

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 : 240510

2. Purpose of Report :**3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 240510 FNN1 40K-24V-C90-1M**5. Test Period :** 240510 ~ 240510**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		0.3879 , 0.3744	
Correlated Color Temperature	K	3787	
Ra		95.9	
Power Factor		1.000	
Input Voltage	V	23.962	
Input Current	A	0.296	
Input Watt	W	7.104	
Lamp Flux	lm	375.9	
Efficient	lm/W	52.91	
luminous Intensity (Max , Center)	cd	129 , 129	
Illuminance	lx	129	1 m
		32	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 240510 FNN1 40K-24V-C90-1M.jdt

Lamp flux (lm) 376

Current (A) 0.29647

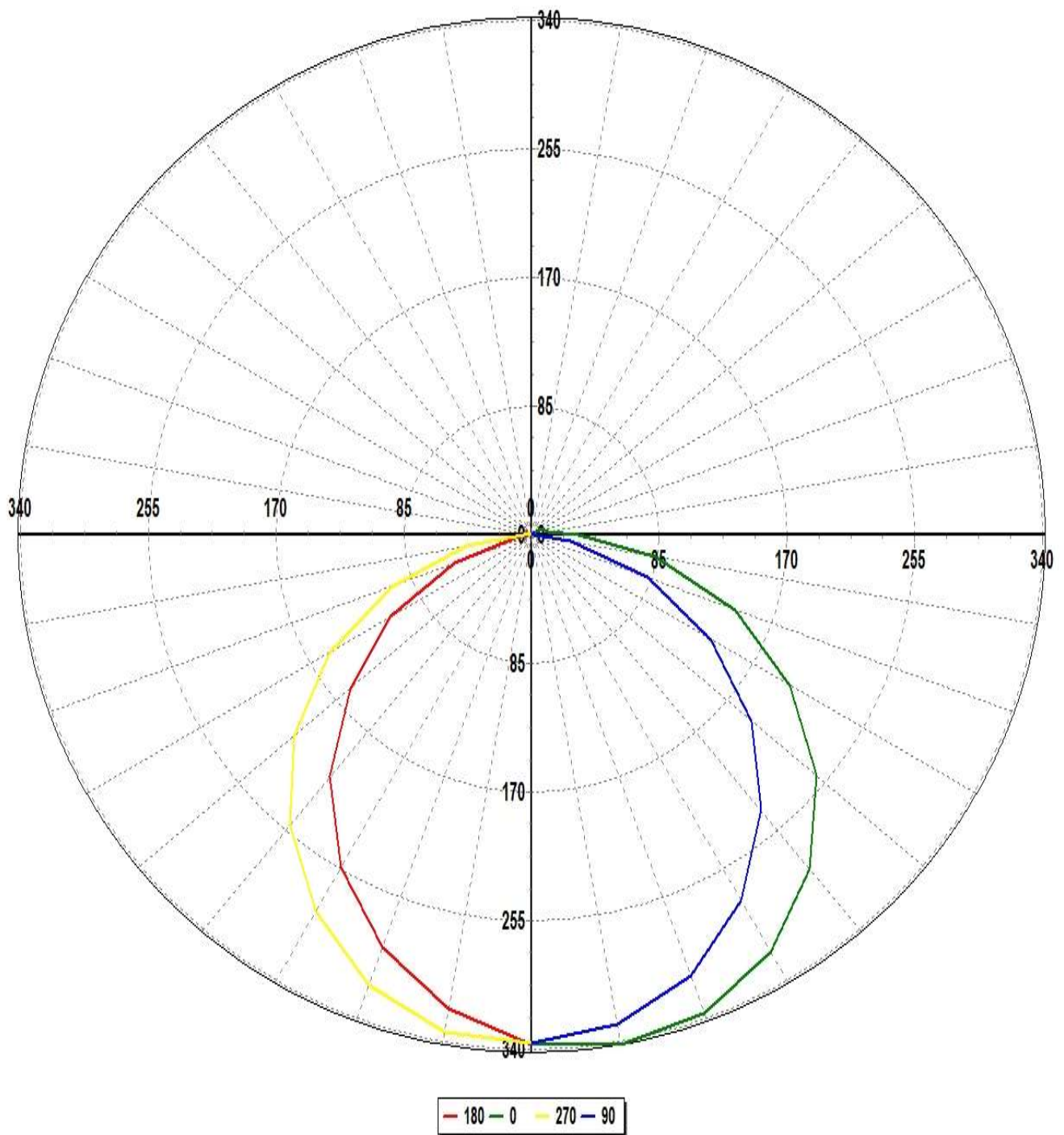
Operator

Total flux (lm) 376

Power Factor 1

Date 2024-05-10 오전 9:18:55

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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KH FEELUX

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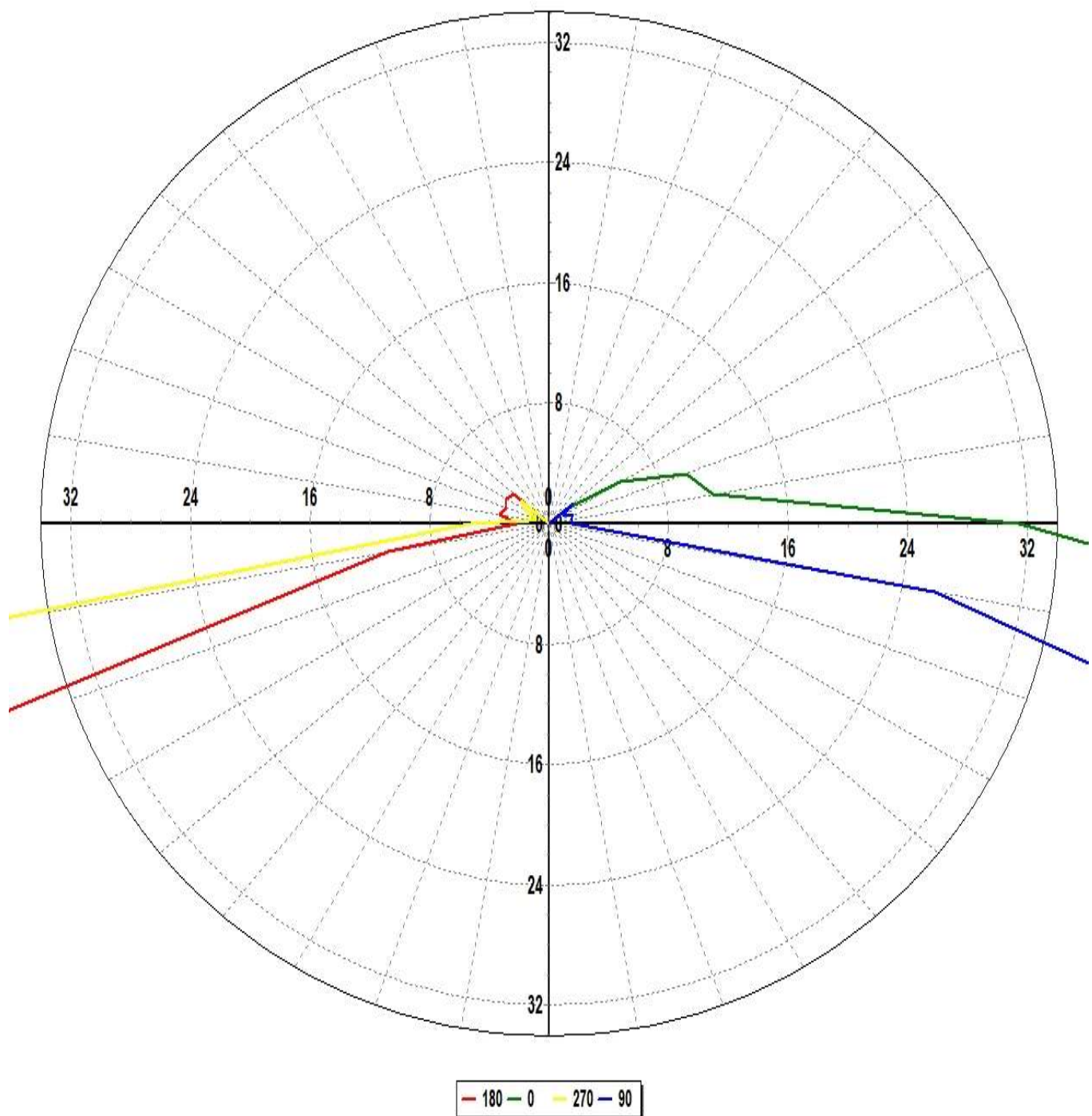
Operator

Total flux (lm) 376

Power Factor 1

Date 2024-05-10 오전 9:18:55

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.962	Filename	240510 FNN1 40K-24V-C90-1M.jdt
Lamp flux (lm)	376	Current (A)	0.29647	Operator	
Total flux (lm)	376	Power Factor	1	Date	2024-05-10 오전 9:18:55

Luminous Intensity Data

Maximum (cd) : 129

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	126.62	126.32	126.96	126.37	126.44	126.58	126.62	126.32	126.96	126.37	126.44
10	128.57	128.06	125.89	123.6	121.91	119	119.62	120.04	123.38	125.31	127.77
20	126.38	125.63	121.61	116.59	111.72	107.72	108.96	111.35	114.5	119.11	122.59
30	119.75	116.97	112.04	105.02	98.71	92.94	95.4	97.85	101.56	108.15	114.92
40	108.43	105.8	98.34	89.22	82.71	76.12	78.47	80.33	86.35	94.06	102.5
50	93.01	90.34	81.69	71.87	63.26	57.07	59.27	63.61	68.96	77.45	87.78
60	74.71	71	63.35	51.83	43.38	37.01	40.79	42.88	49.47	58.21	69.3
70	54.13	49.24	41.85	30.89	22.09	15.66	20.5	22.64	27.96	37.16	49.14
80	31.4	27.65	19.35	9.85	4.4	2.05	4.12	5.22	9.15	16.46	27.67
90	11.81	8.62	3.66	0.59	0.71	0.85	0.81	0.6	0.34	1.96	7.46
100	4.18	3.76	1.86	0.57	0.66	0.97	1.27	1	0.34	0.52	1.84
110	3.66	3.67	0.8	0.64	0.56	0.94	1.16	1.39	0.55	0.34	0.77
120	2.06	1.05	1.31	0.41	1.13	1.48	1.25	0.88	0.68	0.75	0.22
130	0.63	0.68	-0.1	0.8	1.42	0.9	1.15	0.44	1.04	0.93	0.57

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Date 2024-05-10 오전 9:18:55

Luminous Intensity Data (Continued)

Maximum (cd) : 129

Minimum (cd) : 0

G/C	330	360
0	126.58	126.62
10	128.76	128.57
20	127.36	126.38
30	121.26	119.75
40	110.85	108.43
50	96.39	93.01
60	79.09	74.71
70	58.52	54.13
80	36.04	31.4
90	14.93	11.81
100	3.81	4.18
110	2.5	3.66
120	1.76	2.06
130	0.91	0.63

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Luminous Flux Table

Total Lamp Lumens: 375.93

Luminaire Efficiency (lm/W): 52.92

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	3.03	3.03	0.80	0.80
10	23.64	26.67	7.10	7.09
20	44.12	70.80	18.83	18.83
30	58.62	129.42	34.43	34.43
40	65.31	194.72	51.80	51.80
50	63.67	258.40	68.74	68.74
60	53.83	312.23	83.06	83.05
70	36.86	349.09	92.87	92.86
80	17.38	366.47	97.49	97.48
90	4.78	371.24	98.76	98.75
100	1.87	373.11	99.26	99.25
110	1.46	374.57	99.65	99.64
120	1.03	375.59	99.92	99.91
130	0.34	375.93	100.01	100.00

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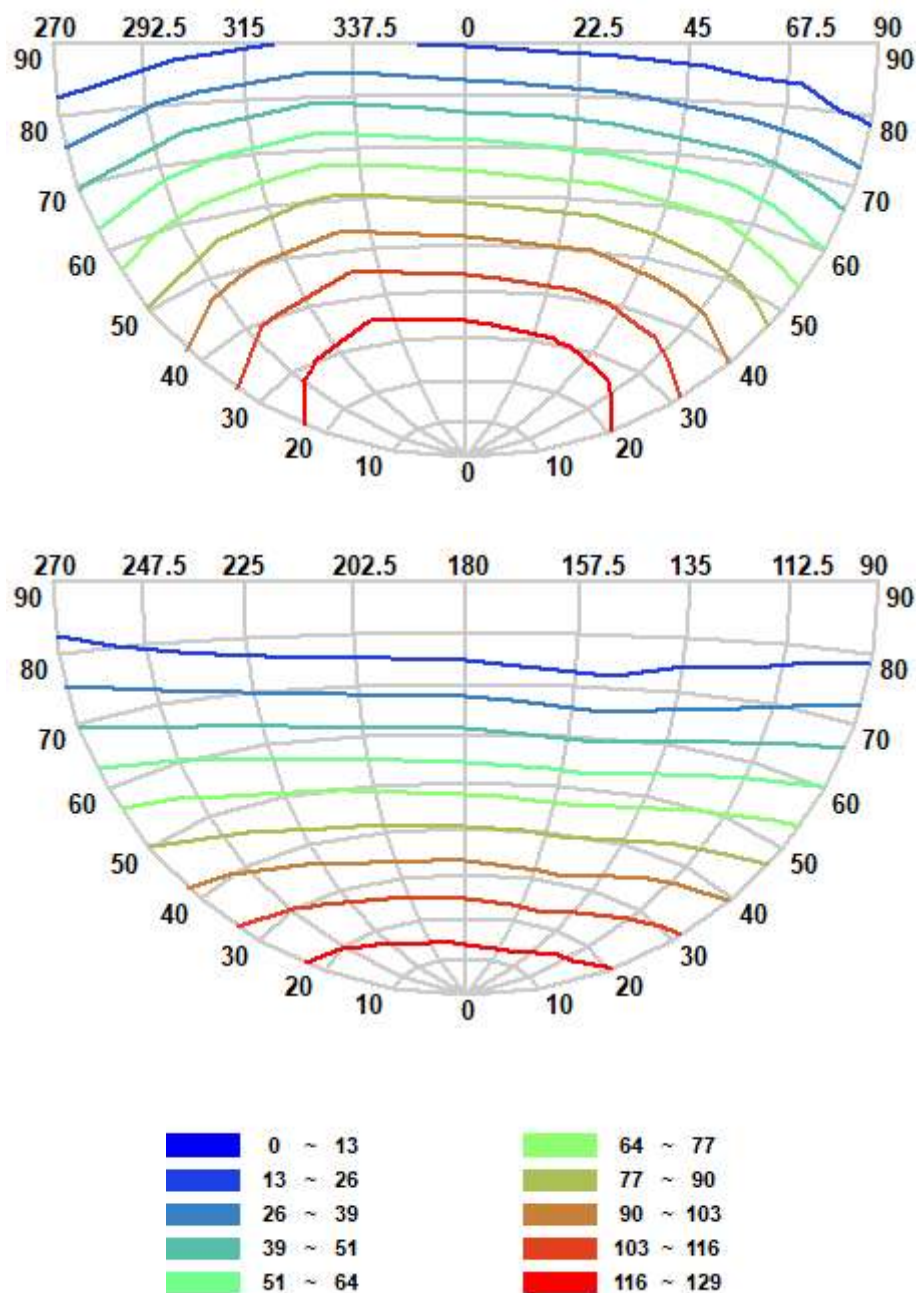
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IsoCandela (Type C)



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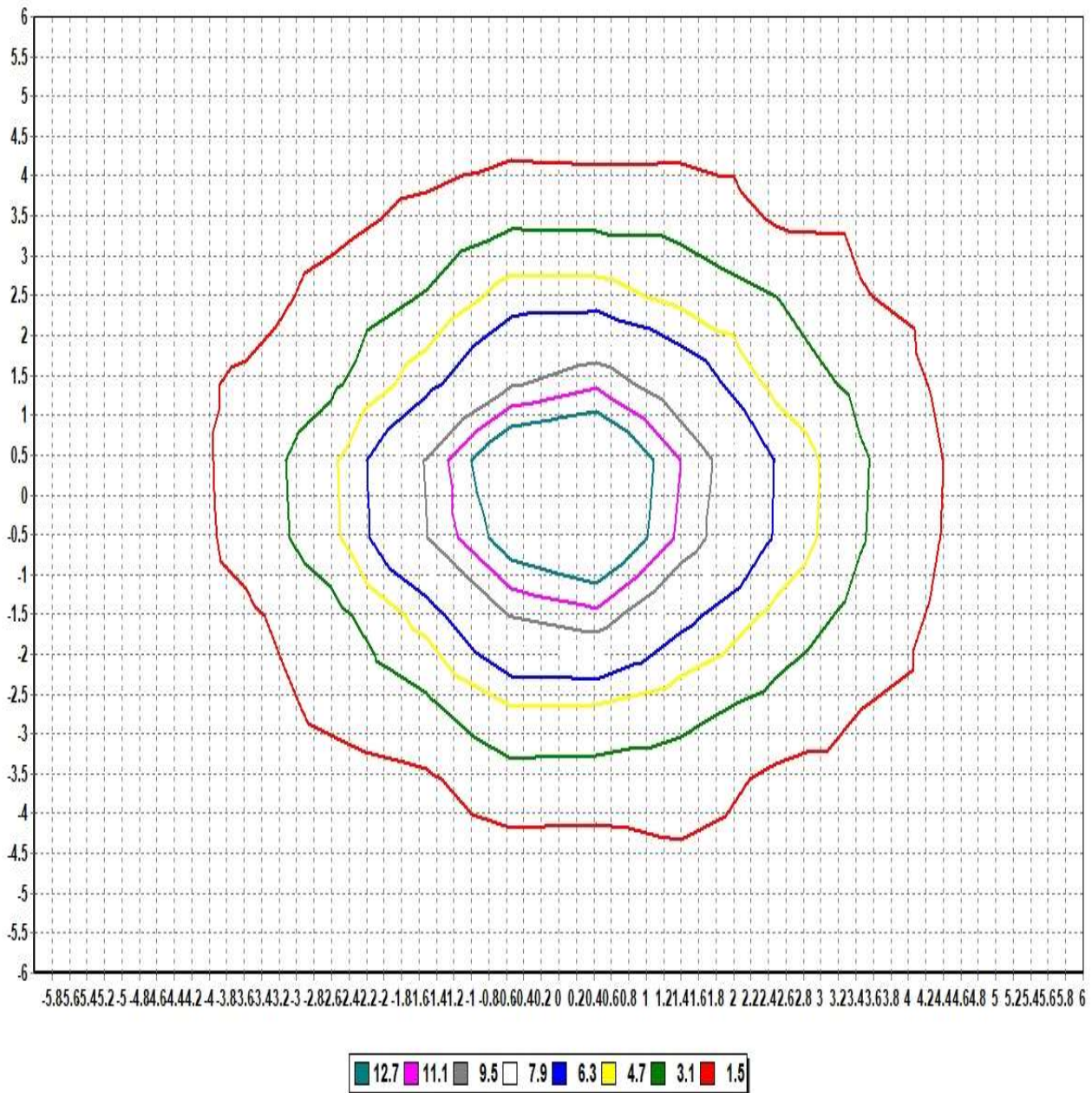
Operator

Total flux (lm) 376

Power Factor 1

Date 2024-05-10 오전 9:18:55

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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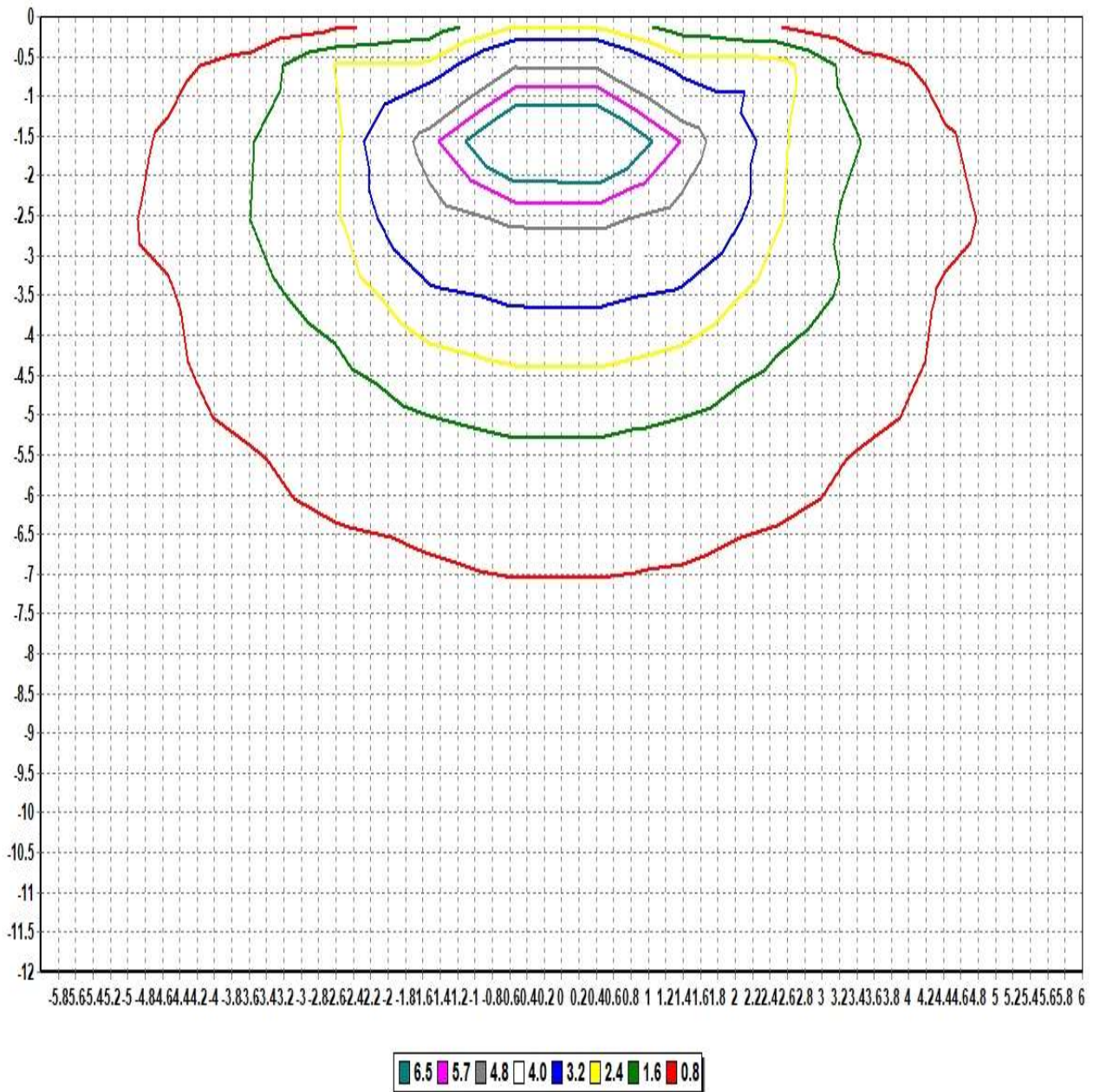
Operator

Total flux (lm) 376

Power Factor 1

Date 2024-05-10 오전 9:18:55

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

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Total flux (lm)	376	Power Factor	1

Report

KH FEELUX

Filename 240510 FNN1 40K-24V-C90-1M.jdt

Operator

Date

2024-05-10 오전 9:18:55

Illuminance Levels (Ground)

6.00	0.16	0.23	0.18	0.19	0.27	0.43	0.38	0.39	0.44	0.38	0.26	0.31	0.26
5.00	0.18	0.18	0.28	0.41	0.73	1.04	1.01	1.01	1.01	0.53	0.40	0.33	0.34
4.00	0.10	0.19	0.64	0.98	0.88	1.45	1.44	1.43	1.37	1.19	0.91	0.47	0.32
3.00	0.18	0.27	0.81	1.12	2.45	2.53	3.09	3.30	2.78	1.65	1.32	0.65	0.39
2.00	0.22	0.68	0.85	2.09	3.36	5.27	6.74	6.60	4.40	3.05	1.39	1.05	0.48
1.00	0.25	0.77	1.02	2.32	5.17	9.99	13.96	11.46	6.67	3.46	1.87	1.28	0.60
0.00	0.28	0.83	1.16	2.59	6.00	13.49	17.37	14.54	8.00	3.95	1.97	1.32	0.60
-1.00	0.23	0.76	1.01	2.36	5.06	9.52	14.15	10.84	6.51	3.45	1.86	1.27	0.58
-2.00	0.23	0.69	0.85	2.15	3.07	5.12	7.04	6.39	3.99	3.11	1.37	1.04	0.49
-3.00	0.19	0.31	0.84	0.99	2.37	2.50	3.32	3.18	2.66	1.45	1.35	0.69	0.39
-4.00	0.13	0.22	0.58	0.95	0.87	1.36	1.58	1.35	1.33	1.13	0.81	0.50	0.35
-5.00	0.19	0.15	0.26	0.39	0.72	0.99	1.09	0.96	0.97	0.49	0.37	0.28	0.35
-6.00	0.14	0.22	0.17	0.19	0.26	0.39	0.44	0.36	0.42	0.37	0.24	0.29	0.23
-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.) : 17.369

Illum. (Min.) : 0.1040

Illum. (Avg.) : 2.0457

All illuminance level values are in lux.



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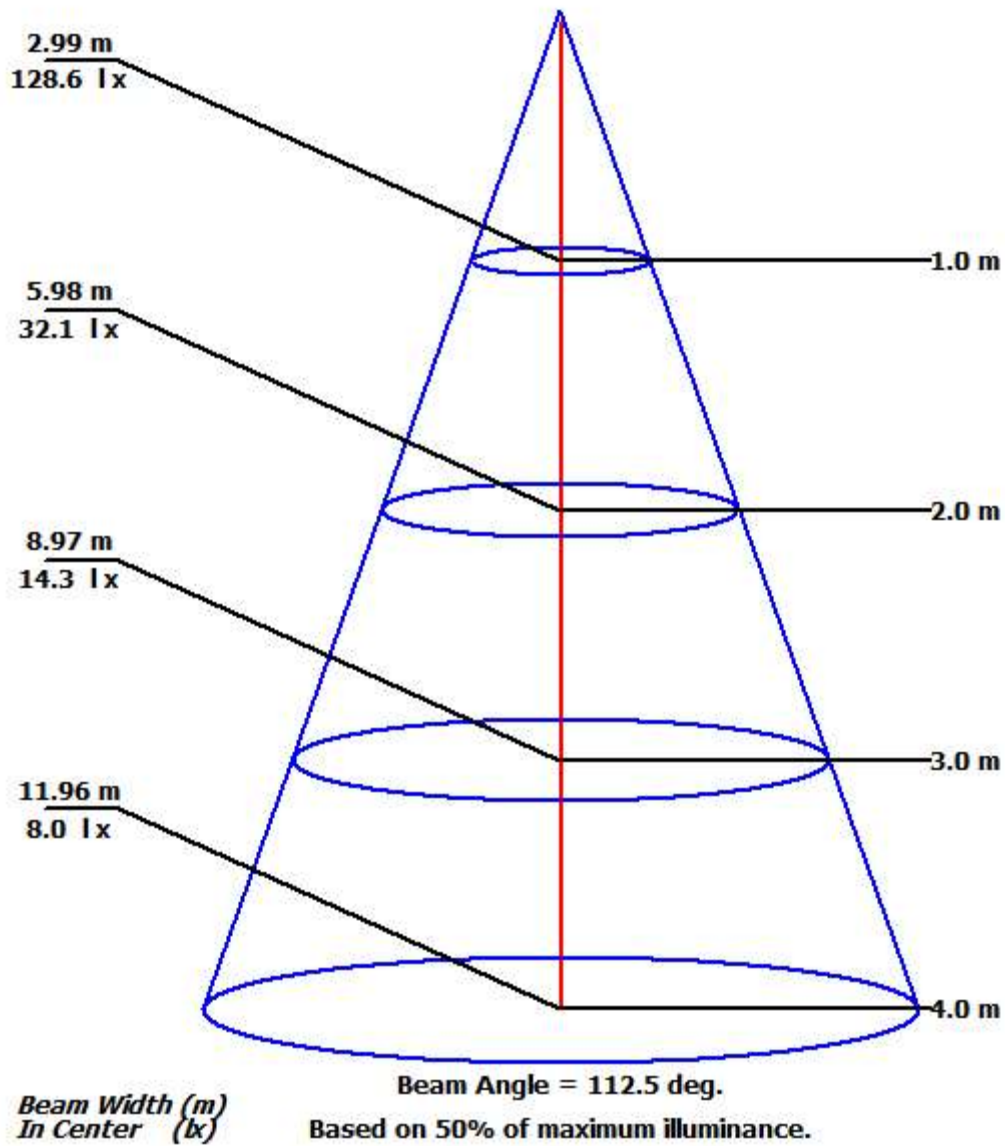
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Illuminance Cone Diagram



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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