

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-C90-20D-1M_MASS PRODUCTION VER_40K O**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		0.3815 , 0.3776	
Correlated Color Temperature	K	3979	
Ra		93.42	
Power Factor		1.000	
Input Voltage	V	23.948	
Input Current	A	0.413	
Input Watt	W	9.9	
Lamp Flux	lm	816.9	
Efficient	lm/W	82.52	
luminous Intensity (Max , Center)	cd	1467 , 1454	
Illuminance	lx	1454	1 m
		363	2 m
		162	3 m

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

* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp Report

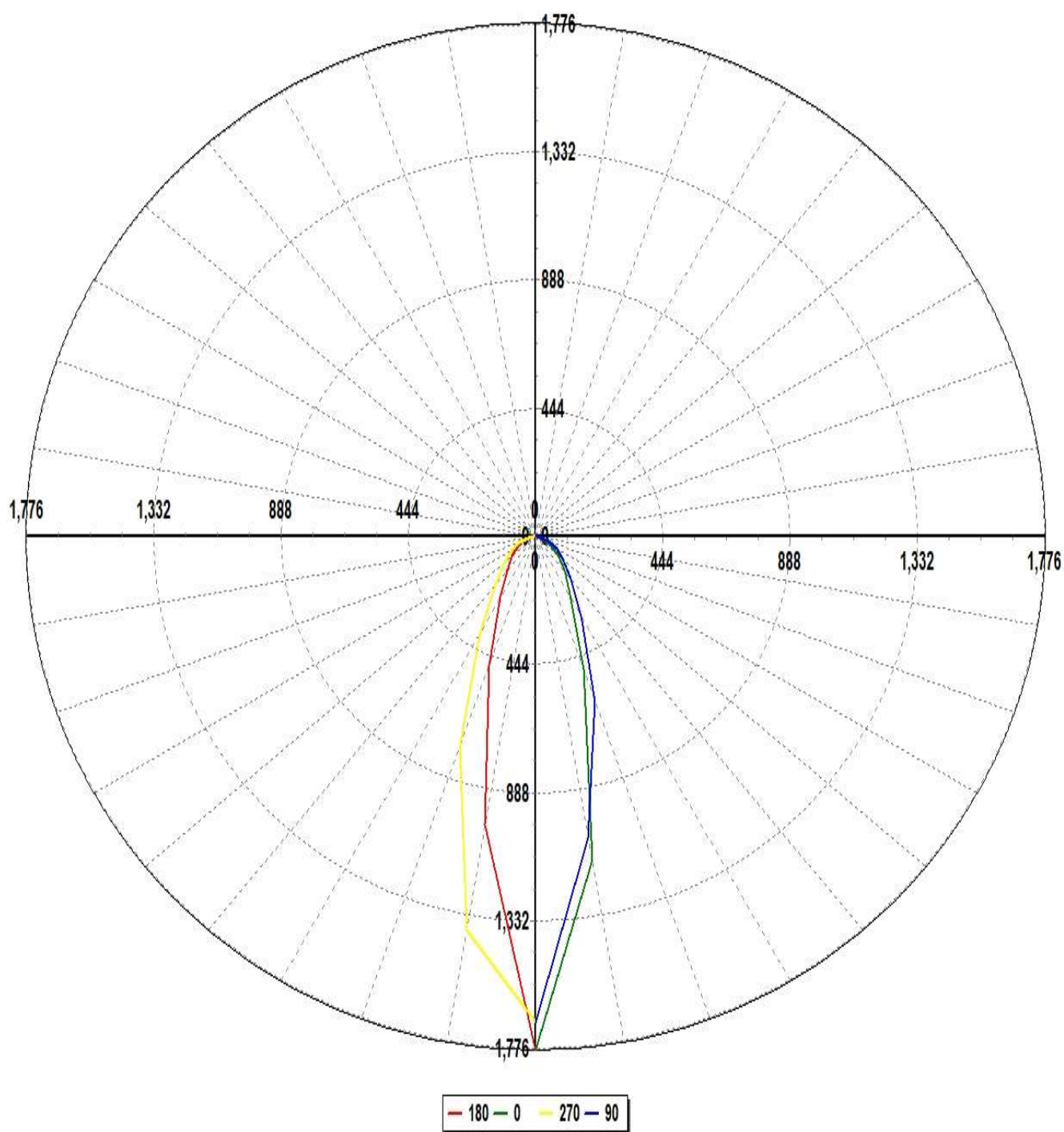
KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41339

Total flux (lm) Date 317 Power Factor 1 2024-04-09 오후 2:52:52

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp Report

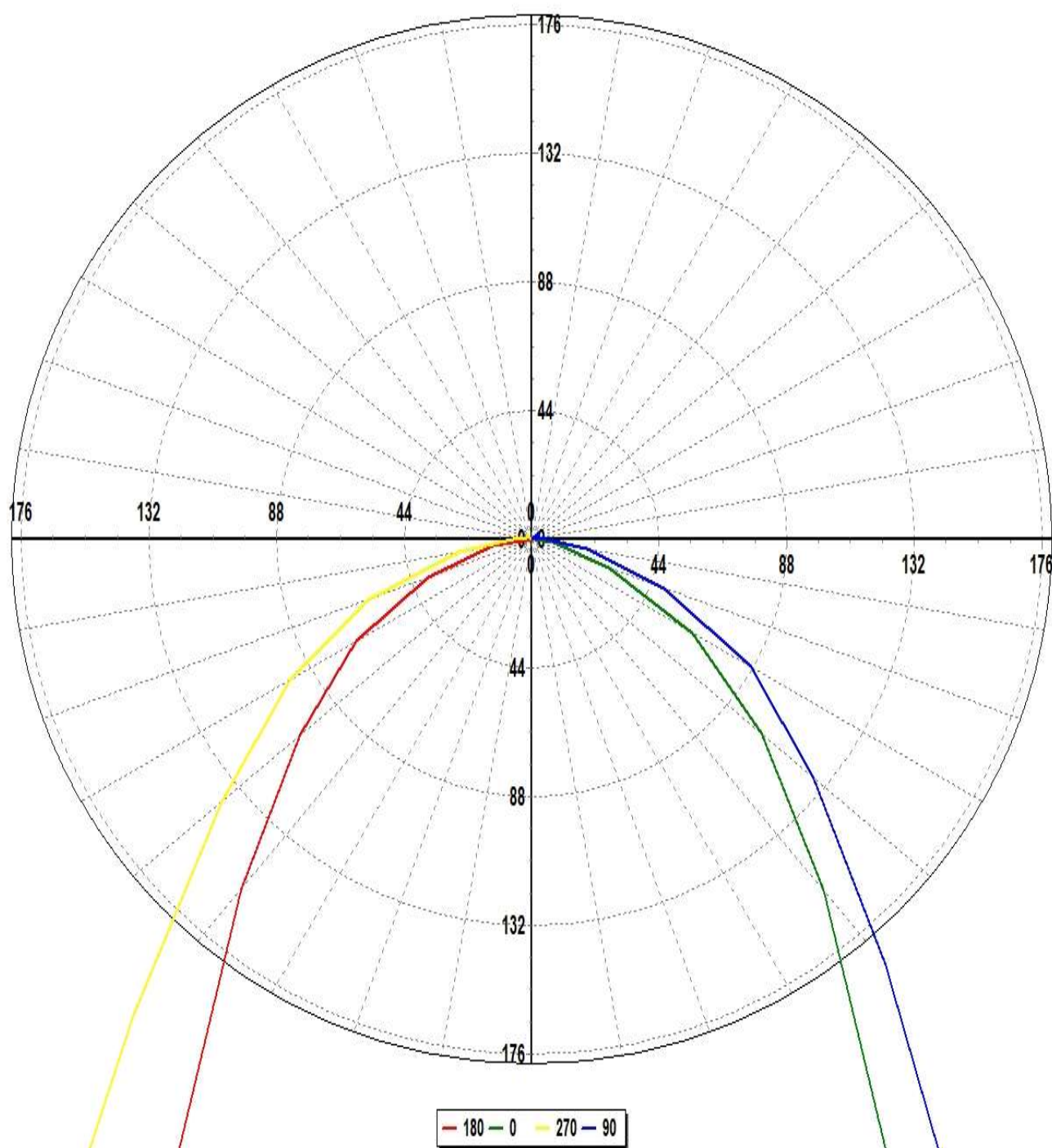
KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41339

Total flux (lm) Date 317 Power Factor 1 2024-04-09 오후 2:52:52

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp Report

KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41339

Total flux (lm) Date 17 Power Factor 1 2024-04-09 오후 2:52:52

Luminous Intensity Data

Maximum (cd) : 1467

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1453.66	1447.5	1459.28	1373.2	1467.16	1286.34	1453.66	1447.5	1459.28	1373.2
10	929.42	871.13	974.05	866.04	812.79	654.94	829.21	953.9	965.83	1130.91
20	399.55	417.3	485.67	497.5	391.51	320.23	390.53	427.64	520.29	634.07
30	201.79	211.48	247.66	261.38	213.41	179.54	200.36	218.9	266.99	318.28
40	127.87	131.54	149.32	154.93	139.14	117.49	127.23	135.82	157.82	174.72
50	84.43	87.26	99.79	103.45	95.94	79.36	85.18	90.8	105.28	113.97
60	52.1	56.11	64.06	71.19	62.76	52.2	57.12	60.6	70.58	78.47
70	23.01	27.11	35.61	39.76	35.2	27.46	31.03	34.58	41.71	48.89
80	6.2	8.81	12.92	15.77	13.31	9.58	11.16	12.92	17.35	20.8
90	0.96	0.86	3.11	3.98	3.48	1.11	-0.21	1.72	3.63	5.31
100	0.36	0.68	1.47	1.59	1.93	0.23	0.54	-0.05	0.56	1.56
110	0.96	0.77	1.36	-0.03	1.15	1.23	1.08	0.6	0.98	1.1
120	1.55	1.73	2.03	1.94	2.12	1.86	0.96	0.92	1.56	1.19
130	2.32	2.6	2.34	2.5	3.02	2.97	1	1.08	2.09	1.84

Luminaire KH FEELUX

Lamp Report

KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41339

Total flux (lm) Date 17 Power Factor 1 2024-04-09 오후 2:52:52

Luminous Intensity Data (Continued)

Maximum (cd) : 1467

Minimum (cd) : 0

G/C	300	330	360
0	1467.16	1286.34	1453.66
10	1087.25	1170.12	929.42
20	585.26	532.53	399.55
30	284.51	251.93	201.79
40	163.84	151.26	127.87
50	109.23	98.86	84.43
60	70.58	65.06	52.1
70	41.23	35.62	23.01
80	17.75	12.32	6.2
90	3.67	1.34	0.96
100	1.29	0.44	0.36
110	0.22	0.91	0.96
120	2.14	1.04	1.55
130	2.49	1.85	2.32

Luminaire KH FEELUX

Lamp Report

KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41339

Total flux (lm) Date 2024-04-09 오후 2:52:52
17 Power Factor 1

Luminous Flux Table

Total Lamp Lumens: 816.94

Luminaire Efficiency (lm/W): 82.52

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	33.82	33.82	4.14	4.14
10	178.23	212.05	25.96	25.96
20	174.87	386.92	47.36	47.36
30	130.34	517.27	63.32	63.32
40	101.55	618.82	75.75	75.75
50	80.65	699.47	85.62	85.62
60	60.14	759.61	92.99	92.98
70	36.12	795.73	97.41	97.40
80	14.28	810.01	99.16	99.15
90	2.64	812.65	99.48	99.47
100	0.95	813.61	99.60	99.59
110	0.89	814.49	99.71	99.70
120	1.51	816.00	99.89	99.88
130	0.95	816.94	100.01	100.00

Luminaire KH FEELUX

Lamp Report

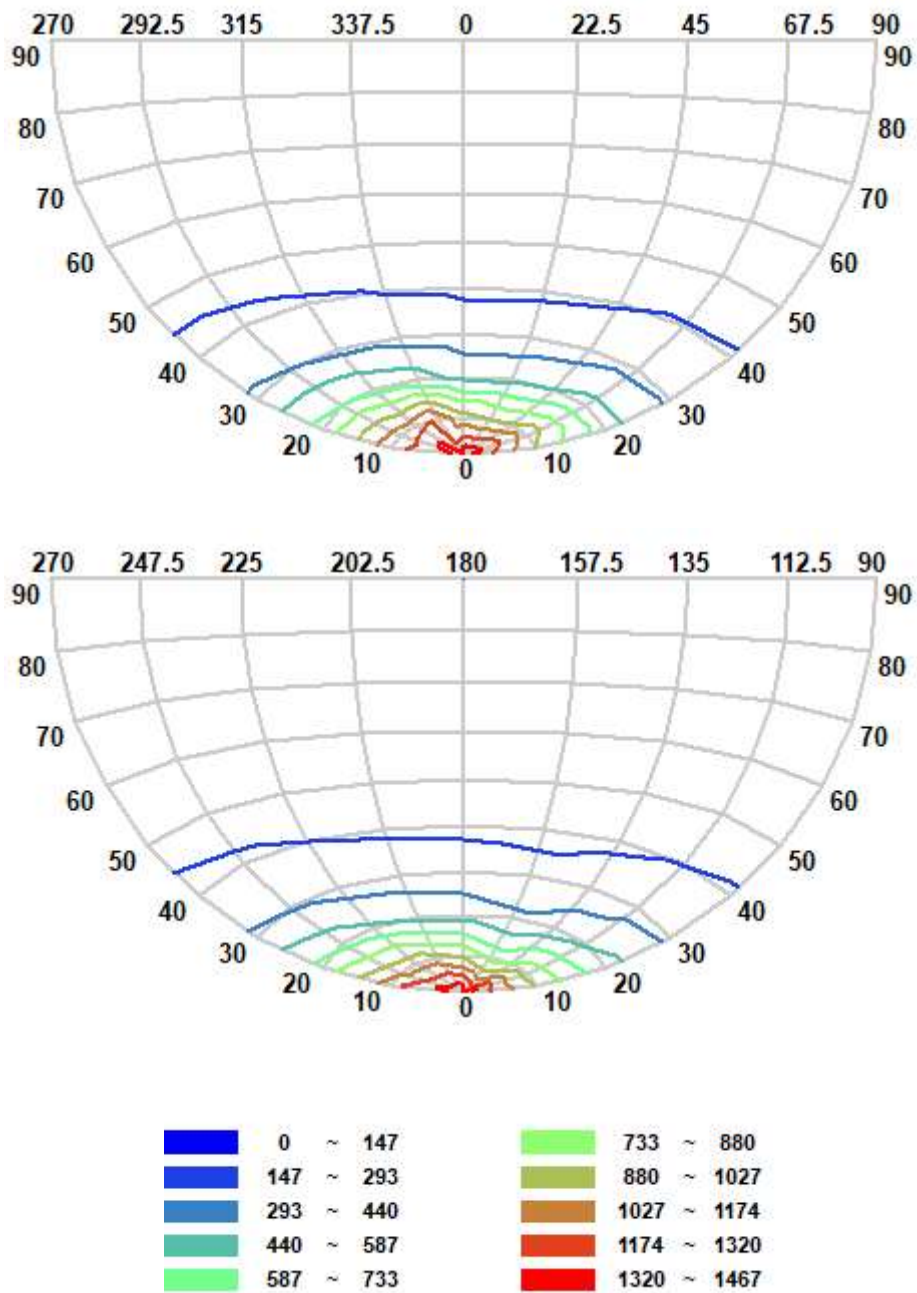
KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41339

Total flux (lm) Date317 Power Factor 1 2024-04-09 오후 2:52:52

IsoCandela (Type C)



Luminaire KH FEELUX

Lamp Report

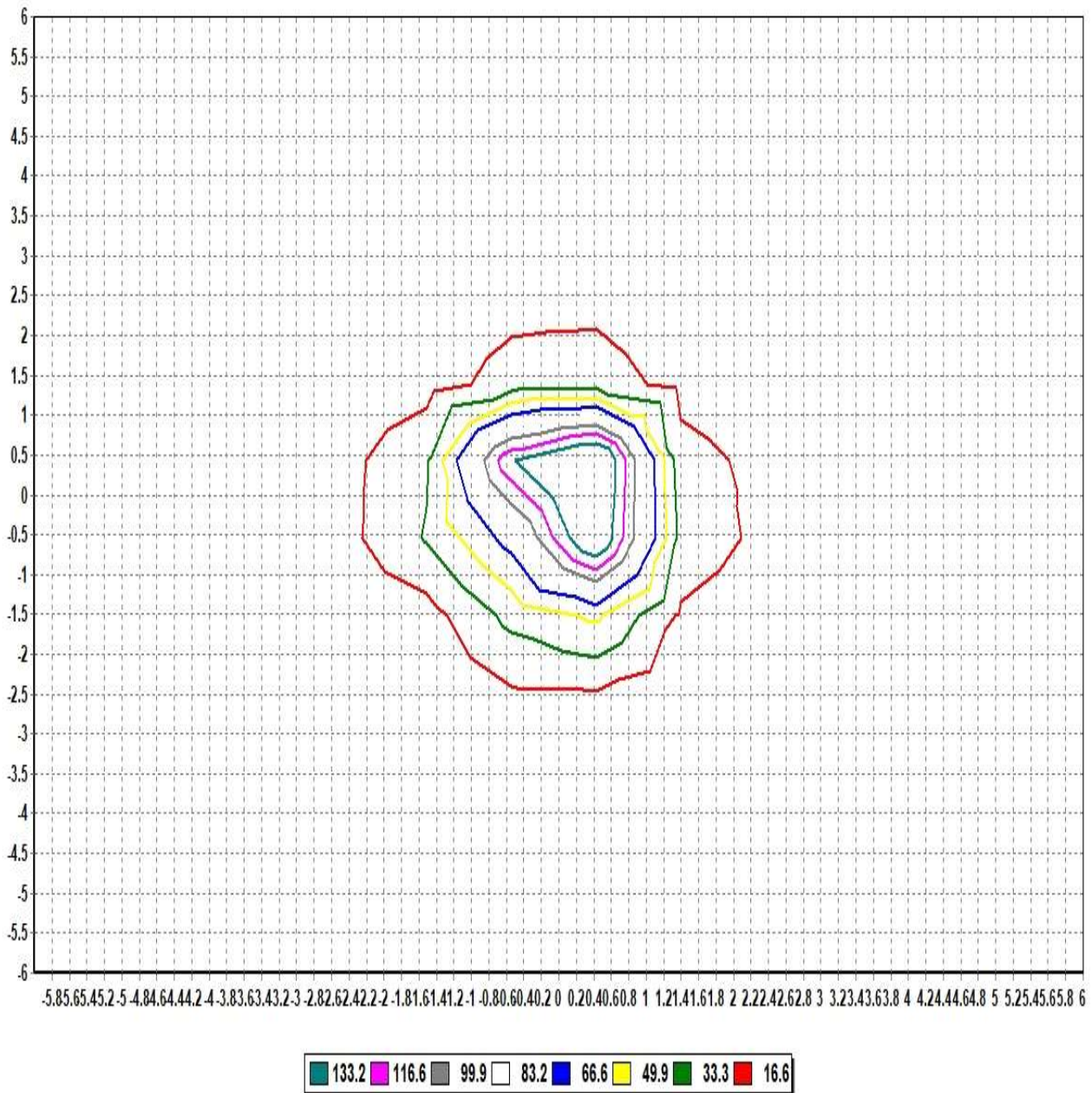
KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41339

Total flux (lm) Date 3/17 Power Factor 1 2024-04-09 오후 2:52:52

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp Report

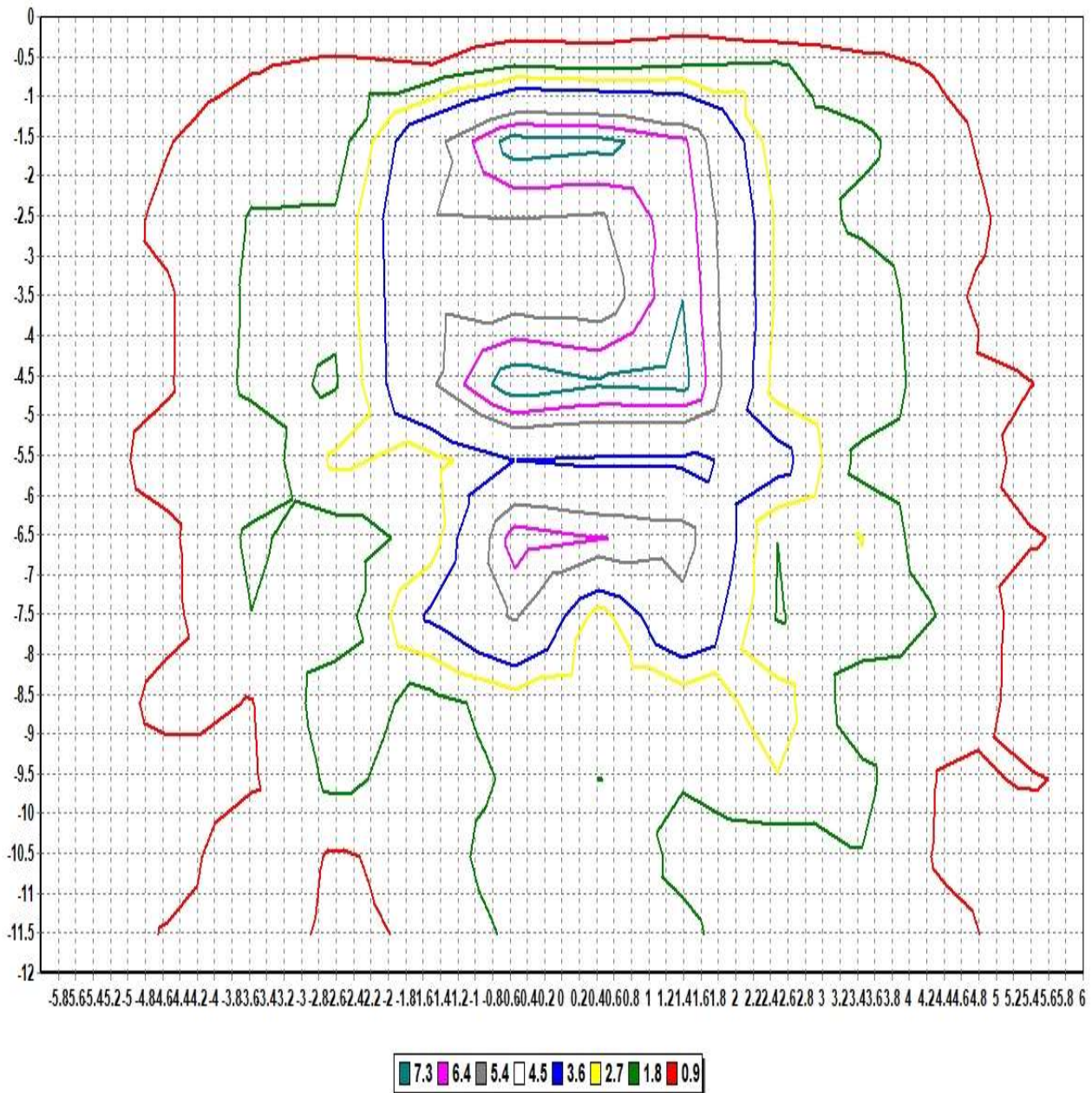
KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41339

Total flux (lm) Date317 Power Factor 1 2024-04-09 오후 2:52:52

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)	23.948	Filename	240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt
Lamp flux (lm)	817	Current (A)	0.41339	Operator	
Total flux (lm)	817	Power Factor	1	Date	2024-04-09 오후 2:52:52

Illuminance Levels (Ground)

6.00	0.23	0.31	0.24	0.29	0.38	0.44	0.50	0.46	0.33	0.24	0.21	0.28	0.18
5.00	0.25	0.25	0.38	0.56	1.07	1.32	1.44	1.34	0.99	0.50	0.33	0.17	0.24
4.00	0.18	0.30	0.93	1.42	1.28	1.77	2.02	1.78	1.15	1.34	0.79	0.26	0.15
3.00	0.28	0.40	1.16	1.59	4.05	3.80	4.67	3.54	3.89	1.32	1.17	0.38	0.23
2.00	0.34	1.00	1.23	3.19	5.29	9.01	13.66	8.56	4.60	3.38	1.12	0.94	0.29
1.00	0.37	1.08	1.44	3.44	8.73	27.29	96.62	24.24	8.40	3.32	1.57	1.22	0.40
0.00	0.40	1.19	1.64	3.84	10.86	92.20	199.40	103.20	10.93	3.82	1.56	1.16	0.33
-1.00	0.35	1.07	1.43	3.41	8.64	24.47	126.11	35.66	10.45	4.05	1.55	1.17	0.35
-2.00	0.34	0.98	1.20	3.39	4.69	8.87	15.98	10.63	6.00	4.02	1.41	1.16	0.40
-3.00	0.28	0.45	1.20	1.40	4.10	3.71	5.18	4.28	4.56	1.78	1.41	0.51	0.33
-4.00	0.19	0.32	0.82	1.42	1.23	1.94	2.23	1.93	1.44	1.57	1.04	0.37	0.22
-5.00	0.27	0.22	0.38	0.56	1.04	1.45	1.59	1.42	1.21	0.64	0.44	0.30	0.31
-6.00	0.20	0.31	0.25	0.29	0.38	0.53	0.58	0.51	0.44	0.34	0.29	0.35	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.) : 199.40

Illum. (Min.) : 0.1481

Illum. (Avg.) : 6.2148

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp Report

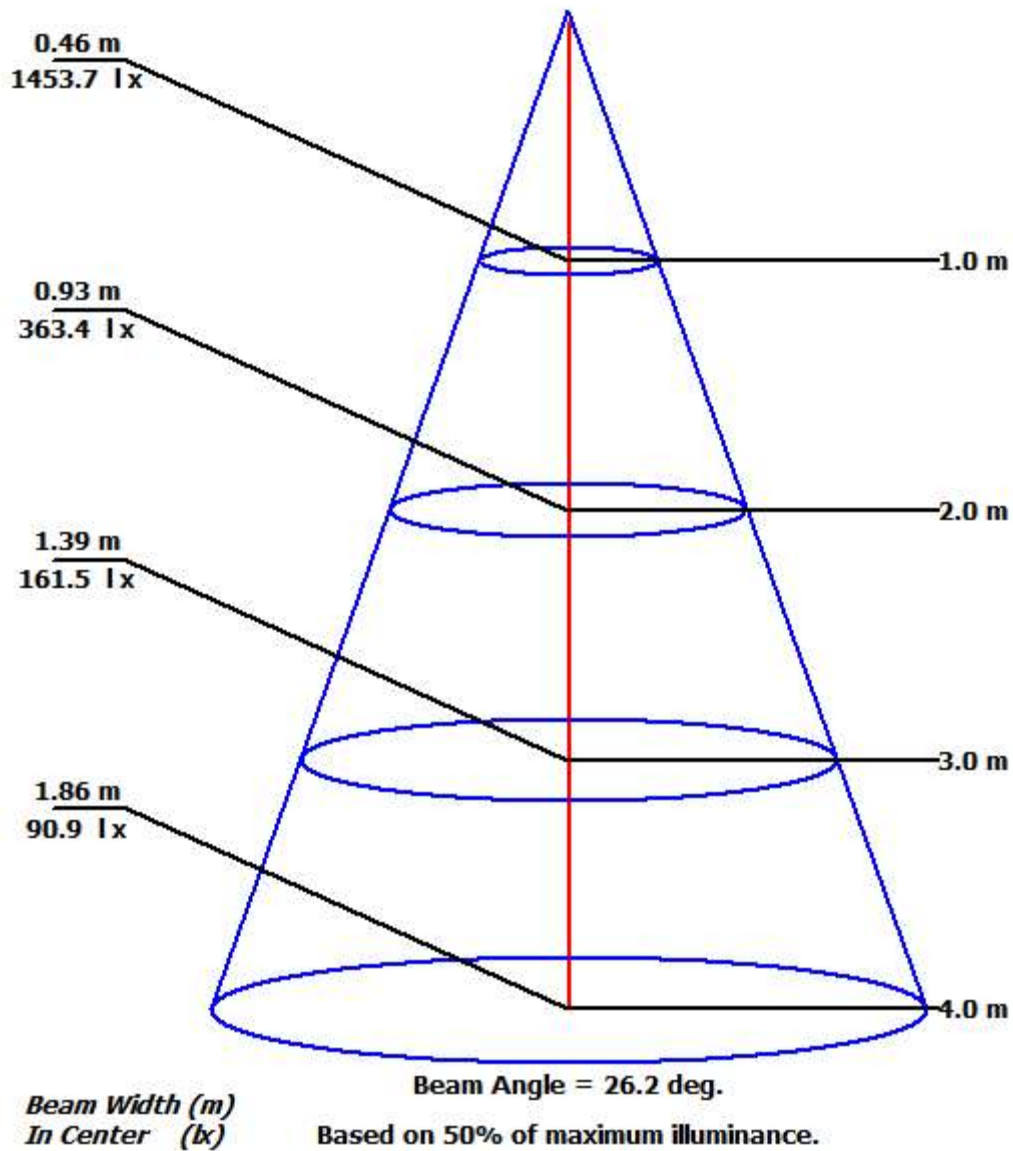
KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41339

Total flux (lm) Date 17 Power Factor 1 2024-04-09 오후 2:52:52

Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1 Voltage (V) 23.948

Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) 817 Current (A) 0.41339

Operator

Total flux (lm) 817 Power Factor 1

Date

2024-04-09 오후 2:52:52

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