

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 FNN2 24K-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		0.4887 , 0.4095	
Correlated Color Temperature	K	2325	
Ra		90.63	
Power Factor		1.000	
Input Voltage	V	23.963	
Input Current	A	0.289	
Input Watt	W	6.9141	
Lamp Flux	lm	497.2	
Efficient	lm/W	71.91	
luminous Intensity (Max , Center)	cd	179 , 178	
Illuminance	lx	178	1 m
		45	2 m
		20	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) 23.963

Filename 240510 FNN2 24K-24V-C90-1M.jdt

Lamp flux (lm) 497

Current (A) 0.28853

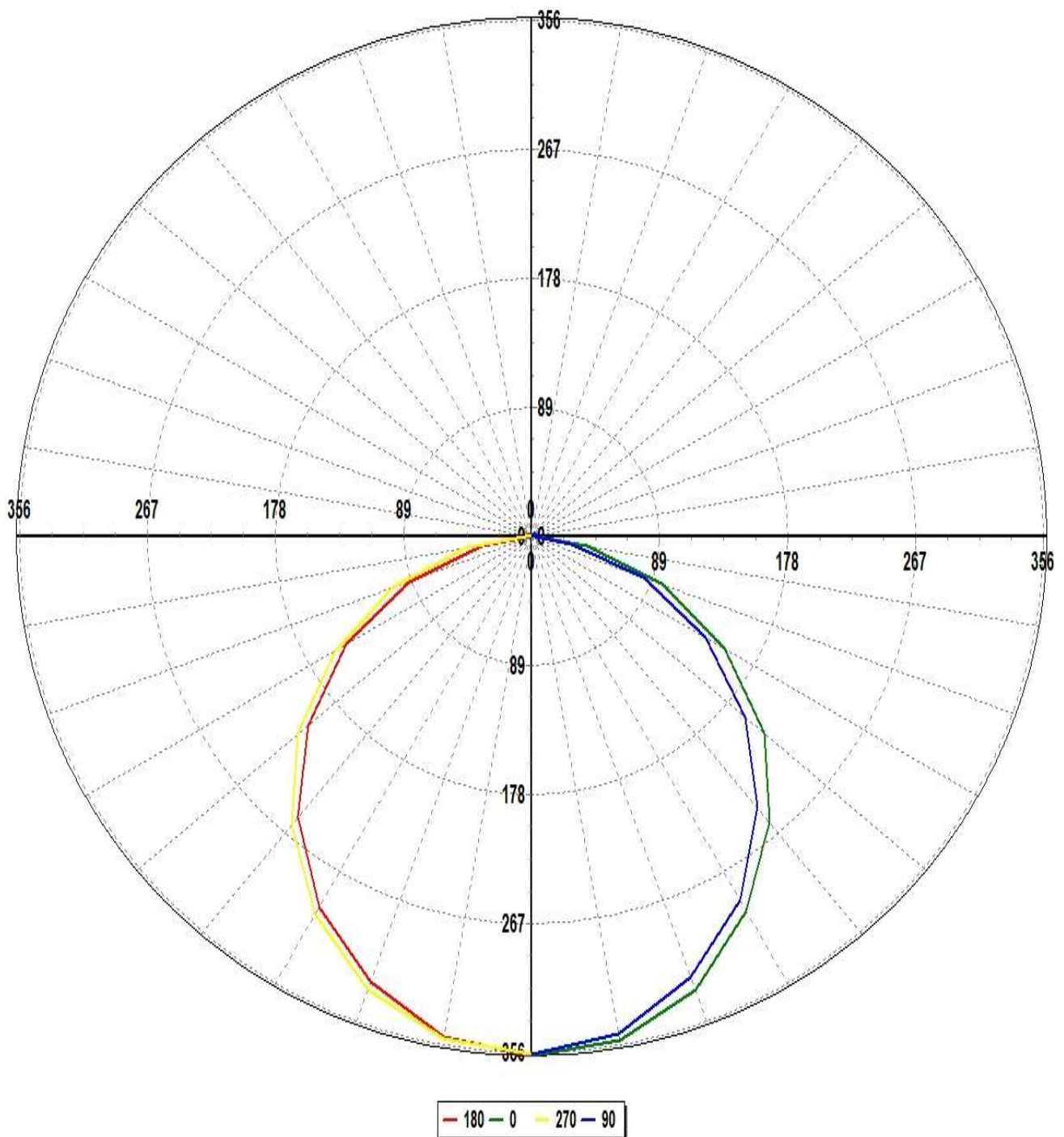
Operator

Total flux (lm) 497

Power Factor 1

Date 2024-05-10 오전 10:09:12

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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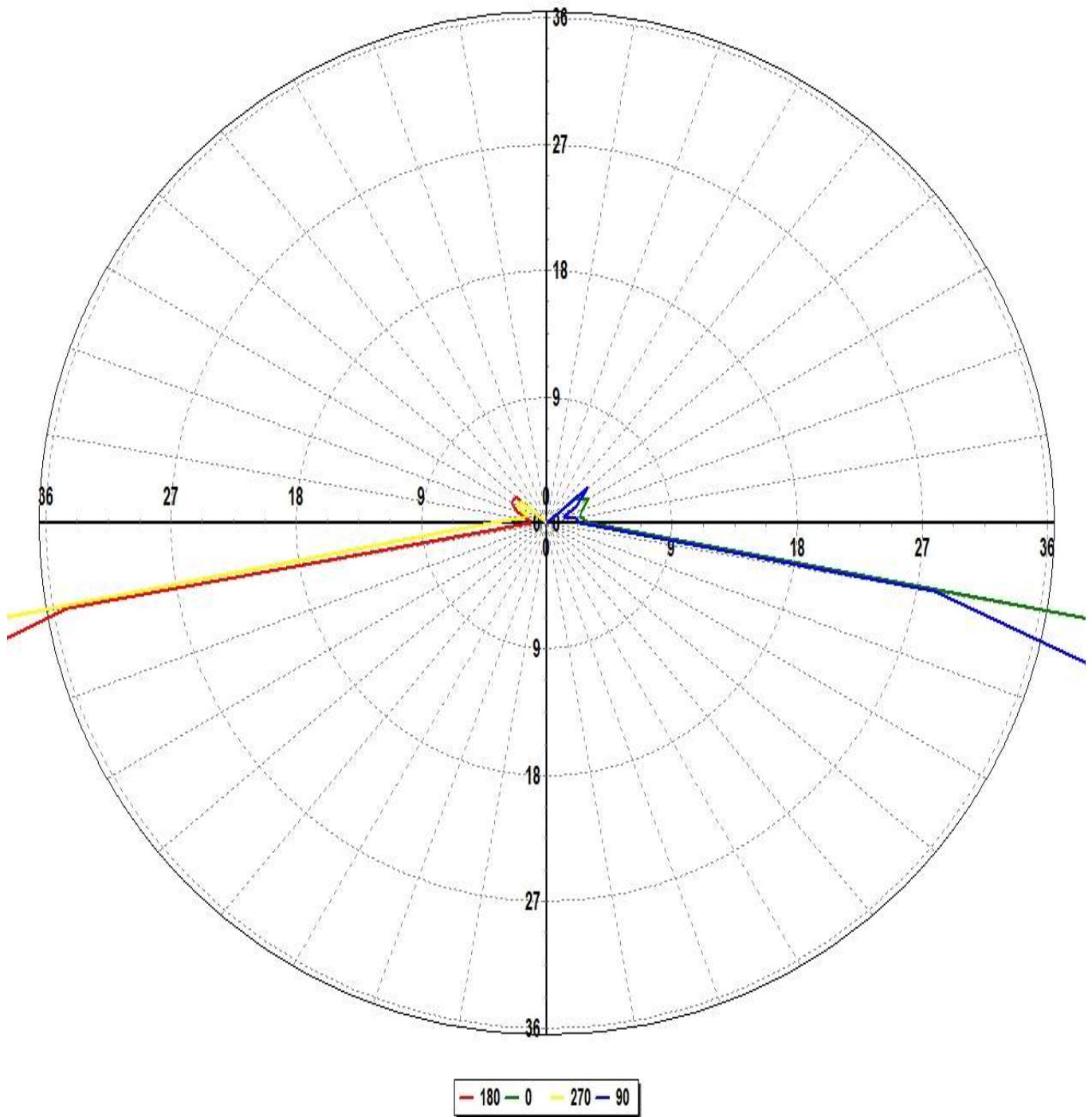
Operator

Total flux (lm) 497

Power Factor 1

Date 2024-05-10 오전 10:09:12

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.963	Filename	240510 FNN2 24K-24V-C90-1M.jdt
Lamp flux (lm)	497	Current (A)	0.28853	Operator	
Total flux (lm)	497	Power Factor	1	Date	2024-05-10 오전 10:09:12

Luminous Intensity Data

Maximum (cd) : 179

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	178.07	178.53	178.46	177.55	177.8	177.66	178.07	178.53	178.46	177.55	177.8
10	175.53	174.61	173.73	173.29	172.22	171.29	174.31	175.07	175	174.93	175.74
20	165.52	163.52	162.46	160.68	160.36	159.18	162.49	164.14	164.61	165.38	166.71
30	148.33	147.09	146.32	143.94	142.5	140.63	146.79	147.43	148.02	149.5	150.32
40	127.83	125.93	124.26	121.46	120.45	119.22	125.44	126.57	126.94	128.78	130.99
50	105.06	101.5	99.94	96.61	95.62	93.63	100.56	101.78	103.88	105.35	107.23
60	76.86	74.66	72.84	69.48	68.8	66.29	73.86	75.35	76.73	78.46	79.71
70	47.83	46.55	44.12	41.33	40.25	37.47	45.15	47.3	48.33	50.74	51.8
80	19.44	17.46	16.83	14.07	13.64	11.28	17.38	18.47	20.28	22.56	23.65
90	1.52	0.87	0.59	1.19	1.21	0.49	0.58	1.43	1.65	2	2.58
100	1.22	1.31	1.05	1.05	0.9	1.27	0.65	0.49	1.37	0.92	0.31
110	1.33	0.38	1.12	0.64	0.95	1.51	1.1	1.21	1.19	0.72	0.95
120	1.72	0.93	0.61	1.24	1.85	1.34	1.45	1.58	1.09	1.18	1.14
130	1.28	1.37	0.76	1.93	1.44	1.02	1.43	1.07	1.24	1.2	1.36

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Total flux (lm) 497

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Date 2024-05-10 오전 10:09:12

Luminous Intensity Data (Continued)

Maximum (cd) : 179

Minimum (cd) : 0

G/C	330	360
0	177.66	178.07
10	176.24	175.53
20	167.89	165.52
30	152.93	148.33
40	132.96	127.83
50	110.21	105.06
60	83.52	76.86
70	54.84	47.83
80	26.89	19.44
90	3.99	1.52
100	0.94	1.22
110	1.01	1.33
120	1.25	1.72
130	1.18	1.28

Luminaire KH FEELUX

Lamp

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Total flux (lm)	497	Power Factor	1	Date	2024-05-10 오전 10:09:12

Luminous Flux Table

Total Lamp Lumens: 497.17

Luminaire Efficiency (lm/W): 71.91

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	4.26	4.26	0.86	0.86
10	33.15	37.41	7.52	7.52
20	61.27	98.69	19.85	19.85
30	80.49	179.18	36.04	36.04
40	88.64	267.81	53.86	53.87
50	85.39	353.20	71.04	71.04
60	70.87	424.07	85.29	85.30
70	47.66	471.73	94.88	94.88
80	19.95	491.68	98.89	98.90
90	1.65	493.33	99.22	99.23
100	1.03	494.36	99.43	99.43
110	1.04	495.40	99.64	99.64
120	1.22	496.62	99.88	99.89
130	0.55	497.17	99.99	100.00

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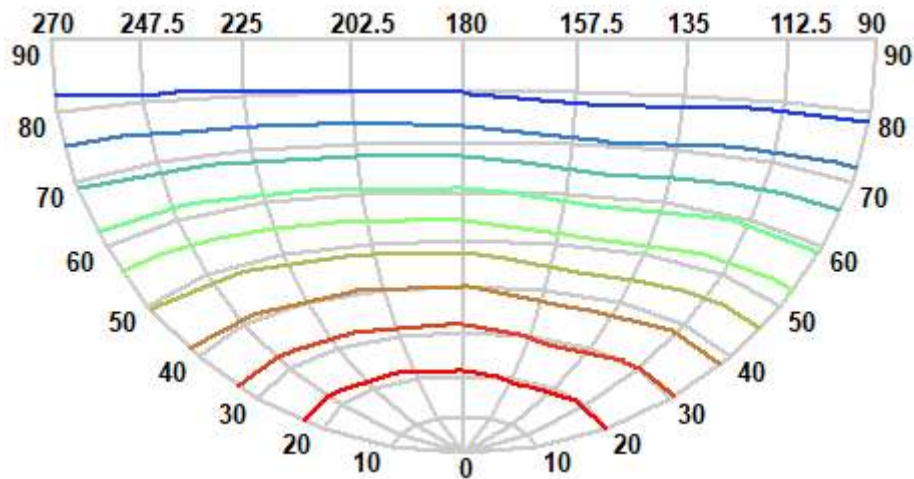
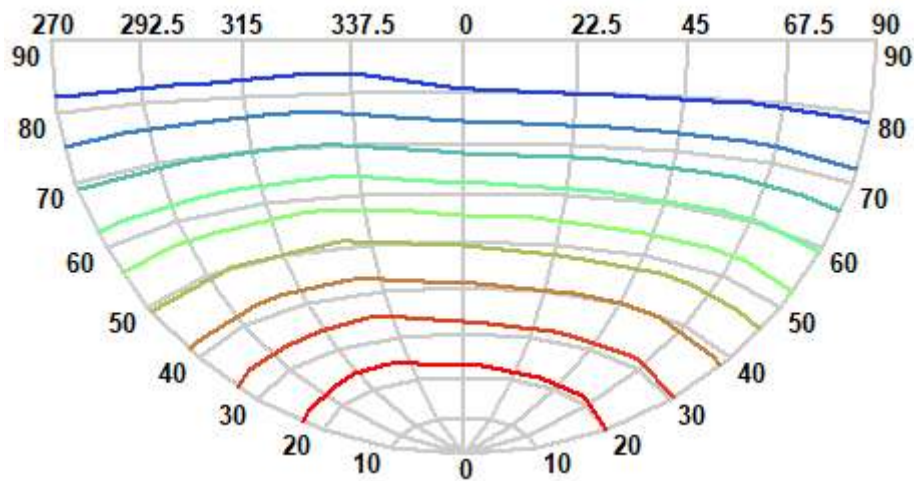
Operator

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Power Factor 1

Date 2024-05-10 오전 10:09:12

IsoCandela (Type C)



0 ~ 18	89 ~ 107
18 ~ 36	107 ~ 125
36 ~ 54	125 ~ 143
54 ~ 72	143 ~ 161
72 ~ 89	161 ~ 179

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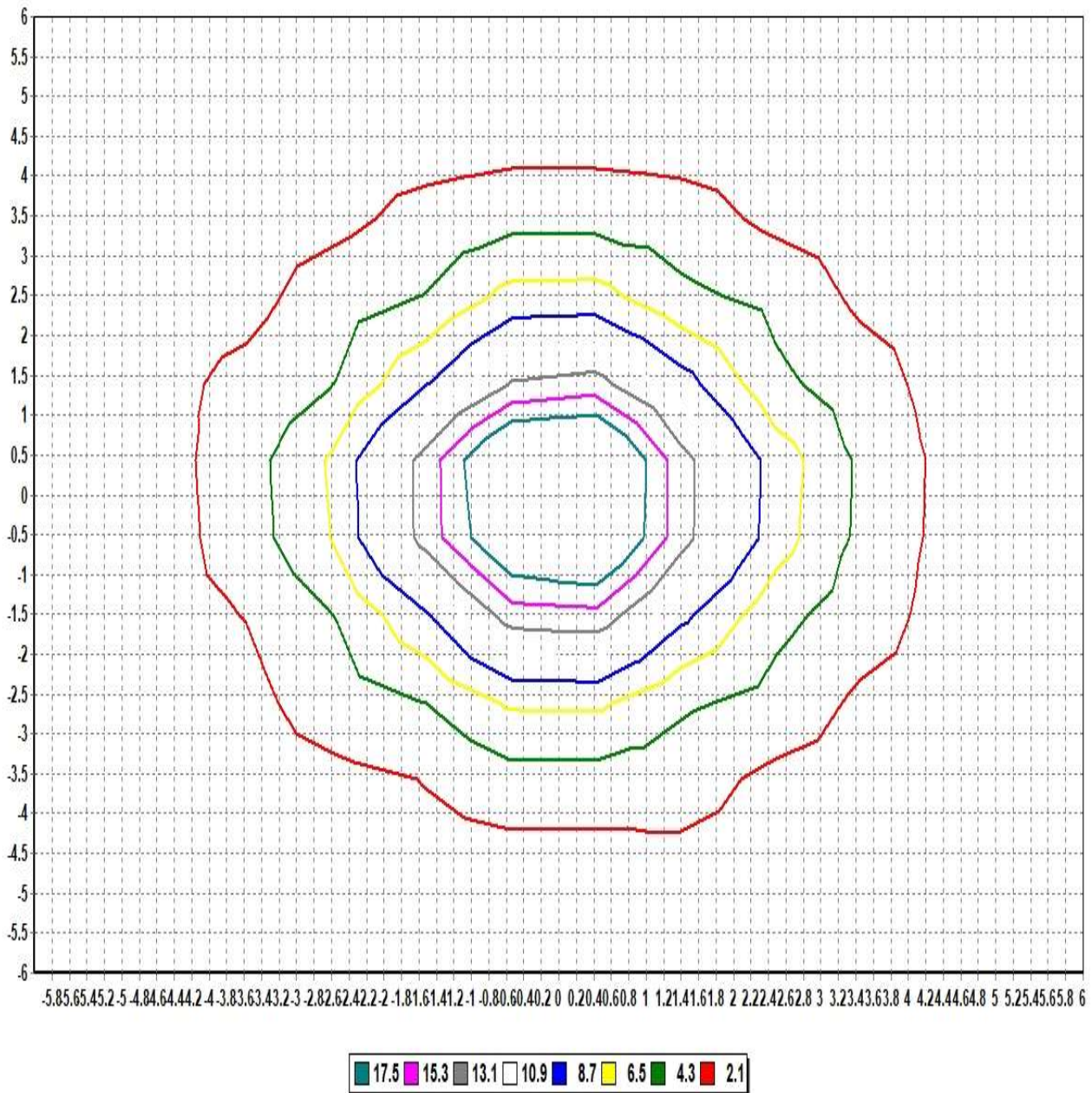
Operator

Total flux (lm) 497

Power Factor 1

Date 2024-05-10 오전 10:09:12

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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Voltage (V) 23.963

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Lamp flux (lm) 497

Current (A) 0.28853

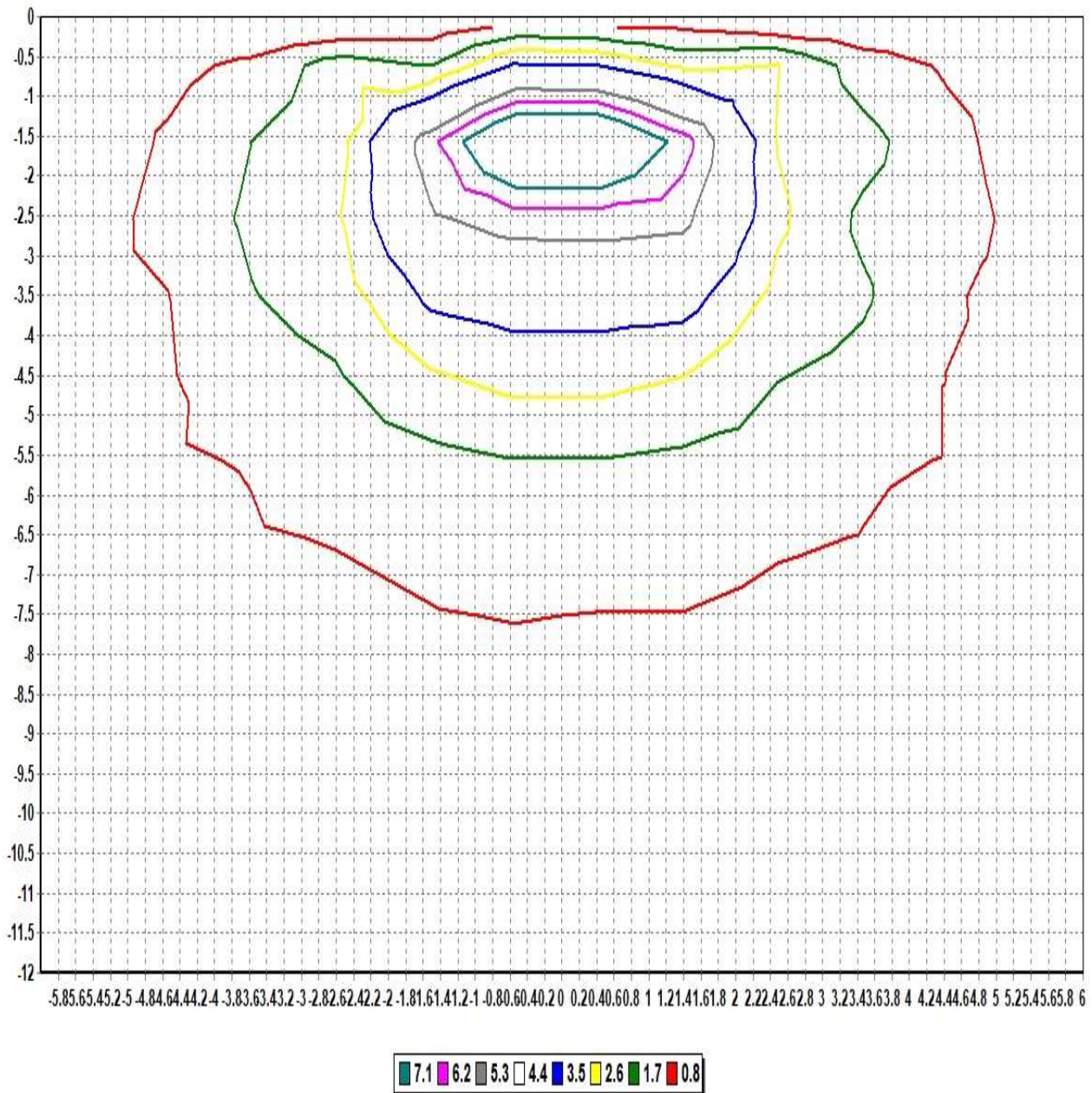
Operator

Total flux (lm) 497

Power Factor 1

Date 2024-05-10 오전 10:09:12

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)	497	Current (A)	0.28853
Total flux (lm)	497	Power Factor	1

Report

KH FEELUX

Filename 240510 FNN2 24K-24V-C90-1M.jdt

Operator

Date

2024-05-10 오전 10:09:12

Illuminance Levels (Ground)

6.00	0.24	0.32	0.25	0.33	0.41	0.50	0.50	0.49	0.45	0.37	0.27	0.34	0.26
5.00	0.31	0.27	0.40	0.56	1.07	1.31	1.36	1.30	1.14	0.59	0.43	0.31	0.35
4.00	0.23	0.37	0.92	1.35	1.36	1.80	1.93	1.80	1.47	1.41	1.00	0.45	0.29
3.00	0.32	0.52	1.32	1.61	3.35	3.65	4.17	3.83	3.45	1.75	1.47	0.63	0.37
2.00	0.40	1.06	1.35	3.29	4.75	7.61	9.20	7.93	5.06	3.55	1.48	1.15	0.46
1.00	0.49	1.30	1.78	3.61	7.59	14.04	19.56	14.46	7.95	3.91	2.01	1.44	0.59
0.00	0.54	1.42	2.03	4.33	9.46	19.67	24.43	19.82	9.60	4.50	2.12	1.48	0.57
-1.00	0.47	1.27	1.77	3.85	7.97	14.39	19.75	14.66	8.27	4.11	2.00	1.42	0.56
-2.00	0.46	1.14	1.48	3.48	4.98	7.98	9.68	8.24	5.19	3.71	1.58	1.22	0.51
-3.00	0.37	0.60	1.42	1.72	3.53	3.90	4.52	4.04	3.59	1.82	1.55	0.70	0.41
-4.00	0.28	0.43	0.98	1.46	1.49	1.95	2.14	1.95	1.57	1.49	1.03	0.50	0.33
-5.00	0.34	0.30	0.45	0.63	1.15	1.39	1.49	1.39	1.20	0.65	0.47	0.33	0.38
-6.00	0.26	0.35	0.29	0.38	0.47	0.56	0.59	0.55	0.50	0.41	0.31	0.36	0.28
-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.) : 24.427

Illum. (Min.) : 0.2326

Illum. (Avg.) : 2.7834

All illuminance level values are in lux.



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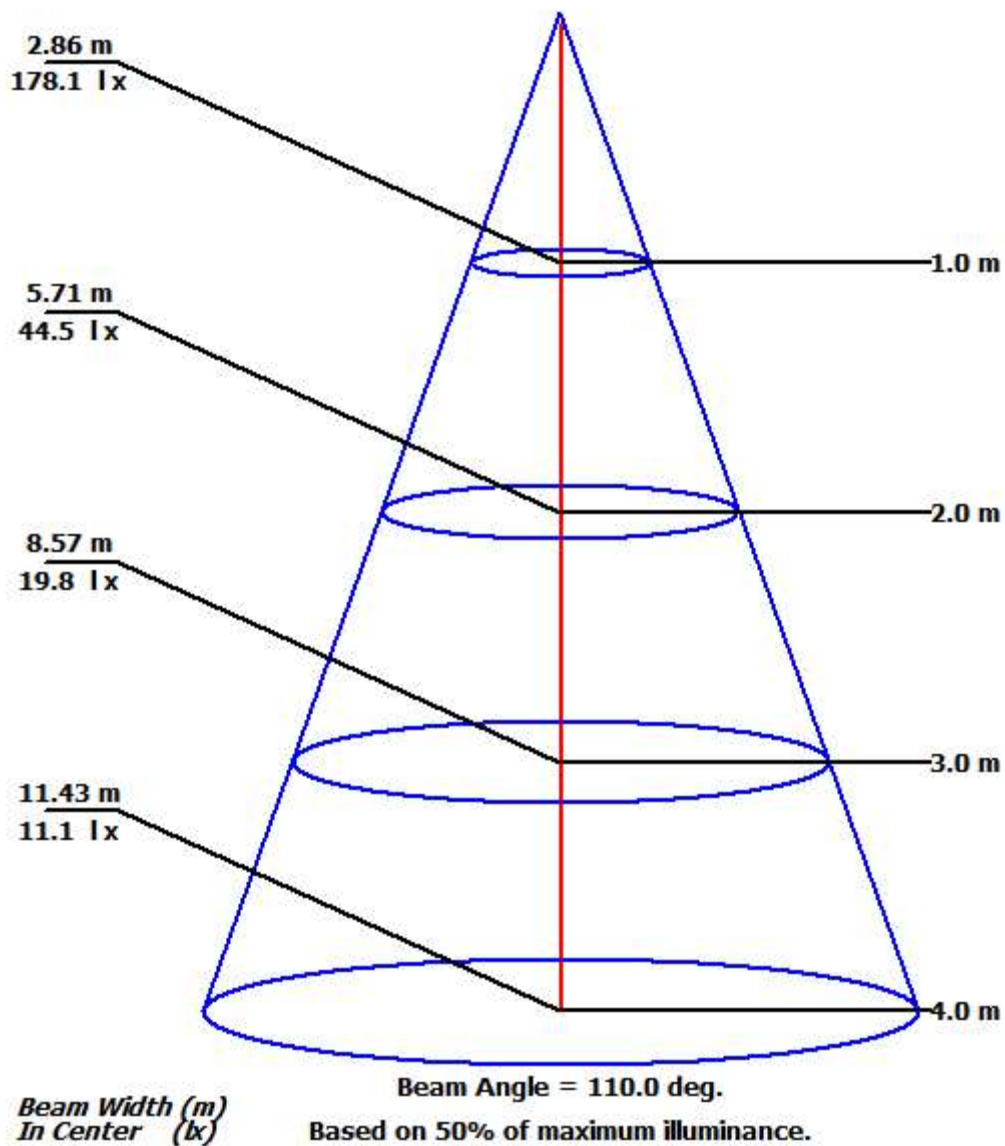
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Illuminance Cone Diagram



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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