

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-C90-35D-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		0.3899 , 0.3861	
Correlated Color Temperature	K	3824	
Ra		93.25	
Power Factor		1.000	
Input Voltage	V	23.948	
Input Current	A	0.415	
Input Watt	W	9.929	
Lamp Flux	lm	838.8	
Efficient	lm/W	84.48	
luminous Intensity (Max , Center)	cd	1140 , 1136	
Illuminance	lx	1136	1 m
		284	2 m
		126	3 m

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

* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp Report

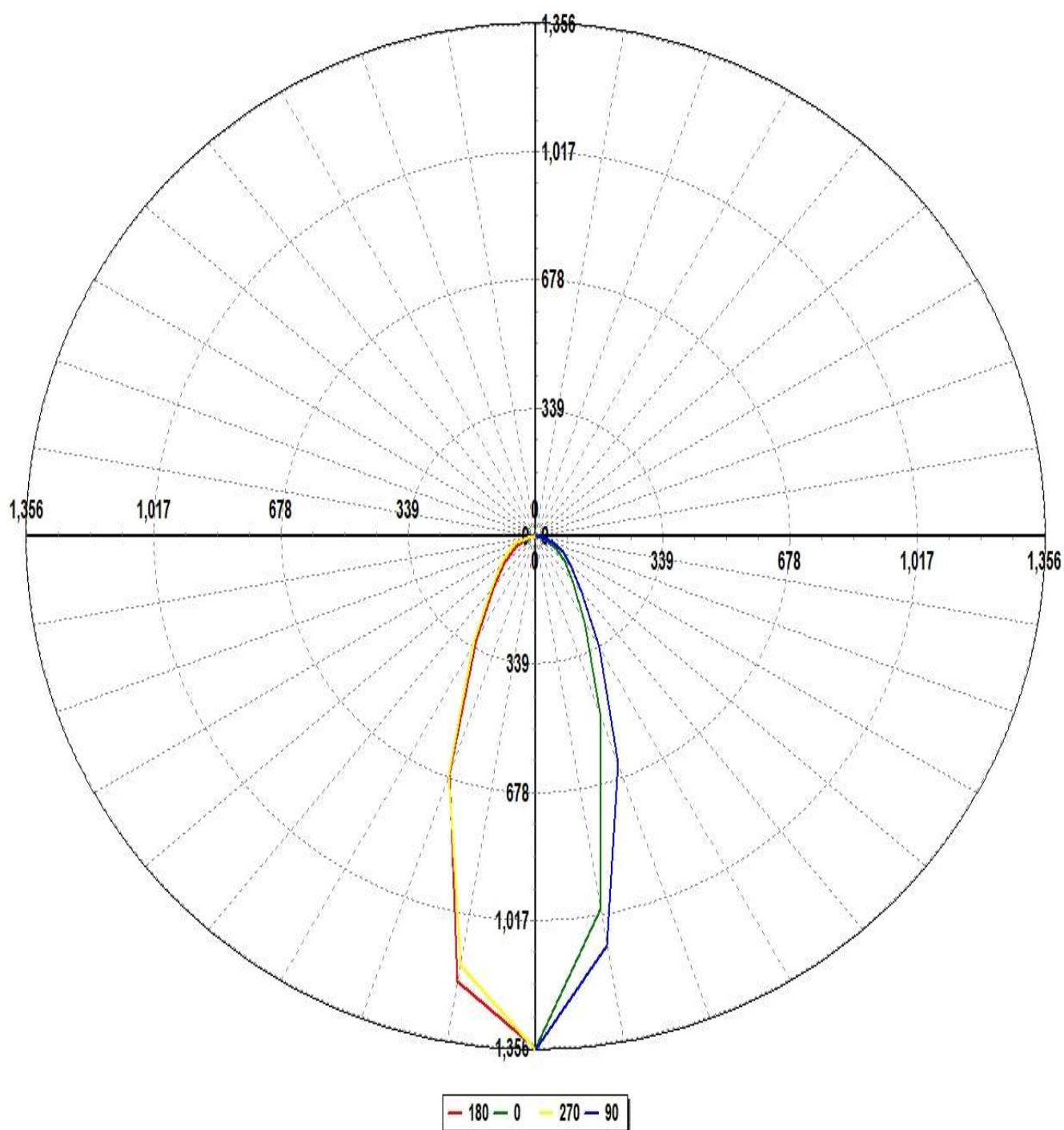
KH FEELUX

No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-35D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41461

Total flux (lm) Date339 Power Factor 1 2024-04-09 오후 3:25:55

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp Report

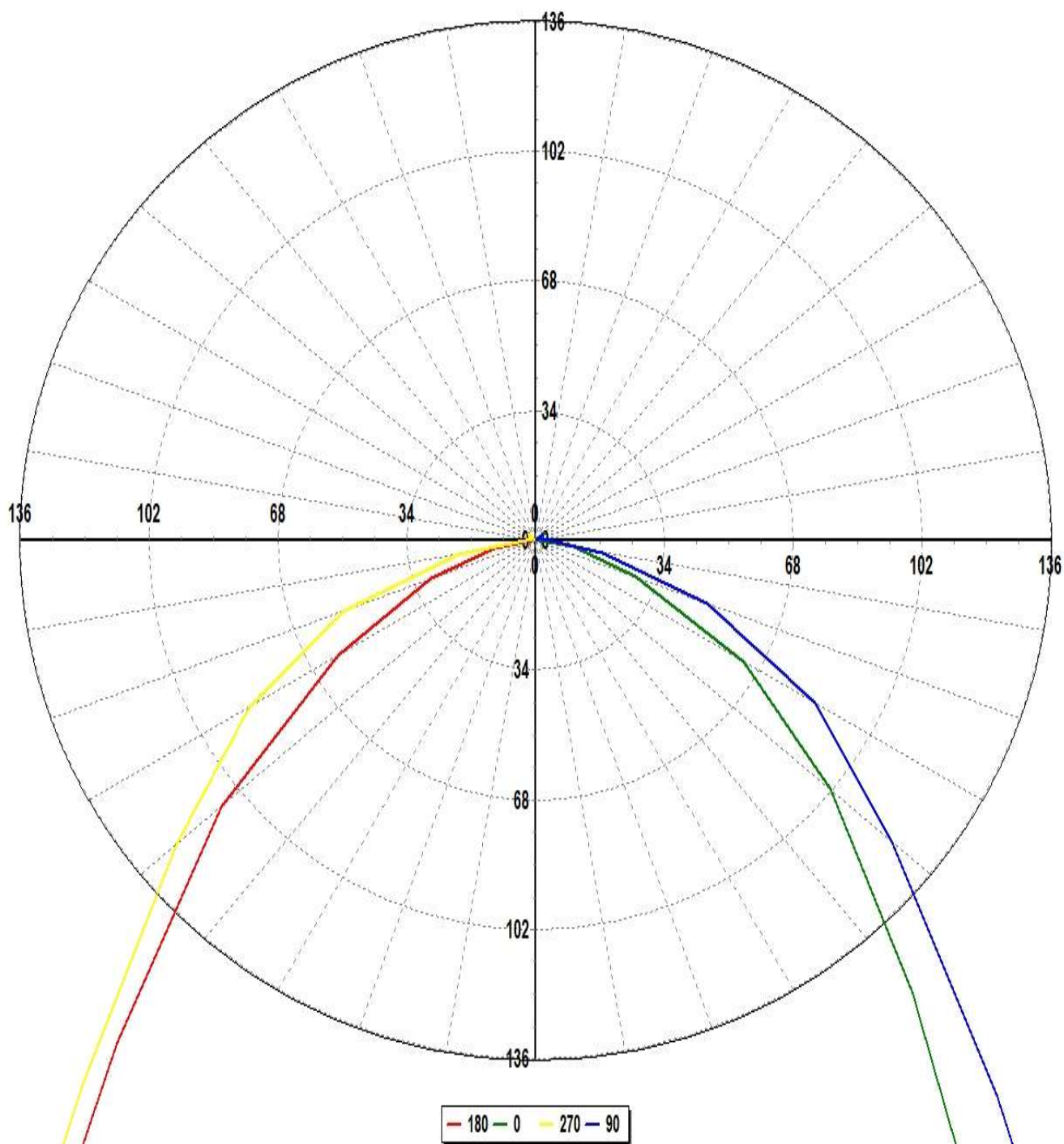
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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Luminous Intensity Data

Maximum (cd) : 1140

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1135.57	1135.18	1136.6	1139.64	1140.24	1139.26	1135.57	1135.18	1136.6	1139.64
10	839.09	853.98	899.25	923.54	933.33	901.17	1002.78	995.92	976.1	966.48
20	429.43	449.2	507.53	537.89	527.89	472.76	563.4	568.39	569.66	566.56
30	219.12	232.11	265.96	285.04	268.02	231.84	267.01	272.47	277.55	280.3
40	129.69	137.1	152.96	159.03	151.33	132.87	144.18	148.55	152.03	156.27
50	85.28	89.2	100.77	103.21	97.33	86.35	90.93	94.53	99.53	103.54
60	53.1	58.41	66.7	71.53	63.97	49.47	50.47	58.38	66.88	73.19
70	23.5	27.02	36.53	40.44	34.82	23.24	24.58	28.36	39.25	45.31
80	8.69	9.43	12.94	15.1	11.8	7.68	9.11	10.38	14.5	17.4
90	0.68	0.79	2.05	3.02	1.61	0.29	0.84	1.42	1.88	2.17
100	0.94	0.44	1.91	1.45	1.05	0.9	0.58	0.94	0.58	0.74
110	1.54	1.44	1.2	1.13	1.04	0.85	0.63	0.83	0.81	0.83
120	1.08	1.16	1.87	1.26	1.19	1.39	1.29	1.6	1.03	1.51
130	2.65	2.22	2.63	2.31	2.66	2.94	2.25	1.96	1.95	1.91

Luminaire KH FEELUX

Lamp Report

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No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-35D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41461

Total flux (lm) Date39 Power Factor 1 2024-04-09 오후 3:25:55

Luminous Intensity Data (Continued)

Maximum (cd) : 1140

Minimum (cd) : 0

G/C	300	330	360
0	1140.24	1139.26	1135.57
10	948.39	950.85	839.09
20	541.35	531.02	429.43
30	269.54	264.61	219.12
40	153.39	149.91	129.69
50	102.61	96.41	85.28
60	69.88	63.32	53.1
70	38.47	33.22	23.5
80	14.44	12.09	8.69
90	1.49	1.81	0.68
100	0.43	1.39	0.94
110	0.64	0.66	1.54
120	1.38	1.45	1.08
130	1.96	2.59	2.65

Luminaire KH FEELUX

Lamp Report

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Lamp flux (lm) Operator Current (A) 0.41461

Total flux (lm) Date39 Power Factor 1 2024-04-09 오후 3:25:55

Luminous Flux Table

Total Lamp Lumens: 838.83

Luminaire Efficiency (lm/W): 84.48

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	27.20	27.20	3.24	3.24
10	177.36	204.56	24.39	24.39
20	195.57	400.14	47.70	47.70
30	143.00	543.13	64.75	64.75
40	103.68	646.82	77.11	77.11
50	80.38	727.20	86.70	86.69
60	58.91	786.11	93.72	93.72
70	33.85	819.96	97.75	97.75
80	12.90	832.87	99.29	99.29
90	1.65	834.52	99.49	99.49
100	1.02	835.54	99.61	99.61
110	0.99	836.53	99.73	99.73
120	1.28	837.81	99.88	99.88
130	1.02	838.83	100.00	100.00

Luminaire KH FEELUX

Lamp Report

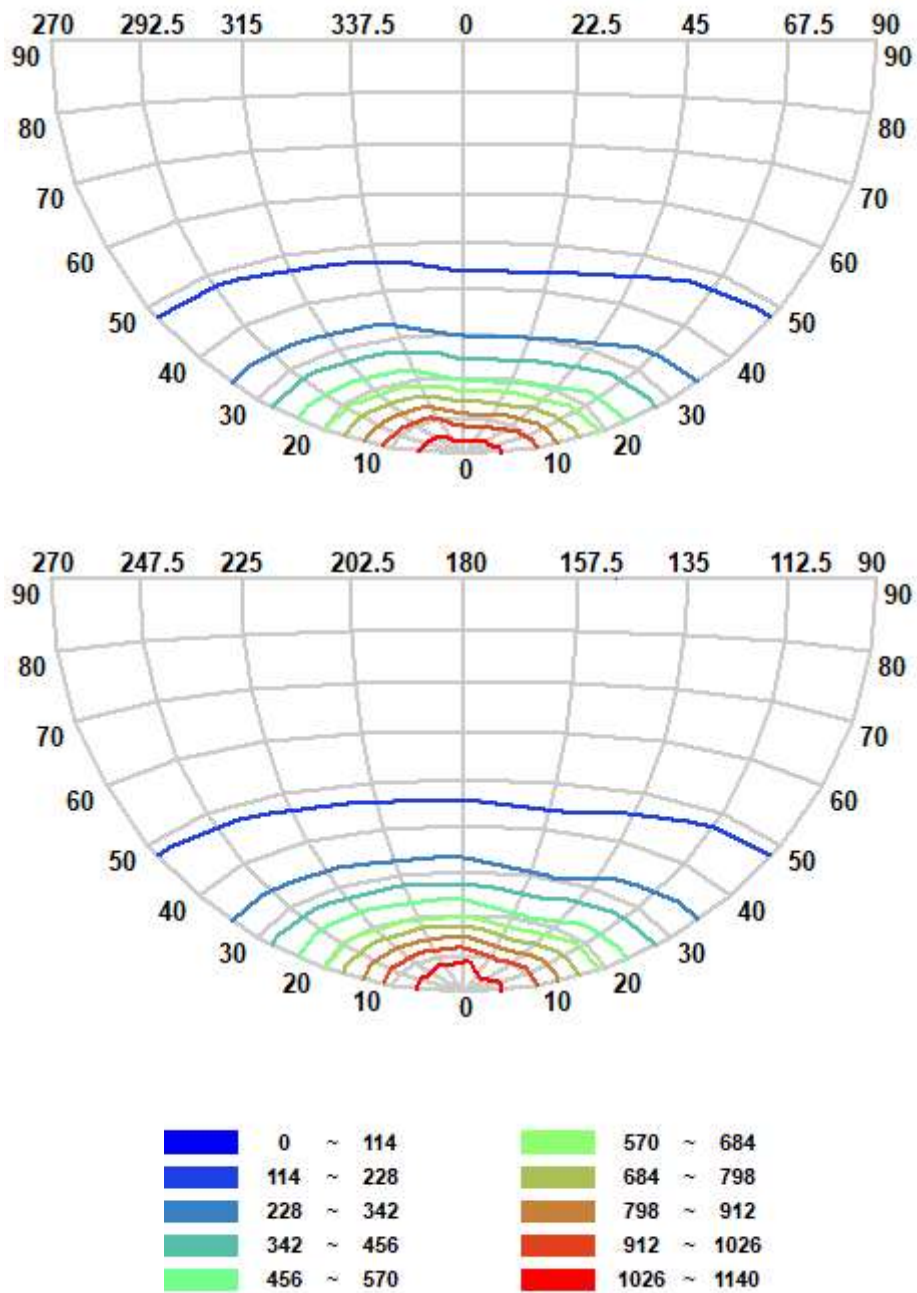
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Total flux (lm) Date39 Power Factor 1 2024-04-09 오후 3:25:55

IsoCandela (Type C)



Luminaire KH FEELUX

Lamp Report

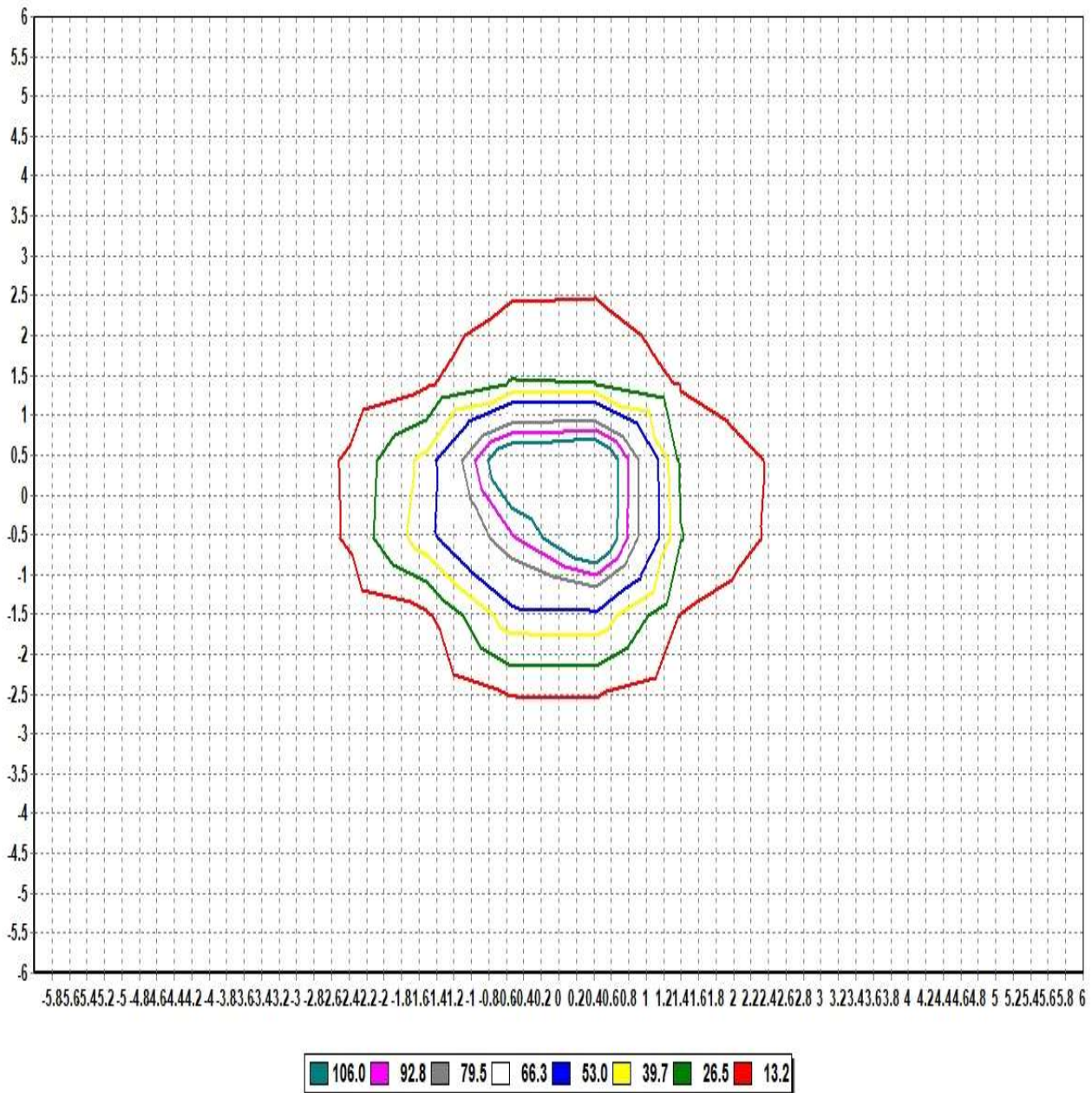
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Lamp flux (lm) Operator Current (A) 0.41461

Total flux (lm) Date39 Power Factor 1 2024-04-09 오후 3:25:55

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp Report

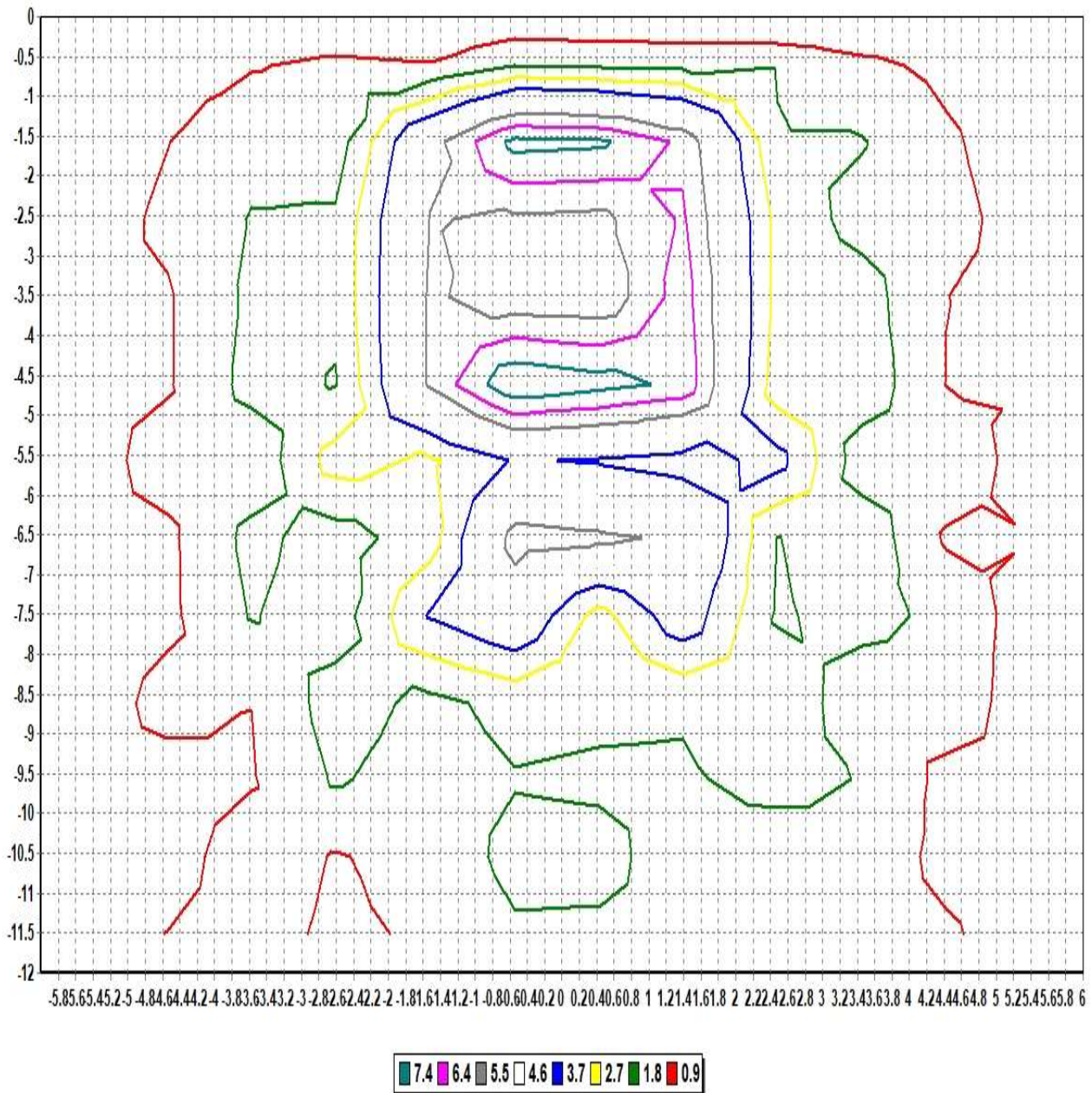
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No. of lamps Filename 240409 FNL3D SC(22K+40K)-24V-C90-35D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) Operator Current (A) 0.41461

Total flux (lm) Date339 Power Factor 1 2024-04-09 오후 3:25:55

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-C90-35D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) 839 Current (A) 0.41461 Operator

Total flux (lm) 839 Power Factor 1 Date 2024-04-09 오후 3:25:55

Illuminance Levels (Ground)

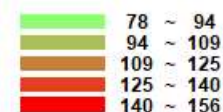
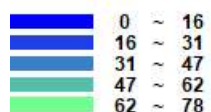
6.00	0.23	0.32	0.24	0.29	0.38	0.46	0.51	0.47	0.33	0.24	0.22	0.29	0.19
5.00	0.25	0.25	0.38	0.56	1.08	1.33	1.44	1.34	1.01	0.52	0.34	0.17	0.25
4.00	0.15	0.28	0.94	1.42	1.30	1.79	2.02	1.80	1.19	1.36	0.80	0.27	0.15
3.00	0.28	0.37	1.22	1.61	4.15	3.84	4.69	3.61	3.98	1.35	1.19	0.39	0.23
2.00	0.32	1.02	1.25	3.55	5.44	9.81	14.43	8.93	4.70	3.44	1.16	0.96	0.29
1.00	0.32	1.14	1.41	3.59	9.62	32.13	103.06	26.31	8.76	3.38	1.56	1.20	0.38
0.00	0.34	1.24	1.60	4.17	13.30	111.83	155.77	93.42	11.44	3.86	1.59	1.18	0.34
-1.00	0.31	1.13	1.41	3.60	9.56	32.37	107.86	32.48	9.86	3.86	1.54	1.16	0.35
-2.00	0.30	1.00	1.17	3.78	5.08	9.62	14.19	9.90	5.51	3.94	1.38	1.11	0.38
-3.00	0.24	0.38	1.26	1.36	3.98	3.72	4.68	3.96	4.11	1.68	1.36	0.49	0.31
-4.00	0.16	0.27	0.83	1.37	1.20	1.81	2.05	1.80	1.40	1.45	0.97	0.35	0.21
-5.00	0.24	0.18	0.36	0.53	1.04	1.34	1.45	1.33	1.14	0.60	0.42	0.28	0.30
-6.00	0.18	0.29	0.23	0.25	0.35	0.50	0.54	0.48	0.42	0.32	0.27	0.33	0.25
-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.) : 155.77

Illum. (Min.) : 0.1508

Illum. (Avg.) : 6.0332

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp Report

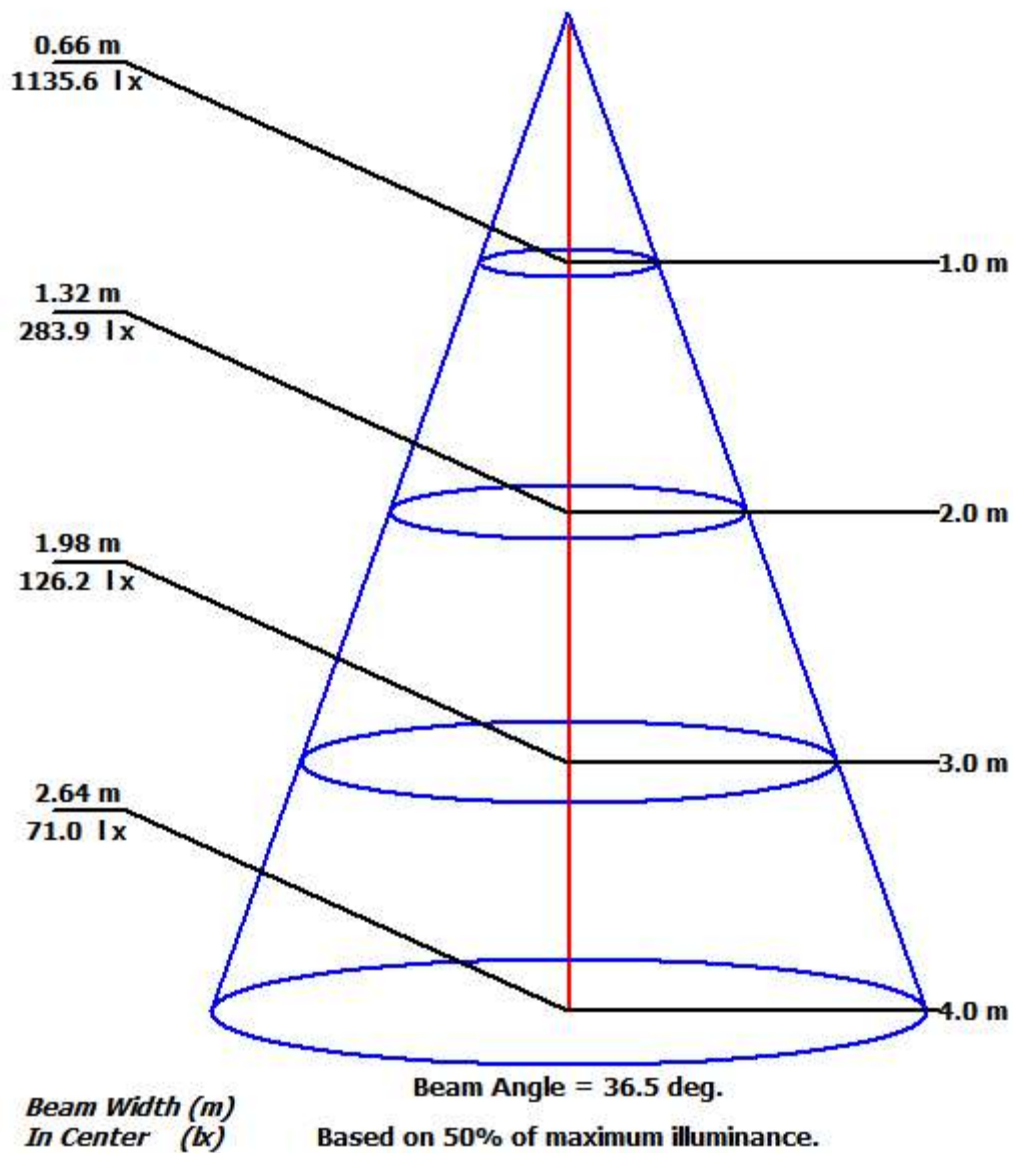
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Lamp flux (lm) Operator Current (A) 0.41461

Total flux (lm) Date39 Power Factor 1 2024-04-09 오후 3:25:55

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-C90-35D-1M_MASS PRODUCTION VER_40K ON.jdt
Lamp flux (lm)	839	Current (A)	0.41461	Operator	
Total flux (lm)	839	Power Factor	1	Date	2024-04-09 오후 3:25:55

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