

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 : 240509

2. Purpose of Report :**3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 240509 FNN1 27K-24V-C90-1M**5. Test Period :** 240509 ~ 240509**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		0.4635 , 0.4032	
Correlated Color Temperature	K	2587	
Ra		91.8	
Power Factor		1.000	
Input Voltage	V	23.962	
Input Current	A	0.287	
Input Watt	W	6.8824	
Lamp Flux	lm	372	
Efficient	lm/W	54.05	
luminous Intensity (Max , Center)	cd	126 , 126	
Illuminance	lx	126	1 m
		31	2 m
		14	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 1

Voltage (V) 23.962

Filename 240509 FNN1 27K-24V-C90-1M.jdt

Lamp flux (lm) 372

Current (A) 0.28722

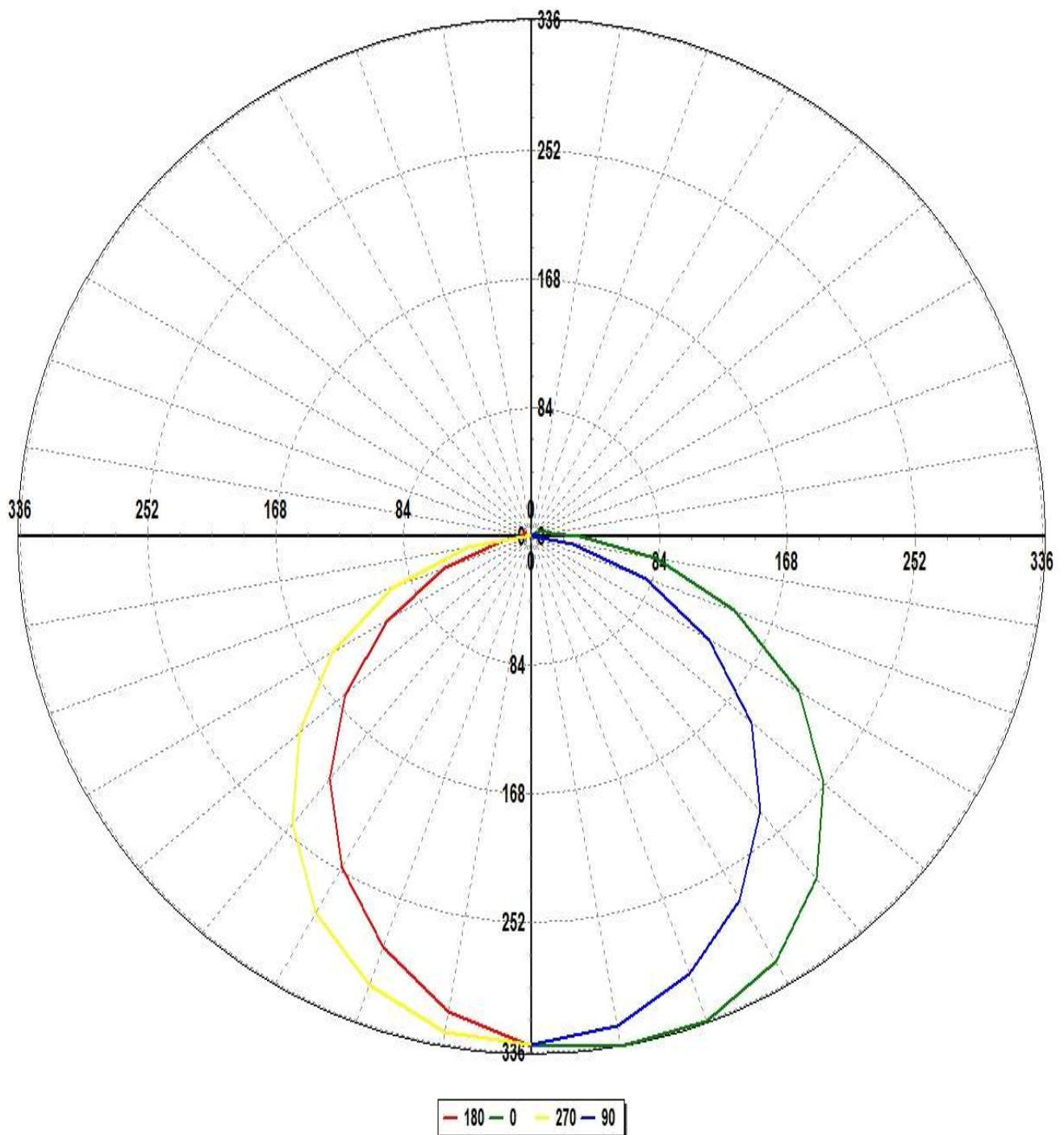
Operator

Total flux (lm) 372

Power Factor 1

Date 2024-05-09 오후 5:23:18

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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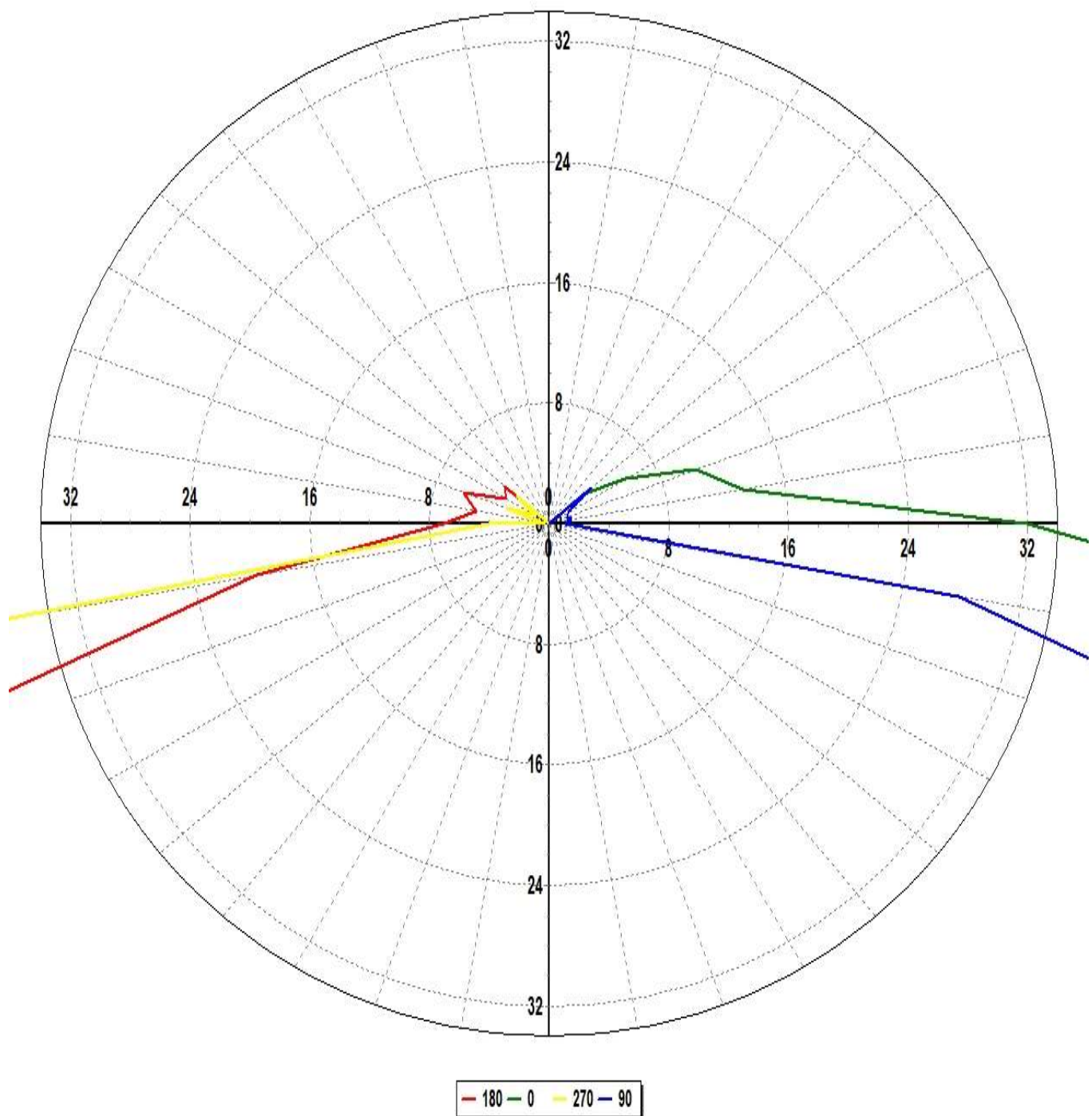
Operator

Total flux (lm) 372

Power Factor 1

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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.962	Filename	240509 FNN1 27K-24V-C90-1M.jdt
Lamp flux (lm)	372	Current (A)	0.28722	Operator	
Total flux (lm)	372	Power Factor	1	Date	2024-05-09 오후 5:23:18

Luminous Intensity Data

Maximum (cd) : 126

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	123.65	124.12	123.96	123.45	123.57	121.98	123.65	124.12	123.96	123.45	123.57
10	125.57	125.49	123.07	120.6	117.81	115.86	117.26	117.93	119.06	121.96	124.54
20	125.02	122.48	119.03	112.98	108.22	103.95	106.06	107.96	111.71	115.86	119.82
30	119.24	116.22	109.27	101.76	95.32	90.32	92.66	94.45	98.81	105.31	112.12
40	108.44	104.91	96.48	87.11	80.01	73.42	76.6	78.79	83.88	91.06	100.3
50	93.03	89.31	80.8	70.22	62.46	56.03	59.52	61.53	67.36	74.18	85.85
60	75.52	70.94	62.06	50.21	43.89	37.05	40.93	43.23	47.34	56.12	67.19
70	52.83	50.25	41.14	29.83	23.54	18.04	22.55	24.5	28.39	36.39	47.26
80	30.99	28.27	20.08	10.36	5.66	3.89	7.38	7.85	11.08	16.01	25.94
90	11.91	9.16	5.03	0.42	1.02	1.8	2.63	2.17	1.6	1.5	7.58
100	4.91	4.41	2.04	0.56	0.88	1.92	1.84	0.82	0.49	0.1	1.83
110	3.88	2.48	0.32	0.48	0.98	1.25	2.28	1.27	0.96	1.14	1.5
120	2.19	1.48	1.3	0.58	0.24	0.99	1.24	1.5	0.44	0.44	0.95
130	1.12	0.89	0.67	1.36	1.02	1.19	1.46	0.59	1.33	1.06	0.63

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Luminous Intensity Data (Continued)

Maximum (cd) : 126

Minimum (cd) : 0

G/C	330	360
0	121.98	123.65
10	125.26	125.57
20	123.7	125.02
30	119.01	119.24
40	109.38	108.44
50	95.29	93.03
60	77.9	75.52
70	56.91	52.83
80	35.71	30.99
90	14.67	11.91
100	4.2	4.91
110	3.79	3.88
120	1.7	2.19
130	0.92	1.12

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Luminous Flux Table

Total Lamp Lumens: 372.05

Luminaire Efficiency (lm/W): 54.06

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.95	2.95	0.79	0.79
10	23.05	26.00	6.99	6.99
20	42.98	68.98	18.54	18.54
30	57.25	126.23	33.93	33.93
40	63.97	190.20	51.13	51.12
50	62.62	252.81	67.96	67.95
60	53.14	305.96	82.25	82.24
70	37.02	342.98	92.20	92.19
80	18.27	361.24	97.11	97.10
90	5.43	366.67	98.57	98.56
100	2.16	368.83	99.15	99.13
110	1.74	370.57	99.62	99.60
120	1.03	371.60	99.89	99.88
130	0.44	372.05	100.01	100.00

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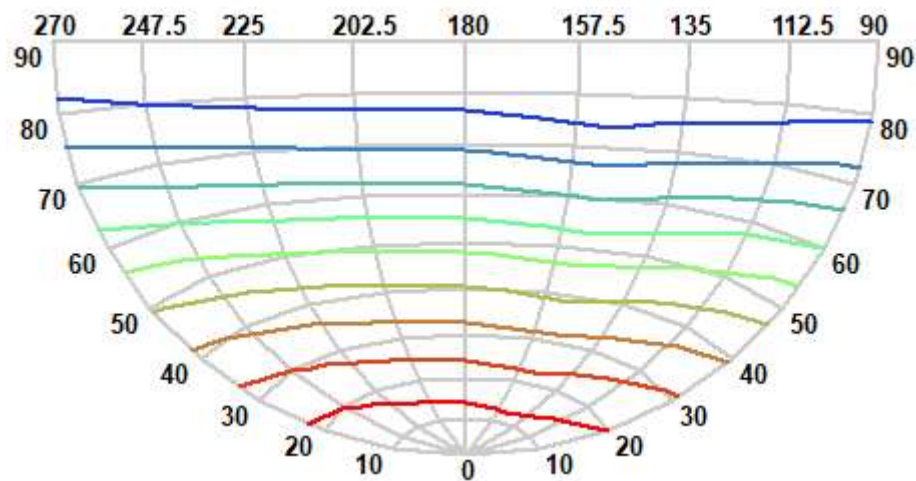
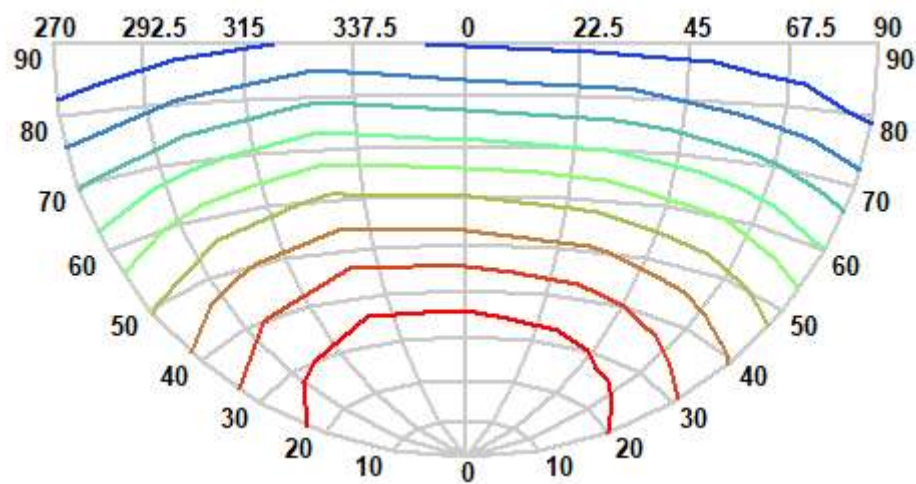
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IsoCandela (Type C)



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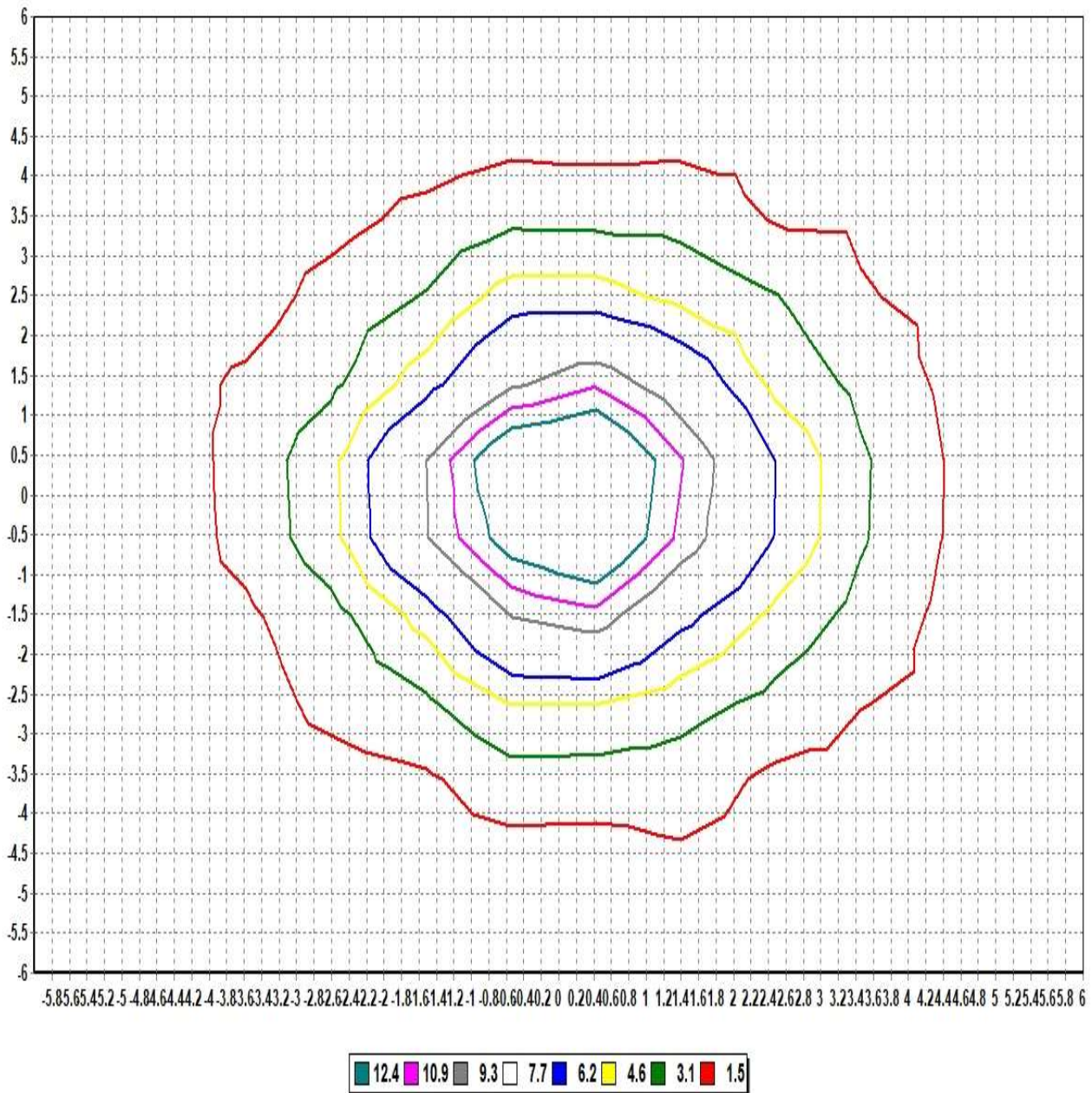
Operator

Total flux (lm) 372

Power Factor 1

Date 2024-05-09 오후 5:23:18

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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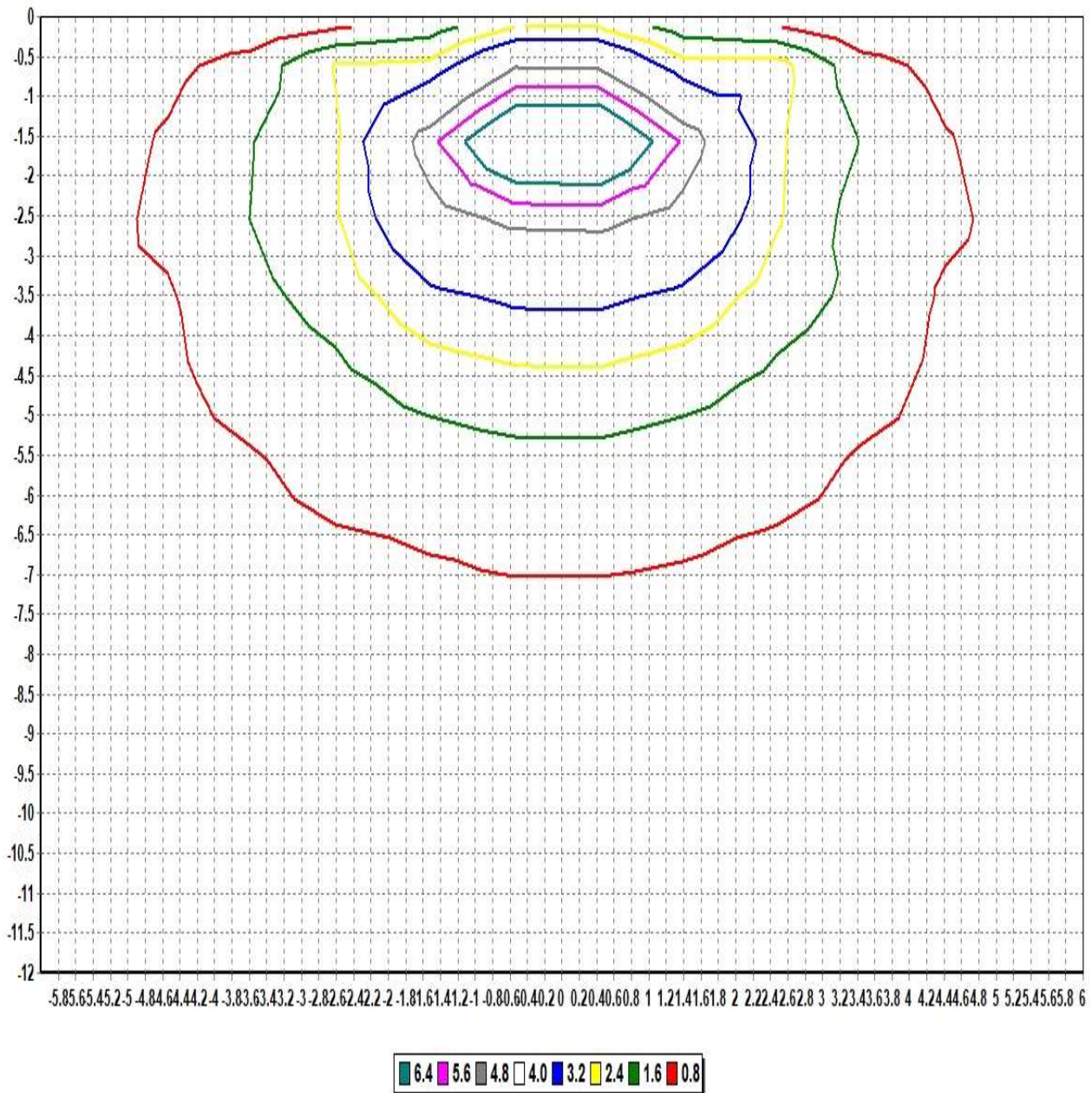
Operator

Total flux (lm) 372

Power Factor 1

Date 2024-05-09 오후 5:23:18

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

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Lamp flux (lm)	372	Current (A)	0.28722
Total flux (lm)	372	Power Factor	1

Report

KH FEELUX

Filename 240509 FNN1 27K-24V-C90-1M.jdt

Operator

Date

2024-05-09 오후 5:23:18

Illuminance Levels (Ground)

6.00	0.16	0.22	0.18	0.20	0.27	0.42	0.36	0.38	0.44	0.38	0.26	0.30	0.26
5.00	0.18	0.18	0.27	0.40	0.72	1.02	0.99	0.99	1.00	0.52	0.40	0.33	0.34
4.00	0.12	0.20	0.63	0.96	0.88	1.41	1.40	1.40	1.36	1.17	0.91	0.47	0.32
3.00	0.19	0.28	0.80	1.10	2.39	2.49	3.02	3.26	2.73	1.65	1.31	0.65	0.39
2.00	0.23	0.67	0.86	2.03	3.28	5.10	6.56	6.54	4.37	3.05	1.39	1.04	0.48
1.00	0.26	0.76	1.02	2.28	5.00	9.67	13.61	11.36	6.63	3.44	1.86	1.28	0.59
0.00	0.29	0.83	1.16	2.58	5.85	13.22	16.96	14.20	7.99	3.95	1.98	1.33	0.59
-1.00	0.25	0.75	1.01	2.31	4.96	9.22	13.77	10.57	6.38	3.39	1.86	1.27	0.58
-2.00	0.25	0.68	0.85	2.11	3.02	5.01	6.83	6.25	3.87	3.07	1.33	1.02	0.48
-3.00	0.20	0.32	0.84	0.99	2.30	2.43	3.18	3.08	2.57	1.41	1.33	0.68	0.37
-4.00	0.14	0.23	0.57	0.92	0.87	1.31	1.52	1.30	1.29	1.09	0.79	0.48	0.34
-5.00	0.19	0.16	0.26	0.38	0.70	0.95	1.05	0.93	0.94	0.47	0.36	0.27	0.35
-6.00	0.14	0.21	0.17	0.20	0.26	0.38	0.42	0.35	0.41	0.36	0.23	0.28	0.22
-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.) : 16.962

Illum. (Min.) : 0.1166

Illum. (Avg.) : 2.0074

All illuminance level values are in lux.



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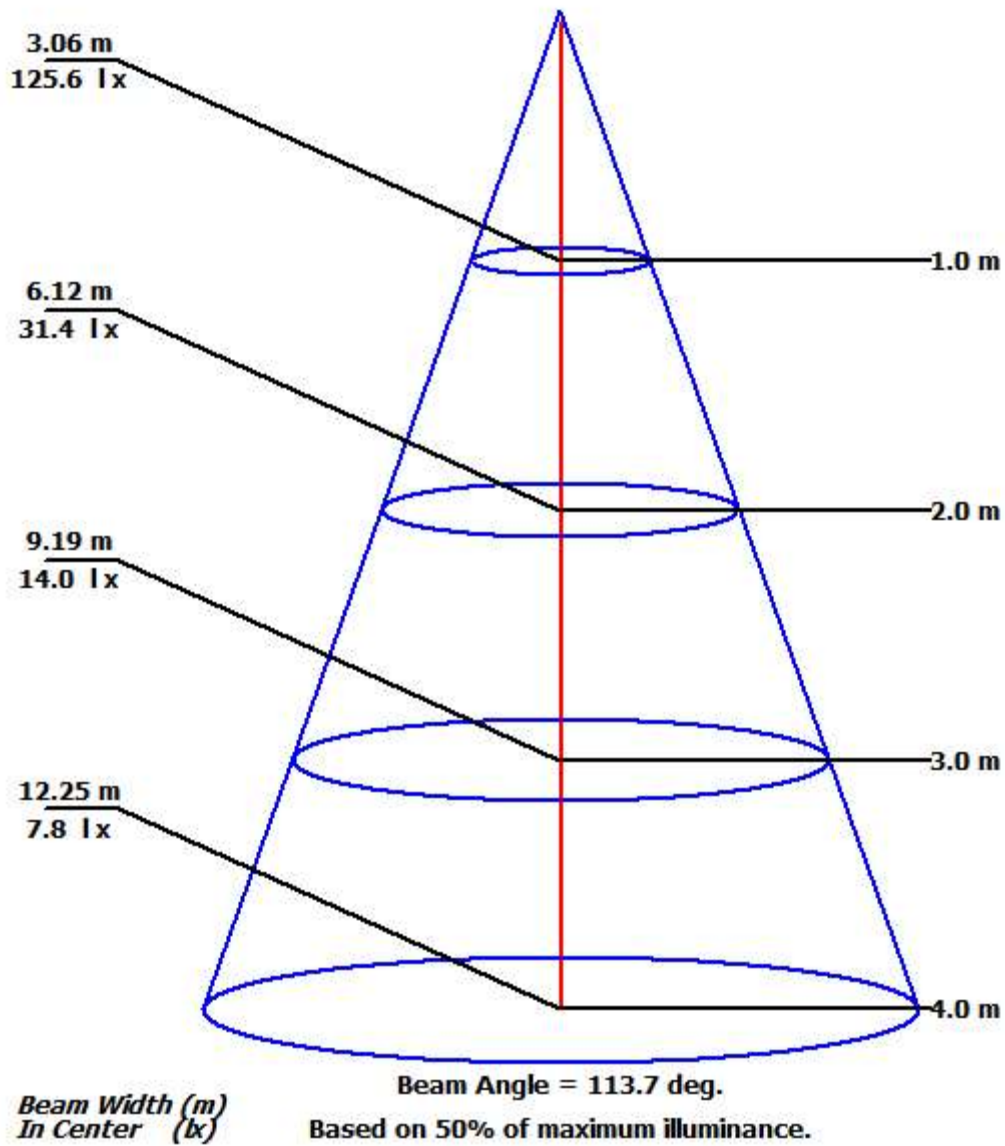
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Illuminance Cone Diagram



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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