

TEST REPORT

1. Applicant

* Client Name : KH-FEELUX Co. Ltd.
* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-si Gyeonggi-do 482-844 Korea
* Date of Receipt : 220120

2. Purpose of Report :**3. Number of Report :** 220120**4. Test Standard / Item :** / FTS10 24K-24V-C90-1M**5. Test Period :** 220120 ~ 220120**6. Test Environment**

* Ambient Temp. : 23.0 +- 3 °C
* Relative Humidity : 25.0 +- 10 % RH

7. Test Item

* Name of Product :
* Rating :
* Model :

8. Test Result : Refer to the attachment

Confirmation	Test by		Technical manager	
	YKI	Sign	YKI	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
220120			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4938 , 0.4236	
Correlated Color Temperature	K	2376	
Ra		94.98	
Power Factor		1.000	
Input Voltage	V	23.952	
Input Current	A	0.378	
Input Watt	W	9.054	
Lamp Flux	lm	671.2	
Efficient	lm/W	74.13	
luminous Intensity (Max , Center)	cd	245 , 243	
Illuminance	lx	243	1 m
		61	2 m
		27	3 m

* This test result is for the sample provided by the client.

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

220120

No. of lamps 1

Voltage (V) 23.952

Filename FTS10 24K-24V-C90-1M.jdt

Lamp flux (lm) 671

Current (A) 0.378

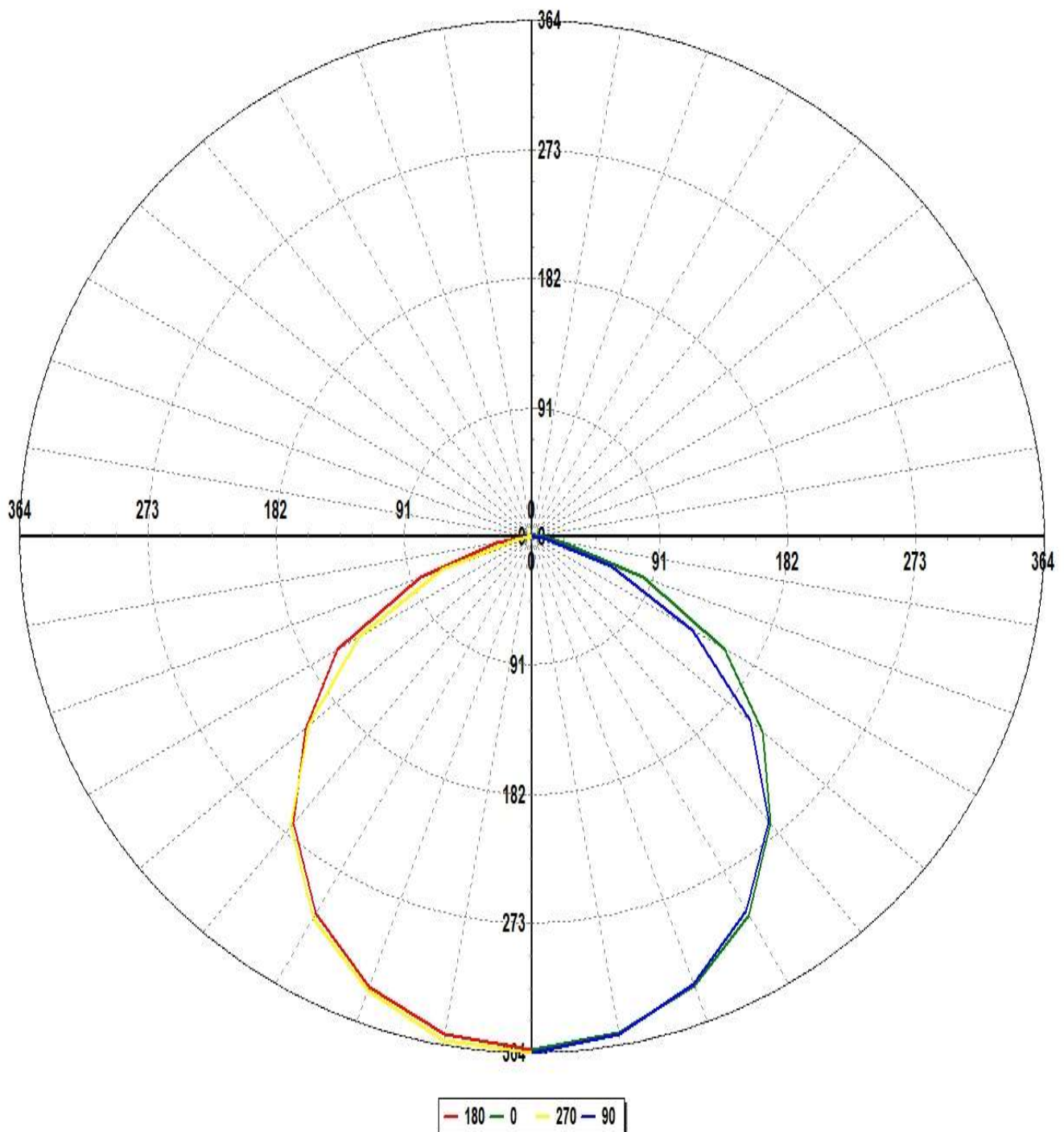
Operator YKI

Total flux (lm) 671

Power Factor 1

Date 2022-01-20 오후 5:15:29

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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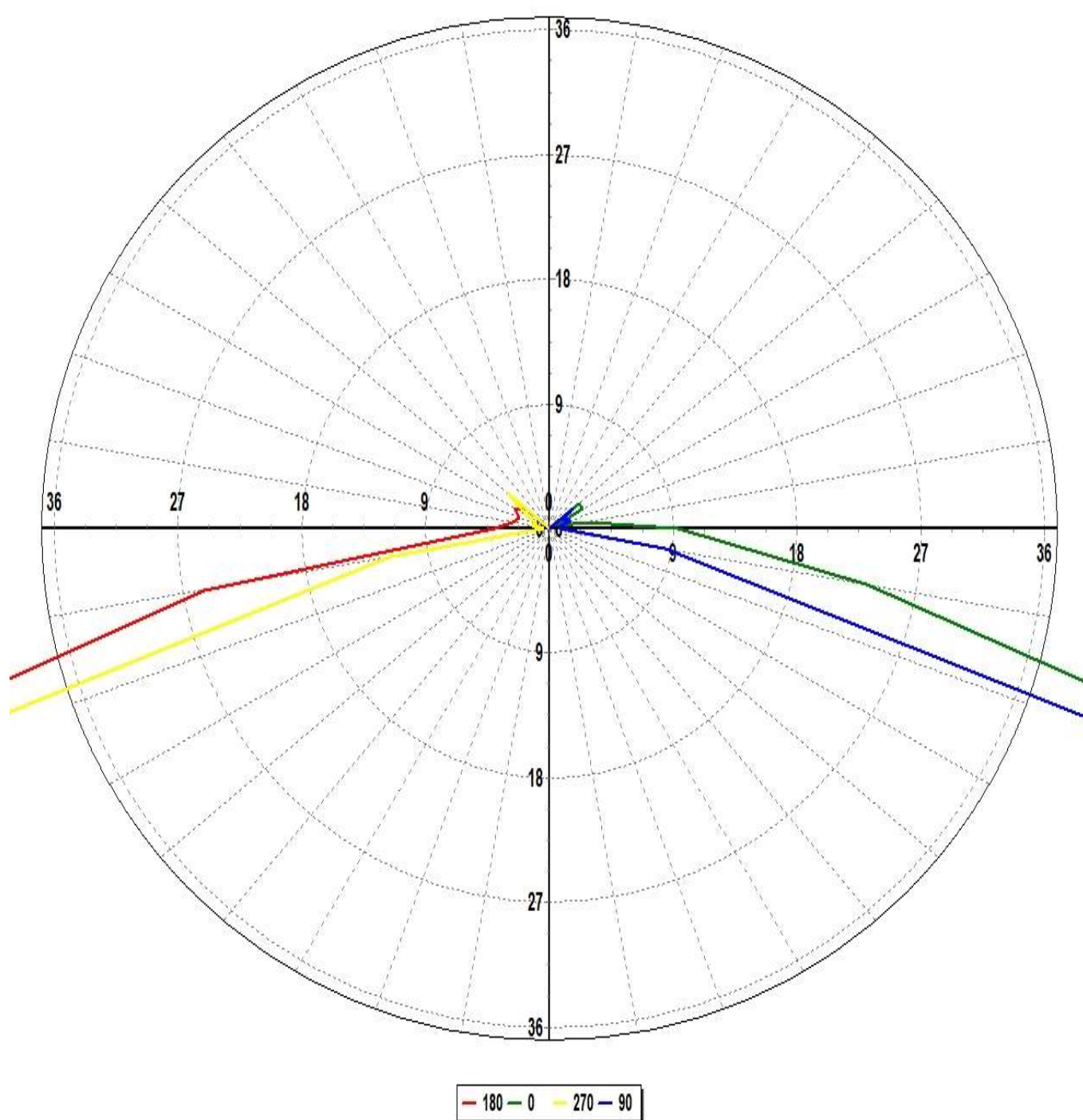
Operator YKI

Total flux (lm) 671

Power Factor 1

Date 2022-01-20 오후 5:15:29

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 671 Current (A) 0.378

Operator YKI

Total flux (lm) 671 Power Factor 1

Date 2022-01-20 오후 5:15:29

Luminous Intensity Data

Maximum (cd) : 245

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	243.14	243.45	243.48	244.67	244.94	244.8	243.14	243.45	243.48	244.67	244.94
10	238.9	240.01	238.88	239.61	239.09	239.34	239.67	240.5	240.26	242.38	240.72
20	226.82	226.31	225.79	225.55	226.47	225.41	227.07	228.39	226.07	229.14	228.45
30	206.76	204.52	205.13	204.99	203.97	204.15	206.7	208.73	207.37	208.83	209.89
40	176.84	176.85	176.41	175.94	174.53	172.4	176.9	178.65	179.25	179.18	181.35
50	143.78	141.07	140.81	136	139.12	136.24	141.37	142.46	143.91	138.94	145.28
60	106.42	103.12	99.36	88.55	96.62	98.28	107.24	104.81	102.24	95.29	105.69
70	56.46	57.24	55.38	40.2	51.65	52.14	56.85	59.21	57.5	45.72	60.63
80	15.68	16.69	17.24	5.74	15.66	15.25	17.11	18.44	19.36	7.86	21.21
90	6.26	5.05	3.13	0.55	2.04	3.43	2.67	2.63	1.62	0.31	3.52
100	1.93	1.76	0.82	0.46	1.37	1.82	1.84	2.35	0.93	0.83	0.93
110	0.39	1.26	1.08	1.13	1.23	1.2	1.55	1.3	1.11	0.66	1.27
120	1.89	1.97	1.02	0.73	1.16	1.44	1.97	0.78	1.74	1.28	1.46
130	1.83	2.24	1.47	1.52	2.05	1.82	1.43	1.1	1.45	2.66	1.73

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Power Factor 1

Date 2022-01-20 오후 5:15:29

Luminous Intensity Data (Continued)

Maximum (cd) : 245

Minimum (cd) : 0

G/C	330	360
0	244.8	243.14
10	241.36	238.9
20	229.15	226.82
30	209.25	206.76
40	181.81	176.84
50	148.29	143.78
60	108.29	106.42
70	65.85	56.46
80	20.53	15.68
90	5.77	6.26
100	1.75	1.93
110	1.28	0.39
120	1.11	1.89
130	1.93	1.83

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Luminous Flux Table

Total Lamp Lumens: 671.24

Luminaire Efficiency (lm/W): 74.14

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	5.84	5.84	0.87	0.87
10	45.66	51.49	7.67	7.67
20	85.05	136.54	20.34	20.34
30	113.19	249.73	37.21	37.20
40	124.97	374.70	55.83	55.82
50	118.67	493.36	73.50	73.50
60	96.11	589.47	87.82	87.82
70	56.51	645.98	96.24	96.24
80	17.15	663.12	98.80	98.79
90	3.38	666.50	99.30	99.29
100	1.51	668.01	99.52	99.52
110	1.15	669.16	99.70	99.69
120	1.31	670.47	99.89	99.89
130	0.77	671.24	100.01	100.00

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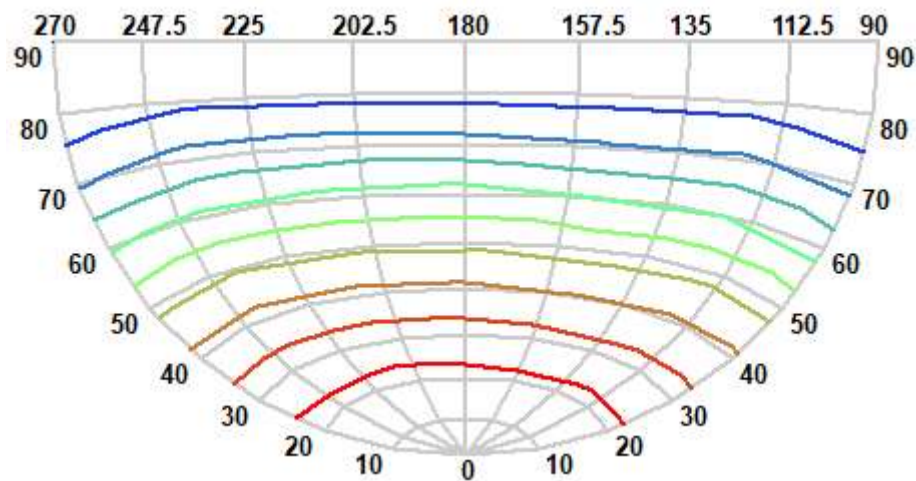
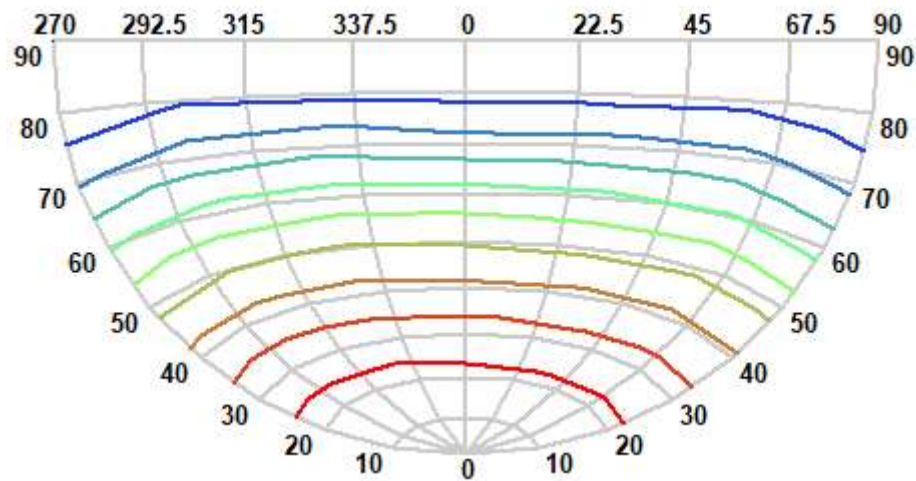
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Power Factor 1

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IsoCandela (Type C)



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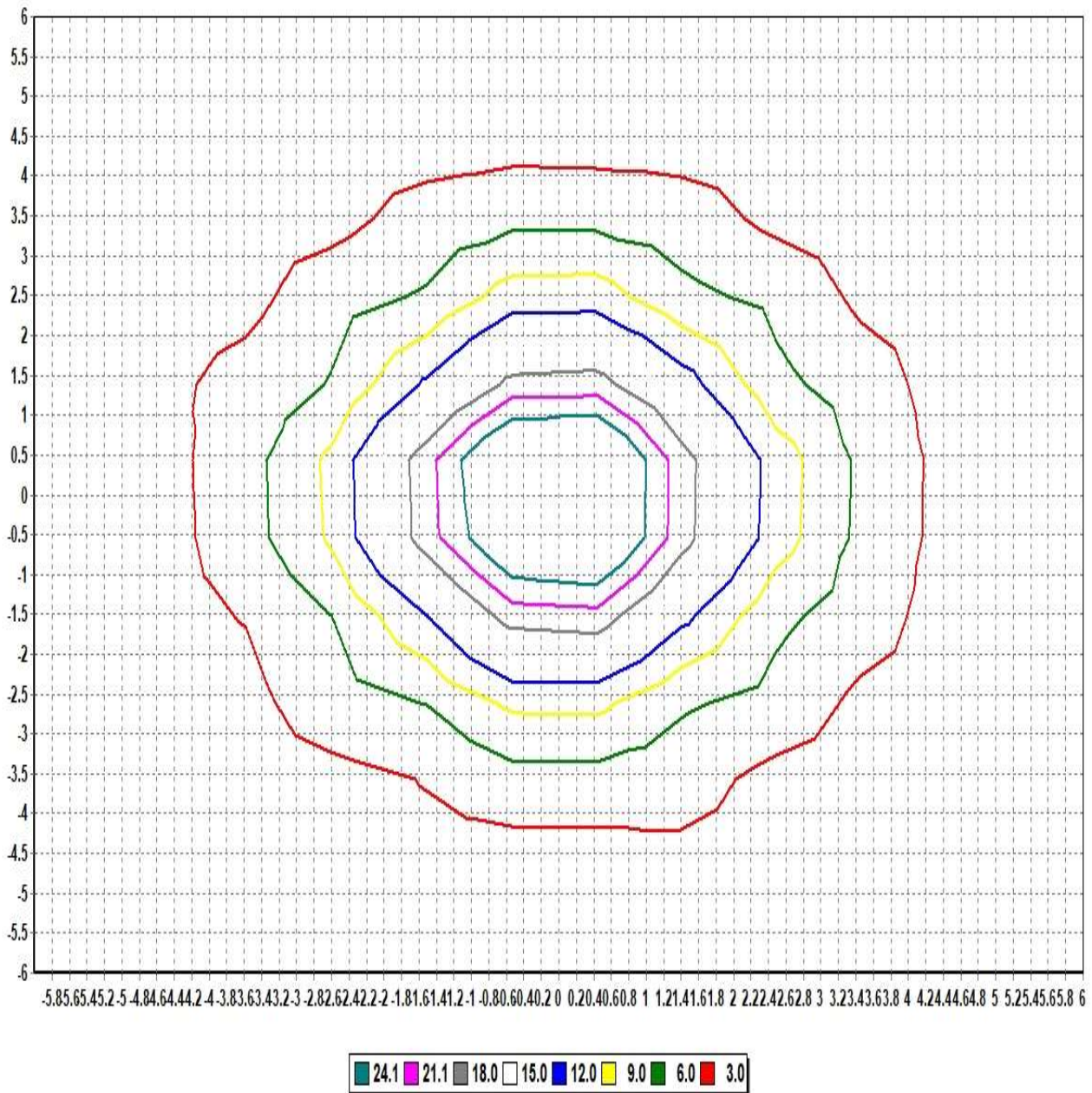
Operator YKI

Total flux (lm) 671

Power Factor 1

Date 2022-01-20 오후 5:15:29

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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Current (A) 0.378

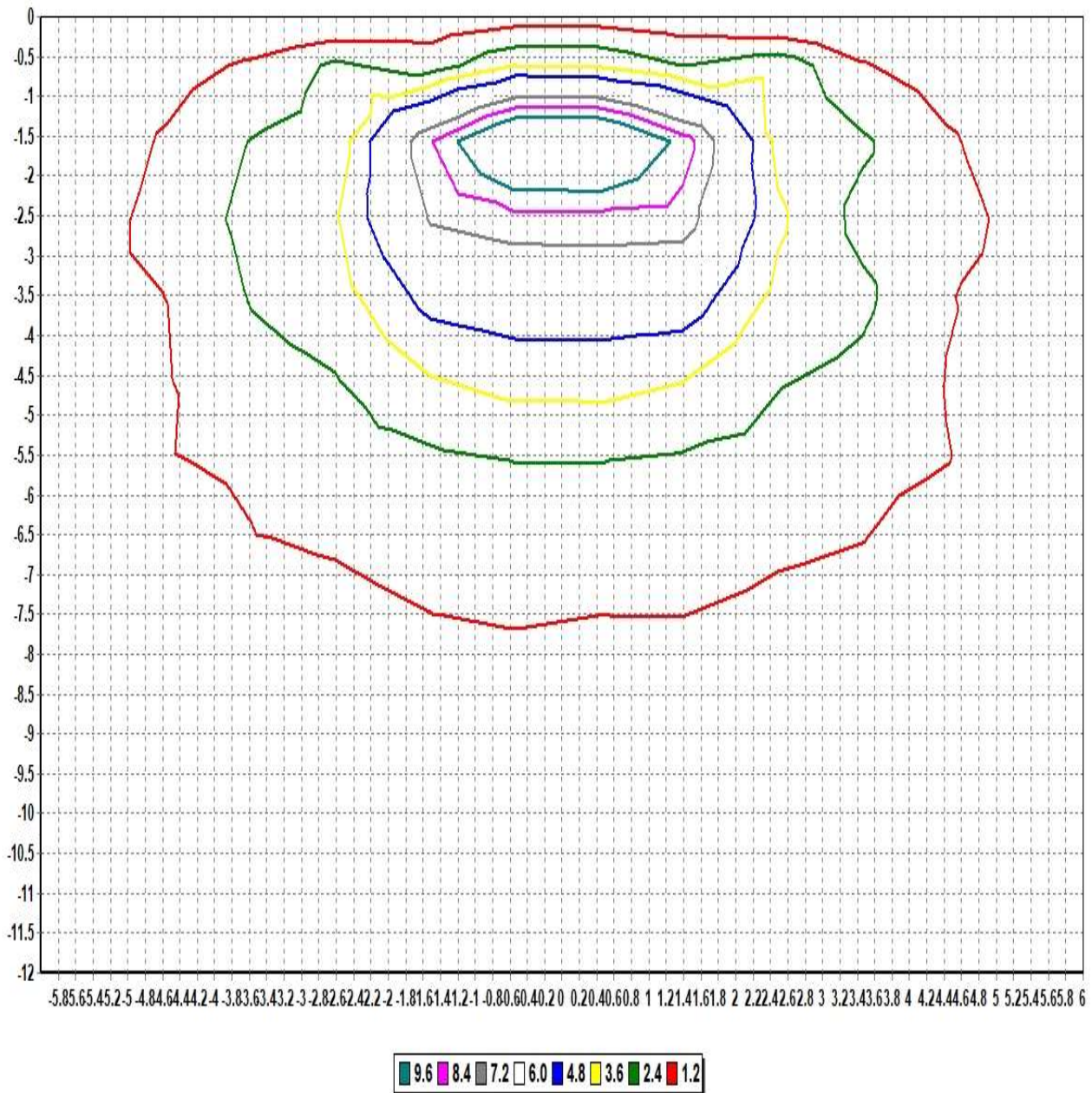
Operator YKI

Total flux (lm) 671

Power Factor 1

Date 2022-01-20 오후 5:15:29

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)	23.952
Lamp flux (lm)	671	Current (A)	0.378
Total flux (lm)	671	Power Factor	1

Report	220120
Filename	FTS10 24K-24V-C90-1M.jdt
Operator	YKI
Date	2022-01-20 오후 5:15:29

Illuminance Levels (Ground)

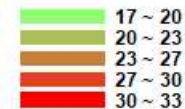
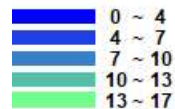
6.00	0.31	0.42	0.26	0.42	0.51	0.63	0.57	0.58	0.59	0.47	0.34	0.46	0.36
5.00	0.45	0.31	0.46	0.65	1.53	1.82	1.89	1.80	1.58	0.78	0.55	0.38	0.48
4.00	0.32	0.52	1.29	1.90	1.90	2.45	2.59	2.44	2.03	1.98	1.38	0.57	0.35
3.00	0.43	0.76	1.92	2.20	4.82	5.25	5.91	5.36	4.88	2.42	2.02	0.82	0.47
2.00	0.55	1.54	1.92	4.76	6.84	11.02	13.24	11.14	7.00	4.91	2.04	1.59	0.60
1.00	0.68	1.86	2.58	5.25	10.99	19.98	27.05	20.08	11.15	5.40	2.70	1.95	0.74
0.00	0.74	2.00	2.91	6.10	13.33	27.07	33.35	26.98	13.33	6.17	2.92	2.03	0.74
-1.00	0.66	1.83	2.57	5.40	11.25	20.26	27.37	20.40	11.43	5.56	2.70	1.93	0.72
-2.00	0.61	1.60	2.07	4.90	7.00	11.27	13.49	11.42	7.05	5.05	2.09	1.64	0.63
-3.00	0.48	0.83	2.00	2.44	4.96	5.44	6.03	5.43	4.93	2.35	2.08	0.88	0.50
-4.00	0.35	0.58	1.38	2.01	2.06	2.53	2.71	2.54	2.06	1.96	1.35	0.62	0.40
-5.00	0.49	0.39	0.57	0.81	1.60	1.85	1.94	1.87	1.60	0.71	0.51	0.36	0.49
-6.00	0.36	0.47	0.36	0.48	0.60	0.63	0.63	0.66	0.58	0.48	0.30	0.45	0.34
-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.) : 33.353

Illum. (Min.) : 0.2610

Illum. (Avg.) : 3.8471

All illuminance level values are in lux.



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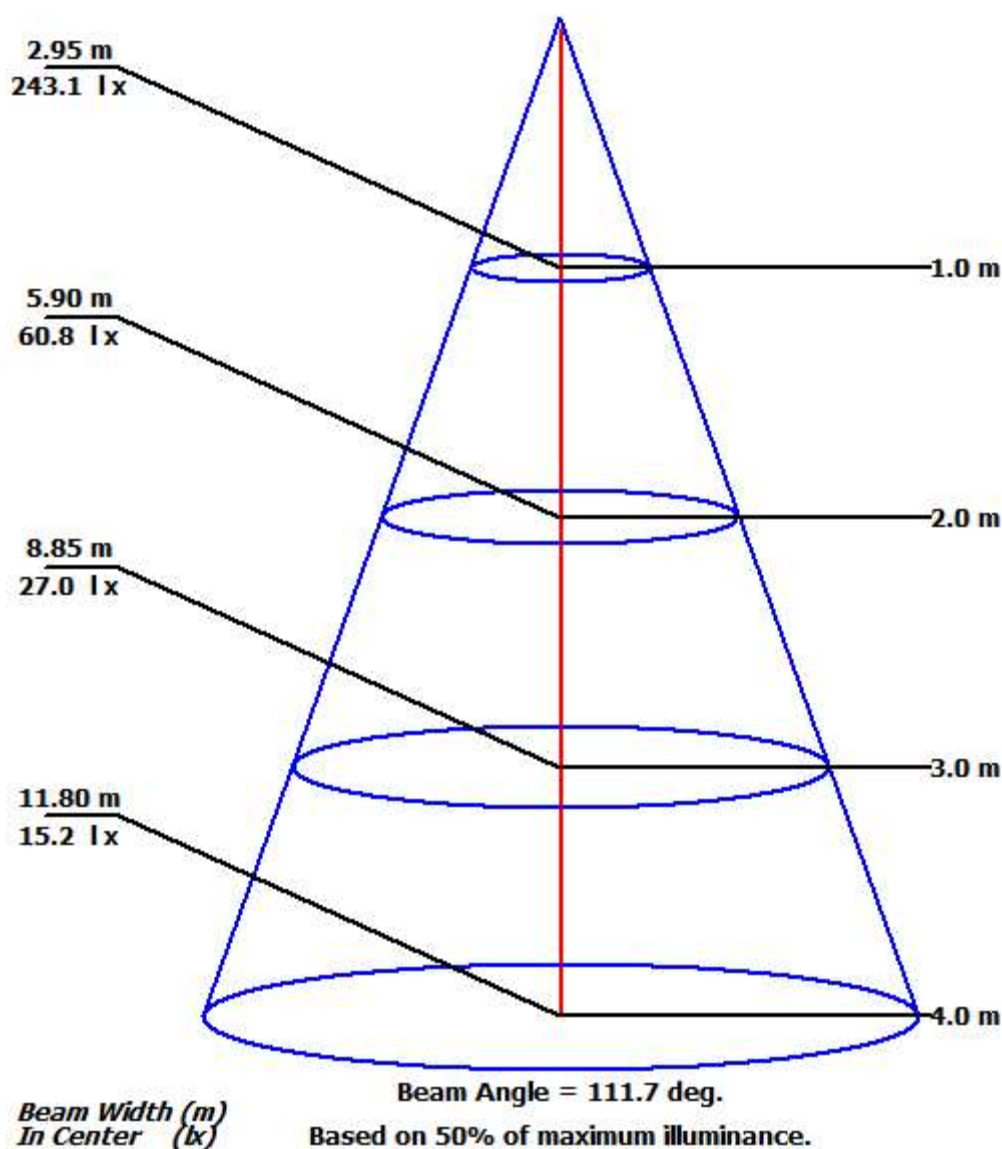
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Illuminance Cone Diagram



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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