

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844
* Date of Receipt : 230608

2. Purpose of Report :**3. Number of Report :** 230608**4. Test Standard / Item :** / 230608 FNL3D 24K C90 1m 20도**5. Test Period :** 230607 ~ 230608**6. Test Environment**

* Ambient Temp. : 22.0 +- 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	
	PKW	Sign	PKW	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
230608			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4833 , 0.4185	
Correlated Color Temperature	K	2456	
Ra		90.7	
Power Factor		1.000	
Input Voltage	V	23.909	
Input Current	A	0.792	
Input Watt	W	18.946	
Lamp Flux	lm	1361.6	
Efficient	lm/W	71.87	
luminous Intensity (Max , Center)	cd	3542 , 3542	
Illuminance	lx	3542	1 m
		885	2 m
		394	3 m

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

230608

No. of lamps 1

Voltage (V) 23.909

Filename 230608 FNL3D 24K C90 1m 20도.jdt

Lamp flux (lm) 1362

Current (A) 0.7924

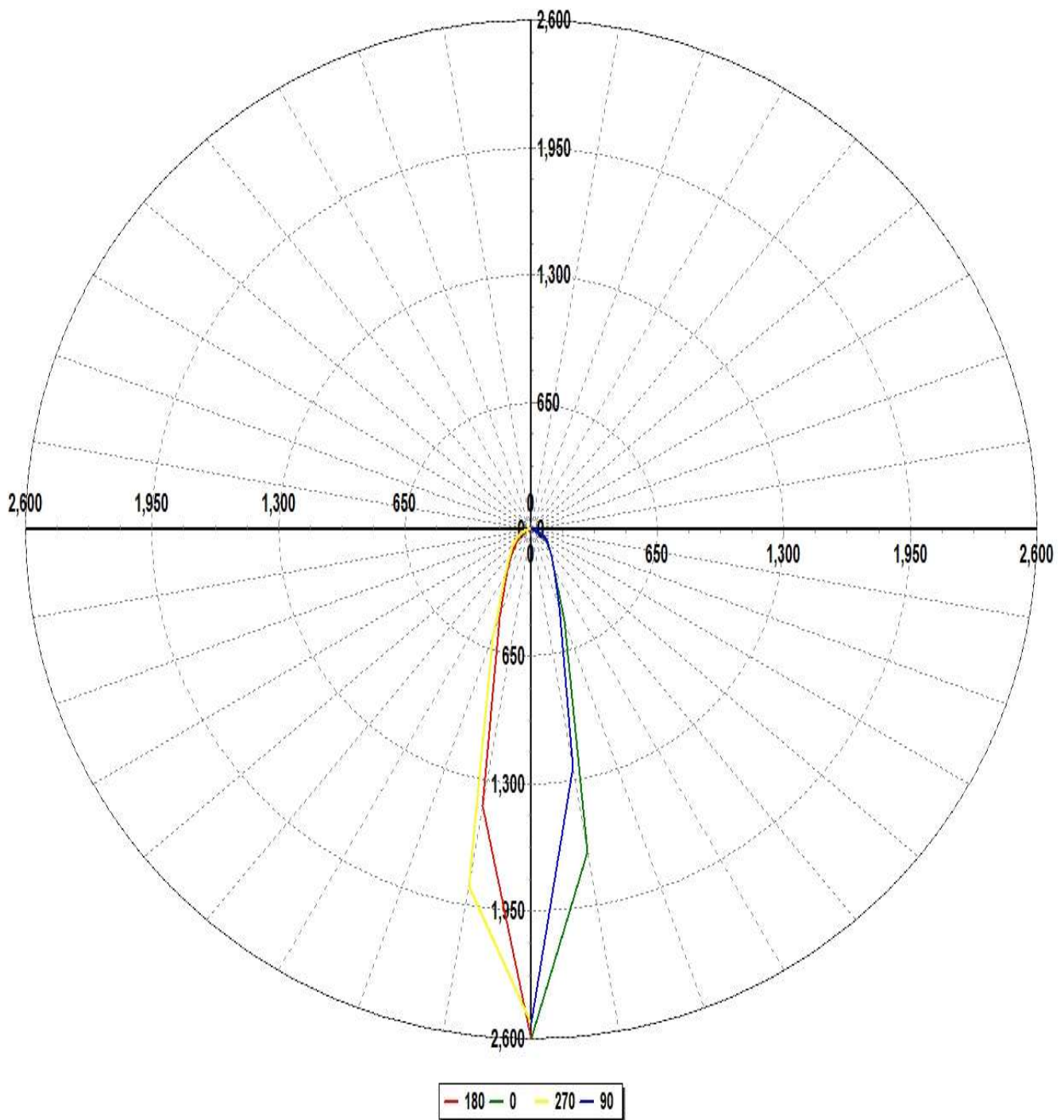
Operator

Total flux (lm) 1362

Power Factor 1

Date 2023-06-08 오전 11:27:55

Luminous Intensity Distribution



Luminaire KH FEELUX

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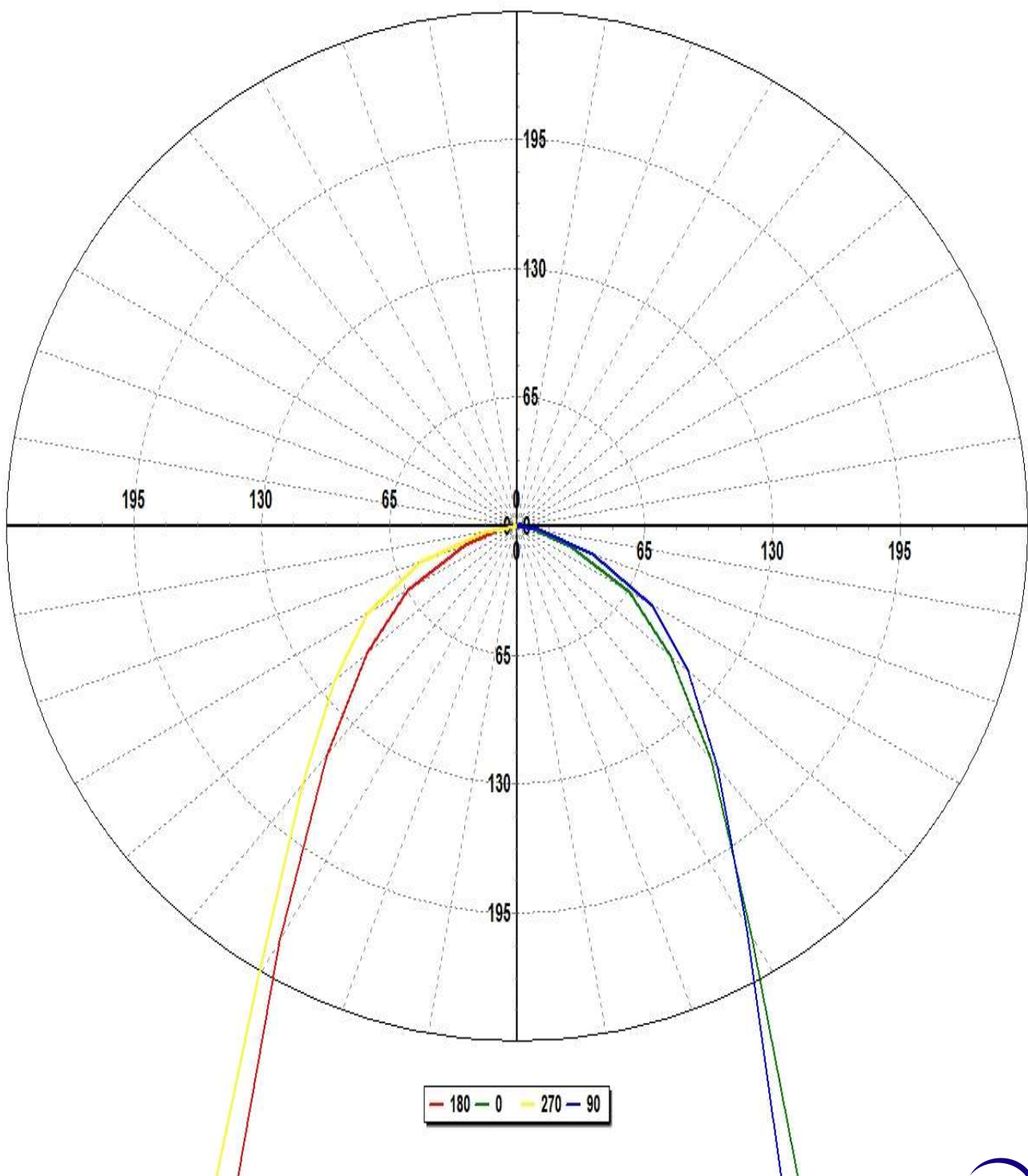
Operator

Total flux (lm) 1362

Power Factor 1

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Luminous Intensity Distribution (Lowest 10%)



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Power Factor 1

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Luminous Intensity Data

Maximum (cd) : 3542

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	3541.89	3506.38	3471.16	3433.44	3415.69	3375.36	3541.89	3506.38	3471.16	3433.44
10	2276.45	1795.01	2134.31	1683.4	2028.16	1582.59	1955.62	2439.06	2052.42	2515.4
20	675.61	595.56	652.35	572.98	623.1	536.89	650.65	762.27	701.25	794.36
30	324.22	321.96	325.63	317.61	313.92	297.02	329.5	343.99	353.04	359.55
40	209.23	210.71	219.49	216.77	212.07	192.56	205.28	214.38	225.85	231.54
50	138.36	139.9	152.01	153.92	146.88	128.89	135.36	142.27	158.89	165.06
60	89.33	91.1	98.18	108.49	94.91	83.2	87.54	95.13	107.05	120.16
70	39.59	44.1	54.01	56.01	51.49	36.2	38.39	47.55	60.14	70.94
80	11.51	11.81	14.58	15.1	12.85	9.57	12.06	13.05	19.07	23.1
90	1.61	1.24	0.37	0.23	0.66	0.92	0.86	0.99	1.31	0.76
100	1.12	1.65	1.35	1.34	0.86	1.13	0.74	0.11	0.91	1.09
110	1.44	1.97	1.55	1.98	1.94	1.25	0.45	1.61	1.46	1.37
120	1.83	2.63	1.6	2.18	1.58	2.2	1.9	1.68	2.22	2.32
130	3.27	3.41	3.41	3.8	3.57	3.04	3.69	3.21	3.21	2.89

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Luminous Intensity Data (Continued)

Maximum (cd) : 3542

Minimum (cd) : 0

G/C	300	330	360
0	3415.69	3375.36	3541.89
10	2106.41	2619.34	2276.45
20	704.75	802.73	675.61
30	355.55	356.48	324.22
40	230.23	225.86	209.23
50	159.67	150.2	138.36
60	106.9	100.61	89.33
70	61.8	54.7	39.59
80	20.54	17.03	11.51
90	1.26	2.59	1.61
100	0.37	-0.33	1.12
110	1.28	0.62	1.44
120	1.39	1.91	1.83
130	2.82	2.49	3.27

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Luminous Flux Table

Total Lamp Lumens: 1361.6

Luminaire Efficiency (lm/W): 71.87

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	82.66	82.66	6.07	6.07
10	399.20	481.86	35.39	35.39
20	251.99	733.85	53.90	53.90
30	182.47	916.32	67.30	67.30
40	152.18	1068.50	78.47	78.48
50	123.85	1192.35	87.57	87.57
60	93.47	1285.83	94.43	94.44
70	52.74	1338.56	98.31	98.31
80	16.20	1354.77	99.50	99.50
90	1.17	1355.94	99.58	99.59
100	0.93	1356.86	99.65	99.65
110	1.45	1358.31	99.76	99.76
120	1.85	1360.17	99.89	99.90
130	1.41	1361.57	100.00	100.00

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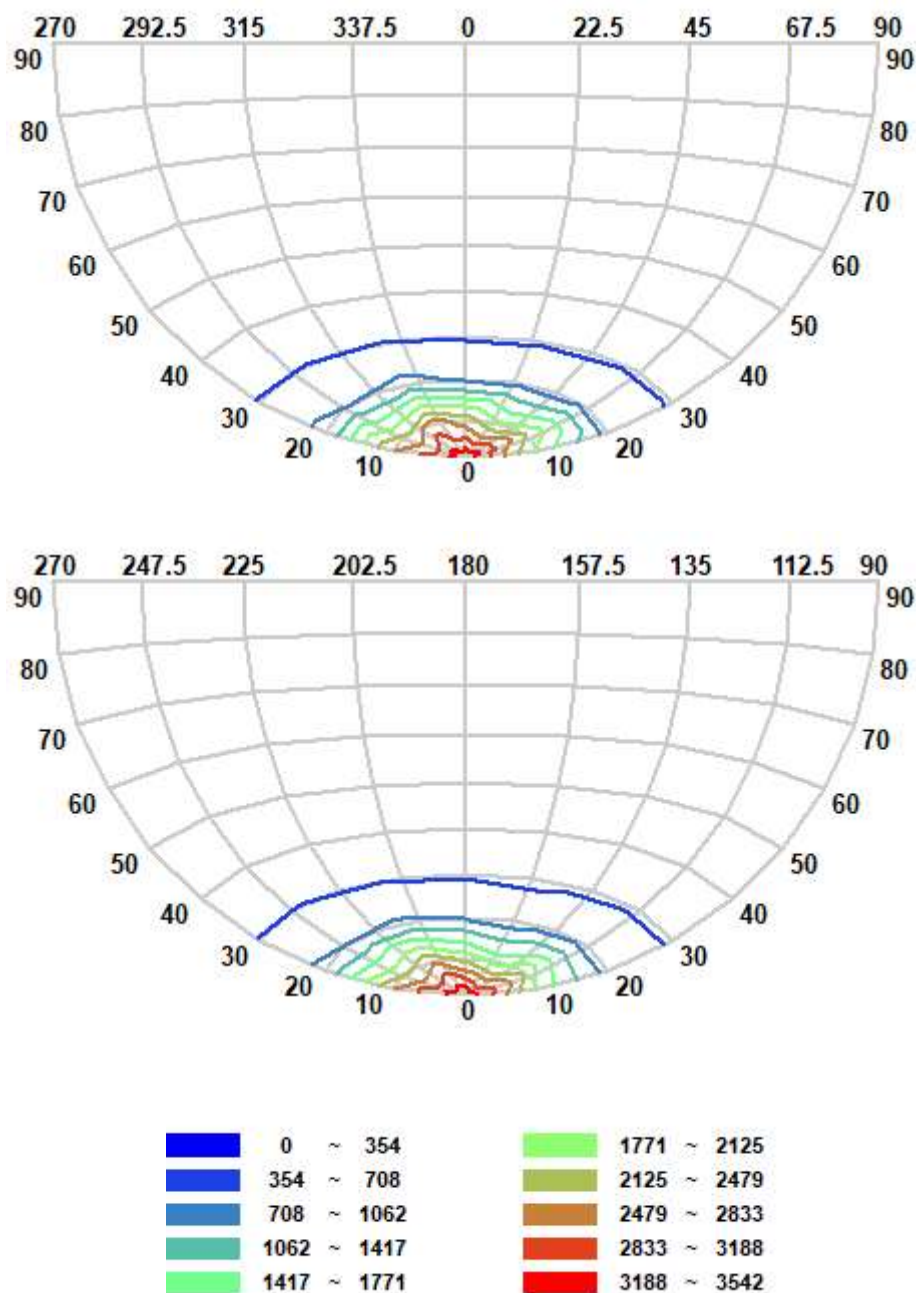
Power Factor

1

Date

2023-06-08 오전 11:27:55

IsoCandela (Type C)



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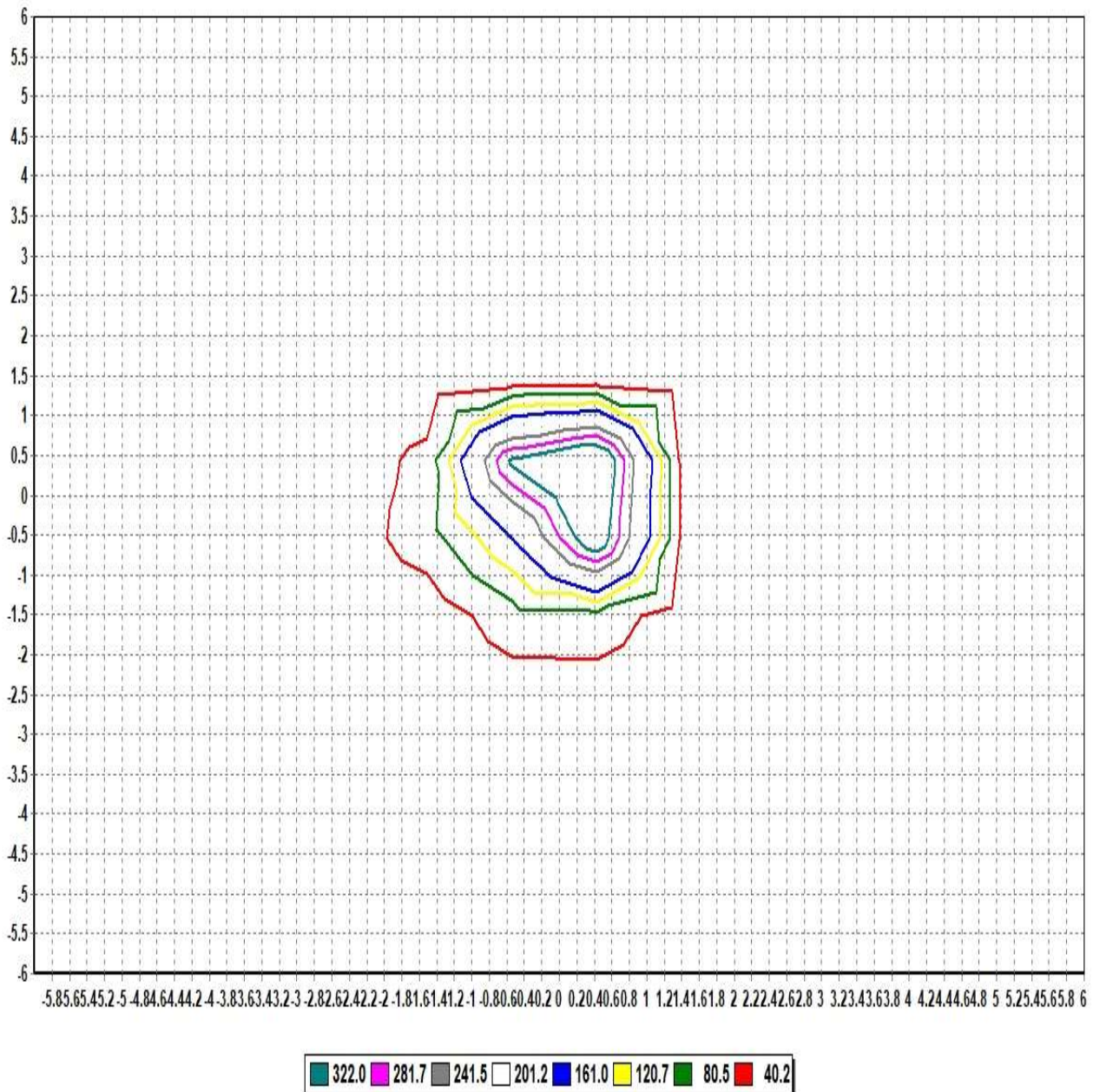
Operator

Total flux (lm) 1362

Power Factor 1

Date 2023-06-08 오전 11:27:55

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) 0.7924

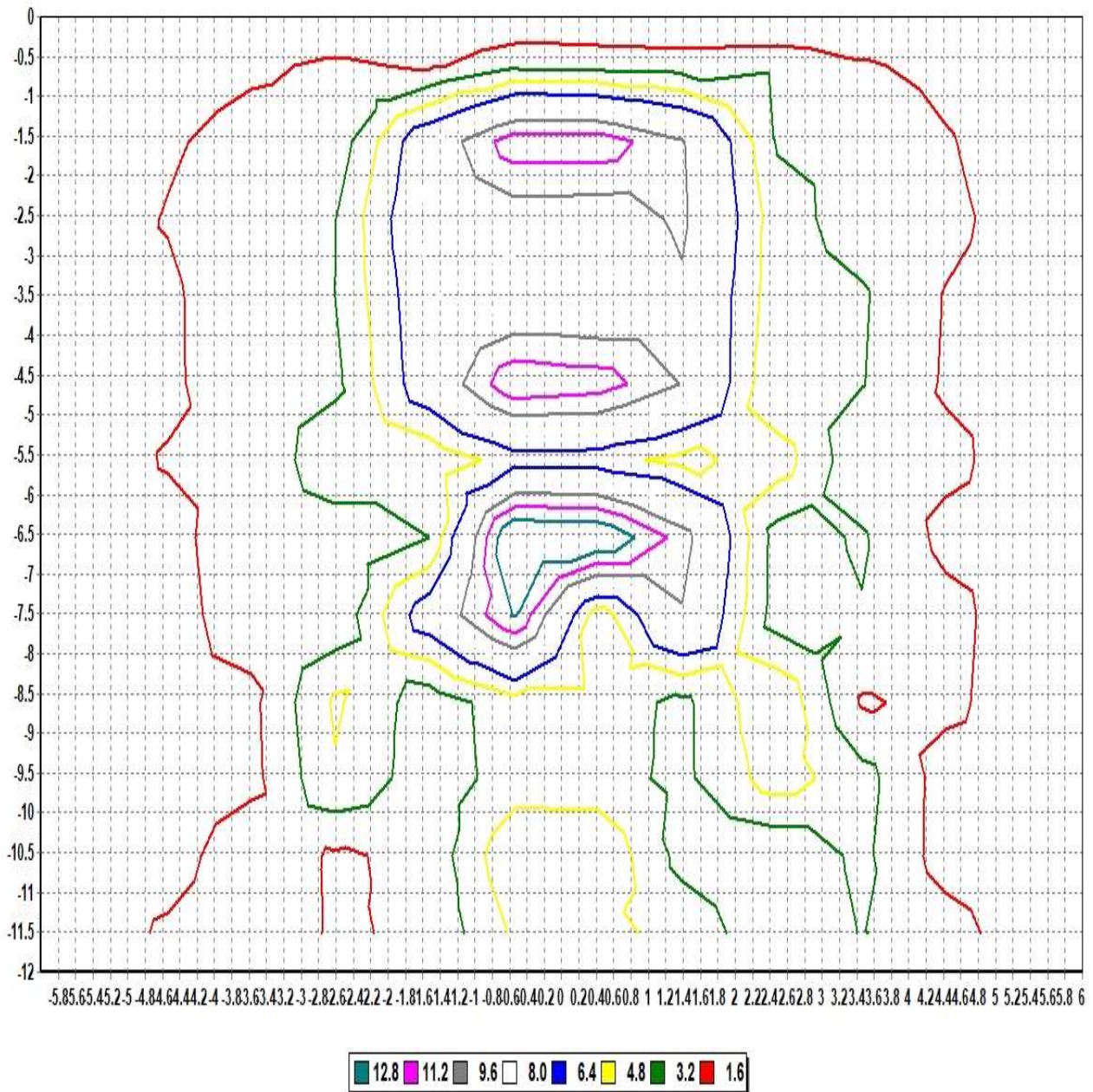
Operator

Total flux (lm) 1362

Power Factor 1

Date 2023-06-08 오전 11:27:55

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)	23.909
Lamp flux (lm)	1362	Current (A)	0.7924
Total flux (lm)	1362	Power Factor	1

Report 230608

Filename 230608 FNL3D 24K C90 1m 20도.jdt

Operator

Date 2023-06-08 오전 11:27:55

Illuminance Levels (Ground)

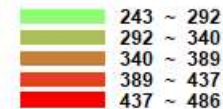
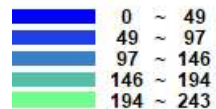
6.00	0.35	0.48	0.34	0.43	0.56	0.67	0.74	0.69	0.52	0.39	0.33	0.44	0.30
5.00	0.40	0.36	0.56	0.83	1.63	2.00	2.16	2.01	1.56	0.76	0.52	0.29	0.41
4.00	0.24	0.43	1.41	2.13	1.94	2.69	3.04	2.70	1.85	2.07	1.28	0.44	0.25
3.00	0.42	0.60	1.84	2.41	5.79	5.74	6.83	5.56	5.82	2.17	1.92	0.65	0.38
2.00	0.49	1.54	1.88	5.16	7.85	13.56	17.92	13.52	7.46	5.52	1.83	1.52	0.48
1.00	0.52	1.73	2.27	5.37	13.39	36.45	186.36	37.83	13.45	5.36	2.51	1.90	0.63
0.00	0.56	1.88	2.56	6.13	17.68	216.45	485.86	251.66	17.73	6.26	2.62	1.92	0.57
-1.00	0.51	1.71	2.26	5.37	13.67	40.41	278.25	42.90	14.69	5.99	2.49	1.86	0.58
-2.00	0.49	1.54	1.89	5.44	7.45	13.82	19.64	14.73	8.47	5.99	2.12	1.72	0.61
-3.00	0.40	0.64	1.90	2.19	6.00	5.71	7.32	6.20	6.21	2.67	2.12	0.79	0.50
-4.00	0.25	0.44	1.29	2.16	1.93	2.92	3.32	2.91	2.16	2.30	1.54	0.56	0.34
-5.00	0.41	0.29	0.56	0.84	1.61	2.15	2.32	2.12	1.78	0.96	0.66	0.44	0.47
-6.00	0.31	0.47	0.36	0.42	0.56	0.79	0.87	0.75	0.66	0.51	0.43	0.53	0.39
-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.) : 485.86

Illum. (Min.) : 0.2397

Illum. (Avg.) : 12.188

All illuminance level values are in lux.



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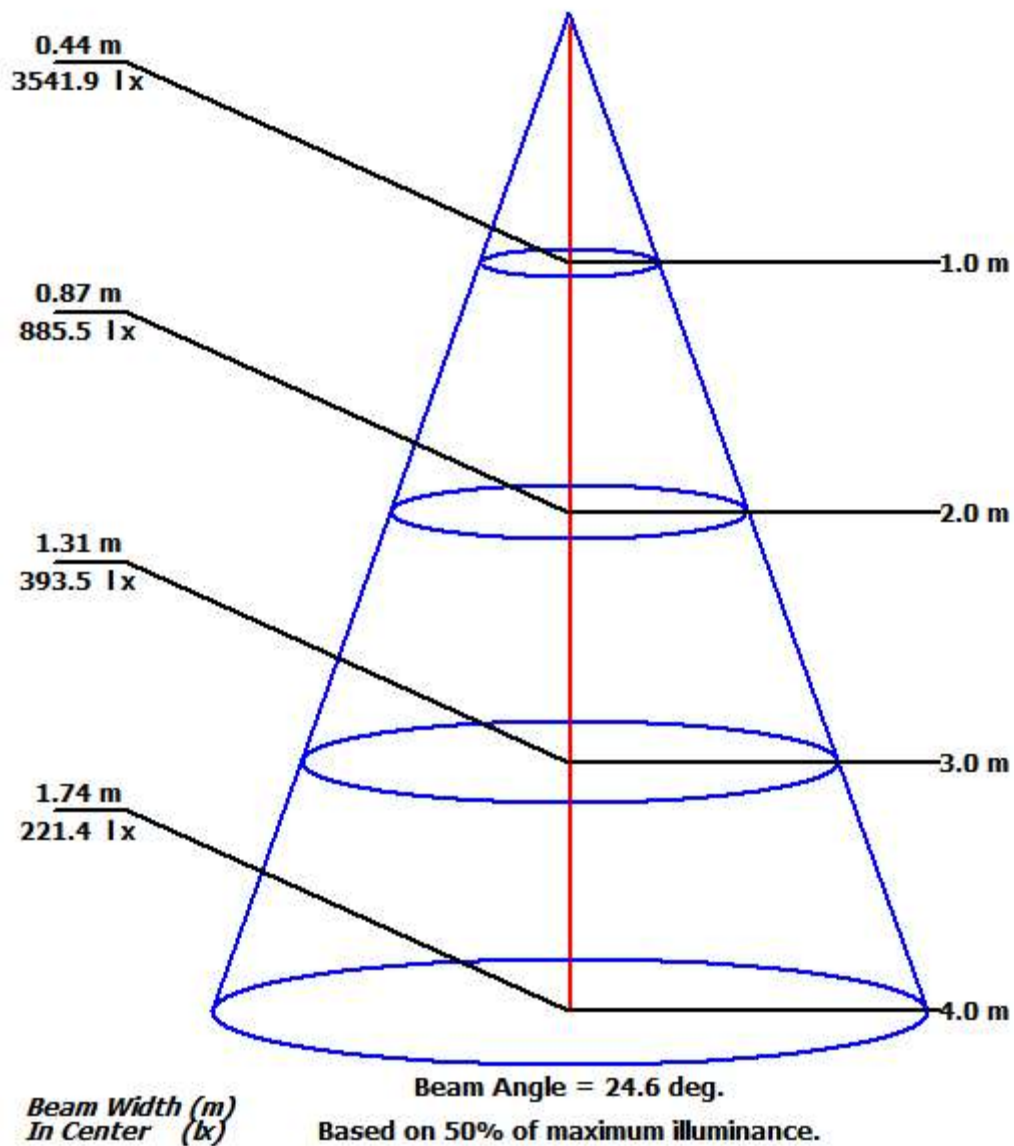
Operator

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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