

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_FULL**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		0.4358 , 0.3949	
Correlated Color Temperature	K	2943	
Ra		94.12	
Power Factor		1.000	
Input Voltage	V	23.903	
Input Current	A	0.805	
Input Watt	W	19.243	
Lamp Flux	lm	1414.2	
Efficient	lm/W	73.50	
luminous Intensity (Max , Center)	cd	2715 , 2715	
Illuminance	lx	2715	1 m
		679	2 m
		302	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

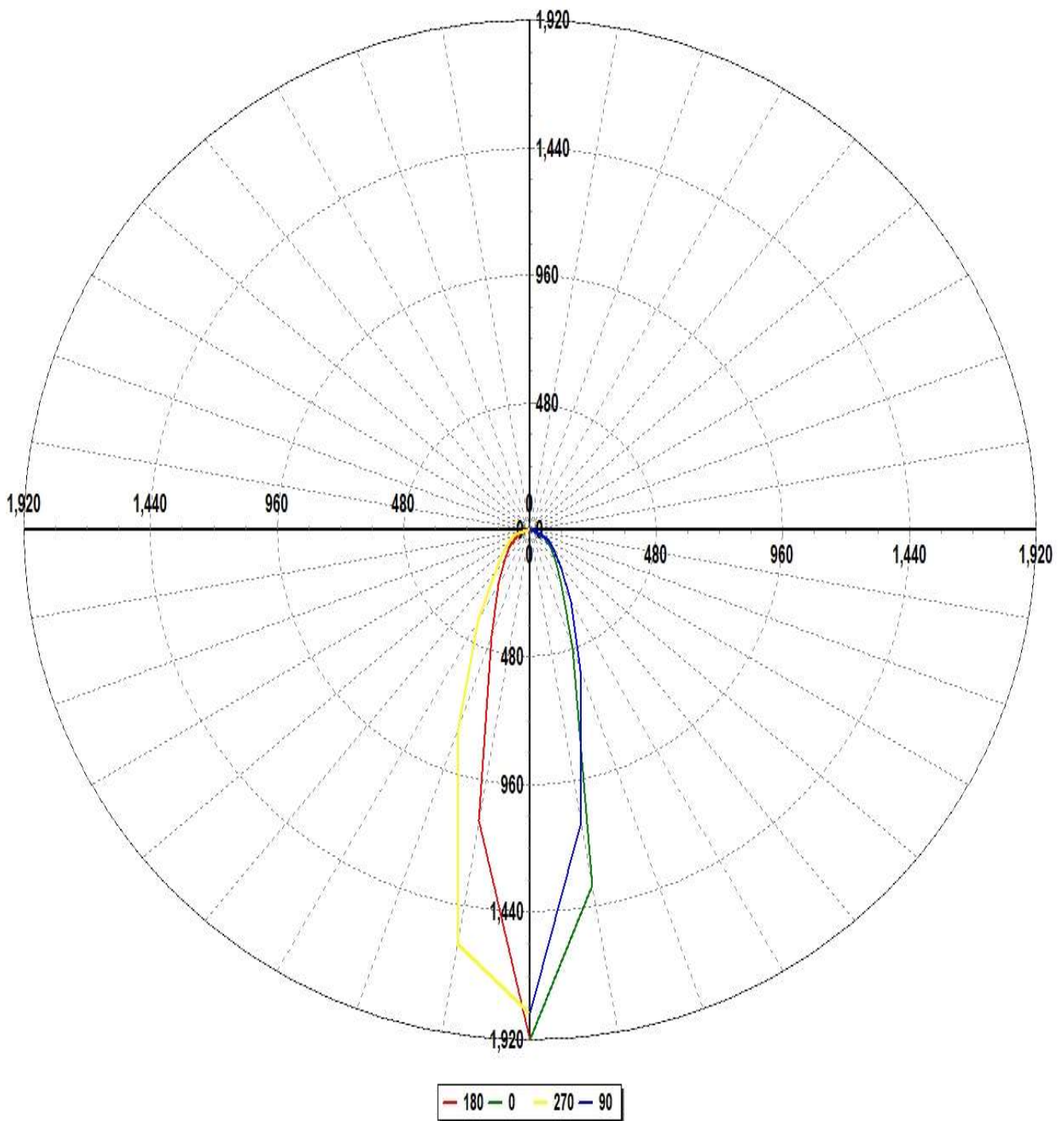
No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_FULL ON.jdt

Lamp flux (lm)Operator 4 Current (A) 0.805

Total flux (lm)Date 1414 Power Factor 1

2024-04-09 오후 3:05:50

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp Report

KH FEELUX

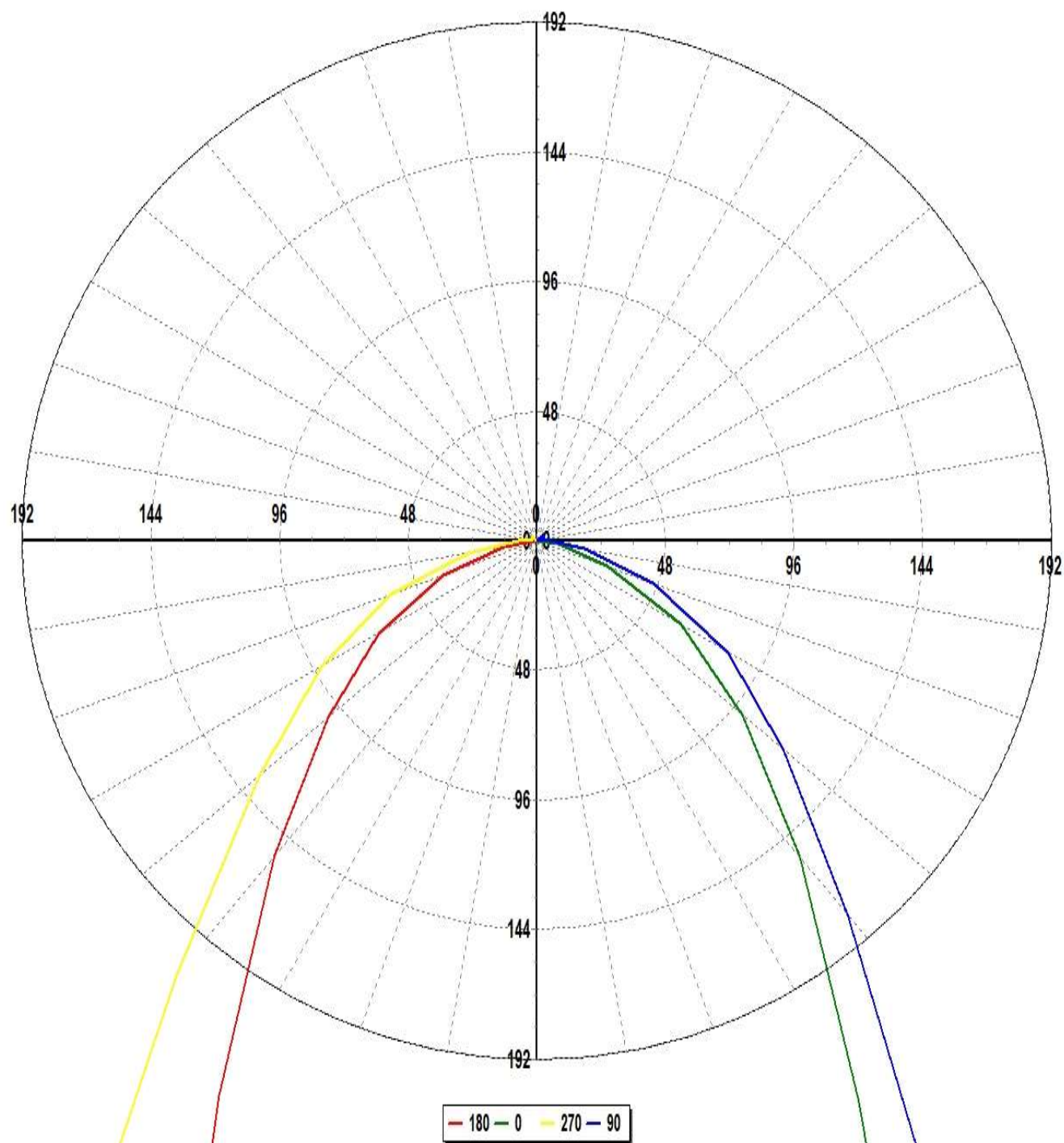
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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Total flux (lm) Date 1414 Power Factor 1 2024-04-09 오후 3:05:50

Luminous Intensity Data

Maximum (cd) : 2715

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	2715.31	2688.63	2632.53	2574.62	2535.83	2479.6	2715.31	2688.63	2632.53	2574.62
10	1922.37	1617.34	1893.63	1582.66	1602.37	1193.22	1571.87	1958.54	1814.99	2238.15
20	671.32	641.6	807.45	793.5	659.67	490.86	602.78	719.85	818.22	1127.09
30	339.75	351.72	407.16	436.85	358.59	298.11	335.86	365.85	442.39	545.05
40	215.95	219.83	246.5	255.55	230.77	196.54	215.46	230.04	262.86	295.39
50	141.65	145.42	163.77	170.22	158.61	132.05	143.79	154.1	177.55	191.08
60	87.62	93.4	104.5	116.42	103.45	86.46	96.56	101.37	118.31	131.25
70	39.53	43.91	57.39	65.25	58.07	45.15	52.49	59.72	69.17	81.73
80	11.81	13.54	21.77	25.83	22.42	13.62	17.9	21.53	30.26	36.66
90	0.57	1.43	3.99	6.84	4.79	2.2	1.34	3.17	7.02	9.56
100	1.29	1.13	1.26	1.99	1.92	2.24	0.3	1.75	1.48	2.44
110	1.72	1.79	1.72	1.79	1.88	1.99	1.56	1.22	1.49	2.34
120	2.91	3.27	3.24	3.27	3.42	3.12	1.92	1.68	1.94	1.57
130	3.09	3.77	4.16	5.06	4.46	4.2	3.31	3	3.34	3.59

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Total flux (lm) Date 1414 Power Factor 1 2024-04-09 오후 3:05:50

Luminous Intensity Data (Continued)

Maximum (cd) : 2715

Minimum (cd) : 0

G/C	300	330	360
0	2535.83	2479.6	2715.31
10	2064.15	2328.45	1922.37
20	952	906.6	671.32
30	486.35	420.4	339.75
40	277.17	251.71	215.95
50	184.03	165.49	141.65
60	120.83	108.62	87.62
70	69.6	59.42	39.53
80	30.36	21.53	11.81
90	6.86	3.23	0.57
100	1.76	0.41	1.29
110	1.54	0.81	1.72
120	2.14	1.58	2.91
130	3.56	2.54	3.09

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Luminous Flux Table

Total Lamp Lumens: 1414.2

Luminaire Efficiency (lm/W): 73.49

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	62.27	62.27	4.40	4.40
10	345.31	407.58	28.82	28.82
20	286.90	694.48	49.11	49.11
30	218.50	912.98	64.56	64.56
40	170.00	1082.99	76.58	76.58
50	134.78	1217.77	86.11	86.11
60	100.29	1318.06	93.20	93.20
70	60.16	1378.22	97.46	97.46
80	24.02	1402.24	99.15	99.16
90	4.66	1406.89	99.48	99.48
100	1.61	1408.51	99.60	99.60
110	1.70	1410.21	99.72	99.72
120	2.38	1412.59	99.89	99.89
130	1.60	1414.18	100.00	100.00

Luminaire KH FEELUX

Lamp Report

KH FEELUX

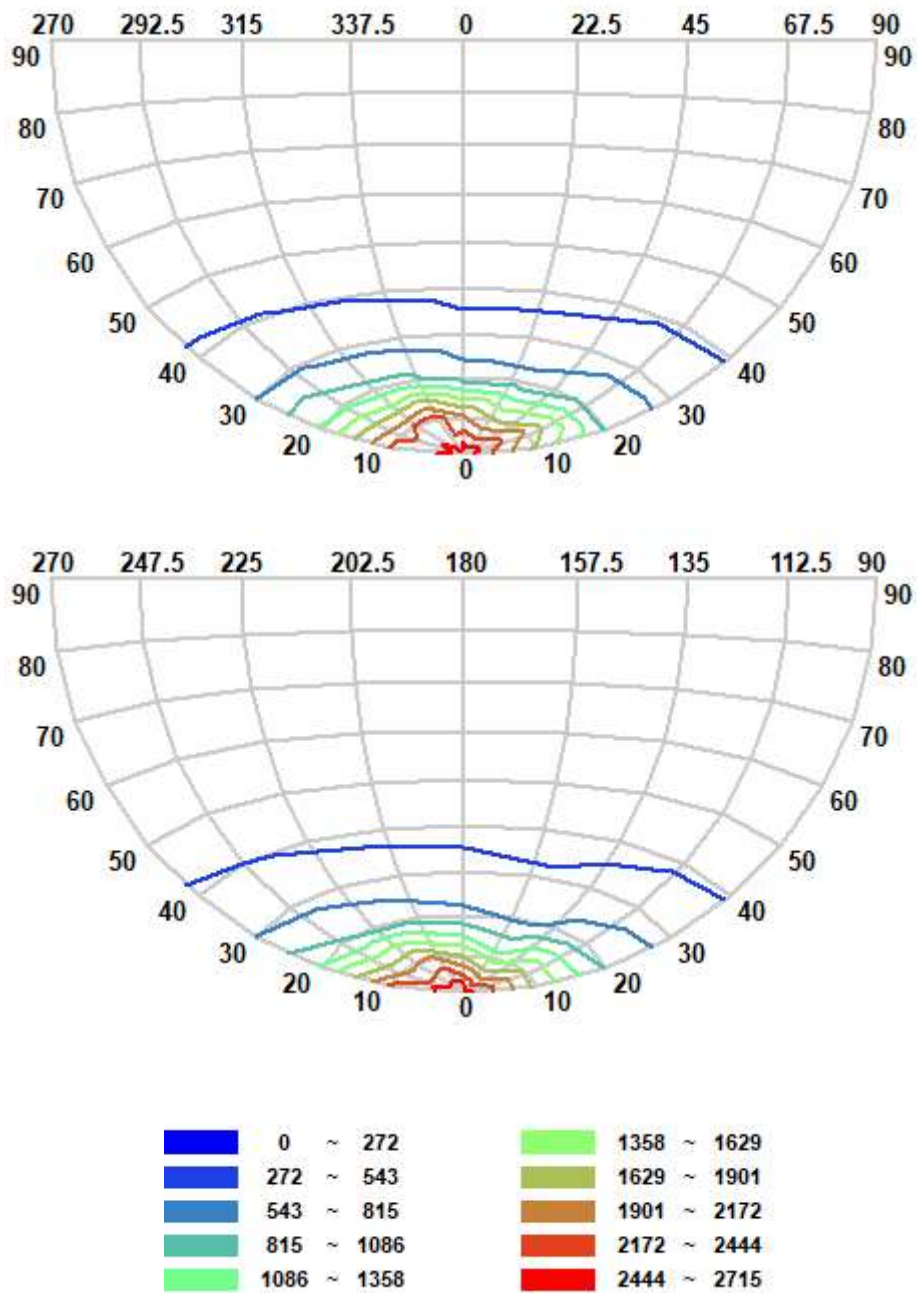
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IsoCandela (Type C)



Luminaire KH FEELUX

Lamp Report

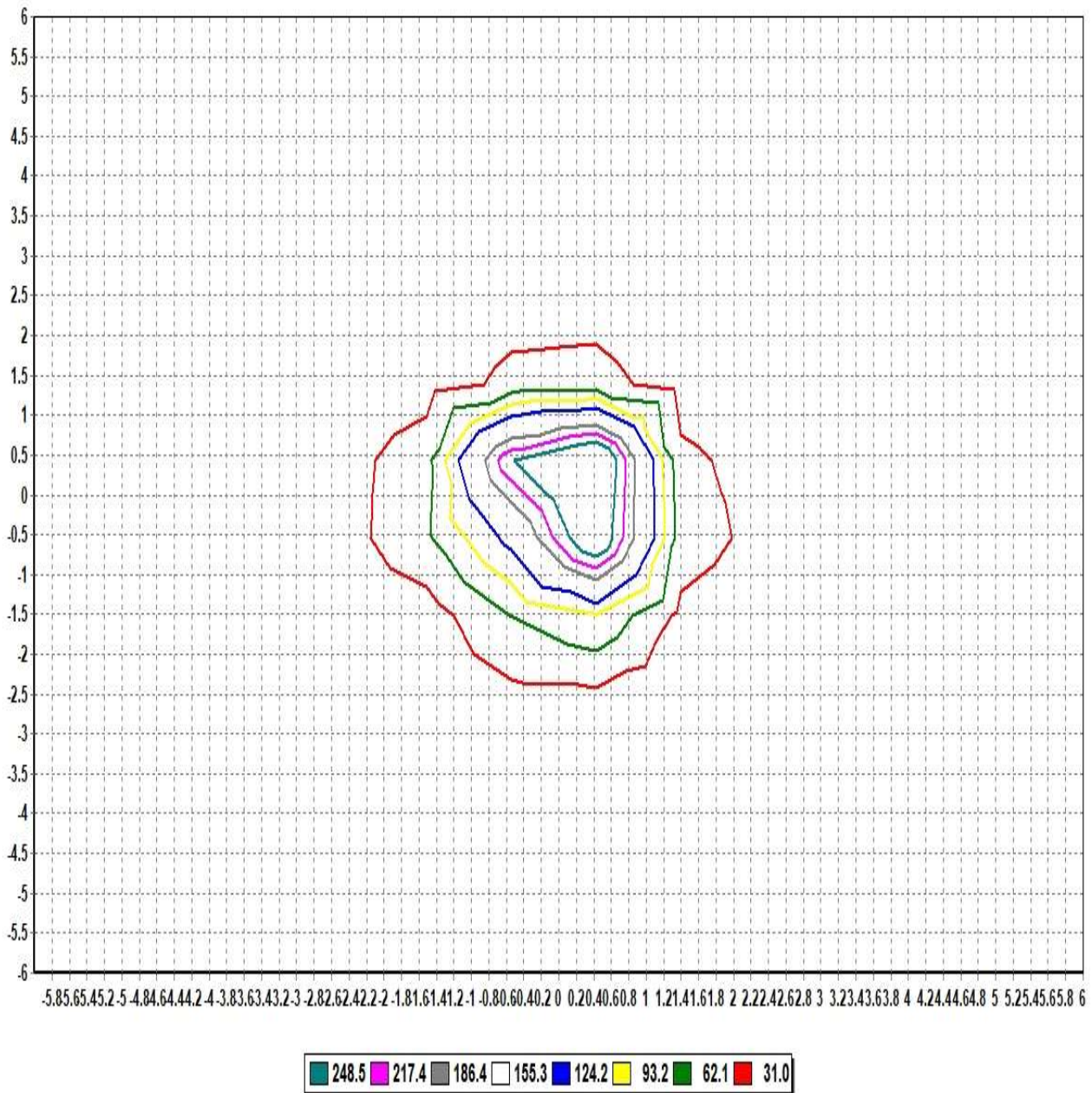
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Total flux (lm) Date 1414 Power Factor 1 2024-04-09 오후 3:05:50

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp Report

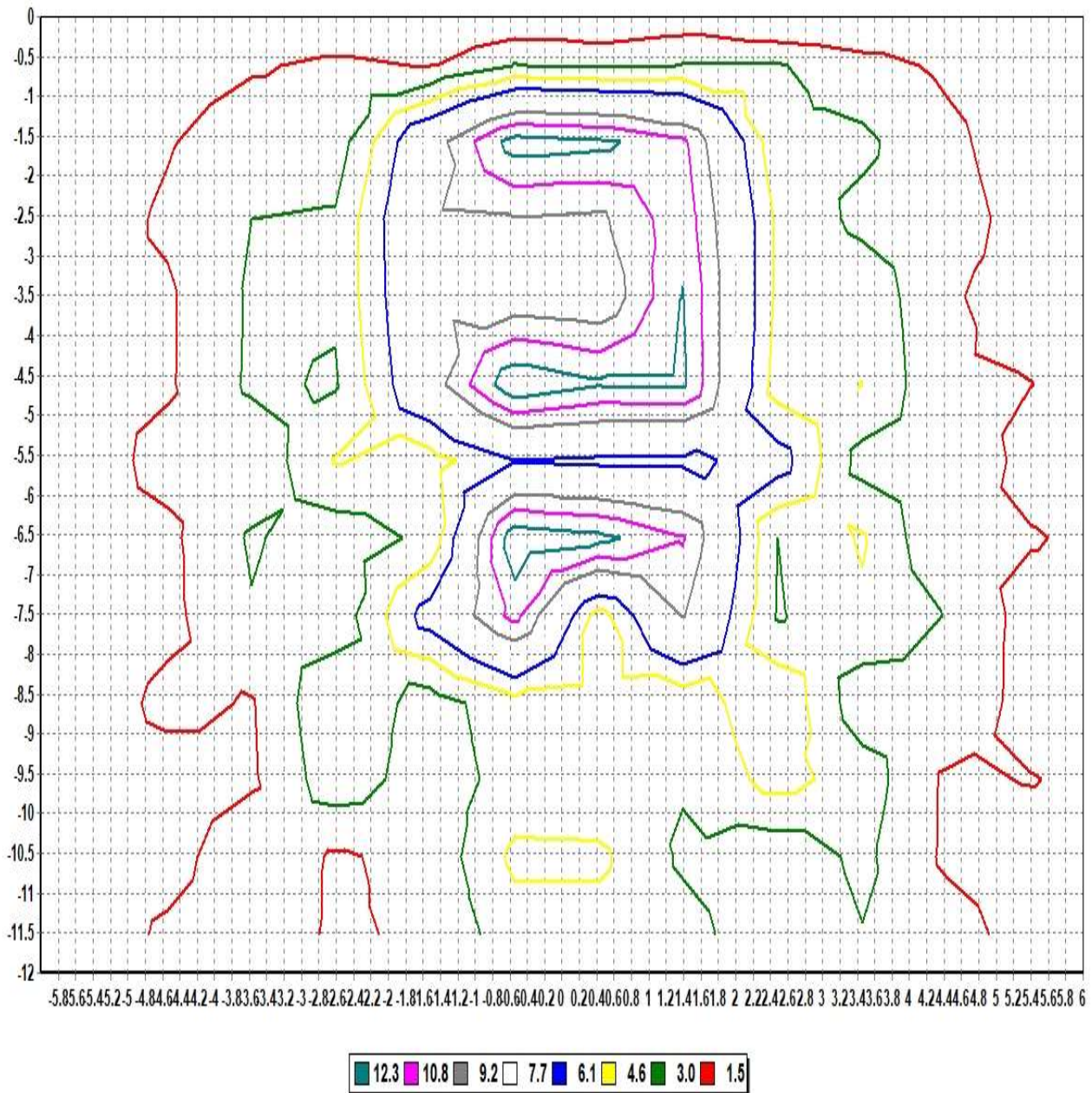
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Total flux (lm) Date 1414 Power Factor 1 2024-04-09 오후 3:05:50

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

Lamp flux (lm) 1414 Current (A) 0.805 Operator

Total flux (lm) 1414 Power Factor 1 Date 2024-04-09 오후 3:05:50

Illuminance Levels (Ground)

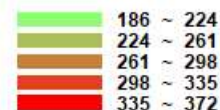
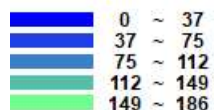
6.00	0.38	0.51	0.40	0.48	0.63	0.72	0.82	0.75	0.53	0.39	0.34	0.46	0.30
5.00	0.42	0.41	0.62	0.91	1.77	2.17	2.38	2.19	1.63	0.81	0.54	0.29	0.41
4.00	0.29	0.49	1.53	2.34	2.10	2.89	3.32	2.91	1.91	2.21	1.31	0.44	0.25
3.00	0.47	0.67	1.92	2.62	6.67	6.27	7.69	5.87	6.42	2.20	1.97	0.64	0.38
2.00	0.55	1.65	2.04	5.32	8.73	14.95	22.67	14.28	7.71	5.70	1.87	1.56	0.48
1.00	0.62	1.82	2.41	5.70	14.50	45.31	176.14	39.95	14.05	5.54	2.63	2.04	0.66
0.00	0.67	2.00	2.78	6.49	18.31	174.26	372.47	212.88	18.43	6.42	2.63	1.95	0.57
-1.00	0.59	1.78	2.39	5.78	14.62	40.43	249.11	60.94	17.66	6.81	2.60	1.96	0.59
-2.00	0.58	1.66	2.02	5.74	7.95	14.98	27.19	17.99	10.11	6.71	2.39	1.95	0.68
-3.00	0.48	0.75	2.03	2.36	6.86	6.27	8.70	7.19	7.70	3.00	2.36	0.85	0.56
-4.00	0.33	0.54	1.39	2.40	2.07	3.26	3.73	3.24	2.44	2.64	1.75	0.62	0.37
-5.00	0.45	0.37	0.64	0.94	1.76	2.44	2.67	2.39	2.04	1.07	0.74	0.50	0.52
-6.00	0.34	0.52	0.42	0.49	0.64	0.89	0.97	0.85	0.75	0.58	0.49	0.59	0.44
-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.) : 372.47

Illum. (Min.) : 0.2520

Illum. (Avg.) : 11.298

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp Report

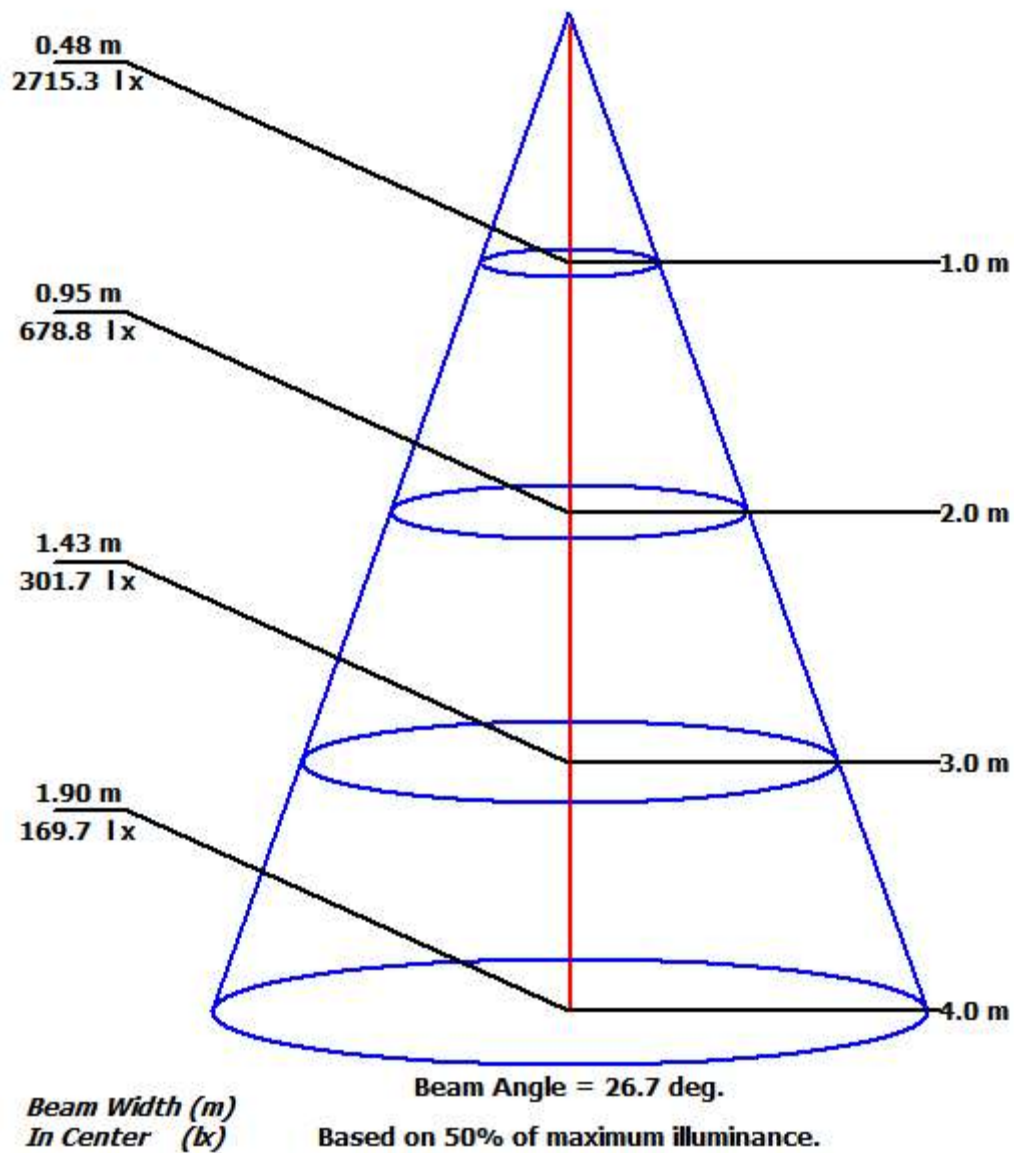
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Lamp flux (lm) Operator 4 Current (A) 0.805

Total flux (lm) Date 1414 Power Factor 1 2024-04-09 오후 3:05:50

Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.903	Filename	240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_FULL ON.jdt
Lamp flux (lm)	1414	Current (A)	0.805	Operator	
Total flux (lm)	1414	Power Factor	1	Date	2024-04-09 오후 3:05:50

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