

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 30K-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		0.4309 , 0.3937	
Correlated Color Temperature	K	3020	
Ra		92.77	
Power Factor		1.000	
Input Voltage	V	23.962	
Input Current	A	0.286	
Input Watt	W	6.8417	
Lamp Flux	lm	423.4	
Efficient	lm/W	61.89	
luminous Intensity (Max , Center)	cd	143 , 143	
Illuminance	lx	143	1 m
		36	2 m
		16	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 30K-24V-C90-1M.jdt

Lamp flux (lm) 423

Current (A) 0.28552

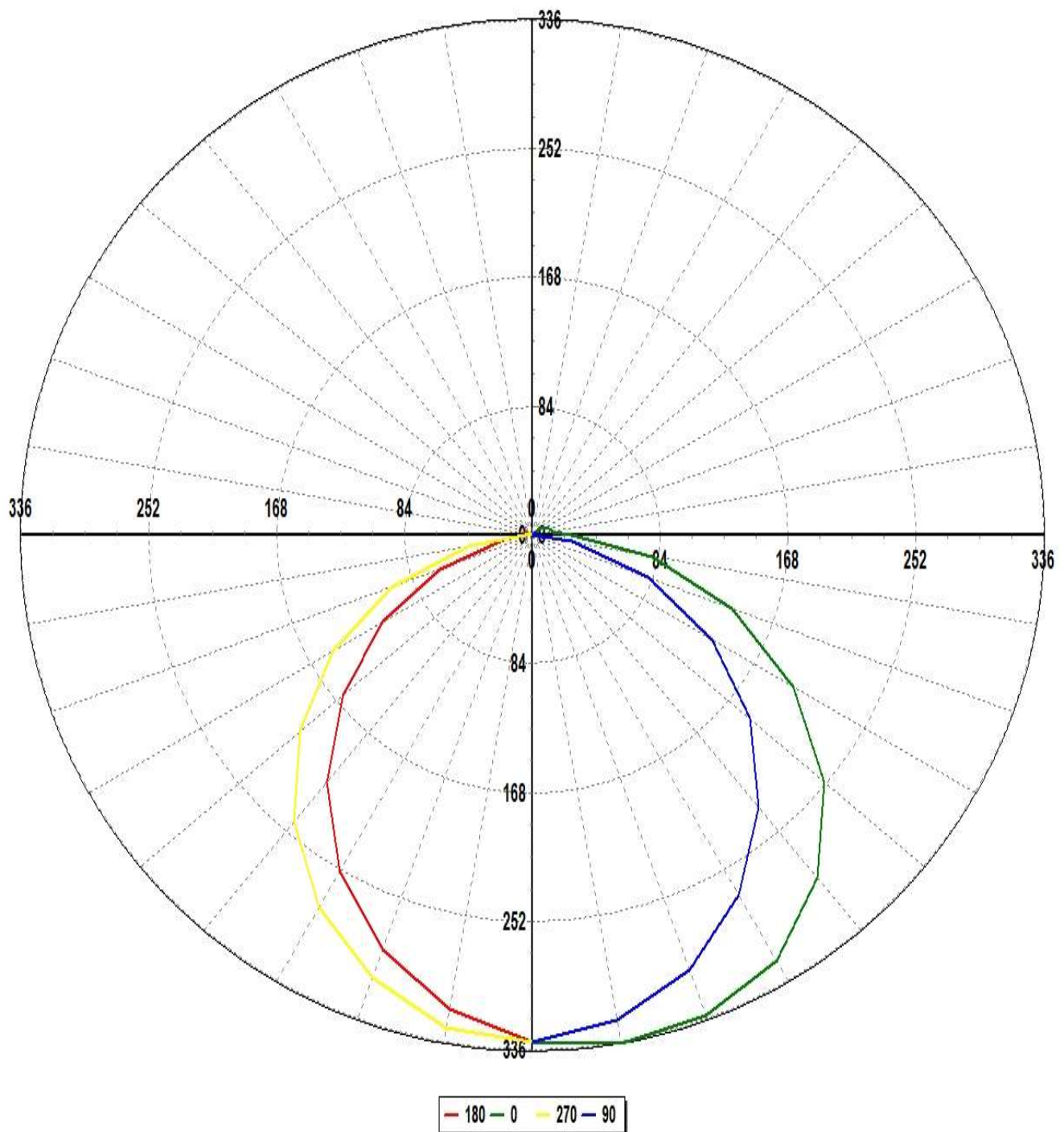
Operator

Total flux (lm) 423

Power Factor 1

Date 2024-05-09 오후 5:35:19

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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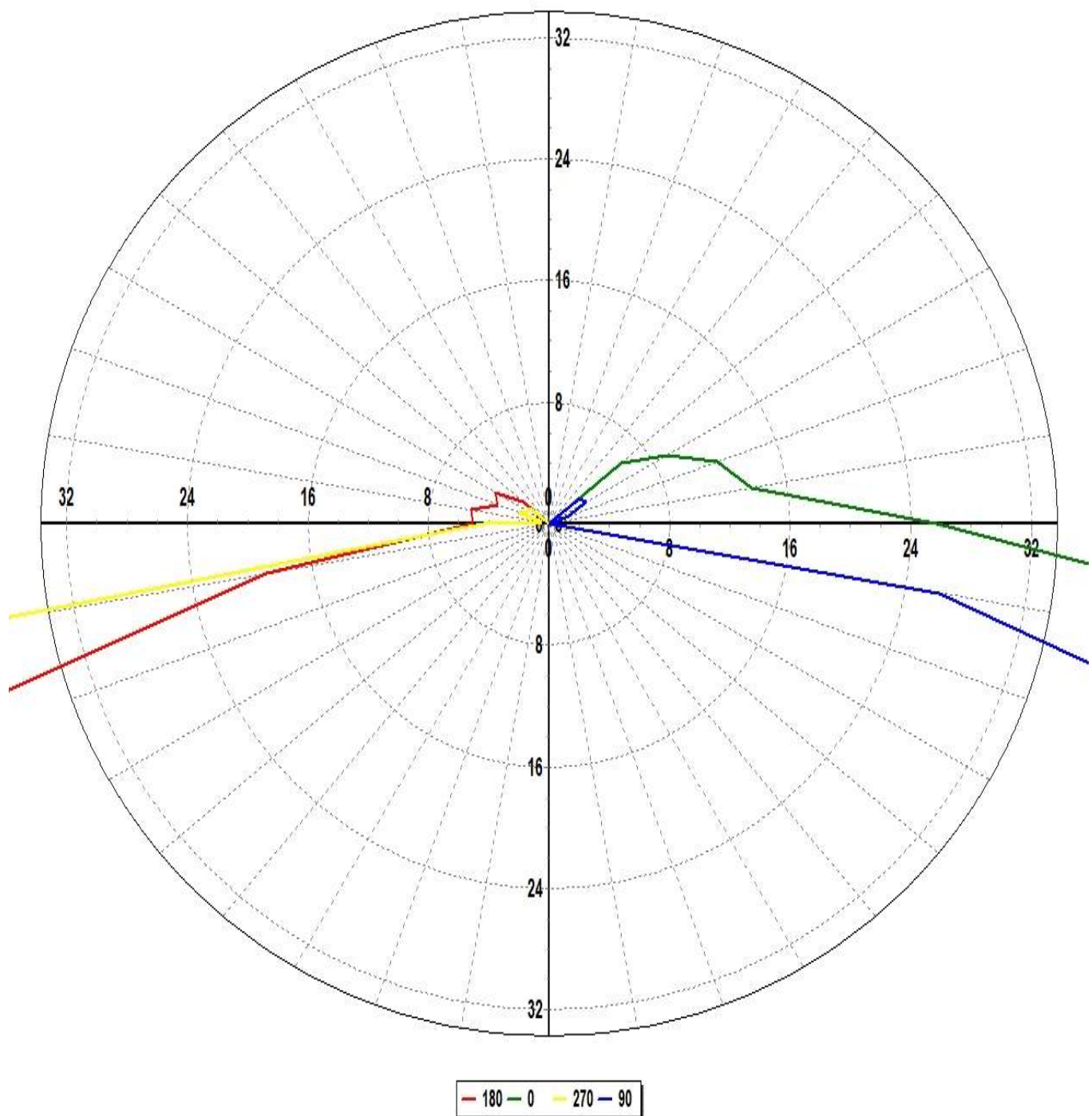
Operator

Total flux (lm) 423

Power Factor 1

Date 2024-05-09 오후 5:35:19

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.962	Filename	240509 FNN1 30K-24V-C90-1M.jdt
Lamp flux (lm)	423	Current (A)	0.28552	Operator	
Total flux (lm)	423	Power Factor	1	Date	2024-05-09 오후 5:35:19

Luminous Intensity Data

Maximum (cd) : 143

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	139.73	141.65	140.52	140.13	138.82	139.55	139.73	141.65	140.52	140.13	138.82
10	142.52	143.08	139.96	136.14	133.46	131.3	133.02	134.82	135.84	138.02	140.39
20	141.06	138.91	134.08	127.75	123.17	118.74	121.65	123.79	126.12	130.16	134.98
30	135.81	131.5	123.9	114.84	109.49	103.86	107.04	109.57	113.02	118.91	126.27
40	123.56	119.04	109.56	97.86	92.06	86.14	89.02	92.47	96.72	103.35	113.85
50	106.07	102.55	91.55	78.93	72.36	65.26	68.83	72.6	76.96	84.24	96.43
60	83.93	80.13	70.3	57.85	50.32	43.84	47.88	51.22	55.88	64.03	75.92
70	59.16	55.2	46.78	34.15	27.33	22.68	27.28	30.28	33.15	41.46	53.35
80	33.9	30.02	21.82	11.13	7.54	5.73	8.06	9.89	12.85	17.81	28.95
90	10.89	9.14	3.68	-0.04	1.09	1.4	2.14	2.83	1.69	1.84	7.9
100	5.78	4.47	2.1	0.18	0.63	2.01	2.23	1.71	0.42	0.22	2.67
110	5.01	4.02	1.11	0.59	0.7	1.69	1.53	1.4	0.6	0.91	1.22
120	3.82	0.96	1.25	1.18	1.55	1.54	1.76	1.33	1.81	0.7	0.97
130	2.64	1.23	0.34	1.11	1.35	0.99	0.94	0.97	0.59	0.69	1.06

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Luminous Intensity Data (Continued)

Maximum (cd) : 143

Minimum (cd) : 0

G/C	330	360
0	139.55	139.73
10	142.27	142.52
20	140.85	141.06
30	134.45	135.81
40	123.36	123.56
50	109.02	106.07
60	87.79	83.93
70	63.89	59.16
80	37.89	33.9
90	14.32	10.89
100	5.26	5.78
110	3.7	5.01
120	2.53	3.82
130	1.9	2.64

Luminaire KH FEELUX

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Luminous Flux Table

Total Lamp Lumens: 423.39

Luminaire Efficiency (lm/W): 61.88

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	3.35	3.35	0.79	0.79
10	26.16	29.51	6.97	6.97
20	48.74	78.25	18.48	18.48
30	65.20	143.44	33.88	33.88
40	73.16	216.60	51.16	51.16
50	71.65	288.25	68.08	68.08
60	60.79	349.04	82.44	82.44
70	42.43	391.47	92.46	92.46
80	20.28	411.74	97.25	97.25
90	5.19	416.94	98.47	98.48
100	2.49	419.42	99.06	99.06
110	1.93	421.35	99.52	99.52
120	1.53	422.88	99.88	99.88
130	0.50	423.39	100.00	100.00

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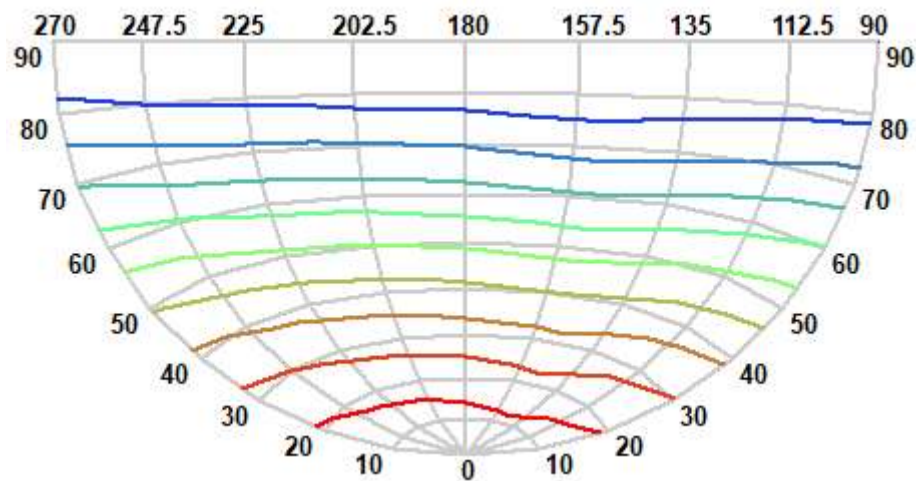
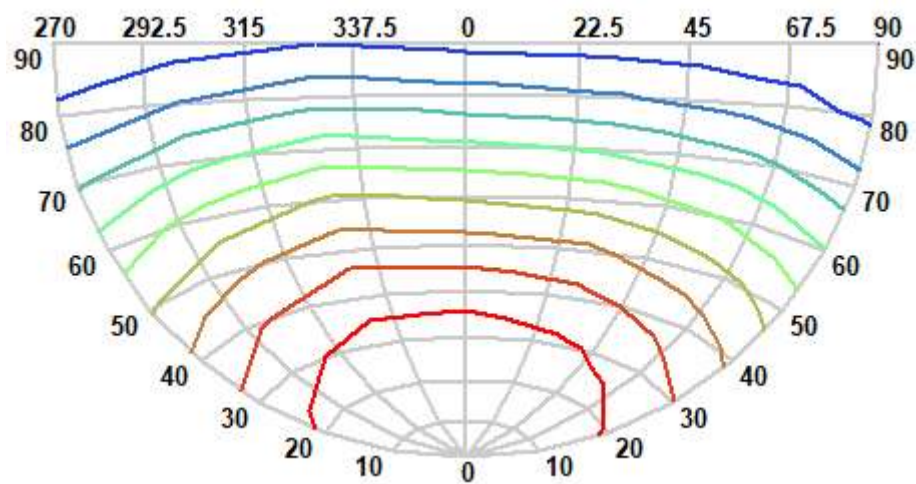
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IsoCandela (Type C)



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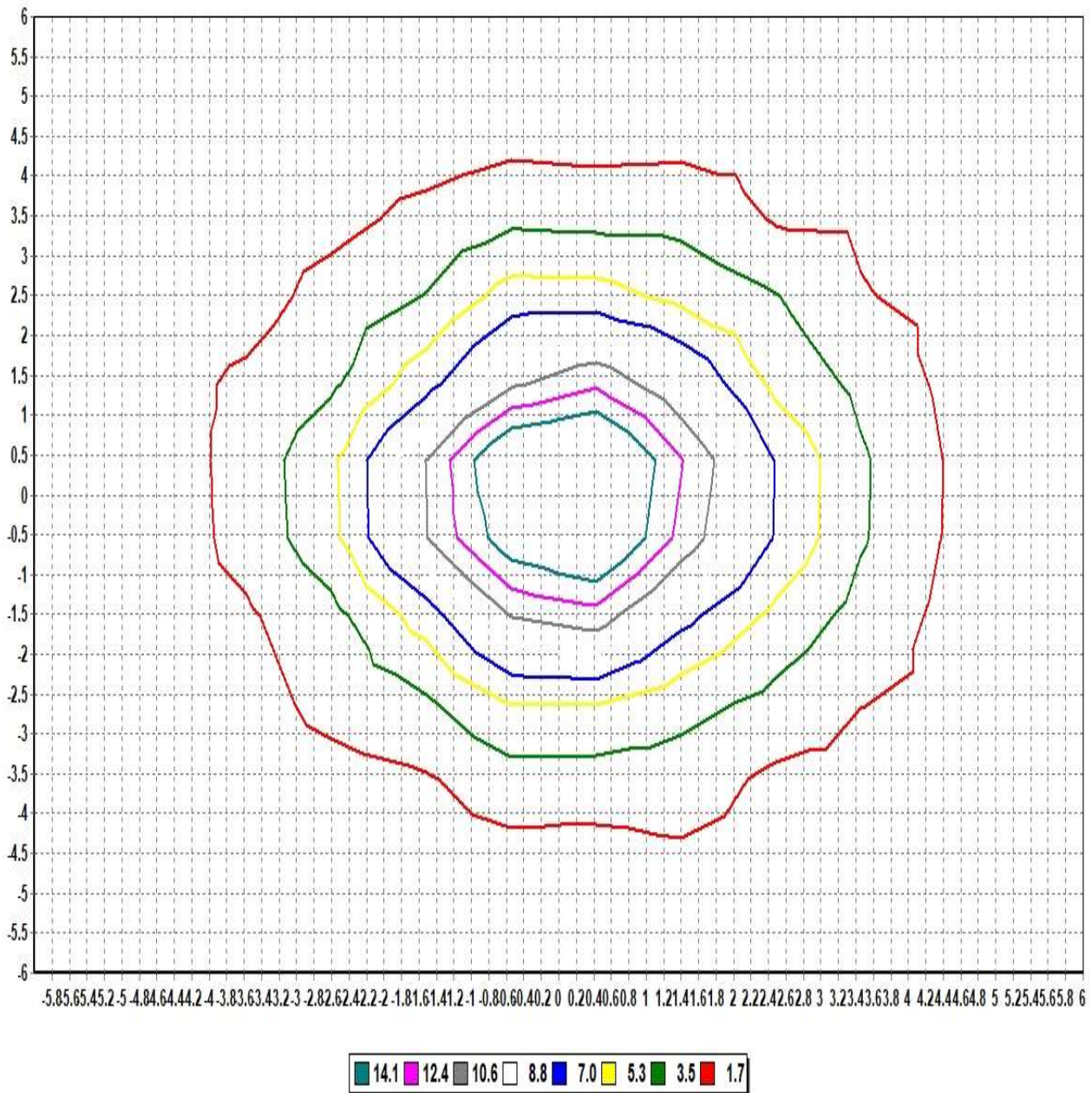
Operator

Total flux (lm) 423

Power Factor 1

Date 2024-05-09 오후 5:35:19

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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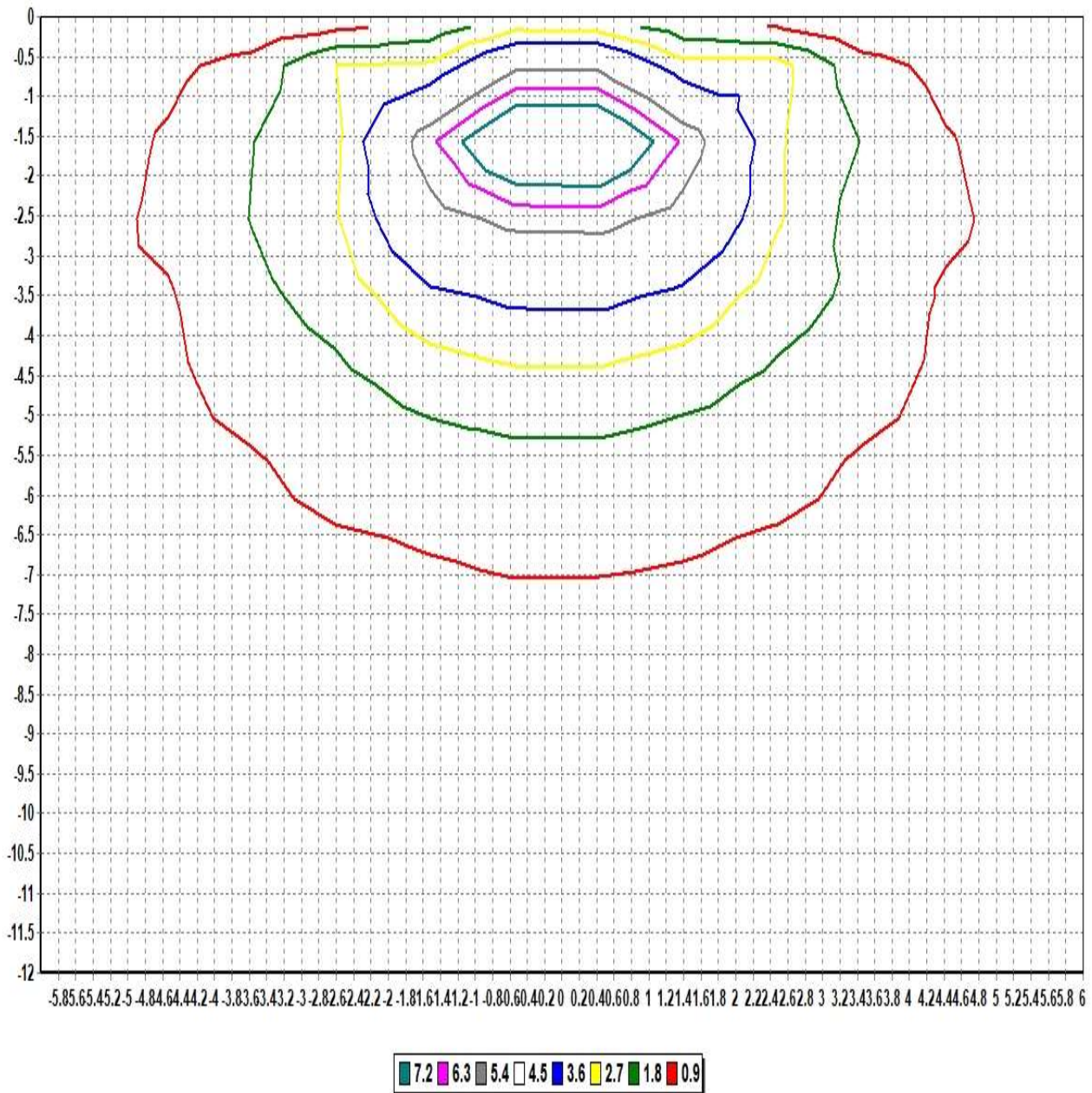
Operator

Total flux (lm) 423

Power Factor 1

Date 2024-05-09 오후 5:35:19

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

No. of lamps	1	Voltage (V)	23.962
Lamp flux (lm)	423	Current (A)	0.28552
Total flux (lm)	423	Power Factor	1

Report

KH FEELUX

Filename 240509 FNN1 30K-24V-C90-1M.jdt

Operator

Date

2024-05-09 오후 5:35:19

Illuminance Levels (Ground)

6.00	0.19	0.25	0.20	0.23	0.31	0.48	0.42	0.43	0.49	0.42	0.29	0.34	0.29
5.00	0.21	0.20	0.31	0.46	0.83	1.16	1.11	1.11	1.14	0.60	0.45	0.37	0.38
4.00	0.14	0.24	0.72	1.09	1.02	1.61	1.59	1.59	1.54	1.33	1.03	0.52	0.35
3.00	0.22	0.34	0.93	1.26	2.69	2.85	3.40	3.72	3.10	1.86	1.50	0.72	0.43
2.00	0.27	0.78	0.99	2.37	3.74	5.85	7.38	7.42	4.99	3.47	1.57	1.19	0.54
1.00	0.31	0.89	1.19	2.65	5.77	10.99	15.37	12.89	7.52	3.93	2.10	1.45	0.66
0.00	0.34	0.96	1.35	2.99	6.78	15.00	19.17	16.12	9.10	4.50	2.23	1.51	0.66
-1.00	0.30	0.87	1.19	2.71	5.81	10.65	15.58	11.91	7.23	3.83	2.09	1.44	0.64
-2.00	0.30	0.80	1.01	2.45	3.53	5.86	7.74	7.09	4.38	3.47	1.51	1.15	0.54
-3.00	0.24	0.38	0.98	1.16	2.66	2.83	3.62	3.48	2.91	1.59	1.51	0.76	0.42
-4.00	0.17	0.27	0.67	1.07	1.03	1.51	1.73	1.50	1.46	1.23	0.89	0.54	0.38
-5.00	0.23	0.19	0.31	0.45	0.82	1.09	1.19	1.06	1.06	0.54	0.41	0.31	0.39
-6.00	0.17	0.25	0.20	0.25	0.32	0.44	0.48	0.41	0.46	0.40	0.26	0.31	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.) : 19.168

Illum. (Min.) : 0.1442

Illum. (Avg.) : 2.2889

All illuminance level values are in lux.



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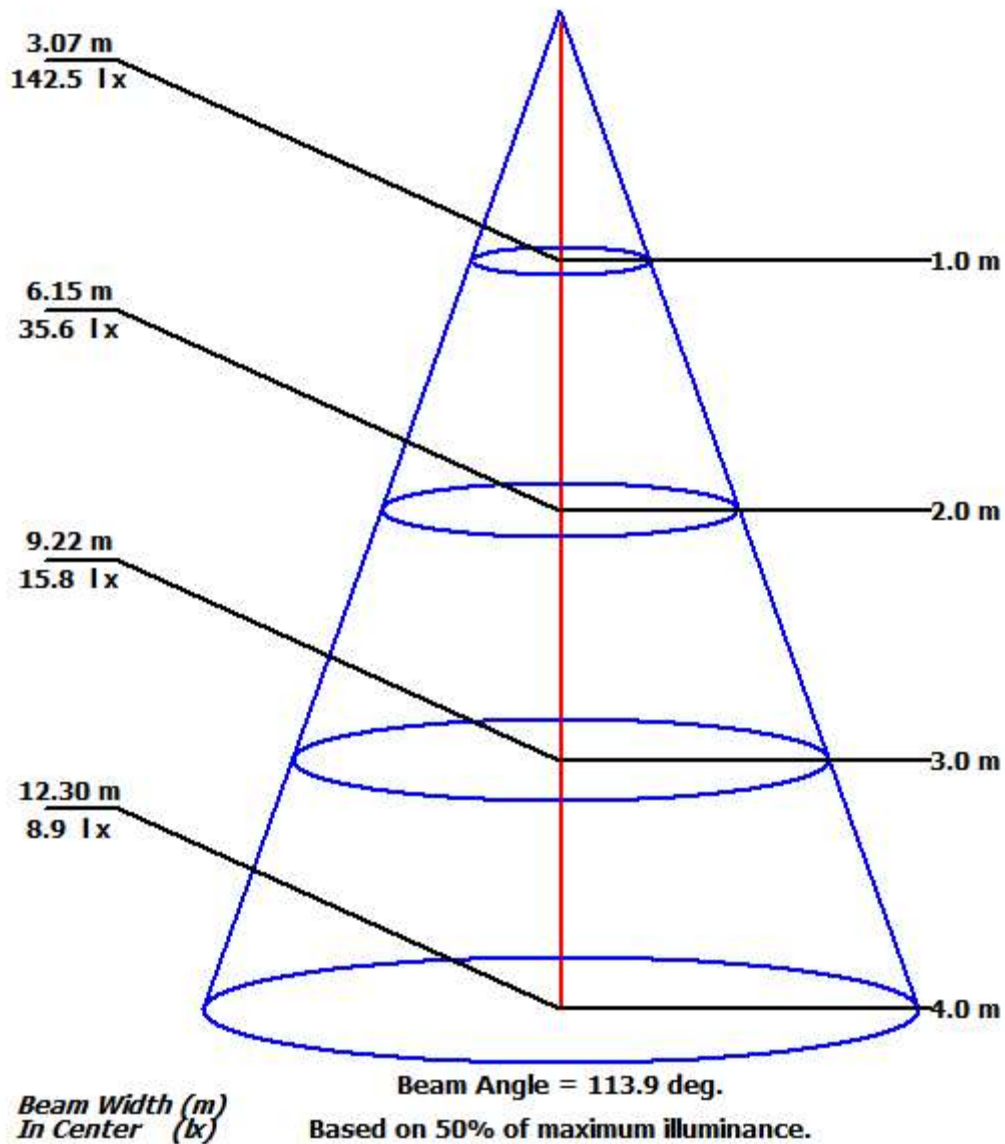
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Illuminance Cone Diagram



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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