

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 22K-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		0.5060 , 0.4119	
Correlated Color Temperature	K	2168	
Ra		91.3	
Power Factor		1.000	
Input Voltage	V	23.961	
Input Current	A	0.290	
Input Watt	W	6.9455	
Lamp Flux	lm	329.6	
Efficient	lm/W	47.45	
luminous Intensity (Max , Center)	cd	112 , 111	
Illuminance	lx	111	1 m
		28	2 m
		12	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) 23.961

Filename 240509 FNN1 22K-24V-C90-1M.jdt

Lamp flux (lm) 330

Current (A) 0.28987

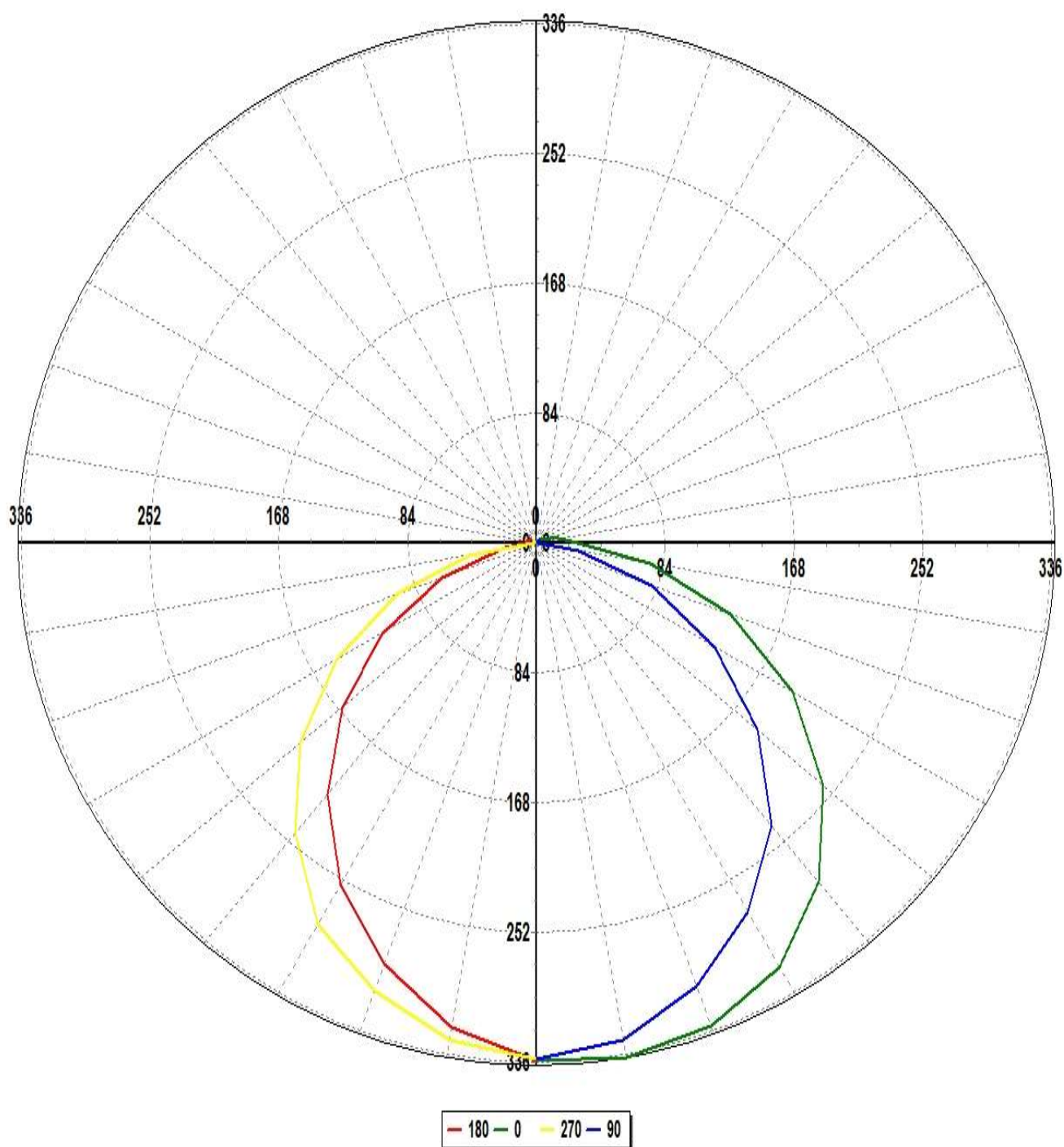
Operator

Total flux (lm) 330

Power Factor 1

Date 2024-05-09 오후 4:50:53

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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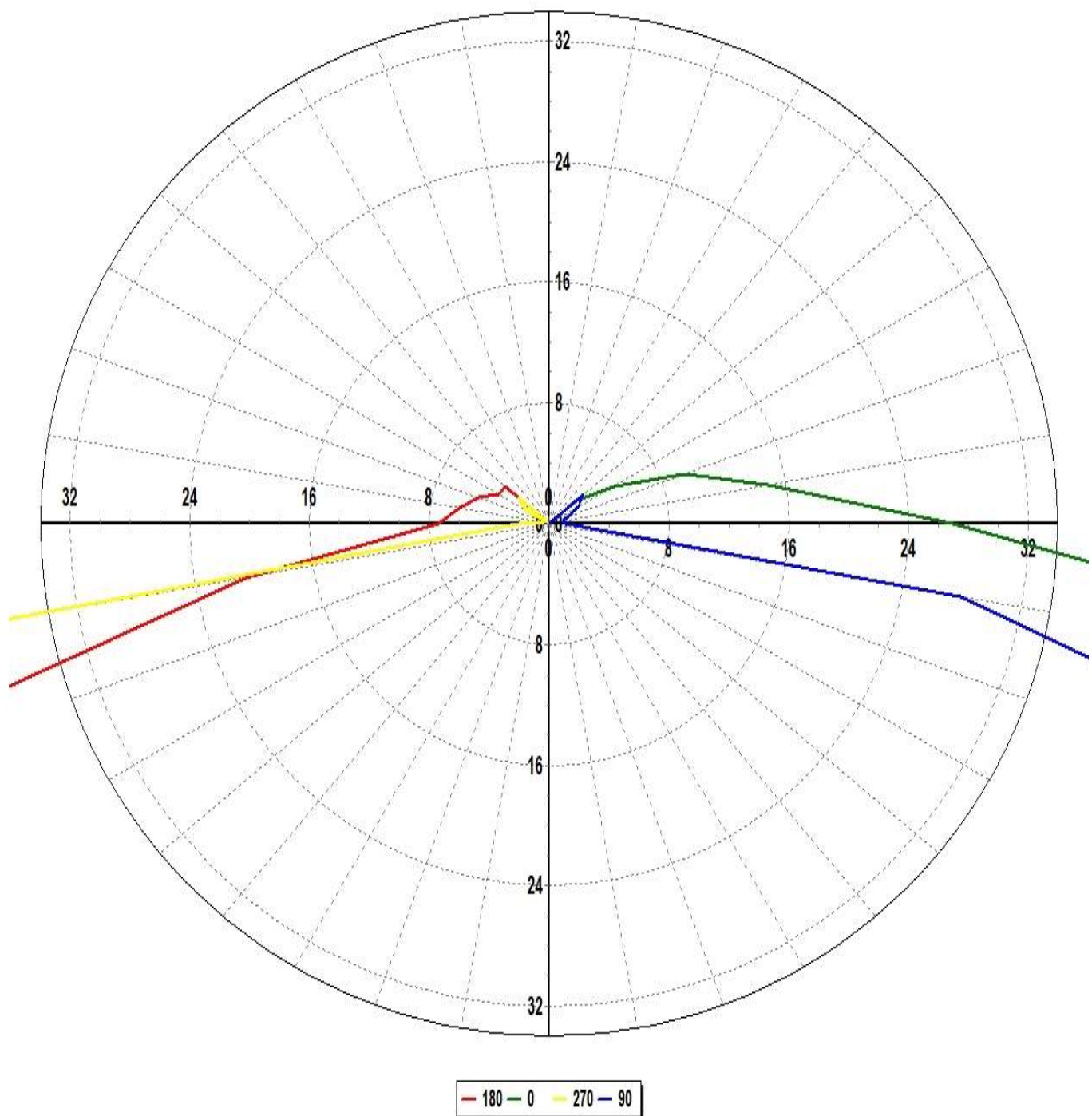
Operator

Total flux (lm) 330

Power Factor 1

Date 2024-05-09 오후 4:50:53

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.961	Filename	240509 FNN1 22K-24V-C90-1M.jdt
Lamp flux (lm)	330	Current (A)	0.28987	Operator	
Total flux (lm)	330	Power Factor	1	Date	2024-05-09 오후 4:50:53

Luminous Intensity Data

Maximum (cd) : 112

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	110.32	109.47	110.39	110.1	109.45	109.49	110.32	109.47	110.39	110.1	109.45
10	111.41	110.67	109.16	107.54	105.54	103.23	104.79	104.98	106.16	107.62	110.66
20	109.73	108.21	104.53	100.43	97.63	93.81	95.66	96.26	98.87	101.54	106.84
30	104.63	102.99	97.36	90.78	86.03	81.02	84.03	85.26	88.07	93.78	99.51
40	94.51	91.23	84.93	78.6	71.23	67.35	69.93	72.16	75.02	80.73	88.6
50	80.51	78.01	70.49	62.14	56.63	51.32	54.55	56.96	60.76	66.1	75.43
60	63.5	61.21	54.83	44.26	39.12	34.98	38.19	39.7	43.8	49.39	59.18
70	44.44	42.34	35.9	26.31	20.7	18.17	21.65	23.43	26.43	31.89	41.81
80	24.72	22.57	16.3	9.2	5.87	4.04	6.78	7.93	10.03	14.77	22.41
90	8.88	6.9	3.01	0.36	0.22	1.99	2.43	1.07	1.6	0.66	6.12
100	4.88	3.58	2.18	0.3	1.24	1.25	2.01	1.43	0.75	0.13	1.98
110	3.16	2.48	1.17	0.47	1.16	1.32	1.64	1.64	0.44	0.06	1.34
120	1.65	1.26	0.69	0.73	0.54	1.29	1.28	1.24	0.59	0.62	0.04
130	0.79	0.91	0.9	0.98	0.92	1.05	1.26	0.8	0.61	0.88	0.3

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Power Factor 1

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Luminous Intensity Data (Continued)

Maximum (cd) : 112

Minimum (cd) : 0

G/C	330	360
0	109.49	110.32
10	111.52	111.41
20	110.71	109.73
30	105.44	104.63
40	96.67	94.51
50	84.47	80.51
60	68.25	63.5
70	48.73	44.44
80	29.09	24.72
90	11.31	8.88
100	4.56	4.88
110	2.38	3.16
120	1.25	1.65
130	0.54	0.79

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Luminous Flux Table

Total Lamp Lumens: 329.58

Luminaire Efficiency (lm/W): 47.45

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.63	2.63	0.80	0.80
10	20.50	23.12	7.02	7.02
20	38.22	61.34	18.61	18.61
30	51.06	112.40	34.10	34.10
40	56.96	169.36	51.38	51.39
50	55.75	225.11	68.30	68.30
60	47.14	272.25	82.60	82.61
70	32.75	305.00	92.54	92.54
80	15.61	320.61	97.27	97.28
90	4.07	324.68	98.51	98.51
100	2.18	326.86	99.17	99.17
110	1.48	328.34	99.62	99.62
120	0.88	329.22	99.89	99.89
130	0.36	329.58	99.99	100.00

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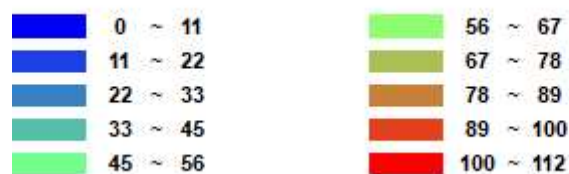
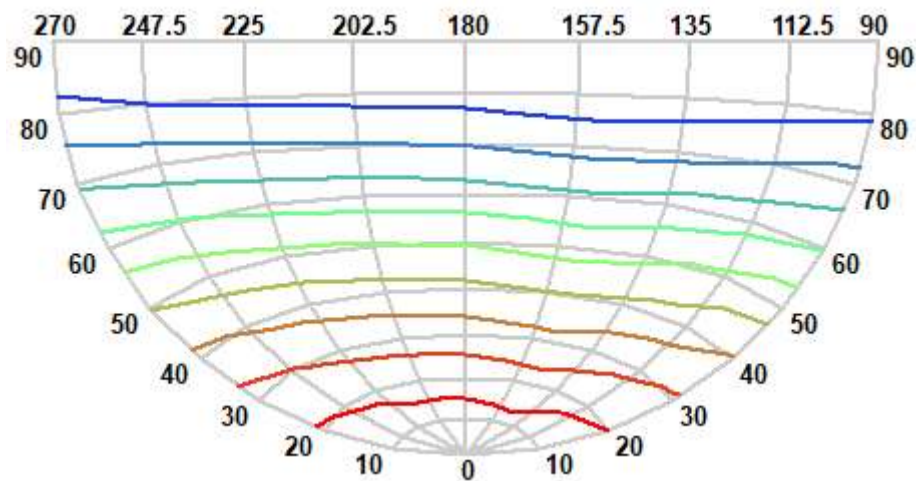
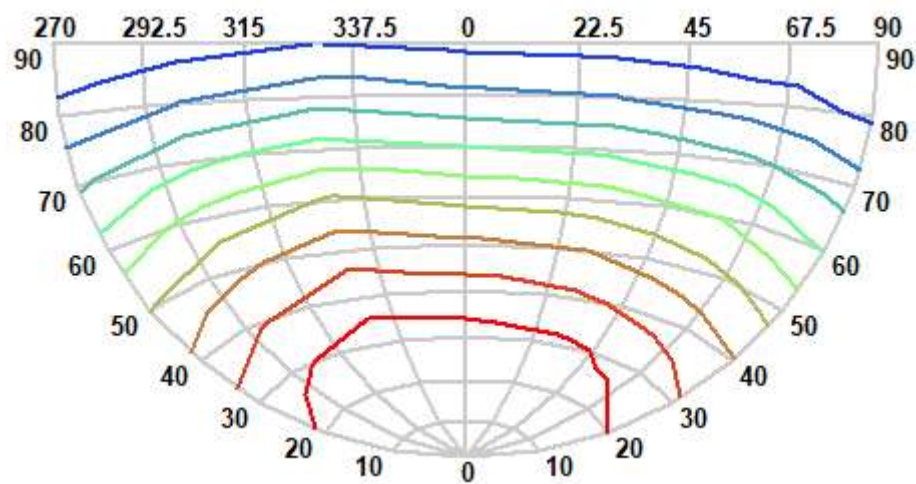
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Total flux (lm) 330

Power Factor 1

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IsoCandela (Type C)



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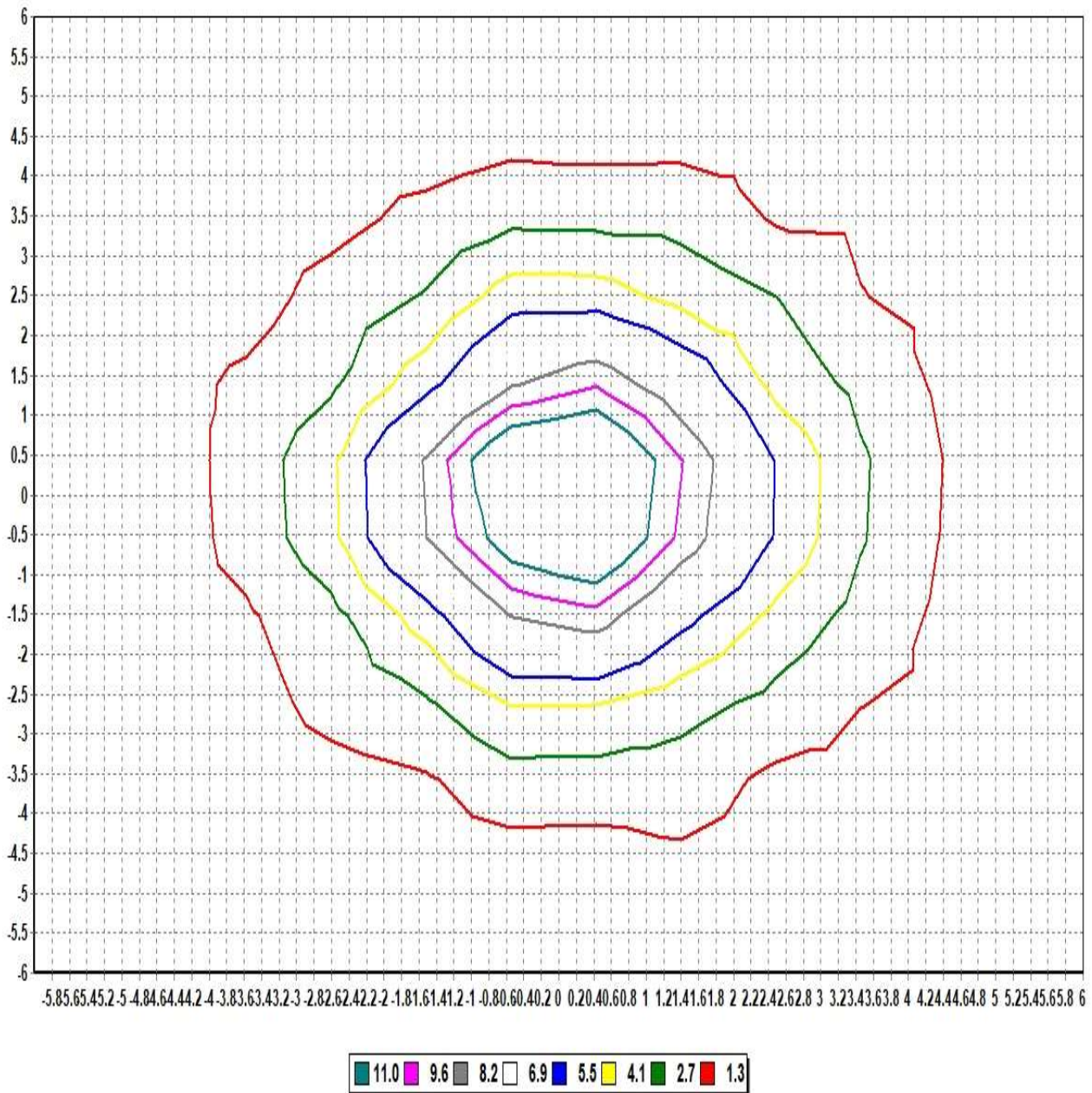
Operator

Total flux (lm) 330

Power Factor 1

Date 2024-05-09 오후 4:50:53

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

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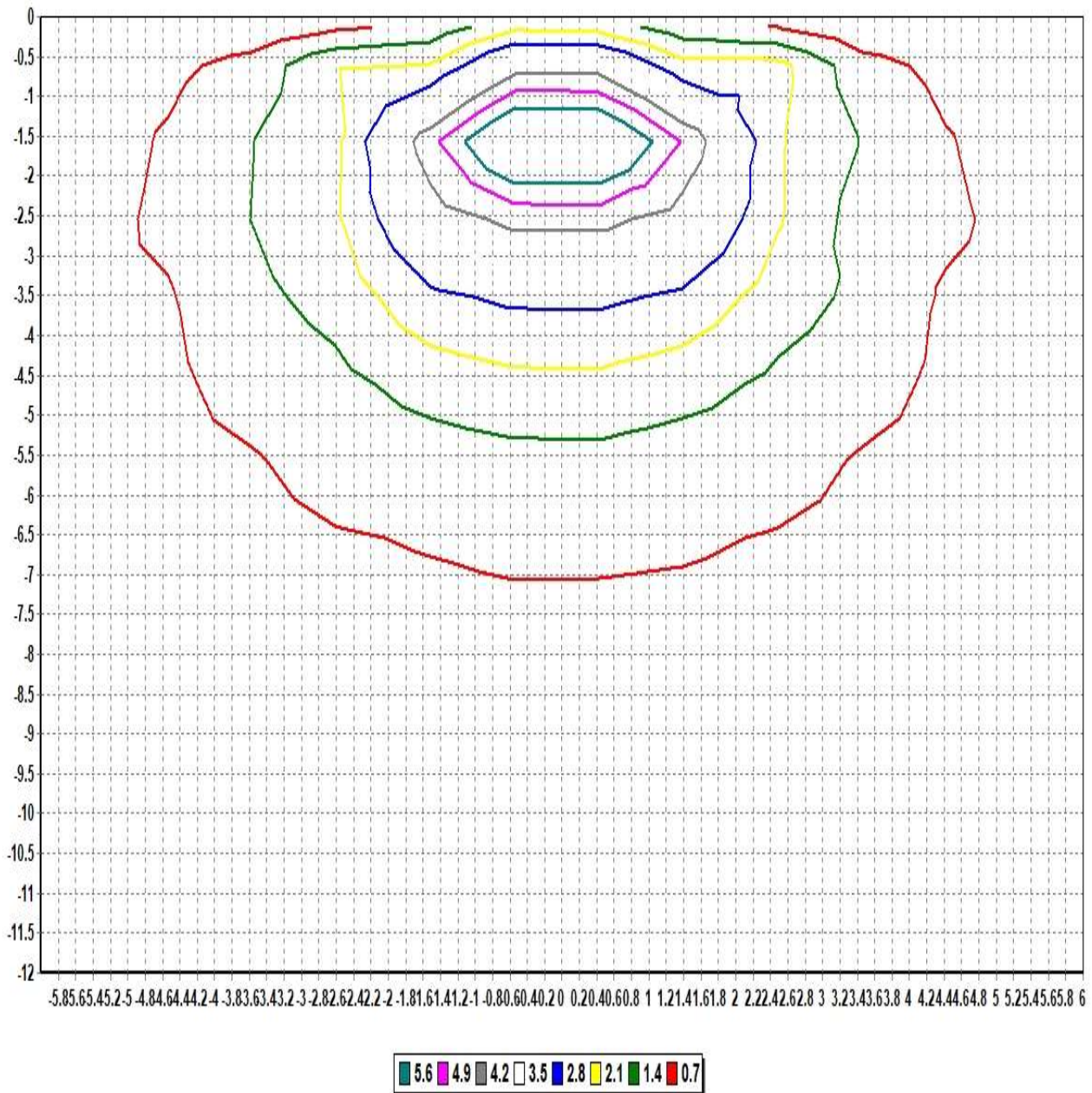
Operator

Total flux (lm) 330

Power Factor 1

Date 2024-05-09 오후 4:50:53

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)	330	Current (A)	0.28987
Total flux (lm)	330	Power Factor	1

Report

KH FEELUX

Filename 240509 FNN1 22K-24V-C90-1M.jdt

Operator

Date

2024-05-09 오후 4:50:53

Illuminance Levels (Ground)

6.00	0.14	0.20	0.16	0.18	0.24	0.37	0.32	0.33	0.38	0.32	0.22	0.26	0.22
5.00	0.17	0.16	0.24	0.35	0.64	0.90	0.87	0.87	0.87	0.46	0.35	0.28	0.29
4.00	0.11	0.19	0.56	0.85	0.79	1.25	1.24	1.23	1.18	1.02	0.79	0.40	0.27
3.00	0.17	0.27	0.73	0.98	2.14	2.23	2.69	2.85	2.40	1.41	1.14	0.55	0.33
2.00	0.21	0.61	0.77	1.86	2.94	4.55	5.90	5.70	3.80	2.65	1.20	0.90	0.41
1.00	0.25	0.70	0.95	2.08	4.47	8.67	12.14	10.01	5.77	2.99	1.61	1.12	0.50
0.00	0.27	0.76	1.08	2.37	5.33	11.82	15.13	12.60	6.98	3.42	1.69	1.14	0.50
-1.00	0.24	0.69	0.94	2.13	4.54	8.33	12.15	9.38	5.63	2.99	1.60	1.10	0.49
-2.00	0.23	0.62	0.79	1.93	2.77	4.57	6.07	5.52	3.43	2.71	1.17	0.89	0.42
-3.00	0.19	0.30	0.77	0.92	2.07	2.22	2.83	2.72	2.28	1.24	1.17	0.59	0.33
-4.00	0.13	0.22	0.53	0.84	0.80	1.18	1.35	1.17	1.13	0.96	0.69	0.42	0.29
-5.00	0.18	0.15	0.24	0.35	0.64	0.85	0.93	0.83	0.83	0.41	0.32	0.24	0.30
-6.00	0.13	0.20	0.16	0.19	0.25	0.34	0.37	0.32	0.36	0.31	0.20	0.24	0.19
-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.) : 15.132

Illum. (Min.) : 0.1146

Illum. (Avg.) : 1.7849

All illuminance level values are in lux.



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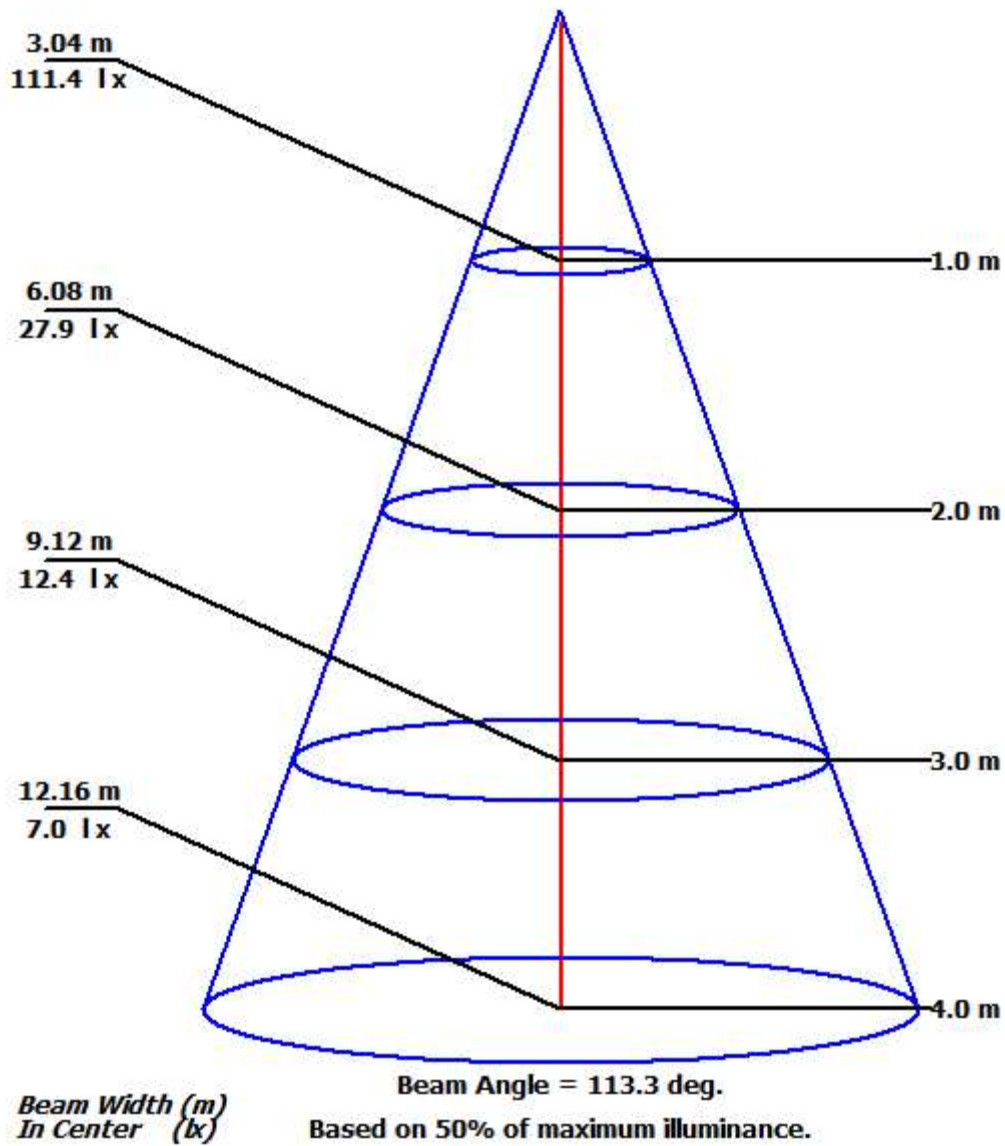
Operator

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Power Factor 1

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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