

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_22K ON**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 reproduced, 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		0.5009 , 0.4168	
Correlated Color Temperature	K	2253	
Ra		91.75	
Power Factor		1.000	
Input Voltage	V	23.947	
Input Current	A	0.416	
Input Watt	W	9.961	
Lamp Flux	lm	626.4	
Efficient	lm/W	62.89	
luminous Intensity (Max , Center)	cd	1300 , 1290	
Illuminance	lx	1290	1 m
		322	2 m
		143	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

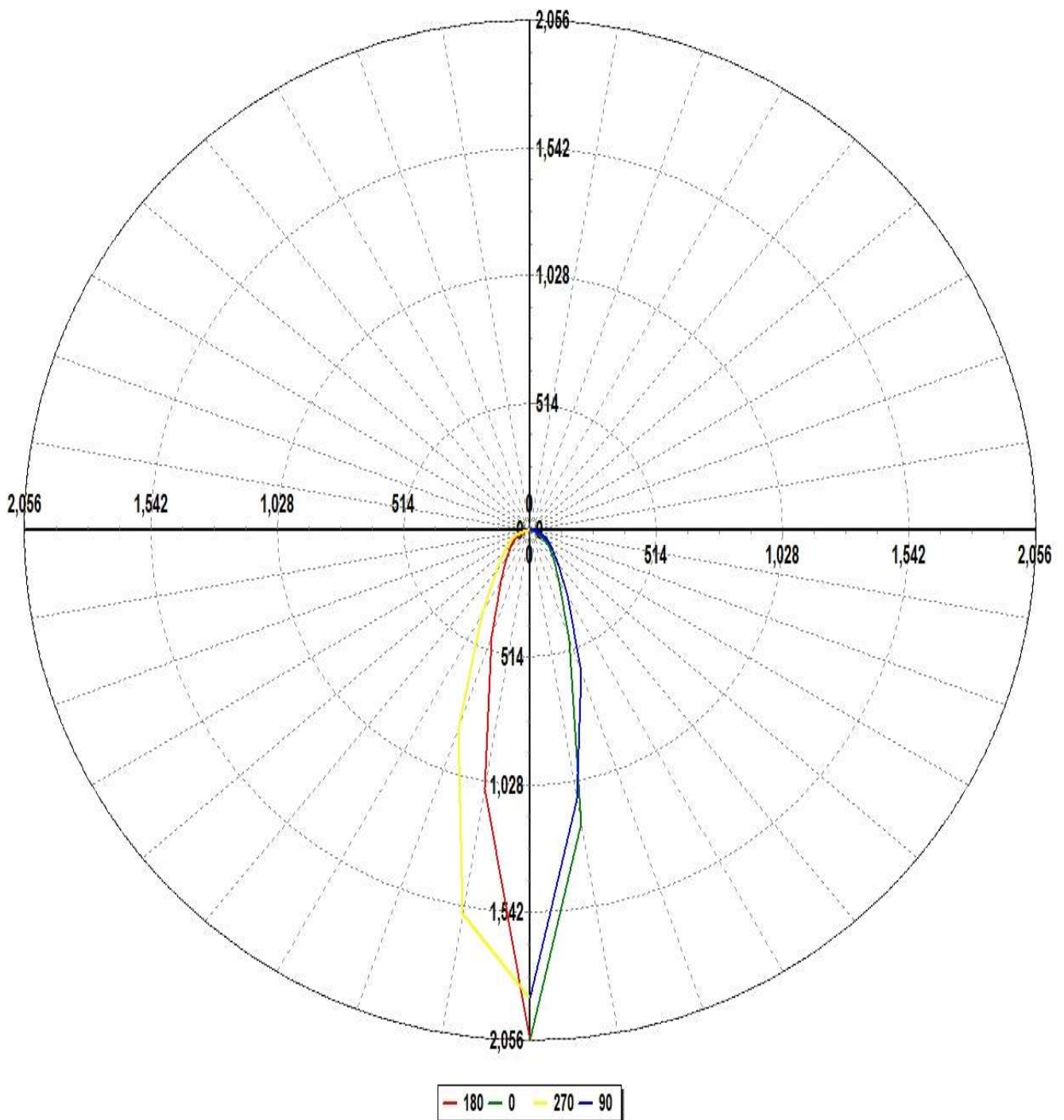
No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_22K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41596

Total flux (lm) Date:26 Power Factor 1

2024-04-09 오후 2:43:25

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp Report

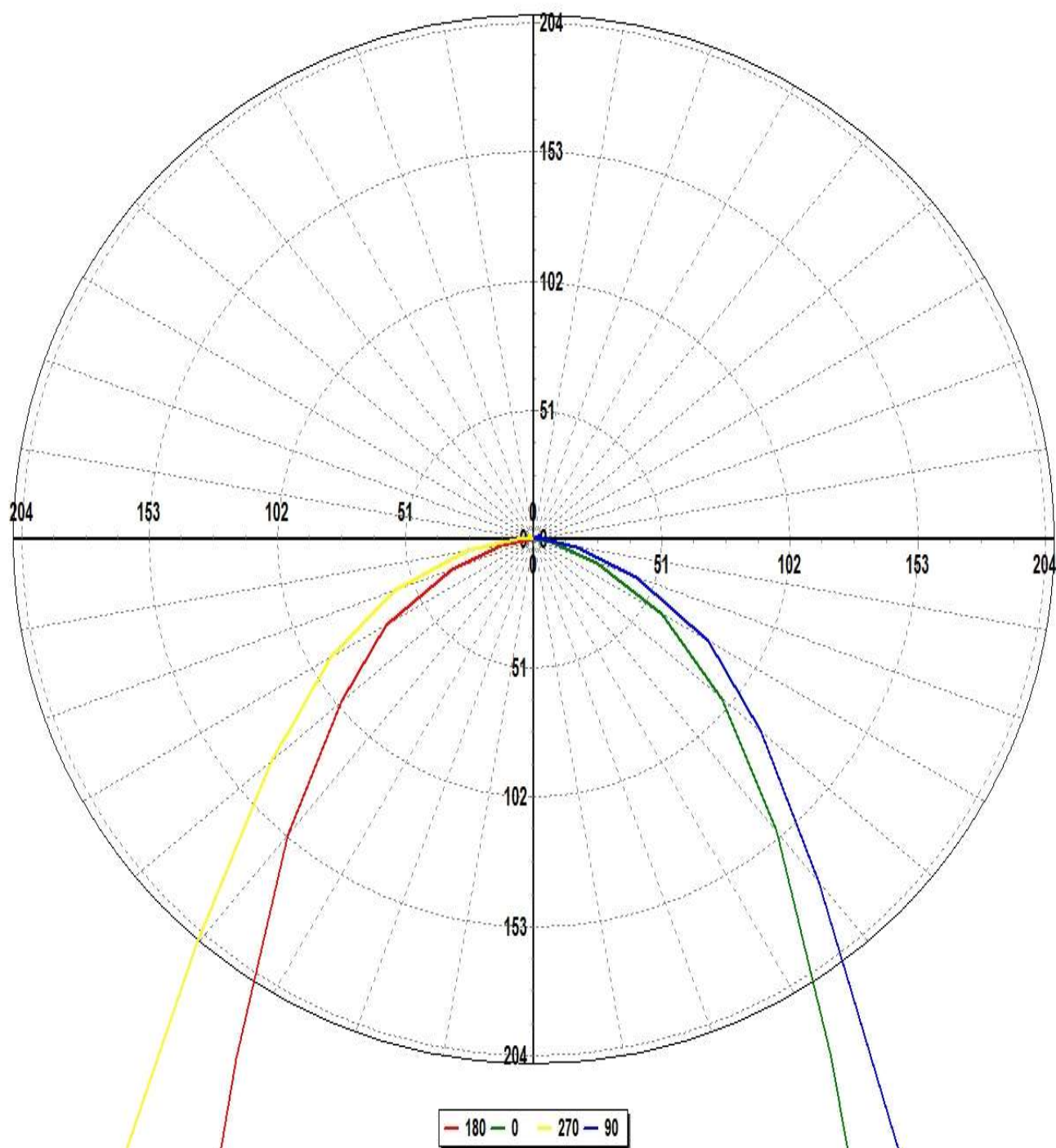
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Luminous Intensity Distribution (Lowest 10%)



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Luminous Intensity Data

Maximum (cd) : 1300

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1289.53	1264.36	1295.83	1182.42	1299.81	1077.1	1289.53	1264.36	1295.83	1182.42
10	753.36	676.62	769.11	690.09	639.36	498.81	663.41	787.11	810.21	984.94
20	295.12	302.05	354.91	380.79	296.03	231.73	287.49	319.65	399.38	536.86
30	148.3	152.49	176.01	190.64	158.02	131.57	148.54	160.08	193.54	245.45
40	94.44	96.14	107.97	110.73	101.44	87.82	95.53	102.09	115.08	131.32
50	61.6	62.98	71.24	74.05	68.74	57.58	62.72	69.11	79.17	85.51
60	36.92	40.58	45.22	50.22	44.92	37.82	42.58	45.11	52.88	58.32
70	16.72	18.13	24.27	27.36	24.21	19.04	21.78	26.29	31.22	36.92
80	4.6	4.85	8.08	10.8	9.36	5.66	8.21	9.77	13.29	16.67
90	0.56	0.86	2.03	2.44	2.04	0.22	0.7	1.78	3.09	4.14
100	-0.02	-0.09	1.09	0.72	0.77	0.53	0.83	0.33	0.52	0.76
110	0.67	0.48	0.7	0.67	0.93	0.41	0.8	0.8	1.74	0.34
120	0.24	1.45	0.9	1.27	0.86	1.38	0.44	0.8	1.44	1.25
130	0.92	1.74	2.62	1.94	2.28	2.6	1.62	1.72	1.36	1.69

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Total flux (lm) Date: 26 Power Factor 1 2024-04-09 오후 2:43:25

Luminous Intensity Data (Continued)

Maximum (cd) : 1300

Minimum (cd) : 0

G/C	300	330	360
0	1299.81	1077.1	1289.53
10	948.23	1012.91	753.36
20	485.57	416.66	295.12
30	219.4	187.47	148.3
40	122.91	112.02	94.44
50	82.44	73.97	61.6
60	54.42	48.47	36.92
70	31.52	26.05	16.72
80	13.61	9.56	4.6
90	2.87	1.83	0.56
100	0.43	0.46	-0.02
110	0.57	-0.13	0.67
120	0.92	0.72	0.24
130	1.6	1.48	0.92

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Luminous Flux Table

Total Lamp Lumens: 626.37

Luminaire Efficiency (lm/W): 62.88

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	29.52	29.52	4.71	4.71
10	146.35	175.87	28.08	28.08
20	134.42	310.30	49.54	49.54
30	96.36	406.66	64.92	64.92
40	74.95	481.60	76.88	76.89
50	59.37	540.97	86.36	86.37
60	44.06	585.03	93.40	93.40
70	26.03	611.06	97.55	97.56
80	10.29	621.35	99.19	99.20
90	2.06	623.41	99.52	99.53
100	0.57	623.98	99.61	99.62
110	0.68	624.66	99.72	99.73
120	0.92	625.58	99.87	99.88
130	0.78	626.37	99.99	100.00

Luminaire KH FEELUX

Lamp Report

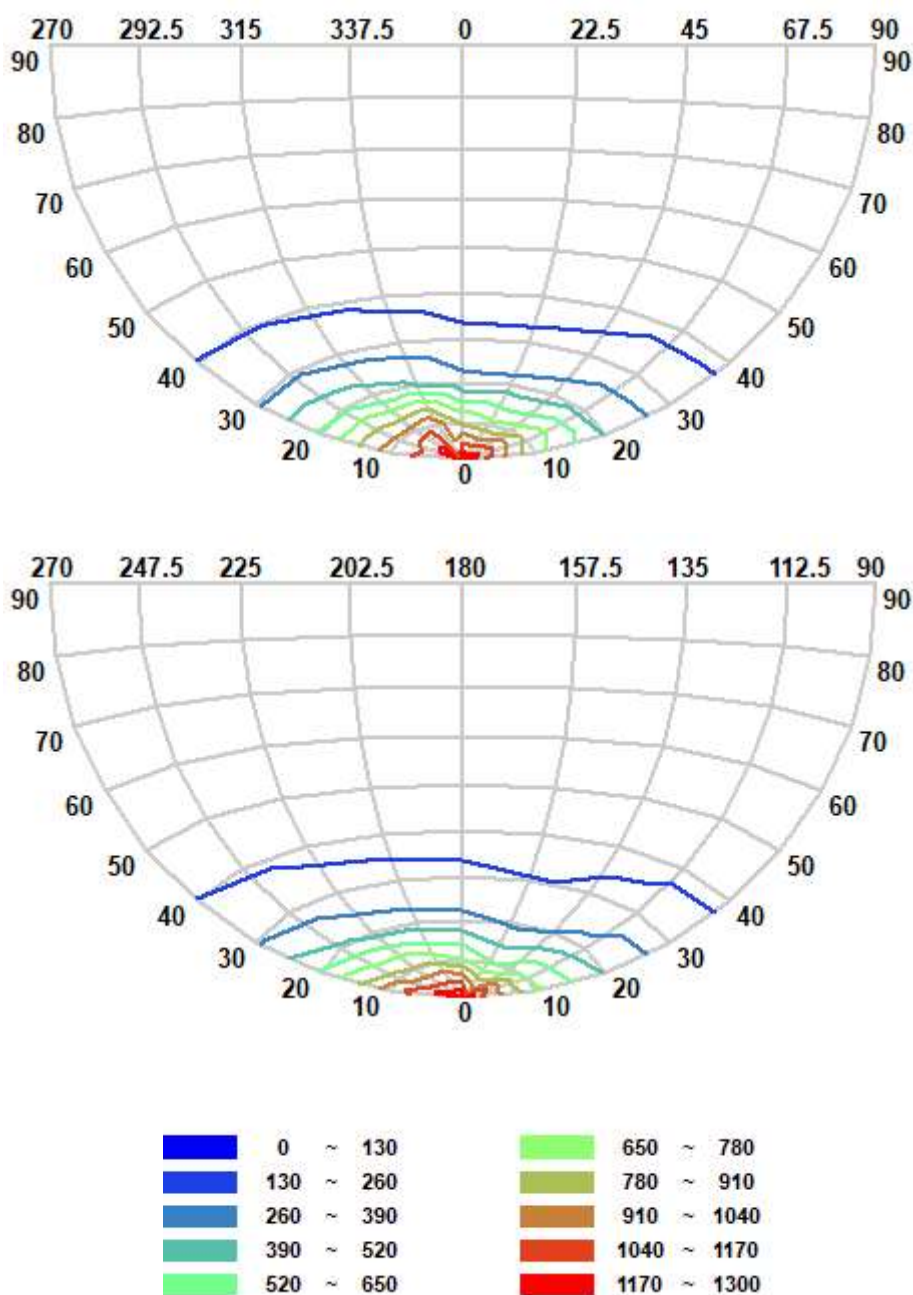
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IsoCandela (Type C)



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Lamp Report

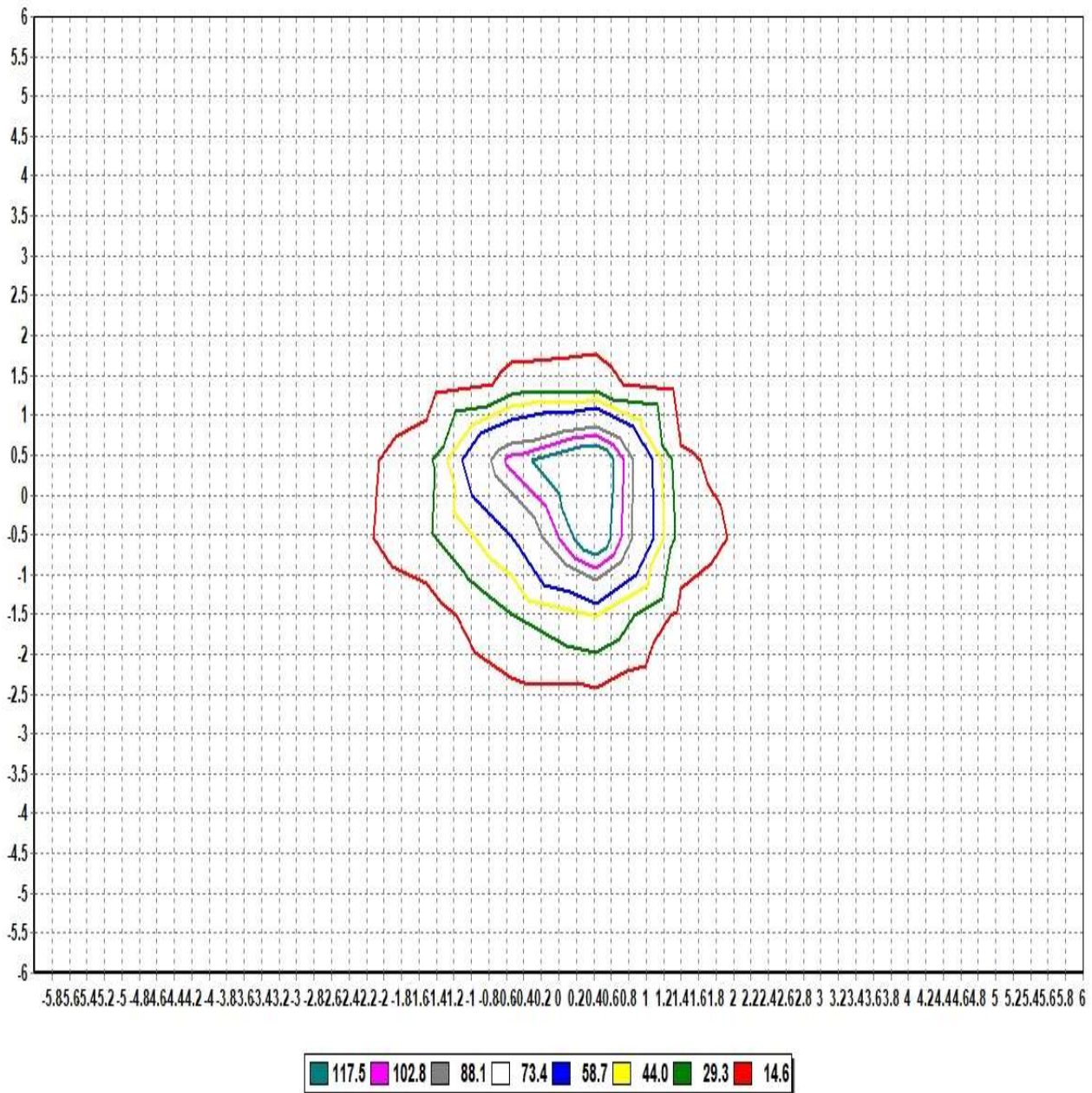
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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp Report

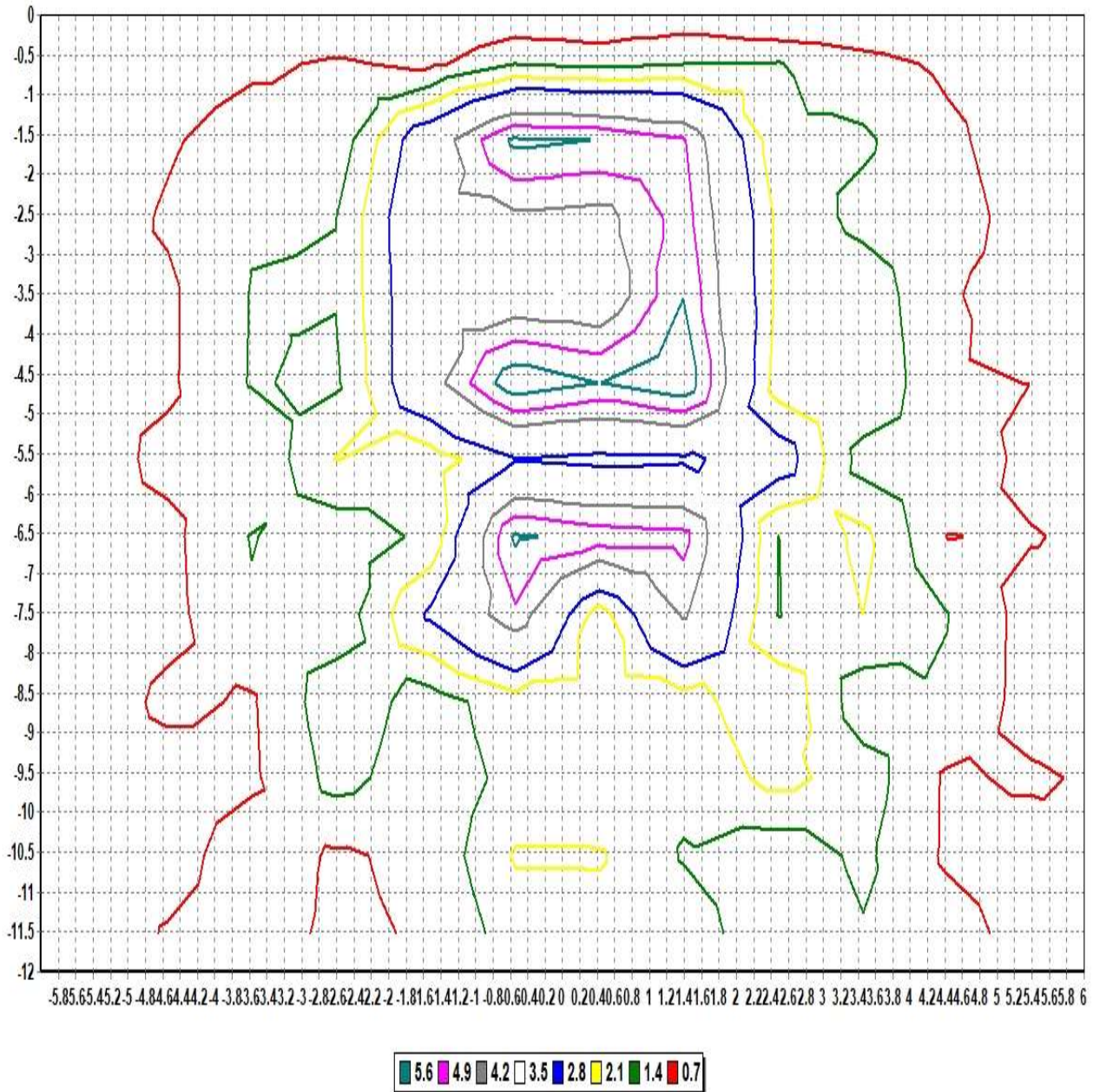
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IsoLux Diagram (Wall)



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)	23.947	Filename	240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_22K ON.jdt
Lamp flux (lm)	626	Current (A)	0.41596	Operator	
Total flux (lm)	626	Power Factor	1	Date	2024-04-09 오후 2:43:25

Illuminance Levels (Ground)

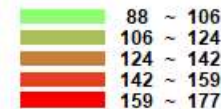
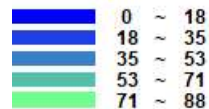
6.00	0.16	0.22	0.17	0.20	0.27	0.31	0.35	0.32	0.23	0.17	0.15	0.20	0.13
5.00	0.18	0.17	0.26	0.39	0.77	0.94	1.03	0.95	0.71	0.35	0.23	0.12	0.17
4.00	0.12	0.21	0.67	1.01	0.91	1.25	1.44	1.26	0.83	0.96	0.57	0.19	0.11
3.00	0.20	0.29	0.84	1.13	2.90	2.72	3.34	2.55	2.81	0.95	0.85	0.27	0.16
2.00	0.24	0.72	0.88	2.36	3.80	6.56	9.86	6.24	3.36	2.49	0.81	0.68	0.20
1.00	0.26	0.80	1.05	2.48	6.39	20.31	76.93	17.67	6.14	2.41	1.15	0.90	0.29
0.00	0.29	0.87	1.22	2.84	8.11	73.67	176.89	83.54	8.05	2.80	1.13	0.85	0.24
-1.00	0.25	0.78	1.05	2.56	6.48	18.07	109.78	28.42	7.84	3.05	1.14	0.86	0.26
-2.00	0.25	0.74	0.90	2.54	3.52	6.63	12.17	7.99	4.51	2.99	1.08	0.88	0.30
-3.00	0.21	0.33	0.89	1.05	3.02	2.80	3.89	3.22	3.43	1.34	1.05	0.38	0.25
-4.00	0.14	0.23	0.61	1.07	0.92	1.45	1.66	1.44	1.10	1.18	0.78	0.27	0.17
-5.00	0.20	0.16	0.29	0.42	0.78	1.09	1.19	1.07	0.91	0.48	0.33	0.23	0.23
-6.00	0.15	0.23	0.19	0.22	0.29	0.40	0.44	0.38	0.34	0.26	0.22	0.26	0.20
-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.) : 176.89

Illum. (Min.) : 0.1063

Illum. (Avg.) : 4.9823

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp Report

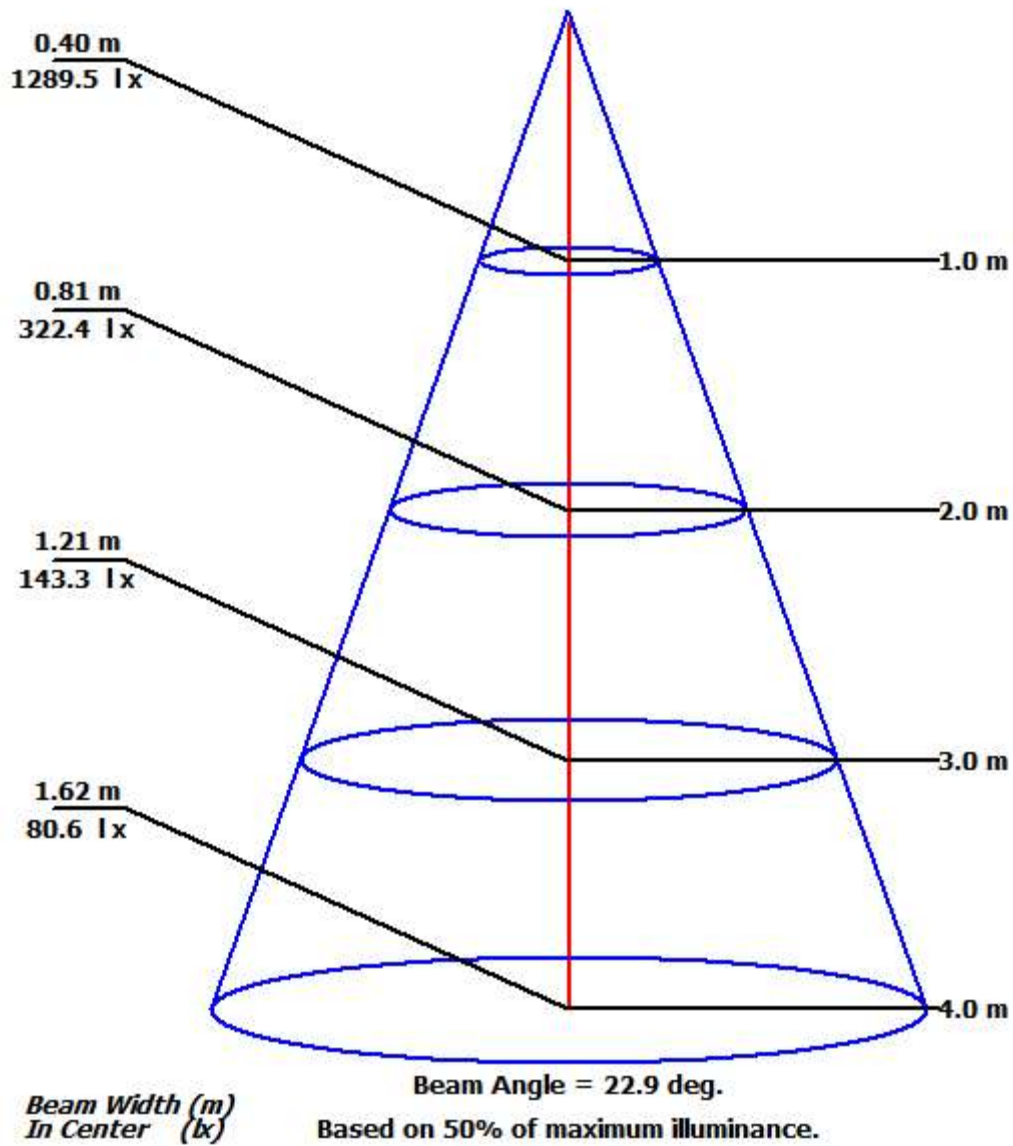
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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1 Voltage (V) 23.947 Filename 240409 FNL3D SC(22K+40K)-24V-C90-20D-1M_MASS PRODUCTION VER_22K ON.jdt

Lamp flux (lm) 626 Current (A) 0.41596 Operator

Total flux (lm) 626 Power Factor 1 Date 2024-04-09 오후 2:43:25

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