

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 27K-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		0.4526 , 0.4003	
Correlated Color Temperature	K	2719	
Ra		91.97	
Power Factor		1.000	
Input Voltage	V	23.963	
Input Current	A	0.287	
Input Watt	W	6.8674	
Lamp Flux	lm	540.1	
Efficient	lm/W	78.65	
luminous Intensity (Max , Center)	cd	195 , 194	
Illuminance	lx	194	1 m
		48	2 m
		22	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 27K-24V-C90-1M.jdt

Lamp flux (lm) 540

Current (A) 0.28658

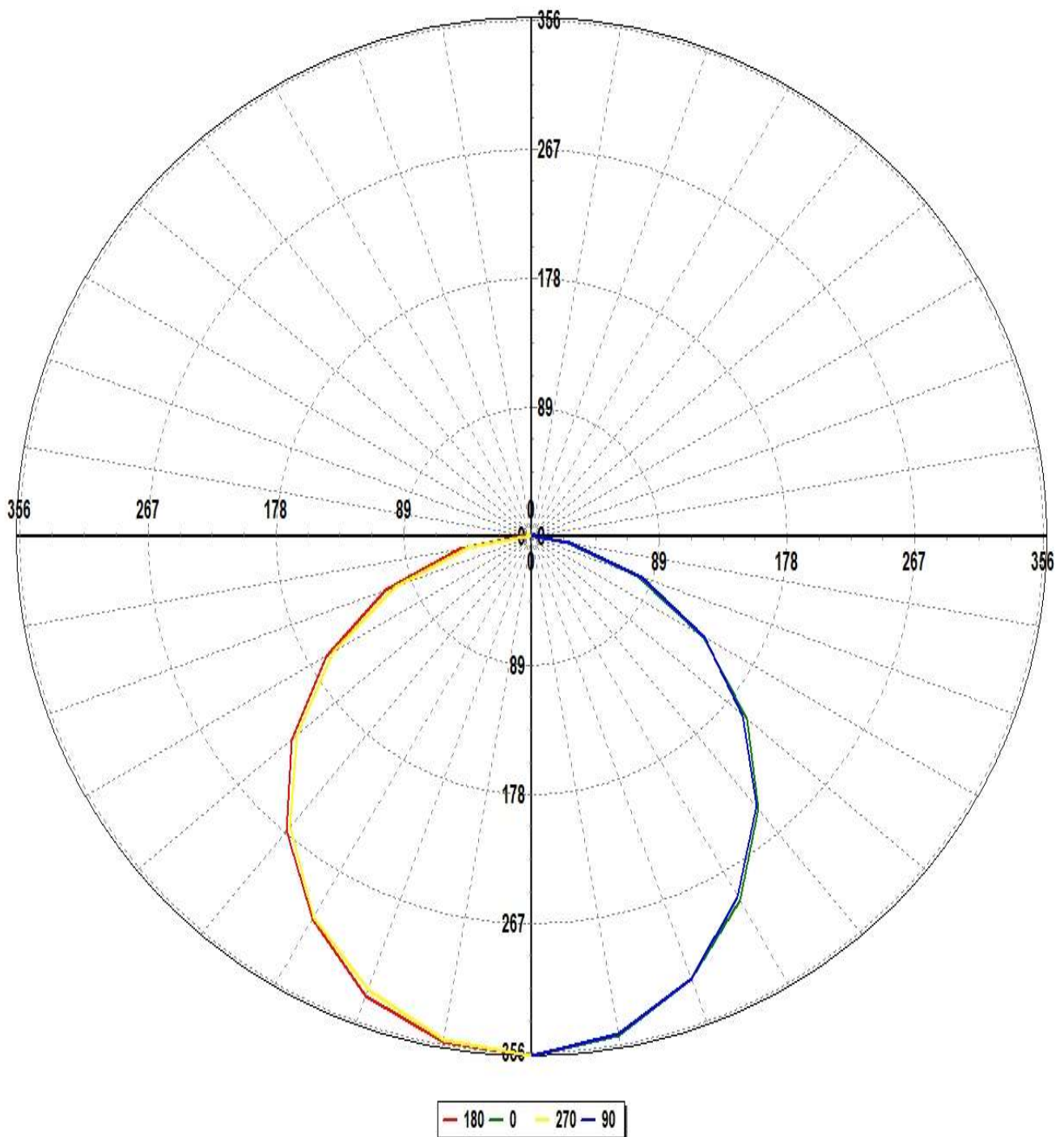
Operator

Total flux (lm) 540

Power Factor 1

Date 2024-05-10 오전 11:19:48

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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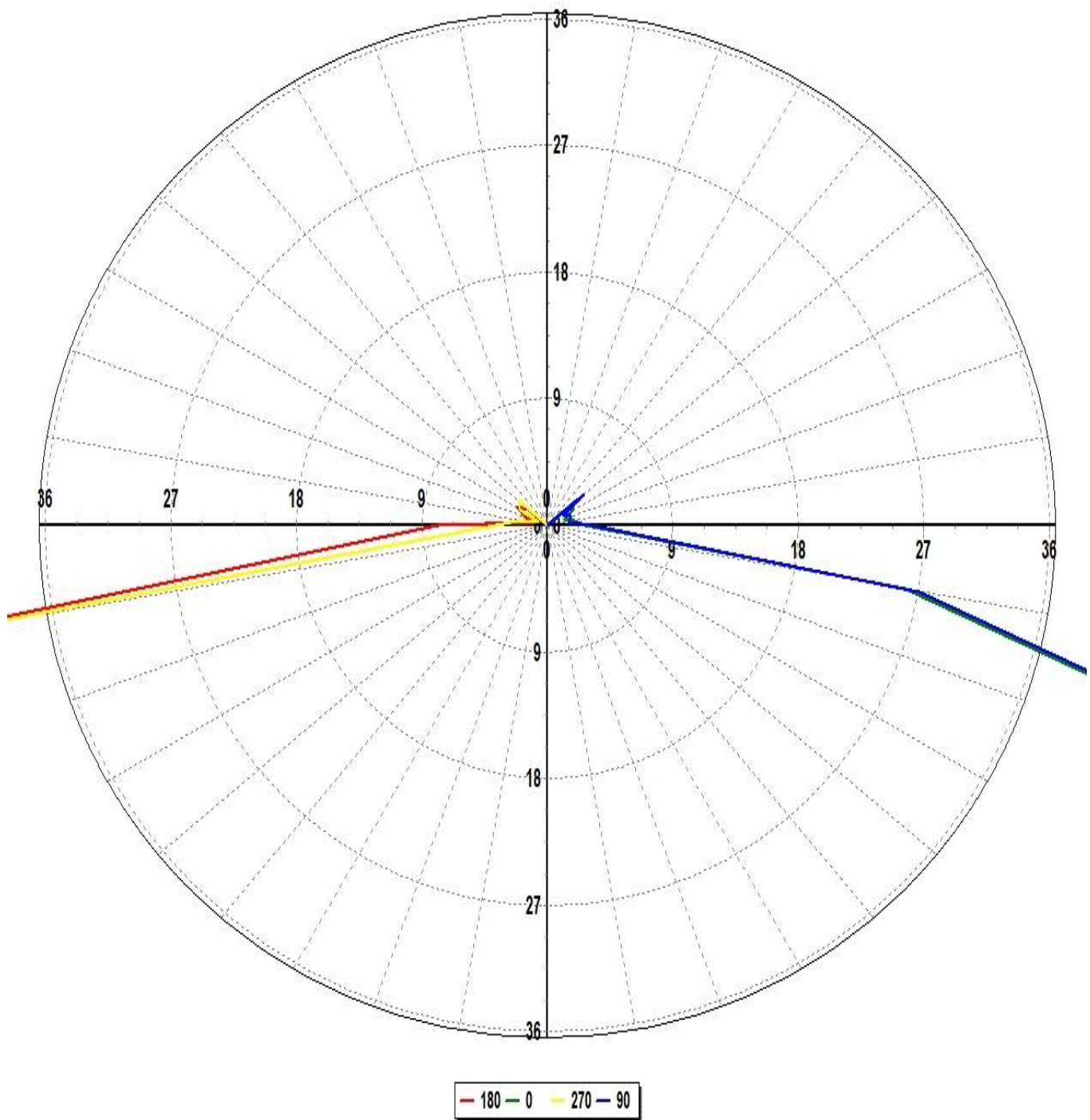
Operator

Total flux (lm) 540

Power Factor 1

Date 2024-05-10 오전 11:19:48

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Lamp flux (lm) 540

Current (A) 0.28658

Operator

Total flux (lm) 540

Power Factor 1

Date 2024-05-10 오전 11:19:48

Luminous Intensity Data

Maximum (cd) : 195

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	193.72	194.41	193.27	193.59	194.52	193.22	193.72	194.41	193.27	193.59	194.52
10	188.89	187.35	187.78	188.14	188.76	188.11	191.4	191.59	190.56	190.5	190.15
20	175.82	174.76	175.2	175.31	176.44	175.78	182.33	181.83	180.61	179.75	179.1
30	156.9	155.2	155.23	154.98	156.7	158.17	164.83	165.6	163.94	163.86	162.65
40	132.55	131.75	131.98	131.38	133.4	134.2	143.41	143.17	141.86	141.17	139.45
50	105.71	103.92	104.01	103.69	107.26	108.89	117.85	118.16	116.18	115.13	113.78
60	74.87	73.49	74.05	75.13	77.74	78.55	88.97	89.36	87.66	86.03	84.28
70	42.58	41.88	42.74	44.08	46.72	48.47	58.33	59	57.33	54.66	53.13
80	14.07	12.9	12.83	14.62	16.87	17.96	27.4	27.51	26.61	24.21	21.75
90	1.47	0.78	1.03	1.68	0.83	0.82	4.23	4.22	3.16	2	2.15
100	1.06	1.12	1.72	0.83	0.26	1.15	0.55	0.81	1.26	1.16	0.71
110	0.71	1.27	0.92	1	1.29	1	0.88	0.48	0.82	0.36	1.17
120	1.14	1.26	0.76	0.69	1.26	0.41	1.37	1.33	1.21	1.24	1.15
130	1.44	1.17	1.39	1.85	0.72	1.46	0.97	0.76	1.81	1.45	0.96

Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 540

Current (A) 0.28658

Operator

Total flux (lm) 540

Power Factor 1

Date 2024-05-10 오전 11:19:48

Luminous Intensity Data (Continued)

Maximum (cd) : 195

Minimum (cd) : 0

G/C	330	360
0	193.22	193.72
10	189.82	188.89
20	180.66	175.82
30	162.89	156.9
40	140.27	132.55
50	114.3	105.71
60	83.19	74.87
70	53.08	42.58
80	21.24	14.07
90	1.39	1.47
100	1.4	1.06
110	0.83	0.71
120	0.99	1.14
130	1.09	1.44

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	23.963	Filename	240510 FNN2 27K-24V-C90-1M.jdt
Lamp flux (lm)	540	Current (A)	0.28658	Operator	
Total flux (lm)	540	Power Factor	1	Date	2024-05-10 오전 11:19:48

Luminous Flux Table

Total Lamp Lumens: 540.13

Luminaire Efficiency (lm/W): 78.65

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	4.63	4.63	0.86	0.86
10	36.03	40.66	7.53	7.53
20	66.73	107.39	19.88	19.88
30	87.66	195.05	36.11	36.11
40	96.48	291.53	53.98	53.97
50	92.91	384.44	71.18	71.18
60	76.93	461.38	85.42	85.42
70	51.63	513.01	94.98	94.98
80	21.39	534.40	98.94	98.94
90	2.17	536.57	99.35	99.34
100	1.08	537.64	99.55	99.54
110	0.92	538.57	99.72	99.71
120	1.01	539.58	99.90	99.90
130	0.55	540.13	100.00	100.00

Luminaire KH FEELUX

Lamp

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KH FEELUX

No. of lamps 1

Voltage (V) 23.963

Filename 240510 FNN2 27K-24V-C90-1M.jdt

Lamp flux (lm) 540

Current (A) 0.28658

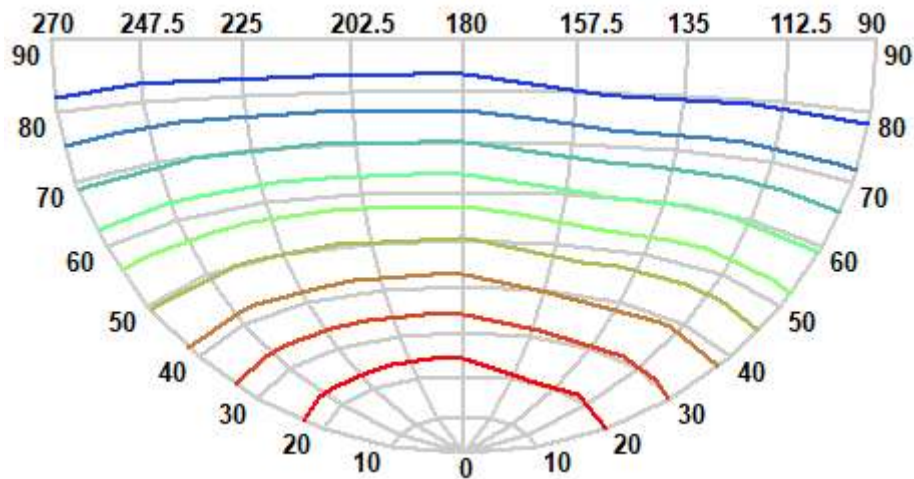
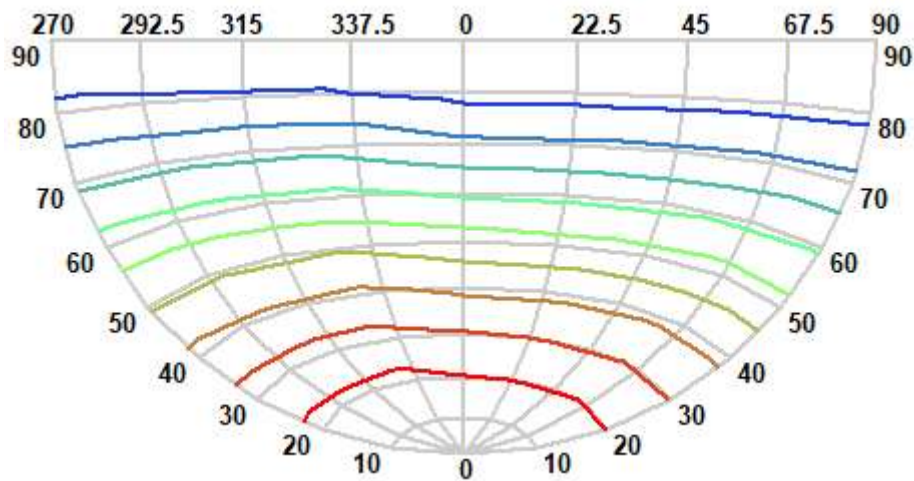
Operator

Total flux (lm) 540

Power Factor 1

Date 2024-05-10 오전 11:19:48

IsoCandela (Type C)



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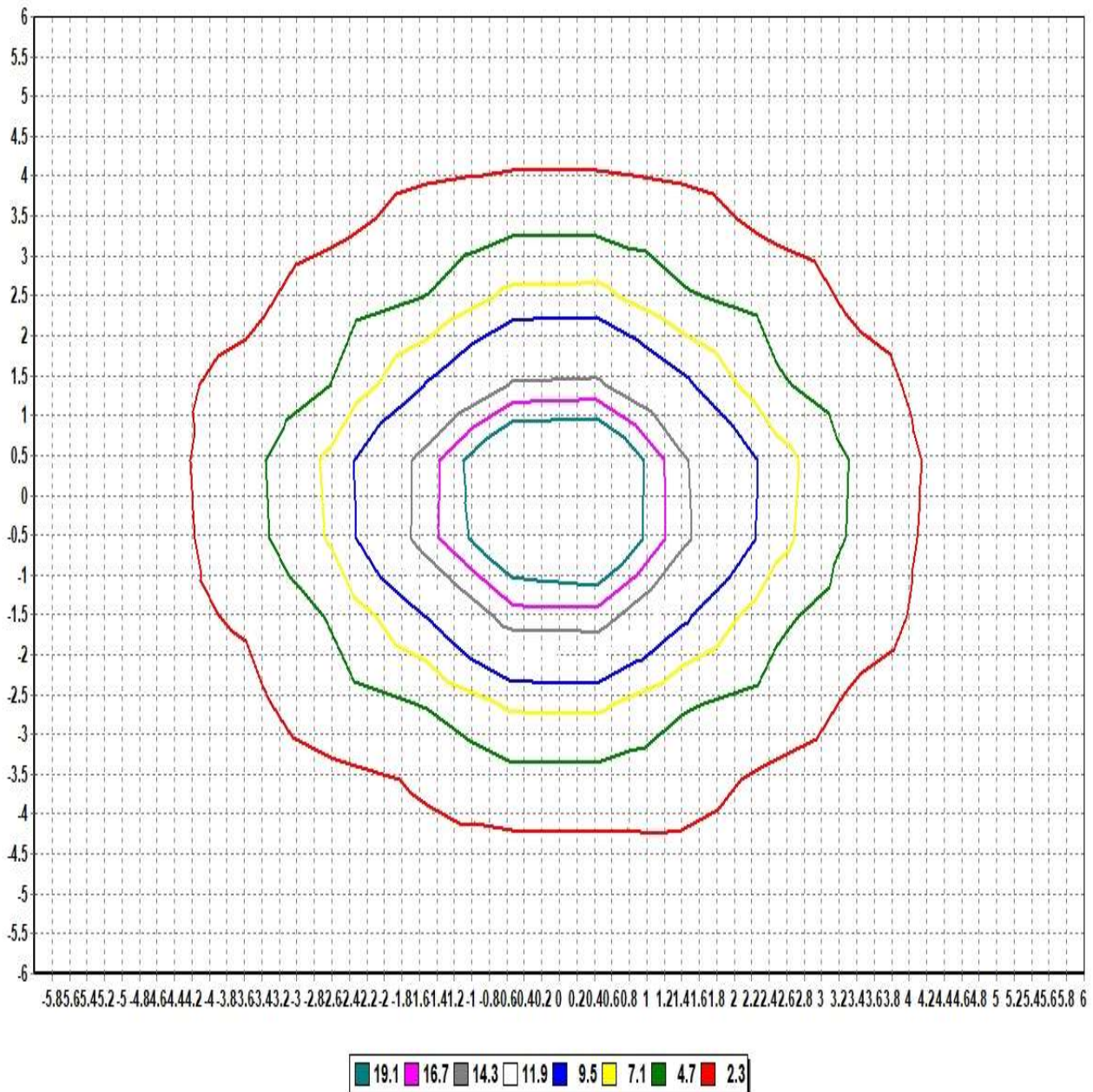
Operator

Total flux (lm) 540

Power Factor 1

Date 2024-05-10 오전 11:19:48

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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Voltage (V) 23.963

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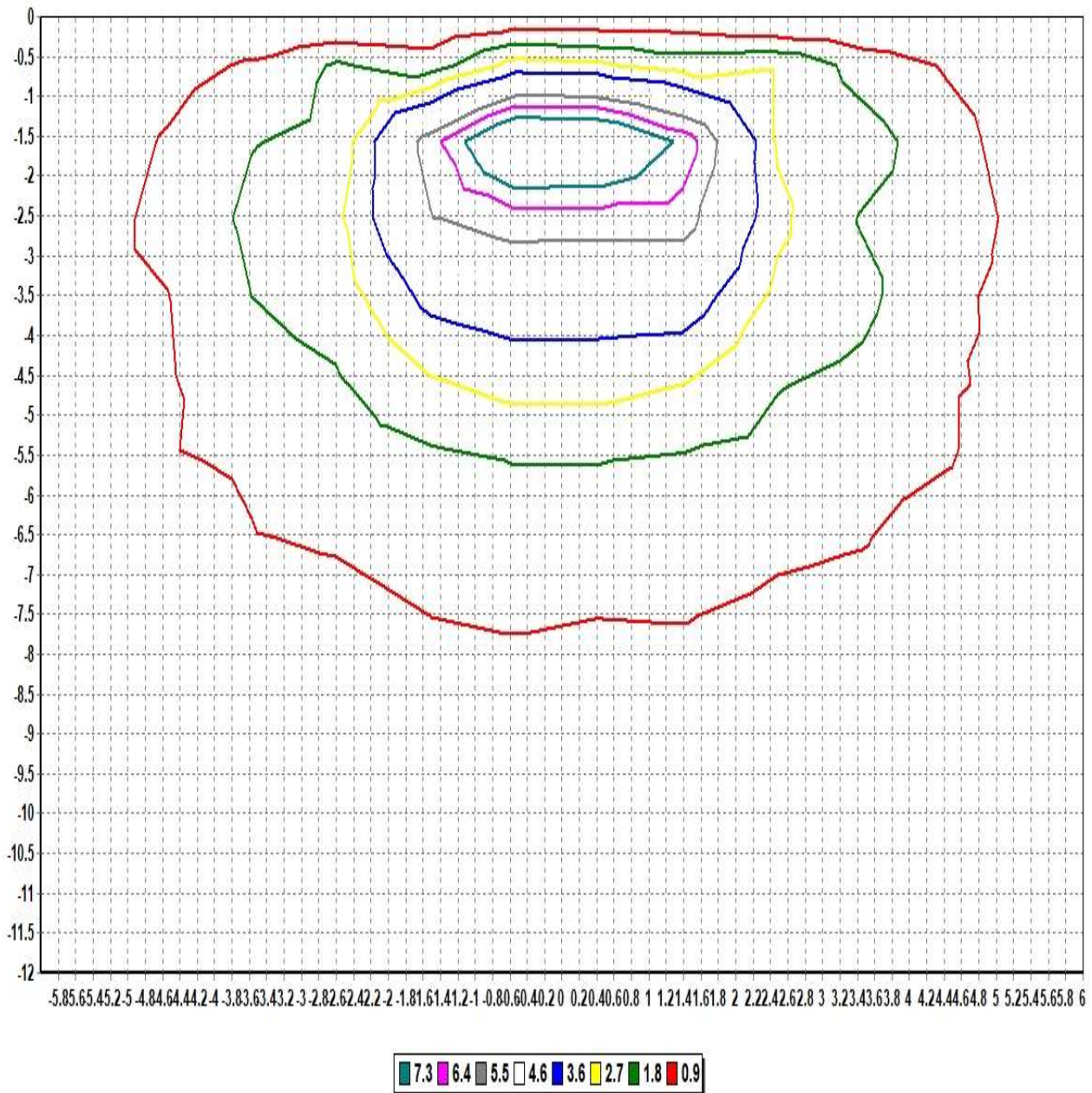
Operator

Total flux (lm) 540

Power Factor 1

Date 2024-05-10 오전 11:19:48

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)	23.963
Lamp flux (lm)	540	Current (A)	0.28658
Total flux (lm)	540	Power Factor	1

Report

KH FEELUX

Filename 240510 FNN2 27K-24V-C90-1M.jdt

Operator

Date

2024-05-10 오전 11:19:48

Illuminance Levels (Ground)

6.00	0.26	0.35	0.27	0.37	0.46	0.51	0.54	0.51	0.43	0.34	0.26	0.34	0.25
5.00	0.36	0.30	0.43	0.60	1.19	1.37	1.46	1.37	1.16	0.59	0.41	0.28	0.34
4.00	0.29	0.46	1.01	1.47	1.53	1.89	2.08	1.90	1.46	1.46	1.00	0.41	0.26
3.00	0.38	0.64	1.52	1.78	3.63	4.03	4.48	3.96	3.64	1.74	1.48	0.59	0.34
2.00	0.47	1.21	1.54	3.72	5.21	8.40	9.93	8.31	5.19	3.66	1.46	1.16	0.43
1.00	0.62	1.52	2.11	4.10	8.42	15.31	21.24	15.31	8.32	3.98	2.01	1.47	0.57
0.00	0.68	1.66	2.42	5.05	10.74	21.62	26.57	21.32	10.04	4.56	2.10	1.48	0.53
-1.00	0.58	1.49	2.10	4.48	9.03	16.13	21.51	15.93	8.80	4.33	2.00	1.44	0.53
-2.00	0.57	1.34	1.75	4.00	5.75	9.01	10.61	8.80	5.60	3.90	1.66	1.28	0.52
-3.00	0.46	0.74	1.67	2.04	3.96	4.46	4.94	4.34	3.92	1.96	1.61	0.69	0.42
-4.00	0.36	0.54	1.15	1.65	1.75	2.17	2.35	2.17	1.66	1.62	1.11	0.50	0.32
-5.00	0.41	0.38	0.54	0.73	1.33	1.54	1.62	1.54	1.29	0.71	0.51	0.35	0.39
-6.00	0.31	0.41	0.35	0.46	0.56	0.62	0.64	0.63	0.53	0.42	0.33	0.39	0.30
-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.) : 26.574

Illum. (Min.) : 0.2550

Illum. (Avg.) : 3.0274

All illuminance level values are in lux.



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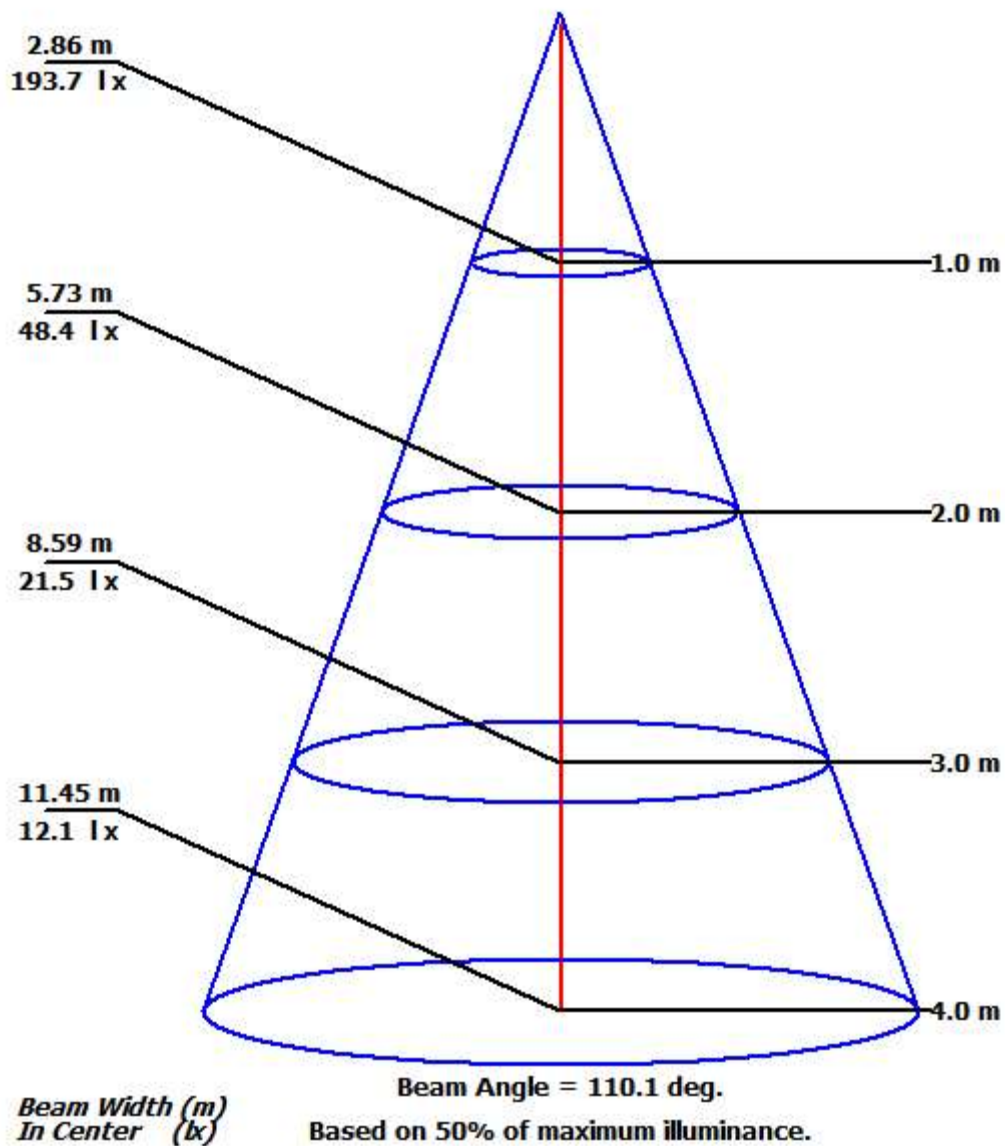
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Power Factor 1

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Illuminance Cone Diagram



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Total flux (lm)	540	Power Factor	1

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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