

# TEST REPORT

## 1. Applicant

\* Client Name : KH FEELUX Co. Ltd.  
\* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-Si Gyeonggi-do South Korea  
\* Date of Receipt : 240403

## 2. Purpose of Report :

3. Number of Report : KH FEELUX

4. Test Standard / Item : / 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M\_MASS PRODUCTION VER\_2

5. Test Period : 240409 ~ 240409

## 6. Test Environment

\* Ambient Temp. : 25.0 +- 3 °C  
\* Relative Humidity : 60.0 +- 10 % RH

## 7. Test Item

\* Name of Product :  
\* Rating :  
\* Model :

8. Test Result : Refer to the attachment

Confirmation	Test by		Technical manager	
	장상윤	Sign	장상윤	Sign

\*\*\*\*\*

- \* The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
- \* This report cannot be reporduced, except in full.
- \* This report is for reference only. It cannot replace the report by standard organization(s).

## Result

Report Number	Sample Name	Sample Number	Test Standard
KH FEELUX			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4989 , 0.4168	
Correlated Color Temperature	K	2273	
Ra		92.18	
Power Factor		1.000	
Input Voltage	V	23.948	
Input Current	A	0.414	
Input Watt	W	9.906	
Lamp Flux	lm	621.9	
Efficient	lm/W	62.78	
luminous Intensity (Max , Center)	cd	1326 , 1315	
Illuminance	lx	1315	1 m
		329	2 m
		146	3 m

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

\* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp Report

KH FEELUX

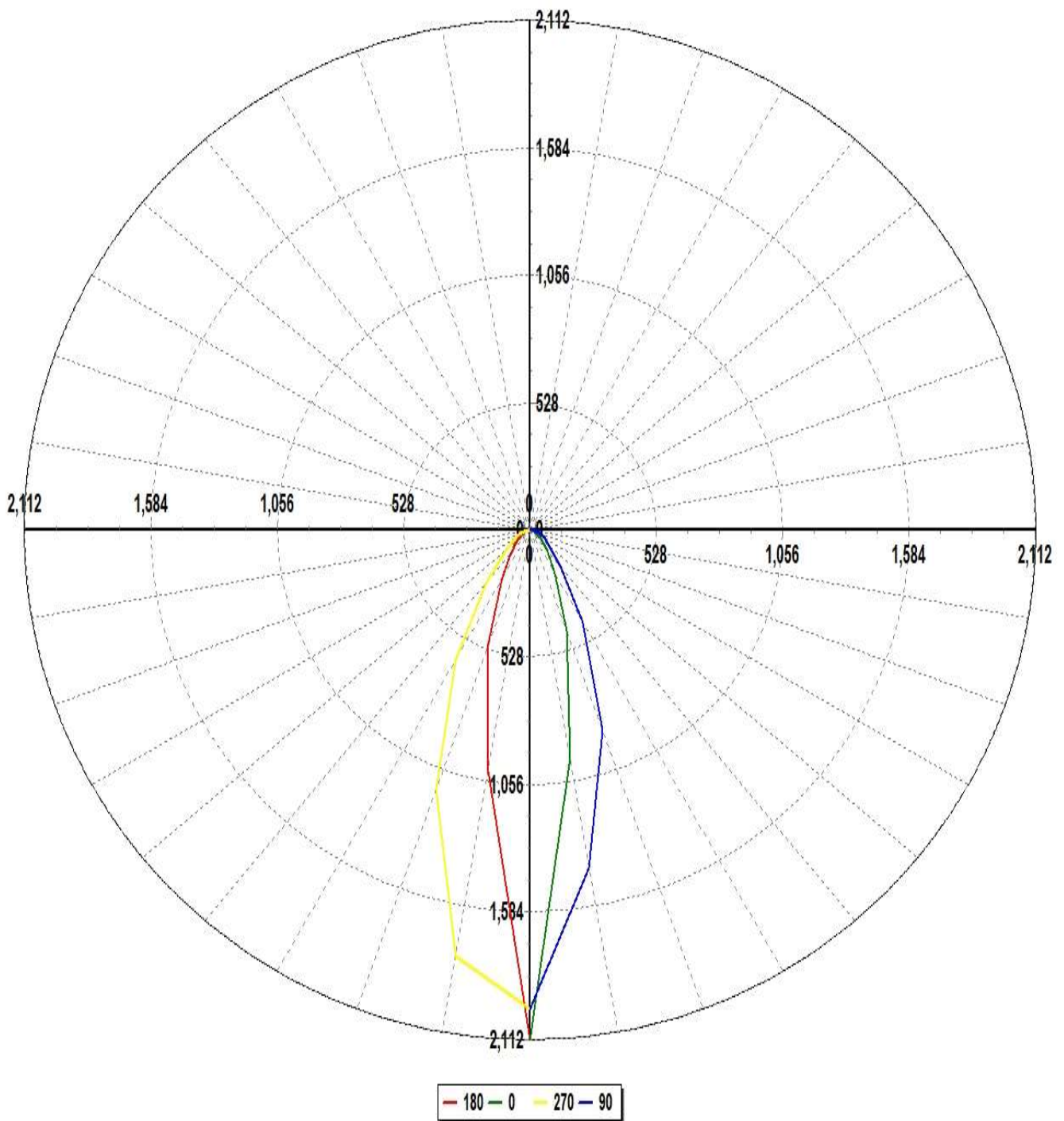
No. of lanFilename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M\_MASS PRODUCTION VER\_22K ON.jdt

Lamp fluxOperator 622 Current (A) 0.41365

Total flux Date 622 Power Factor 1

2024-04-09 오후 4:45:21

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp Report

KH FEELUX

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Lamp fluxOperator 622

Current (A)

0.41365

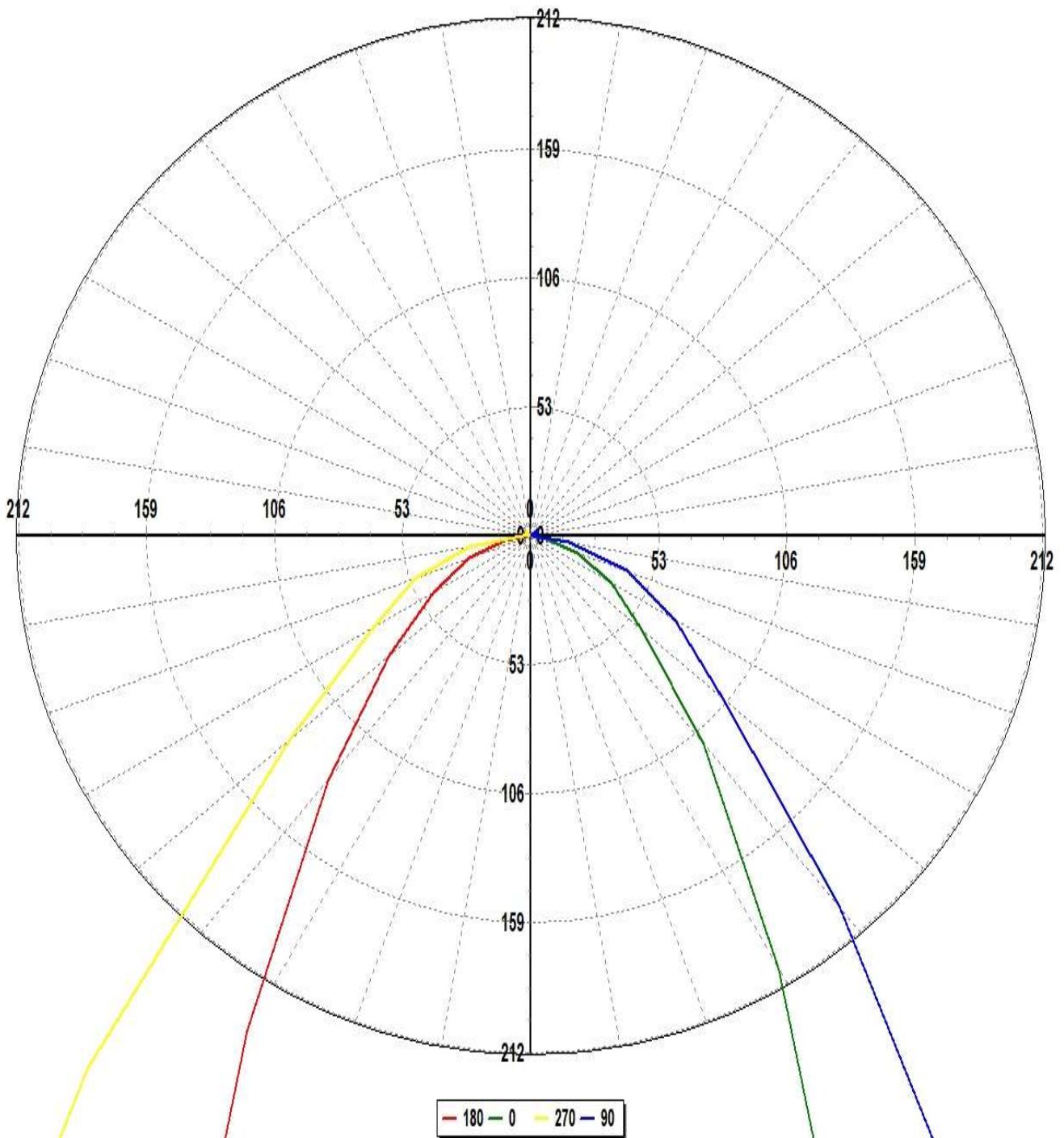
Total flux Date 622

Power Factor

1

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## Luminous Intensity Distribution (Lowest 10%)



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Lamp Report

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Total flux Date 622 Power Factor 1 2024-04-09 오후 4:45:21

## Luminous Intensity Data

Maximum (cd) : 1326

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1315.23	1217.52	1322.17	1236.92	1325.77	1072.71	1315.23	1217.52	1322.17	1236.92
10	597.53	576.82	799.05	885.03	711.28	517.84	630.05	771.23	895.22	1115.73
20	277.6	299.64	387.46	551.95	355.67	268	315.43	363.25	490.17	710.75
30	127.78	140.18	191.67	275.53	178.92	129.79	145.99	171.24	243.25	387.58
40	69.3	74.25	96.48	123.78	93.37	72.57	81.03	88.08	120.72	177.59
50	36.92	42.92	55.63	64.82	56.12	44.58	47.55	53.57	66.37	80.62
60	24.09	26.53	34.24	42.96	34.38	27.49	28.81	33.53	41.18	46.74
70	12.87	13.92	18.85	26.36	19.7	14.15	16.87	18.69	24.85	31.57
80	3.98	4.69	5.01	9.99	5.73	4.88	6.76	7.69	9.63	16.12
90	0.64	0.47	0.38	0.78	0.6	0.17	0.85	1.24	1.32	1.91
100	-0.18	1.05	0.15	0.63	-0.03	0.56	0.02	0.62	0.28	-0.02
110	0.71	0.57	0.48	0.86	0.5	0.45	1.17	0.48	0.85	0.52
120	1.08	1.63	1.34	1.59	1.52	1.53	0.36	1.62	1.12	1.08
130	1.62	2.35	1.03	2.28	1.36	2.64	1.88	1.29	1.72	1.63

Luminaire KH FEELUX

Lamp Report

KH FEELUX

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Total flux Date 622 Power Factor 1 2024-04-09 오후 4:45:21

## Luminous Intensity Data (Continued)

Maximum (cd) : 1326

Minimum (cd) : 0

G/C	300	330	360
0	1325.77	1072.71	1315.23
10	935.36	838.83	597.53
20	492.11	386.77	277.6
30	239.64	178.2	127.78
40	118.21	89.72	69.3
50	64.33	50.94	36.92
60	39.71	30.82	24.09
70	23.58	17.8	12.87
80	9.6	7.62	3.98
90	0.94	1.24	0.64
100	0.14	0.68	-0.18
110	0.46	0.74	0.71
120	0.54	0.59	1.08
130	2.35	1.29	1.62

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Lamp Report

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## Luminous Flux Table

Total Lamp Lumens: 621.93

Luminaire Efficiency (lm/W): 62.78

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	29.85	29.85	4.80	4.80
10	146.98	176.83	28.43	28.43
20	152.92	329.75	53.02	53.02
30	109.97	439.72	70.71	70.70
40	70.70	510.42	82.07	82.07
50	46.45	556.87	89.54	89.54
60	32.45	589.31	94.76	94.76
70	20.52	609.83	98.06	98.05
80	8.24	618.07	99.38	99.38
90	0.96	619.03	99.54	99.53
100	0.35	619.38	99.60	99.59
110	0.67	620.05	99.70	99.70
120	1.11	621.16	99.88	99.88
130	0.78	621.93	100.01	100.00

Luminaire KH FEELUX

Lamp Report

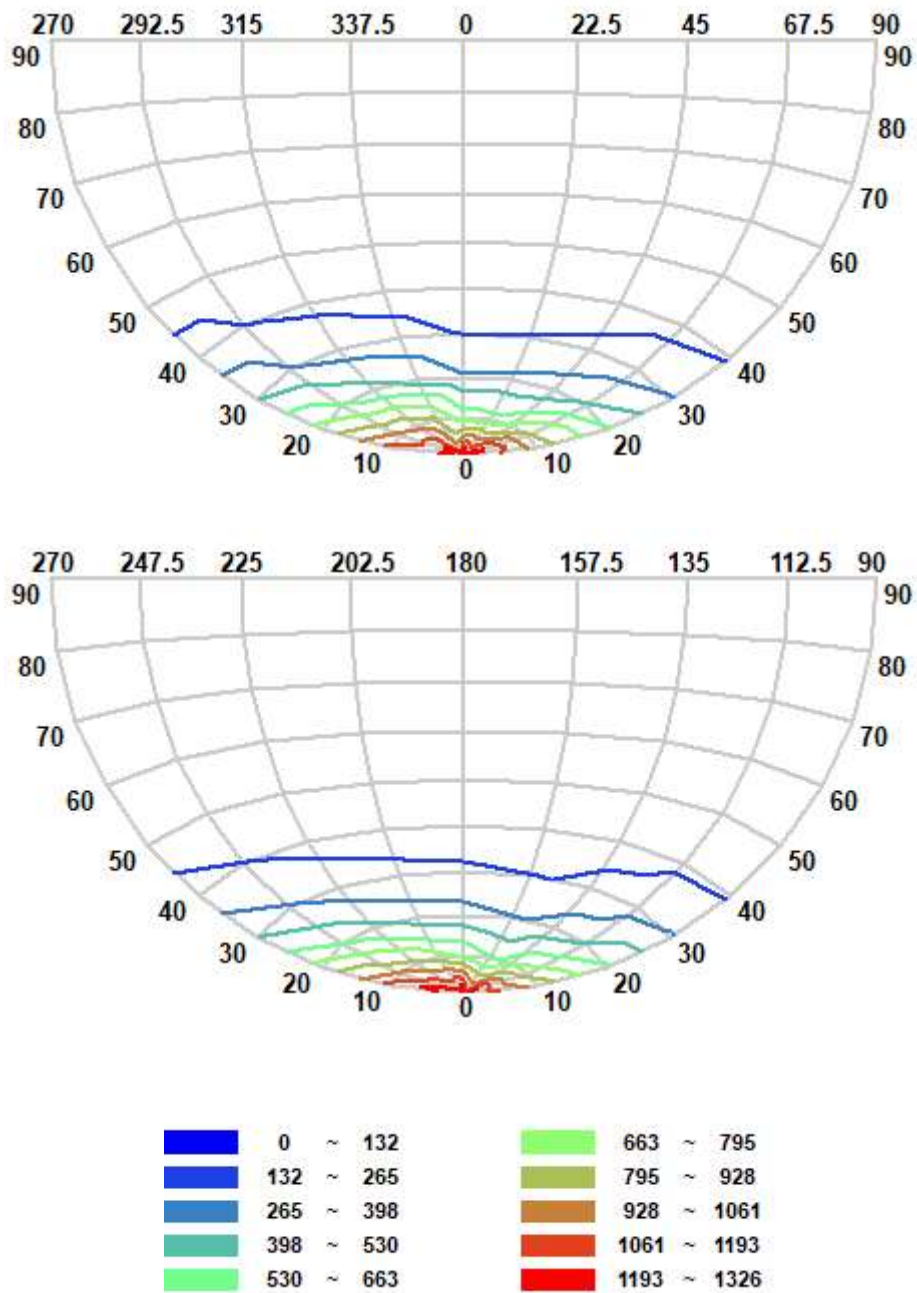
KH FEELUX

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## IsoCandela (Type C)





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Lamp Report

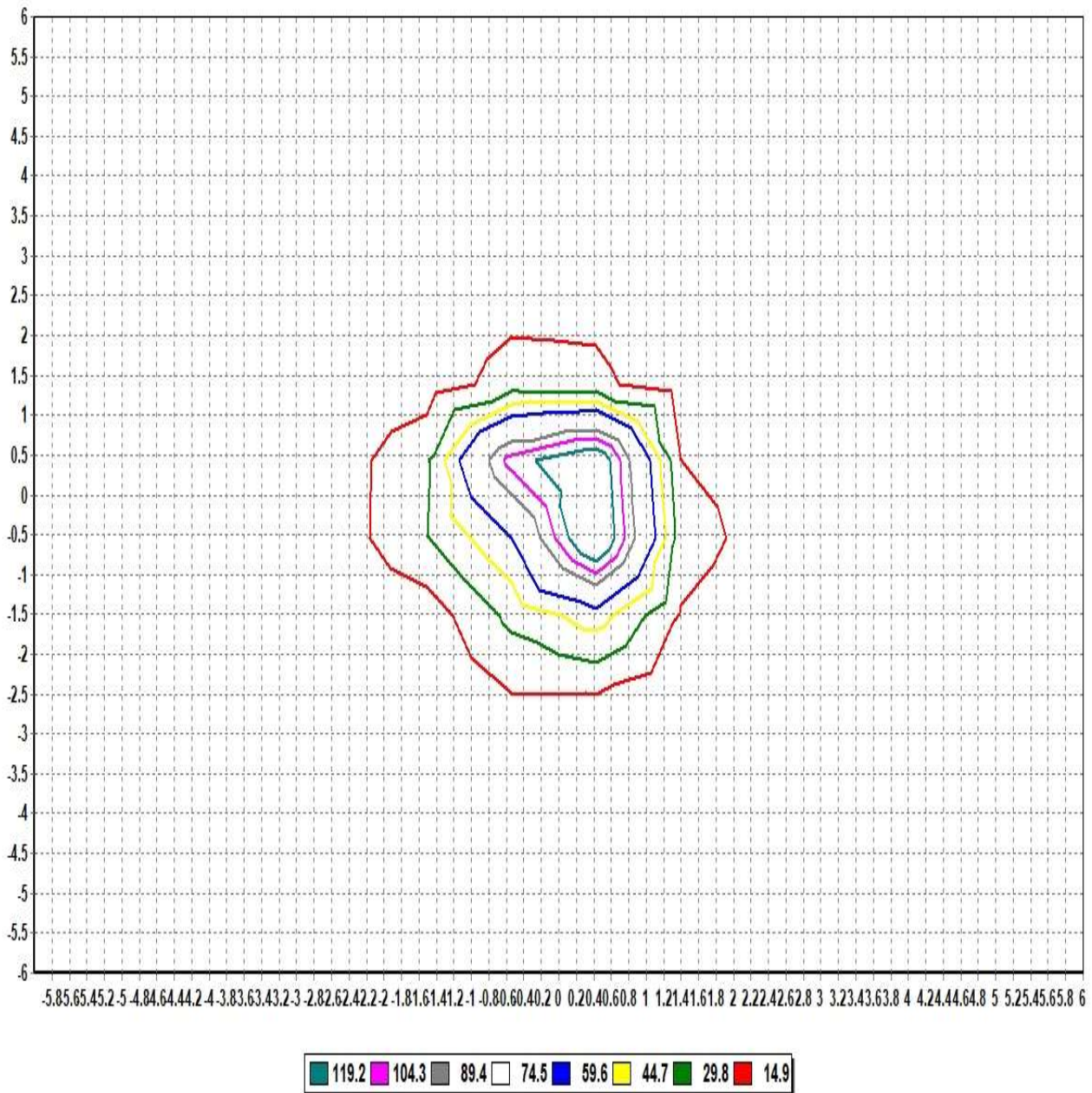
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Total flux Date 622 Power Factor 1 2024-04-09 오후 4:45:21

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp Report

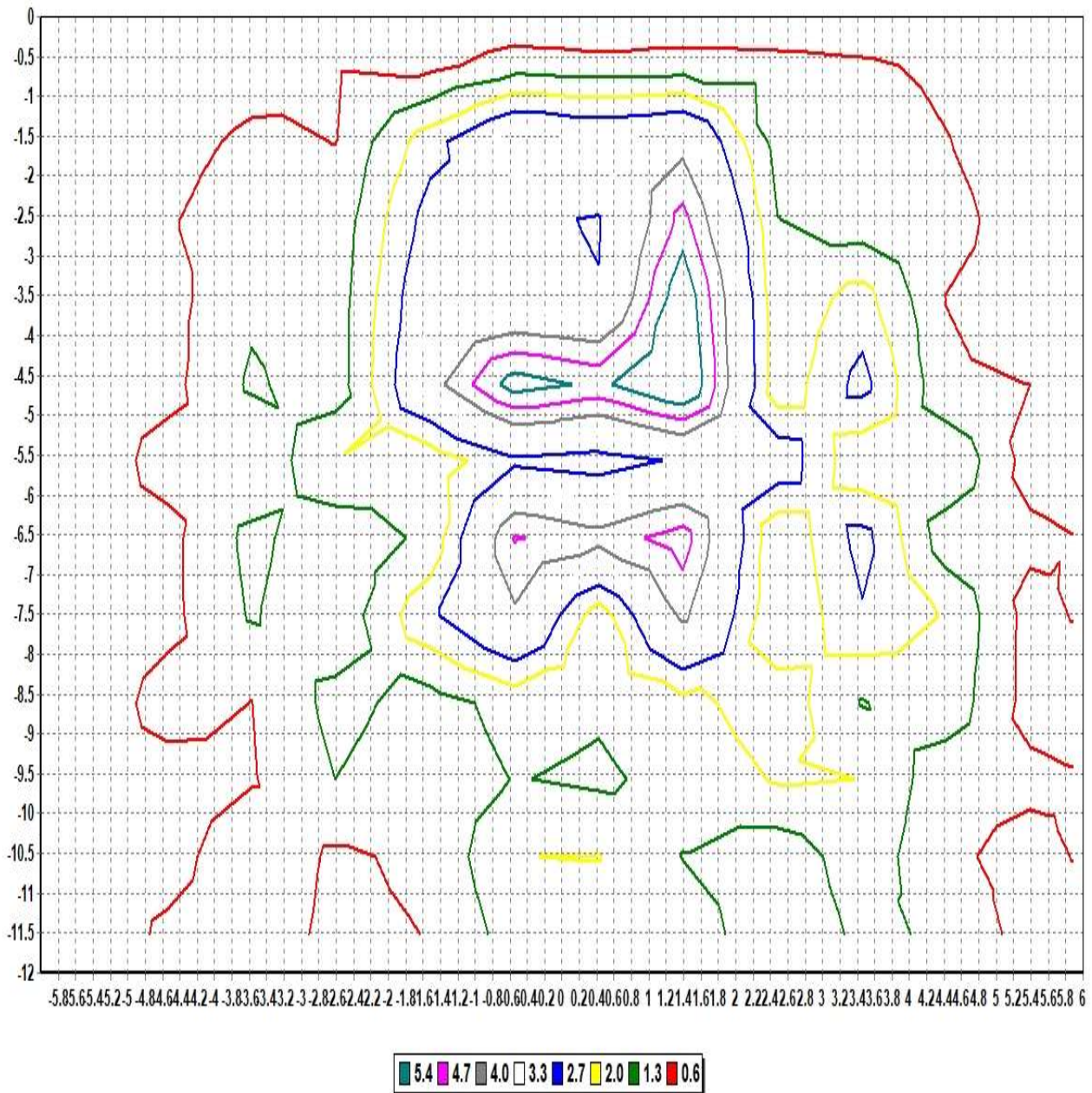
KH FEELUX

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Lamp fluxOperator 622 Current (A) 0.41365

Total flux Date 622 Power Factor 1 2024-04-09 오후 4:45:21

## IsoLux Diagram (Wall)



Pole Height (m): 2.7 Wall Distance (m): 2.7

Aiming Plane: 0 Wall Height (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23.94Filename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M\_MASS PRODUCTION VER\_22K ON.jdt

Lamp flux (lm) 622

Current (A)

0.4136Operator

Total flux (lm) 622

Power Factor

Date

2024-04-09 오후 4:45:21

## Illuminance Levels (Ground)

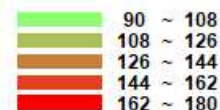
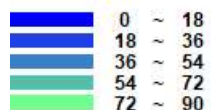
6.00	0.13	0.19	0.16	0.17	0.22	0.25	0.32	0.28	0.17	0.12	0.11	0.15	0.09
5.00	0.14	0.15	0.23	0.35	0.63	0.77	0.90	0.80	0.50	0.27	0.17	0.09	0.11
4.00	0.09	0.16	0.56	0.87	0.72	1.02	1.24	1.03	0.56	0.73	0.37	0.13	0.08
3.00	0.16	0.21	0.65	0.94	3.02	2.32	3.14	1.86	2.40	0.61	0.53	0.19	0.12
2.00	0.18	0.57	0.68	1.95	3.53	6.29	12.56	4.97	2.33	1.76	0.53	0.45	0.14
1.00	0.19	0.60	0.77	2.00	5.89	26.76	98.90	16.25	4.77	1.58	0.75	0.59	0.19
0.00	0.21	0.65	0.87	2.23	7.37	70.12	180.42	66.42	6.38	1.78	0.70	0.51	0.17
-1.00	0.18	0.59	0.76	1.99	5.66	19.18	124.73	36.37	7.48	2.31	0.73	0.55	0.17
-2.00	0.18	0.56	0.67	2.10	2.85	5.96	17.83	8.14	4.52	2.37	0.78	0.65	0.22
-3.00	0.15	0.23	0.67	0.76	2.96	2.28	4.10	2.78	4.17	1.07	0.74	0.25	0.19
-4.00	0.10	0.17	0.46	0.88	0.70	1.21	1.45	1.20	0.82	1.06	0.65	0.19	0.11
-5.00	0.14	0.12	0.22	0.33	0.62	0.97	1.10	0.92	0.74	0.39	0.27	0.18	0.16
-6.00	0.11	0.18	0.15	0.16	0.21	0.33	0.36	0.30	0.26	0.20	0.19	0.21	0.15
-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.) : 180.42

Illum. (Min.) : 0.0804

Illum. (Avg.) : 5.0296

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp Report

KH FEELUX

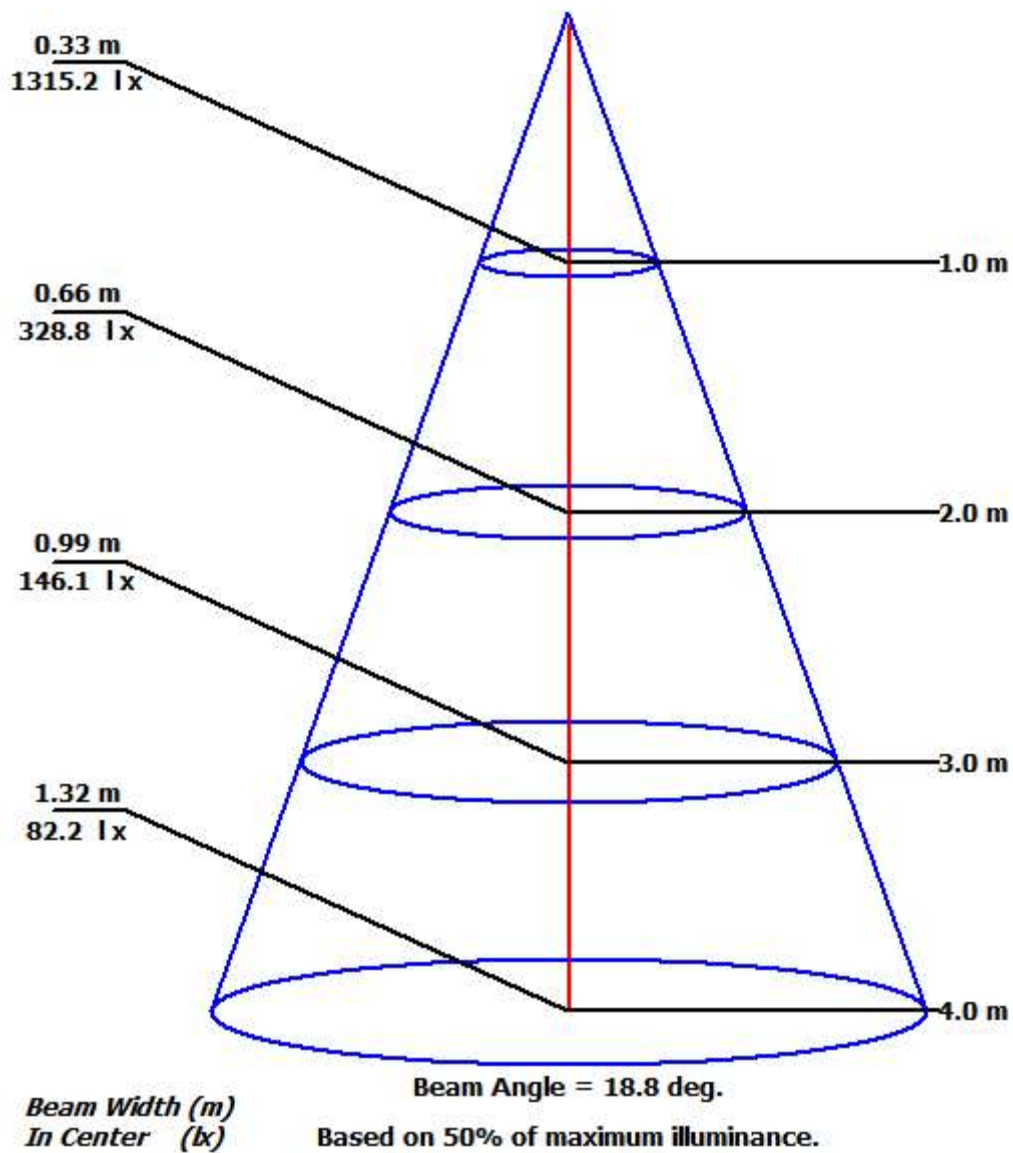
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Lamp fluxOperator 622 Current (A) 0.41365

Total flux Date 622 Power Factor 1

2024-04-09 오후 4:45:21

## Illuminance Cone Diagram



Luminaire		KH FEELUX					
Lamp				Report		KH FEELUX	
No. of lamps	1	Voltage (V)	23.94	Filename	240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_22K ON.jdt		
Lamp flux (lm)	622	Current (A)	0.4136	Operator			
Total flux (lm)	622	Power Factor	1	Date	2024-04-09 오후 4:45:21		

# 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