

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 35K-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		0.4057 , 0.3842	
Correlated Color Temperature	K	3443	
Ra		93.42	
Power Factor		1.000	
Input Voltage	V	23.962	
Input Current	A	0.289	
Input Watt	W	6.9246	
Lamp Flux	lm	419.2	
Efficient	lm/W	60.54	
luminous Intensity (Max , Center)	cd	143 , 138	
Illuminance	lx	138	1 m
		35	2 m
		15	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 35K-24V-C90-1M.jdt

Lamp flux (lm) 419

Current (A) 0.28899

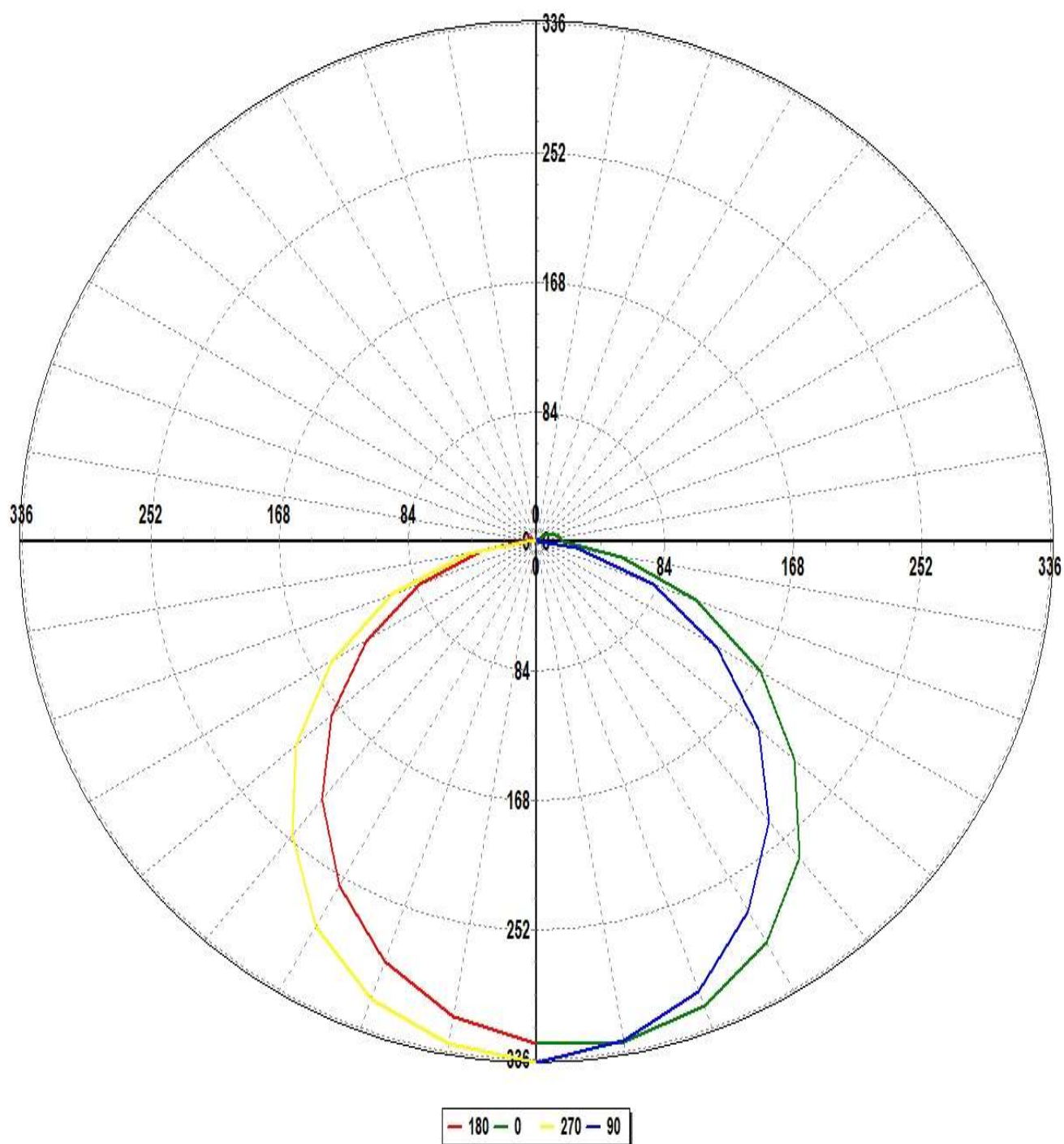
Operator

Total flux (lm) 419

Power Factor 1

Date 2024-05-09 오후 5:49:54

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

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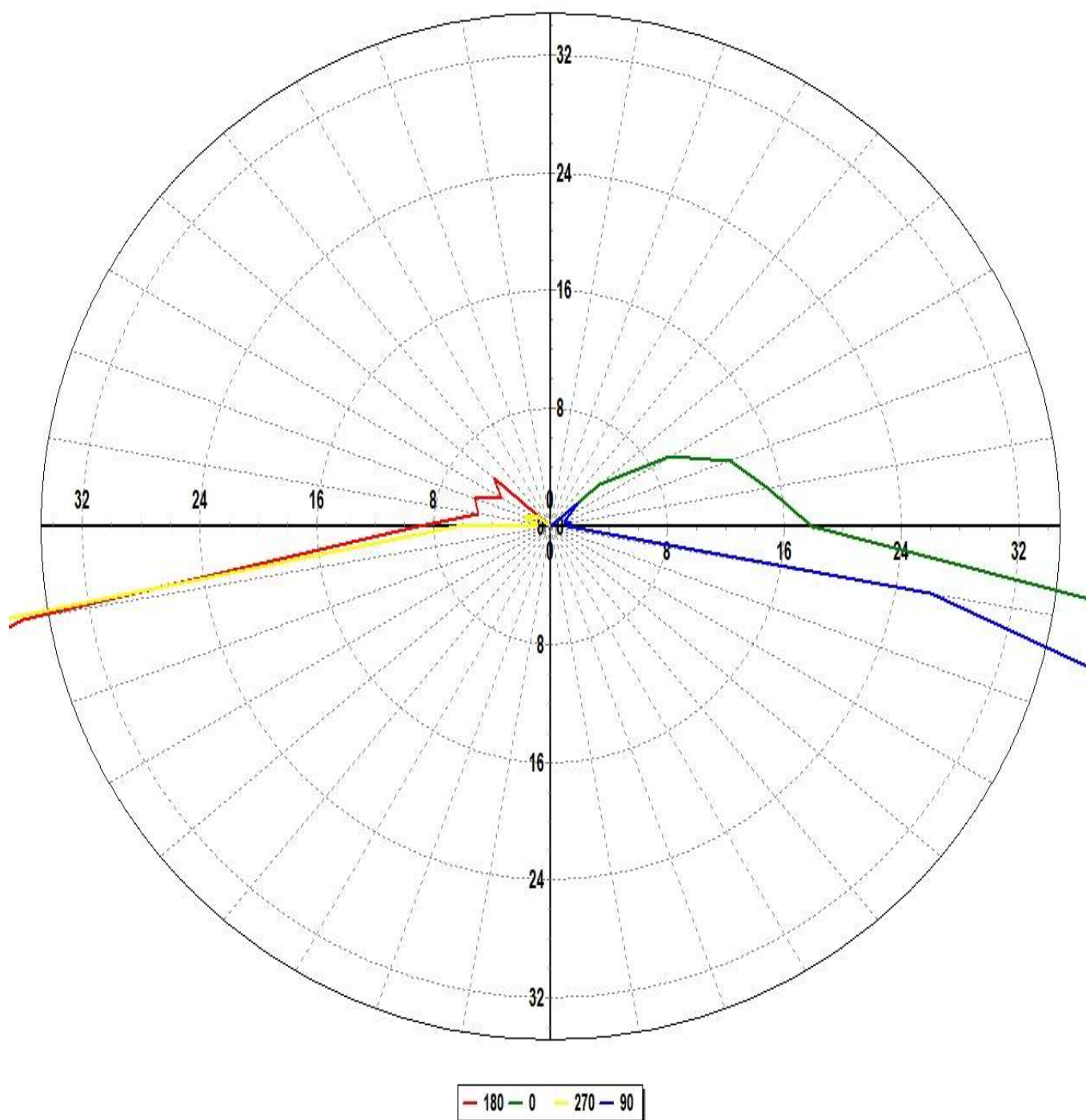
Operator

Total flux (lm) 419

Power Factor 1

Date 2024-05-09 오후 5:49:54

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.962	Filename	240509 FNN1 35K-24V-C90-1M.jdt
Lamp flux (lm)	419	Current (A)	0.28899	Operator	
Total flux (lm)	419	Power Factor	1	Date	2024-05-09 오후 5:49:54

Luminous Intensity Data

Maximum (cd) : 143

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	136.29	141.77	141.14	141.65	141.55	140.47	136.29	141.77	141.14	141.65	141.55
10	138.05	141.6	140.36	137.86	136.17	135.03	131.14	136.19	137.29	138.74	142.22
20	134.49	137.28	133.33	130.08	126.23	123.24	121.39	126.86	129.41	132.32	136.49
30	126.06	127.83	122.31	115.91	112.02	108.76	107.94	113.44	116.61	120.77	126.15
40	112.12	113.09	106.94	99.29	94.79	91.84	91.58	96.12	99.61	104.2	111.51
50	92.25	92.88	87.61	79.36	74.55	71.84	73.29	77.84	80.88	85.98	92.68
60	70.8	70.34	65.23	57.18	53.6	49.99	53.74	57.79	60.49	64.84	71.78
70	46.6	46.14	41.62	33.98	31.55	28.6	34.12	35.87	37.5	41.84	48.99
80	23.68	22.21	17.86	11.05	9.57	10.37	15.36	16.26	17.1	19.47	24.17
90	7.5	6.3	3.53	0.5	2.19	3.14	3.79	3.27	2.88	2.68	4.63
100	6.3	5.26	2.02	0.61	1.01	1.72	2.09	2.29	1.48	0.38	2.79
110	5.49	3.66	1.34	0.43	0.9	2.81	2.3	1.67	1.23	0.78	1.73
120	3.95	2.82	1.1	0.58	1.12	1.08	1.63	1.42	1.16	0.64	0.79
130	1.84	1.36	1.48	1.04	1.1	1.04	2.12	0.92	0.84	0.44	0.8

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Date 2024-05-09 오후 5:49:54

Luminous Intensity Data (Continued)

Maximum (cd) : 143

Minimum (cd) : 0

G/C	330	360
0	140.47	136.29
10	142.68	138.05
20	139.69	134.49
30	131.96	126.06
40	118.76	112.12
50	100.43	92.25
60	79.02	70.8
70	54.3	46.6
80	29.26	23.68
90	8.9	7.5
100	5.28	6.3
110	3.71	5.49
120	2.64	3.95
130	2.3	1.84

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Luminous Flux Table

Total Lamp Lumens: 419.20

Luminaire Efficiency (lm/W): 60.54

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	3.36	3.36	0.80	0.80
10	26.27	29.63	7.07	7.07
20	49.03	78.66	18.76	18.76
30	65.25	143.91	34.33	34.33
40	72.74	216.64	51.68	51.68
50	70.59	287.23	68.52	68.52
60	59.66	346.89	82.75	82.75
70	41.26	388.15	92.59	92.60
80	19.45	407.60	97.23	97.23
90	4.50	412.10	98.31	98.31
100	2.81	414.91	98.98	98.98
110	2.23	417.15	99.51	99.51
120	1.50	418.64	99.87	99.87
130	0.55	419.20	100.00	100.00

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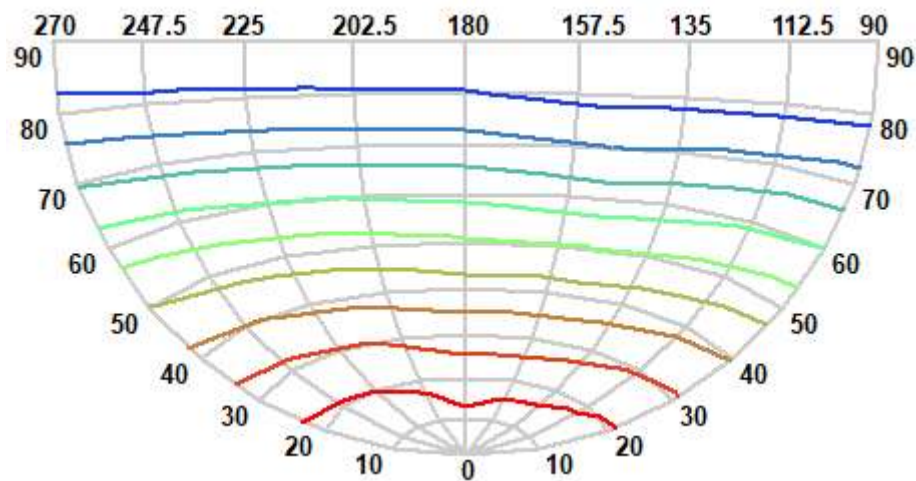
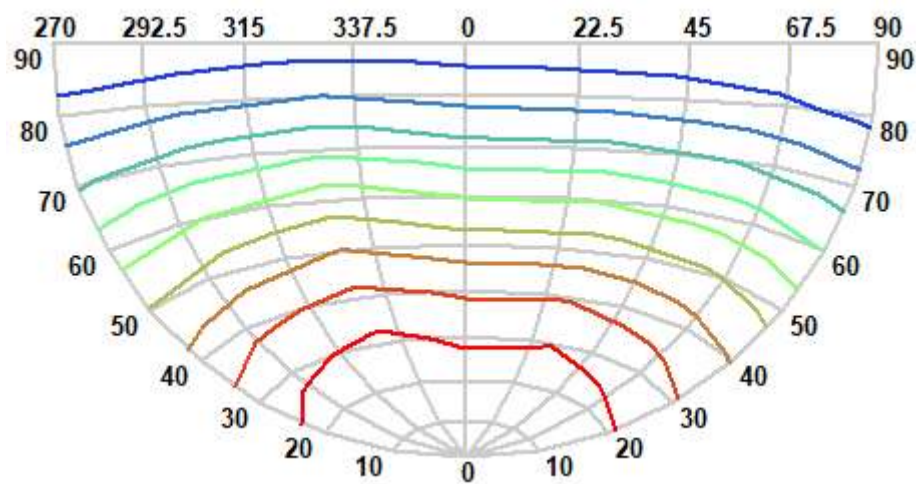
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IsoCandela (Type C)



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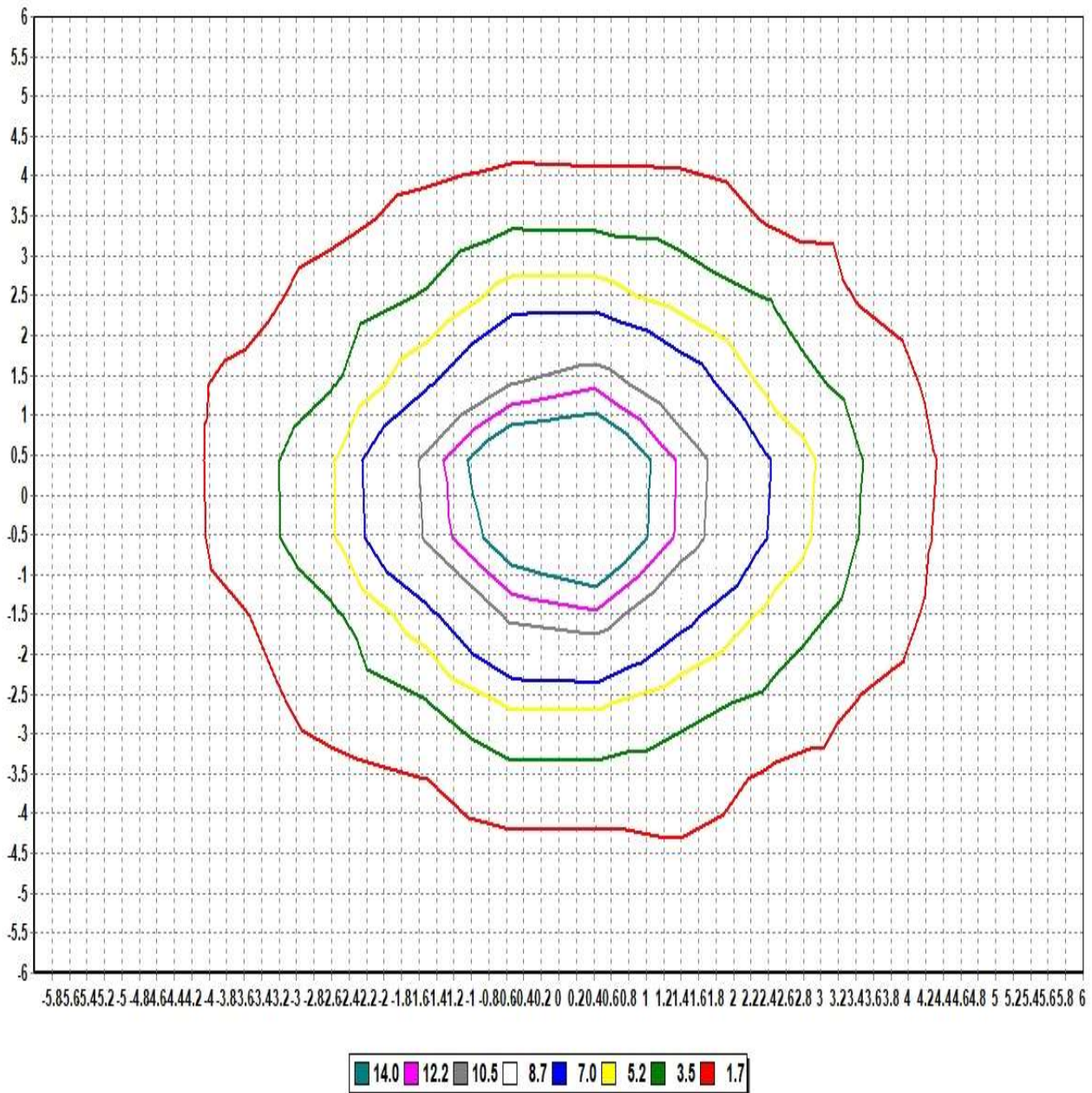
Operator

Total flux (lm) 419

Power Factor 1

Date 2024-05-09 오후 5:49:54

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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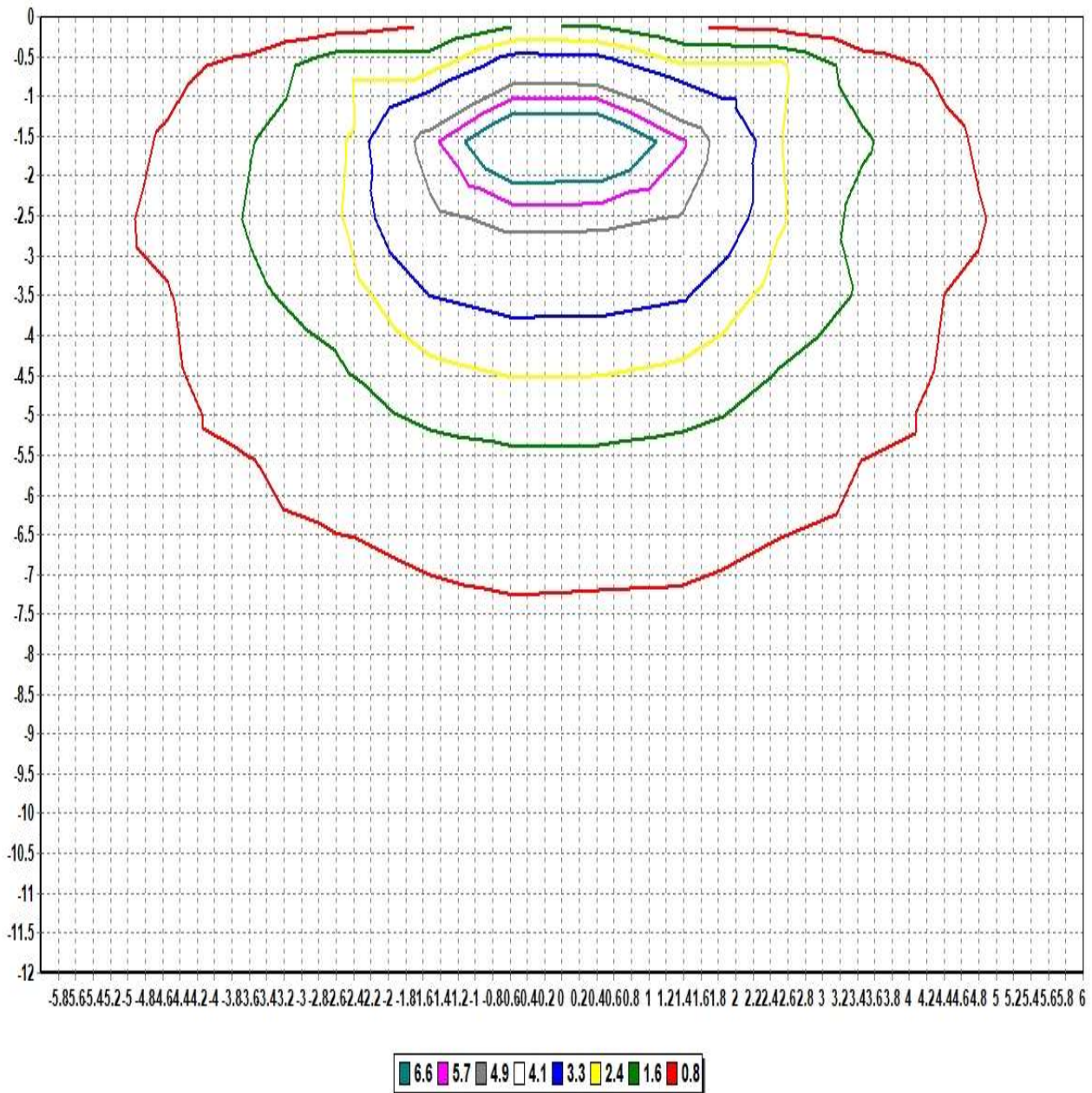
Operator

Total flux (lm) 419

Power Factor 1

Date 2024-05-09 오후 5:49:54

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)	419	Current (A)	0.28899
Total flux (lm)	419	Power Factor	1

Report

KH FEELUX

Filename 240509 FNN1 35K-24V-C90-1M.jdt

Operator

Date

2024-05-09 오후 5:49:54

Illuminance Levels (Ground)

6.00	0.19	0.26	0.21	0.26	0.33	0.44	0.42	0.42	0.43	0.36	0.26	0.31	0.25
5.00	0.24	0.22	0.32	0.46	0.85	1.12	1.11	1.09	1.04	0.54	0.40	0.30	0.33
4.00	0.18	0.29	0.74	1.10	1.07	1.55	1.59	1.54	1.37	1.25	0.91	0.43	0.28
3.00	0.25	0.40	1.01	1.29	2.73	2.91	3.42	3.45	3.00	1.61	1.31	0.59	0.36
2.00	0.31	0.82	1.05	2.54	3.81	6.01	7.48	7.08	4.51	3.13	1.38	1.05	0.45
1.00	0.37	0.96	1.32	2.80	5.96	11.19	15.57	12.31	7.11	3.52	1.85	1.31	0.56
0.00	0.40	1.03	1.48	3.16	6.92	14.80	18.70	15.60	8.32	3.95	1.91	1.31	0.54
-1.00	0.35	0.96	1.32	2.89	6.03	10.86	15.67	12.02	7.07	3.63	1.84	1.28	0.54
-2.00	0.35	0.86	1.13	2.55	3.72	6.09	7.83	6.97	4.34	3.31	1.42	1.08	0.48
-3.00	0.28	0.44	1.05	1.29	2.76	3.00	3.68	3.42	2.93	1.56	1.40	0.67	0.39
-4.00	0.21	0.33	0.73	1.13	1.14	1.57	1.76	1.56	1.39	1.24	0.88	0.48	0.32
-5.00	0.25	0.23	0.35	0.49	0.89	1.12	1.21	1.10	1.03	0.54	0.41	0.30	0.36
-6.00	0.19	0.28	0.23	0.29	0.36	0.45	0.49	0.44	0.44	0.38	0.26	0.31	0.24
-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.) : 18.696

Illum. (Min.) : 0.1780

Illum. (Avg.) : 2.2612

All illuminance level values are in lux.



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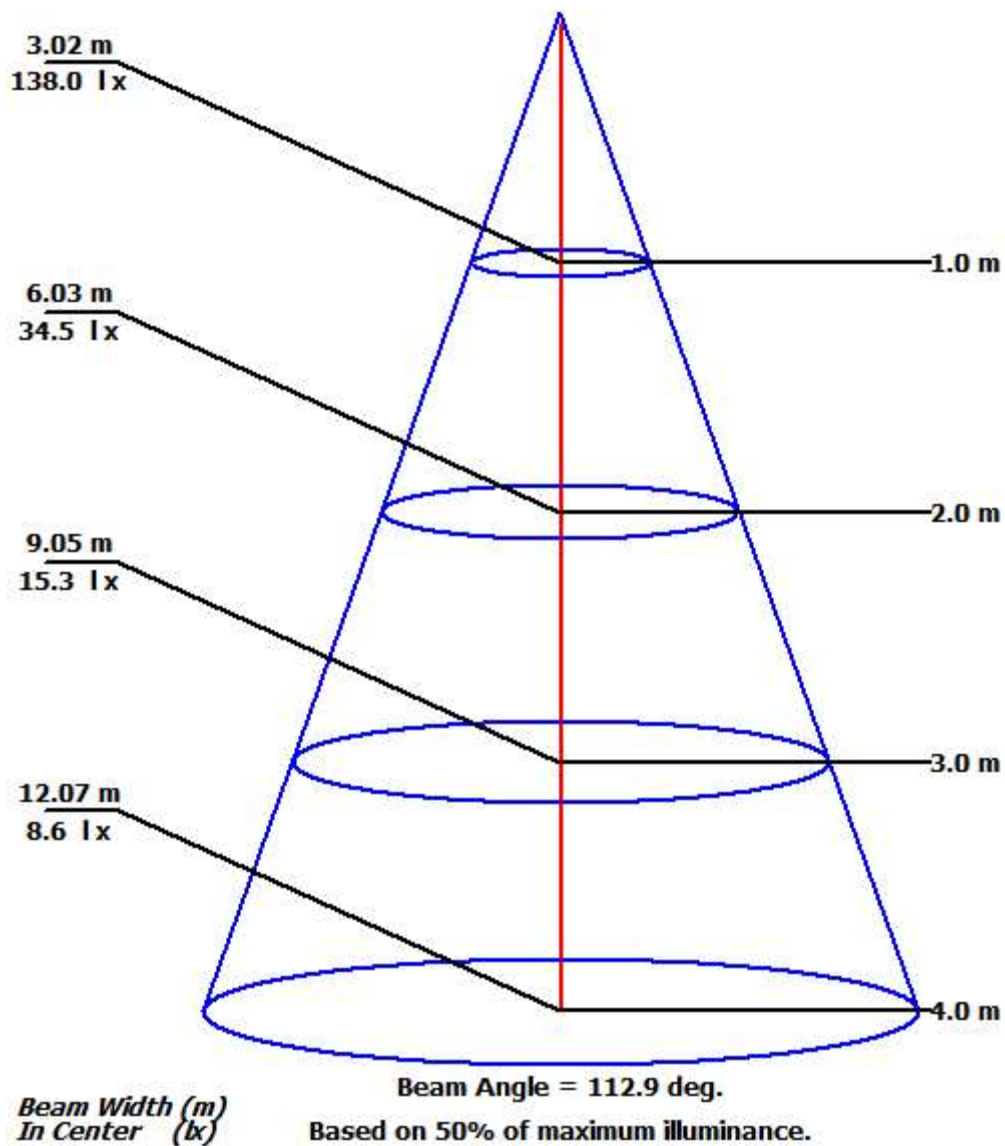
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Illuminance Cone Diagram



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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