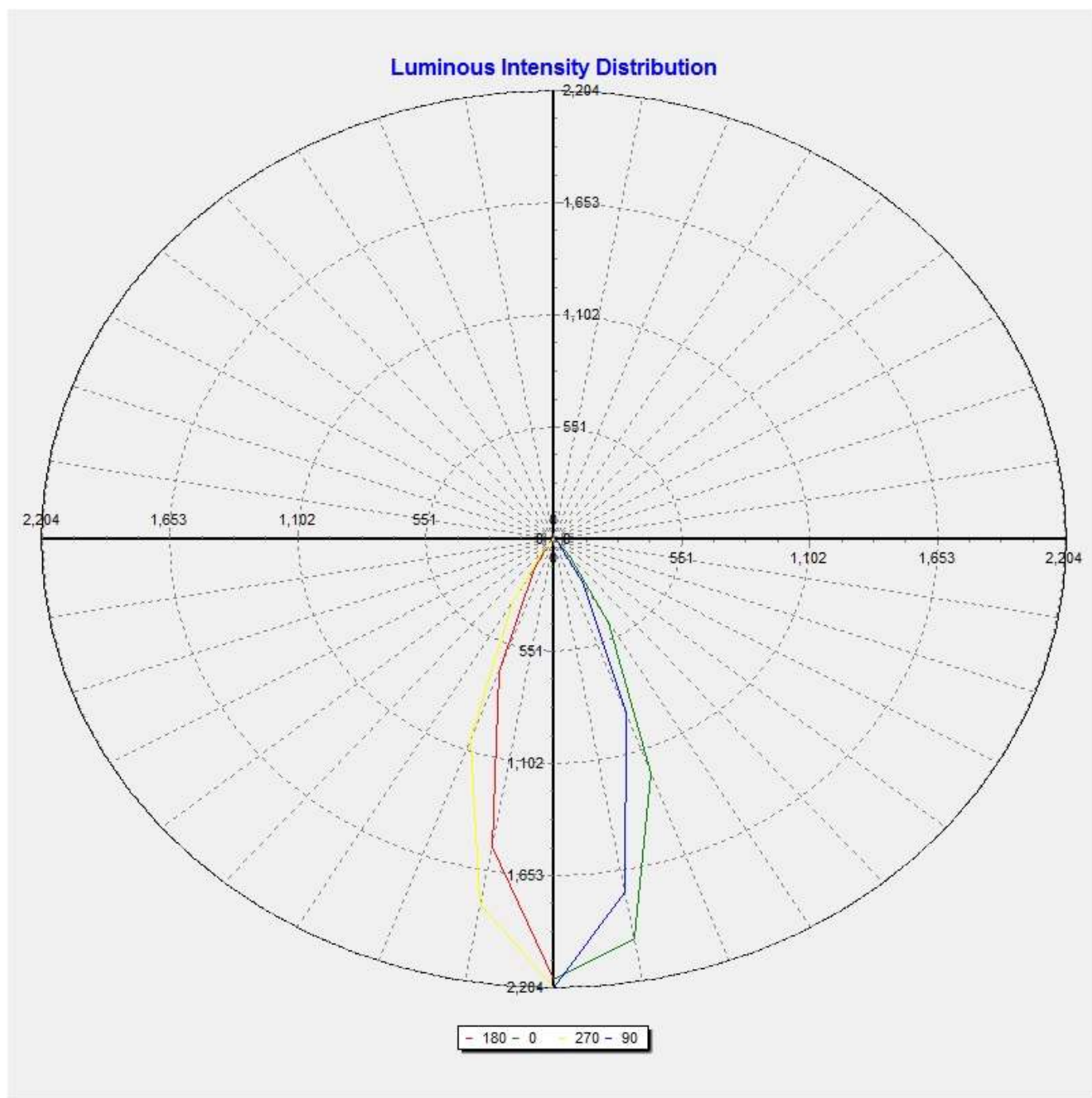
* This test result is for the sample provided by the client.

Sample photo

Click to load image

Luminaire

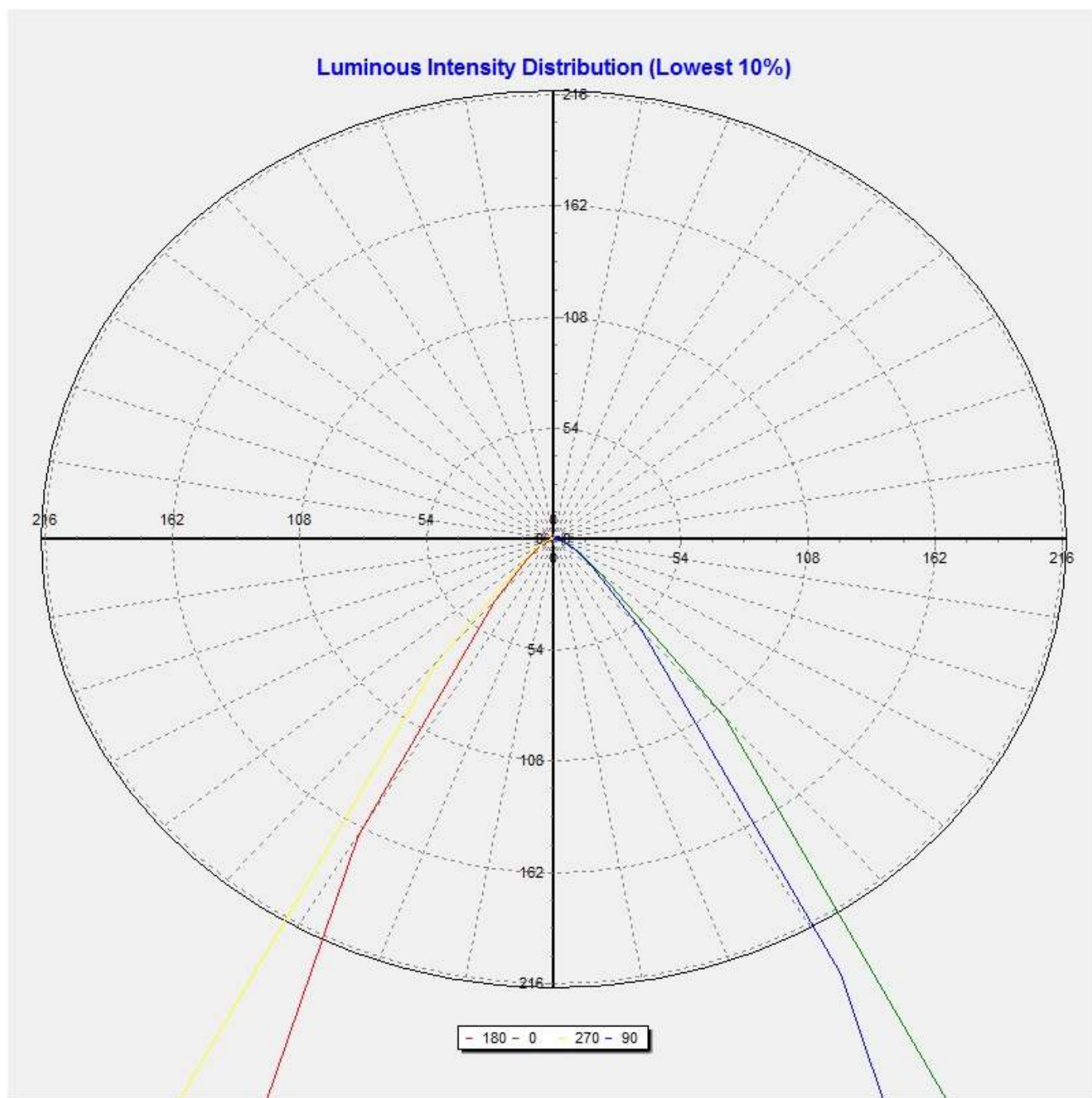
Lamp	Report	190319
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190319 MRS3 30K-24V-BK-45.jdt	
Lamp flux (lm)	208 Operator	Current (A) 0.105 CGR
Total flux (lm)	208 Date	Power Factor 1 2019-03-19 오후 5:42:48



All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp	Report	190319
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190319 MRS3 30K-24V-BK-45.jdt	
Lamp flux (lm)	208 Operator	Current (A) 0.105 CGR
Total flux (lm)	208 Date	Power Factor 1 2019-03-19 오후 5:42:48



All luminous intensity values are in Cd/Klm unit.

Luminaire

Lamp	Report			190319
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190319 MRS3 30K-24V-BK-45.jdt			
Lamp flux (lm)	208 Operator	Current (A)	0.105	CGR
Total flux (lm)	208 Date	Power Factor	1	2019-03-19 오후 5:42:48

Luminous Intensity Data

GWC	0	30	60	90	120	150	180	210	240	270	300	330	360
0	450.02	455.39	453.75	459.11	454.48	455.34	450.02	455.39	453.75	459.11	454.48	455.34	450.02
10	415.01	382.62	377.41	366.28	379.40	391.33	320.36	369.97	380.67	379.51	373.88	364.52	415.01
20	254.66	203.43	190.11	188.77	200.91	196.49	144.32	195.31	207.05	217.84	204.47	193.68	254.66
30	97.85	66.04	56.97	50.72	55.88	58.70	34.58	58.07	68.49	74.33	70.05	65.00	97.85
40	23.48	14.32	11.90	11.99	12.85	13.38	8.16	12.71	15.31	15.80	15.70	14.54	23.48
50	5.29	3.58	4.07	4.39	4.61	4.30	3.07	4.61	3.82	3.71	4.23	3.36	5.29
60	2.55	2.43	2.33	2.35	2.12	2.55	1.40	1.55	2.50	1.71	2.12	1.53	2.55
70	0.93	0.42	0.78	1.27	1.68	1.18	0.36	0.75	0.83	0.80	1.06	0.54	0.93
80	0.11	-0.27	-0.62	0.19	0.18	0.23	0.40	0.46	-0.13	0.38	0.32	-0.25	0.11
90	0.37	0.21	0.14	-0.51	0.14	0.16	-0.07	-0.40	-0.19	-0.05	-0.07	0.40	0.37
100	0.20	0.01	-0.13	-0.03	0.08	0.12	-0.20	0.15	0.11	0.17	0.16	-0.03	0.20
110	-0.26	-0.54	0.60	-0.09	0.11	0.08	-0.16	0.13	-0.57	-0.34	-0.02	0.11	-0.26
120	0.00	0.11	0.55	0.57	0.50	0.18	-0.09	-0.04	0.61	0.25	0.10	0.44	0.00
130	0.13	0.12	0.24	0.33	0.87	0.59	1.17	1.29	0.41	0.43	0.41	-0.13	0.13

Luminaire

Lamp	Report	190319
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190319 MRS3 30K-24V-BK-45.jdt	
Lamp flux (lm)	208 Operator	Current (A) 0.105 CGR
Total flux (lm)	208 Date	Power Factor 1 2019-03-19 오후 5:42:48

Luminous Flux Table

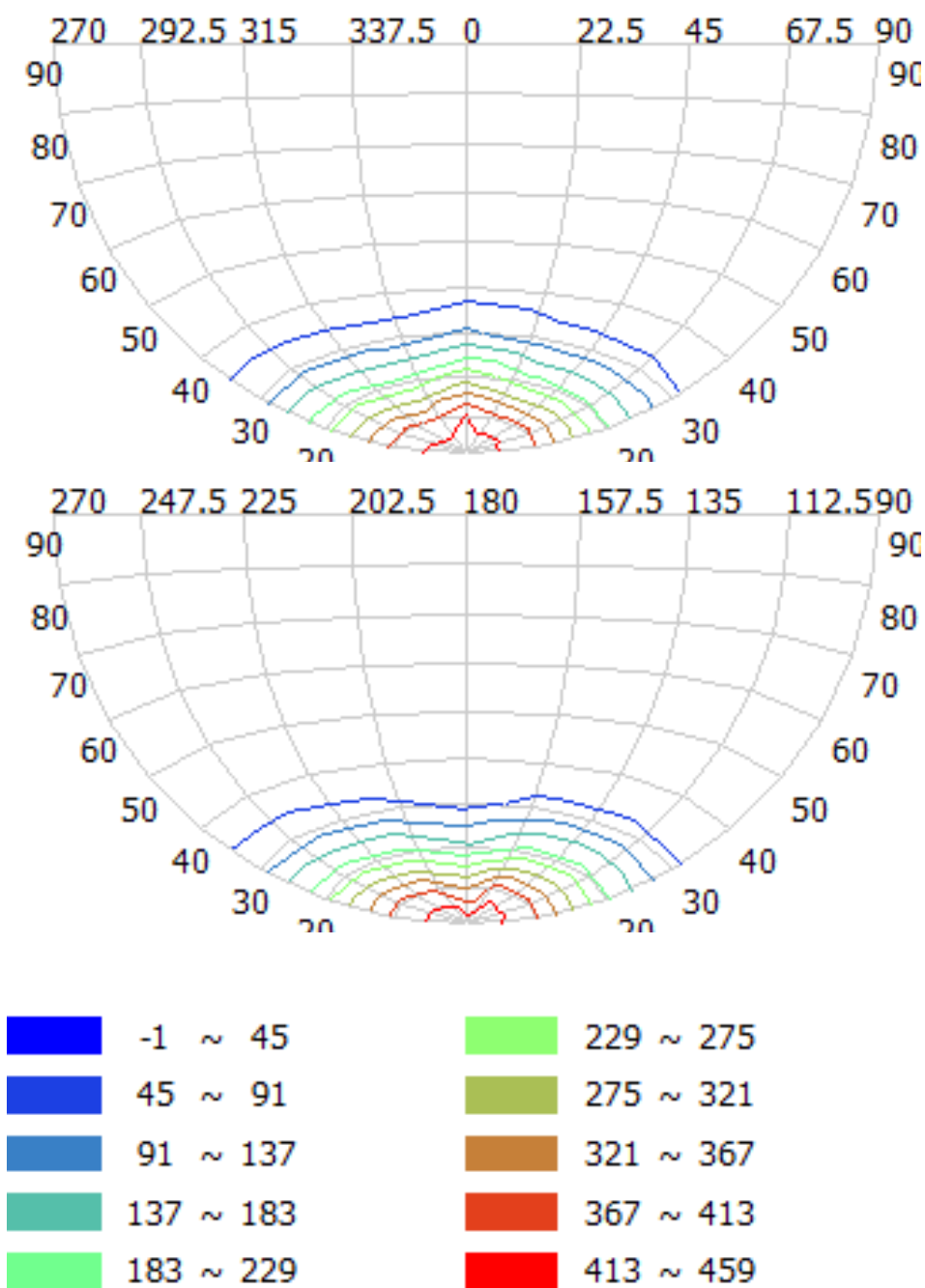
Total Lamp Lumens: 208
 Luminaire Efficiency (lm/W):208.41
 CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	10.87	10.87	5.22	5.22
10	71.33	82.21	39.45	39.44
20	74.83	157.03	75.35	75.35
30	34.53	191.56	91.92	91.92
40	9.98	201.54	96.71	96.71
50	3.43	204.97	98.36	98.35
60	1.99	206.96	99.31	99.31
70	0.91	207.87	99.75	99.74
80	0.09	207.96	99.79	99.78
90	0.01	207.97	99.79	99.79
100	0.05	208.03	99.82	99.82
110	-0.08	207.94	99.78	99.78
120	0.25	208.19	99.90	99.90
130	0.21	208.41	100.00	100.00

Luminaire

Lamp	Report	190319
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190319 MRS3 30K-24V-BK-45.jdt	
Lamp flux (lm)	208 Operator	Current (A) 0.105 CGR
Total flux (lm)	208 Date	Power Factor 1 2019-03-19 오후 5:42:48

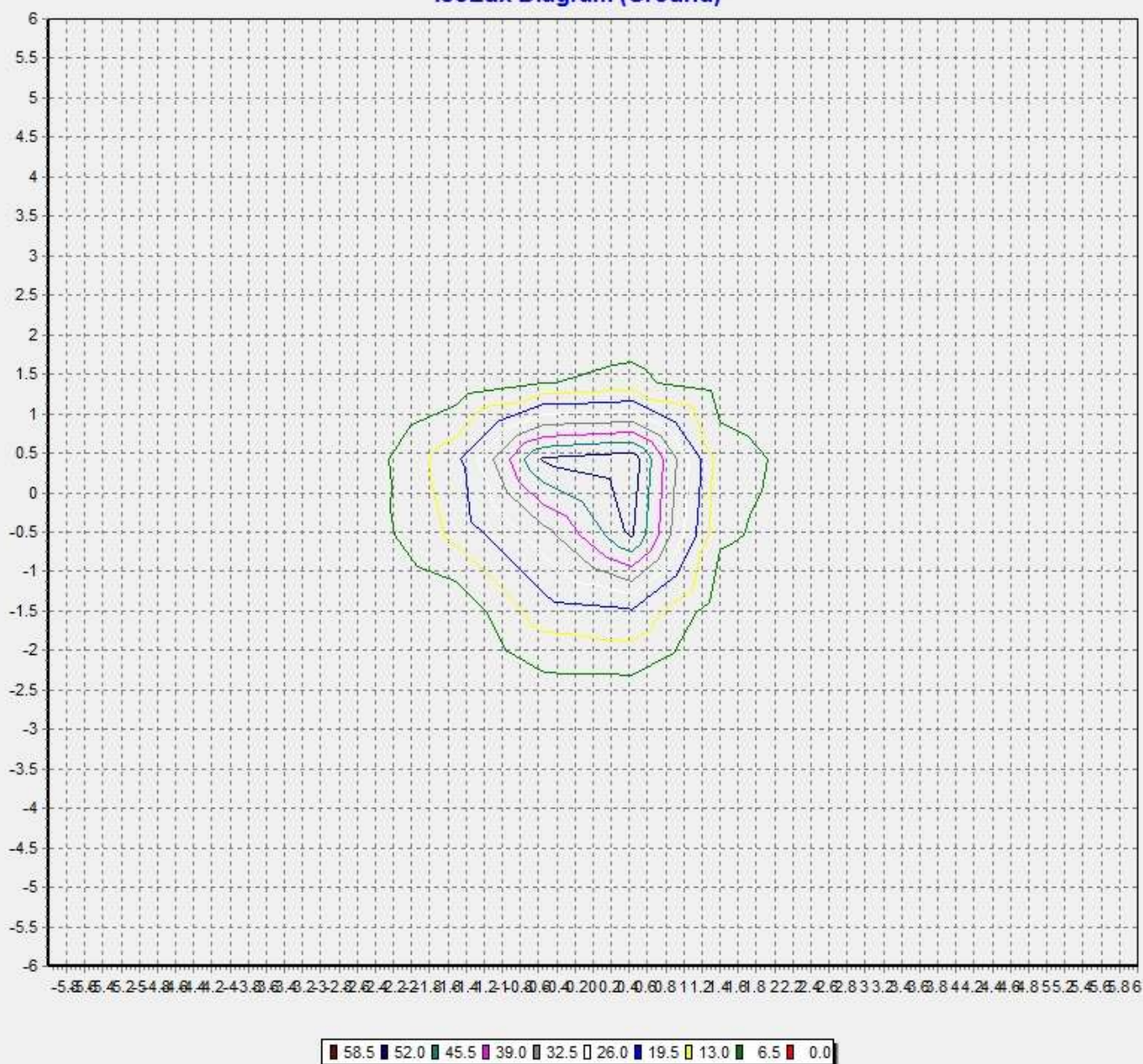
IsoCandela (Type C)



Luminaire

Lamp	Report	190319
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190319 MRS3 30K-24V-BK-45.jdt	
Lamp flux (lm)	208 Operator	Current (A) 0.105 CGR
Total flux (lm)	208 Date	Power Factor 1 2019-03-19 오후 5:42:48

IsoLux Diagram (Ground)



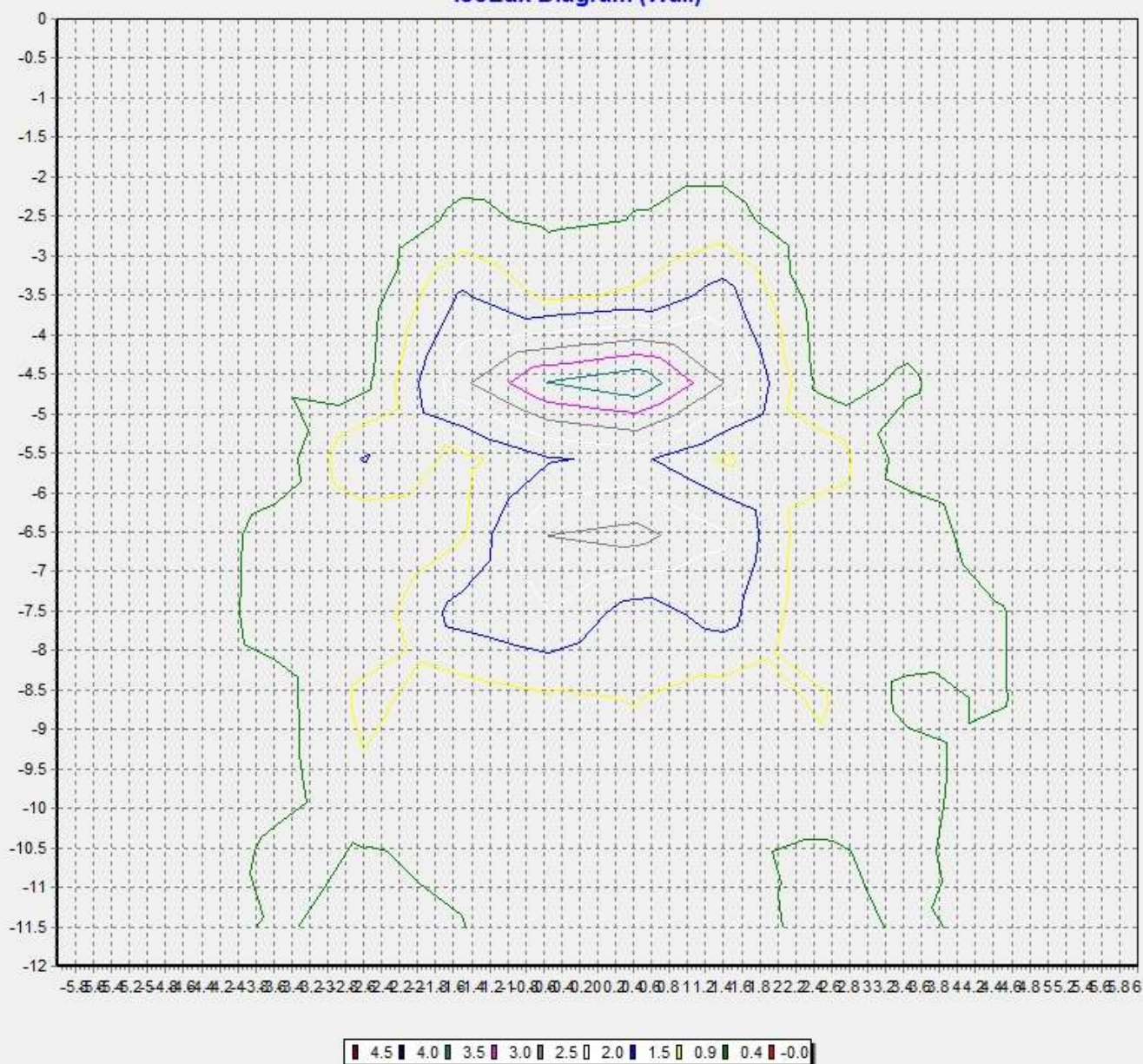
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp	Report	190319
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190319 MRS3 30K-24V-BK-45.jdt	
Lamp flux (lm)	208 Operator	Current (A) 0.105 CGR
Total flux (lm)	208 Date	Power Factor 1 2019-03-19 오후 5:42:48

IsoLux Diagram (Wall)



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

Luminaire

Lamp

No. of lamps	1	Voltage (V)	23.97
Lamp flux (lm)	208	Current (A)	0.105
Total flux (lm)	208	Power Factor	1

Report

190319

Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190319 MRS3 30K-24V-BK-45.jdt

Operator

CGR

Date

2019-03-19 오후 5:42:48

Illuminance Levels (Ground)

6.00	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.00	0.01	0.01
5.00	0.01	0.01	0.01	0.02	0.05	0.05	0.06	0.05	0.04	0.02	0.01	0.01	0.01
4.00	0.01	0.01	0.04	0.06	0.05	0.07	0.08	0.07	0.05	0.05	0.04	0.01	0.01
3.00	0.01	0.02	0.06	0.06	0.29	0.18	0.24	0.16	0.28	0.06	0.07	0.02	0.01
2.00	0.01	0.05	0.05	0.31	0.33	0.90	1.81	1.00	0.44	0.50	0.05	0.04	0.01
1.00	0.01	0.04	0.06	0.18	0.91	8.26	40.78	11.12	1.09	0.18	0.06	0.05	0.01
0.00	0.01	0.04	0.05	0.17	1.23	35.60	61.73	46.36	3.51	0.37	0.09	0.07	0.02
-1.00	0.01	0.05	0.06	0.16	0.86	7.19	42.34	10.00	1.10	0.17	0.06	0.06	0.01
-2.00	0.01	0.04	0.04	0.21	0.28	0.92	2.57	1.11	0.37	0.33	0.04	0.04	0.01
-3.00	0.01	0.01	0.05	0.04	0.34	0.18	0.25	0.17	0.35	0.05	0.05	0.01	0.01
-4.00	0.00	0.01	0.03	0.05	0.04	0.06	0.06	0.06	0.04	0.05	0.03	0.01	0.00
-5.00	0.01	0.00	0.01	0.02	0.04	0.05	0.05	0.05	0.04	0.01	0.01	0.01	0.01
-6.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	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.): 61.7

All illuminance level values are in lux.

Illum. (Min.): 0.00

Illum. Avg.: 1.72

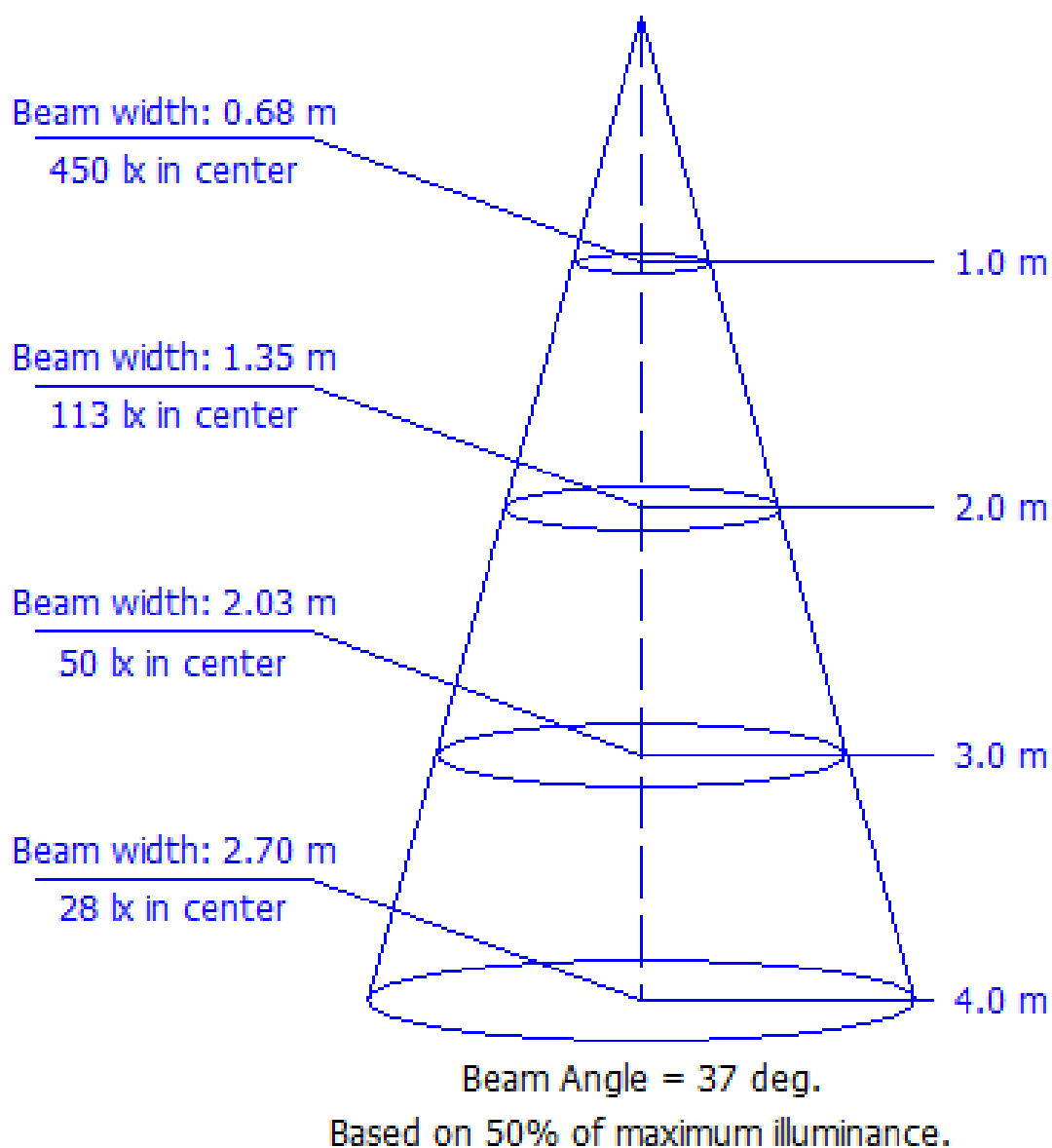
Total Optical Solution Provider


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

Luminaire

Lamp	Report			190319
No. of lamps	1 Filename C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190319 MRS3 30K-24V-BK-45.jdt			
Lamp flux (lm)	208 Operator	Current (A)	0.105	CGR
Total flux (lm)	208 Date	Power Factor	1	2019-03-19 오후 5:42:48

Illuminance Cone Diagram



Luminaire

Lamp

Report

190319

No. of lamps	1	Voltage (V)	23.97	Filename	C:\Users\WFEELUX\Desktop\완료 리포트\Data\2019\190319 MRS3 30K-24V-BK-45.jdt
Lamp flux (lm)	208	Current (A)	0.105	Operator	CGR
Total flux (lm)	208	Power Factor	1	Date	2019-03-19 오후 5:42:48

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