

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 65K C90 1m 45도**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		0.3237 , 0.3404	
Correlated Color Temperature	K	5894	
Ra		92.59	
Power Factor		1.000	
Input Voltage	V	23.911	
Input Current	A	0.791	
Input Watt	W	18.914	
Lamp Flux	lm	1583.2	
Efficient	lm/W	83.71	
luminous Intensity (Max , Center)	cd	1854 , 1854	
Illuminance	lx	1854	1 m
		464	2 m
		206	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) 23.911

Filename 230608 FNL3D 65K C90 1m 45도.jdt

Lamp flux (lm) 1583

Current (A) 0.791

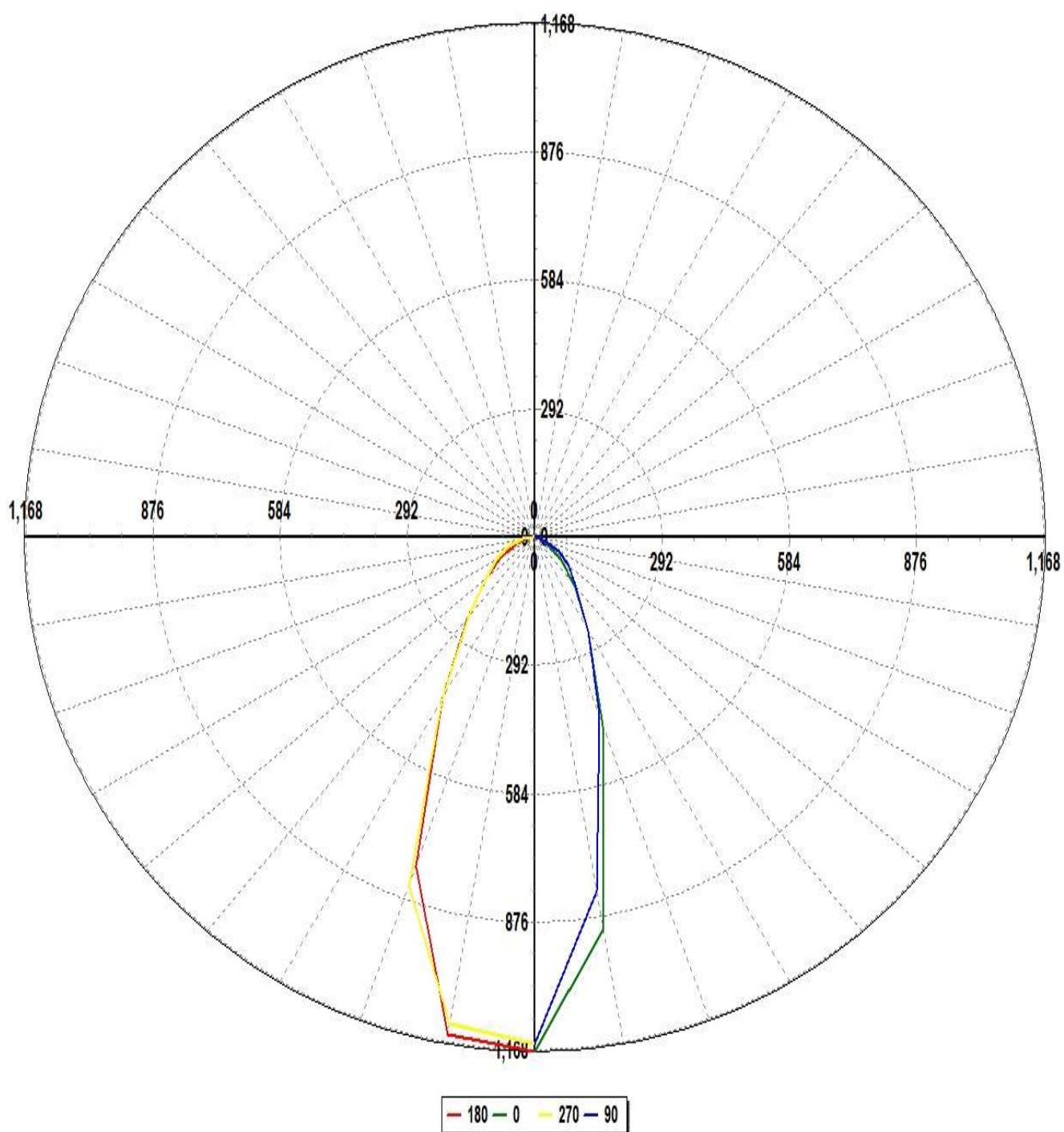
Operator

Total flux (lm) 1583

Power Factor 1

Date 2023-06-08 오후 6:49:51

Luminous Intensity Distribution



Luminaire KH FEELUX

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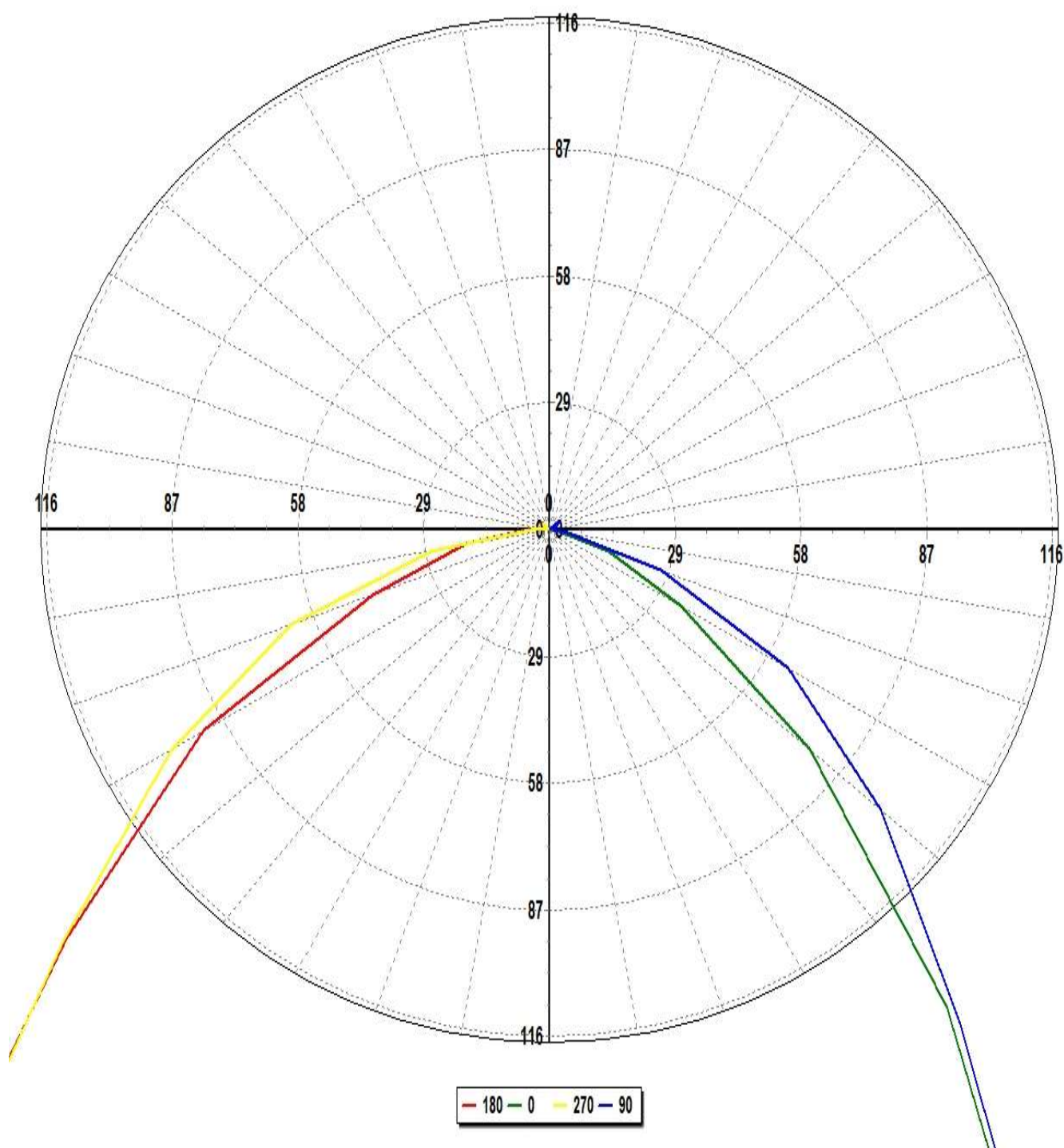
Operator

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Luminous Intensity Distribution (Lowest 10%)



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Luminous Intensity Data

Maximum (cd) : 1854

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1854.45	1834.41	1837.99	1826.34	1815.7	1779.74	1854.45	1834.41	1837.99	1826.34
10	1432.66	1293.45	1433.34	1292.9	1402.65	1226.84	1822.8	1812.03	1787.73	1781.33
20	725.8	676.34	737.77	682.18	722.52	647.25	1259.66	1383.13	1222.33	1338.29
30	386.45	381.74	393.72	388.72	389.45	372.34	666.27	714.15	644.99	678.54
40	225.62	223.01	232.71	232.86	231.87	222.19	385.95	393.09	381.56	375.28
50	123.86	136.96	153.54	157.65	156.55	146.18	230.15	235.45	235.51	231.98
60	55.18	61.83	93.65	100.65	96.5	72.24	145.76	155.62	159.31	159.35
70	23.14	24.05	33.54	43.45	38.05	28.96	68.81	80.13	98.44	100.38
80	3.45	3.82	4.56	6.65	6.68	7.37	30.77	32.24	40.8	43.96
90	0.89	0.84	0.91	1.49	0.74	0.62	7.9	7.81	7.74	6.44
100	1.19	0.56	1.54	1.65	1.3	1.38	0.33	1.05	1.67	0.61
110	1.62	2.51	1.91	2.11	2.57	2.21	1.03	1.6	0.84	1.32
120	3.31	2.93	3.1	2.99	3.18	3.02	1.63	2.11	2.3	1.82
130	4.67	5.42	5.14	5.13	4.84	4.94	3.77	3.19	3.6	3.27

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Luminous Intensity Data (Continued)

Maximum (cd) : 1854

Minimum (cd) : 0

G/C	300	330	360
0	1815.7	1779.74	1854.45
10	1781.87	1802	1432.66
20	1212.69	1389.92	725.8
30	632.09	708.83	386.45
40	372.02	381.85	225.62
50	227.64	228.14	123.86
60	151.26	145.05	55.18
70	91.75	66.11	23.14
80	34.35	26.55	3.45
90	4.24	5.19	0.89
100	1.06	0.91	1.19
110	0.69	0.93	1.62
120	1.85	2.25	3.31
130	3.32	3.23	4.67

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Luminous Flux Table

Total Lamp Lumens: 1583.2

Luminaire Efficiency (lm/W): 83.70

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	43.63	43.63	2.76	2.76
10	299.06	342.69	21.65	21.65
20	374.52	717.21	45.30	45.30
30	290.11	1007.33	63.63	63.63
40	214.60	1221.93	77.18	77.18
50	158.26	1380.19	87.18	87.18
60	110.37	1490.57	94.15	94.15
70	59.76	1550.33	97.92	97.92
80	21.68	1572.01	99.29	99.29
90	4.09	1576.10	99.55	99.55
100	1.19	1577.29	99.63	99.63
110	1.66	1578.95	99.73	99.73
120	2.41	1581.36	99.88	99.88
130	1.83	1583.19	100.00	100.00

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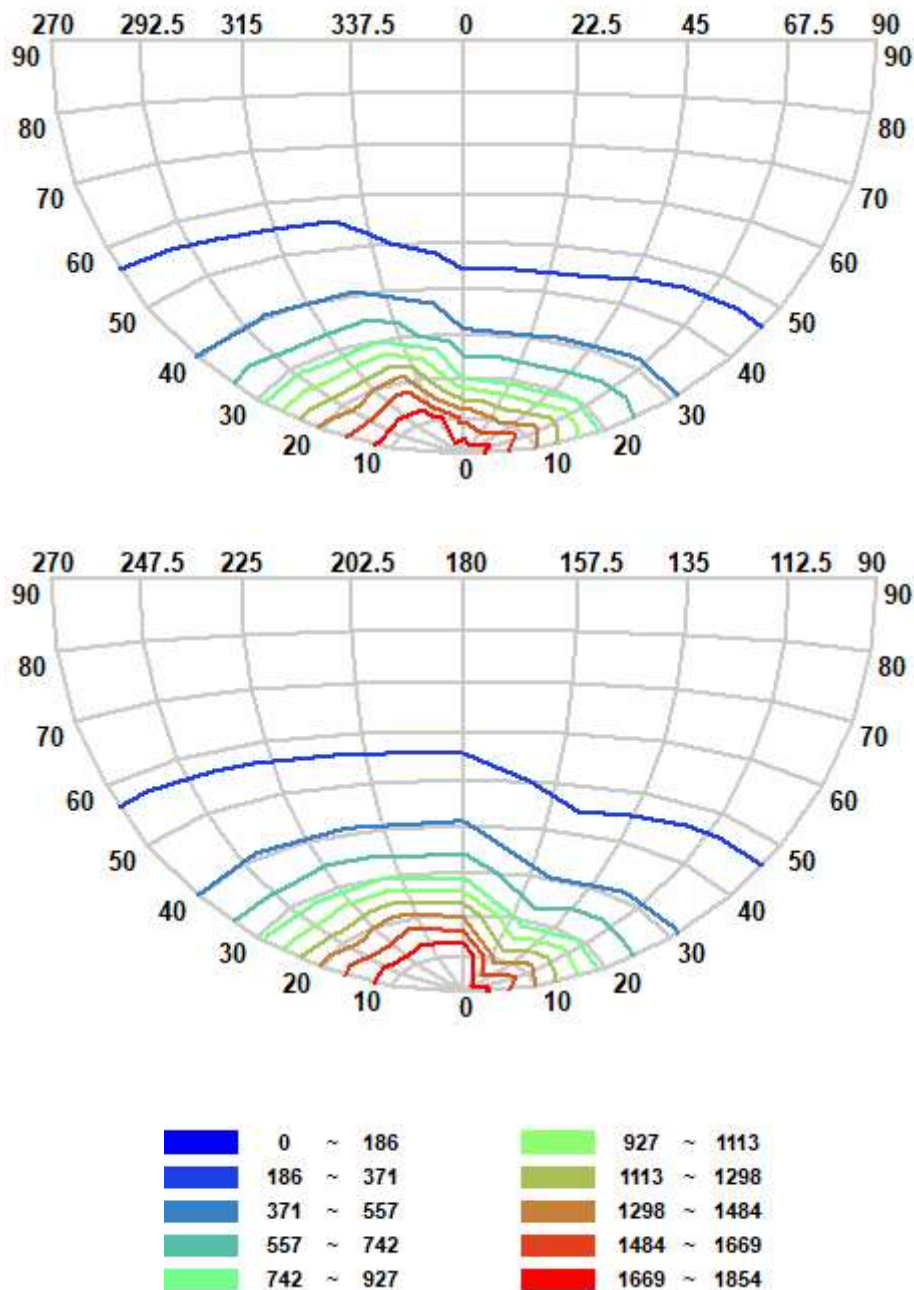
Operator

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IsoCandela (Type C)



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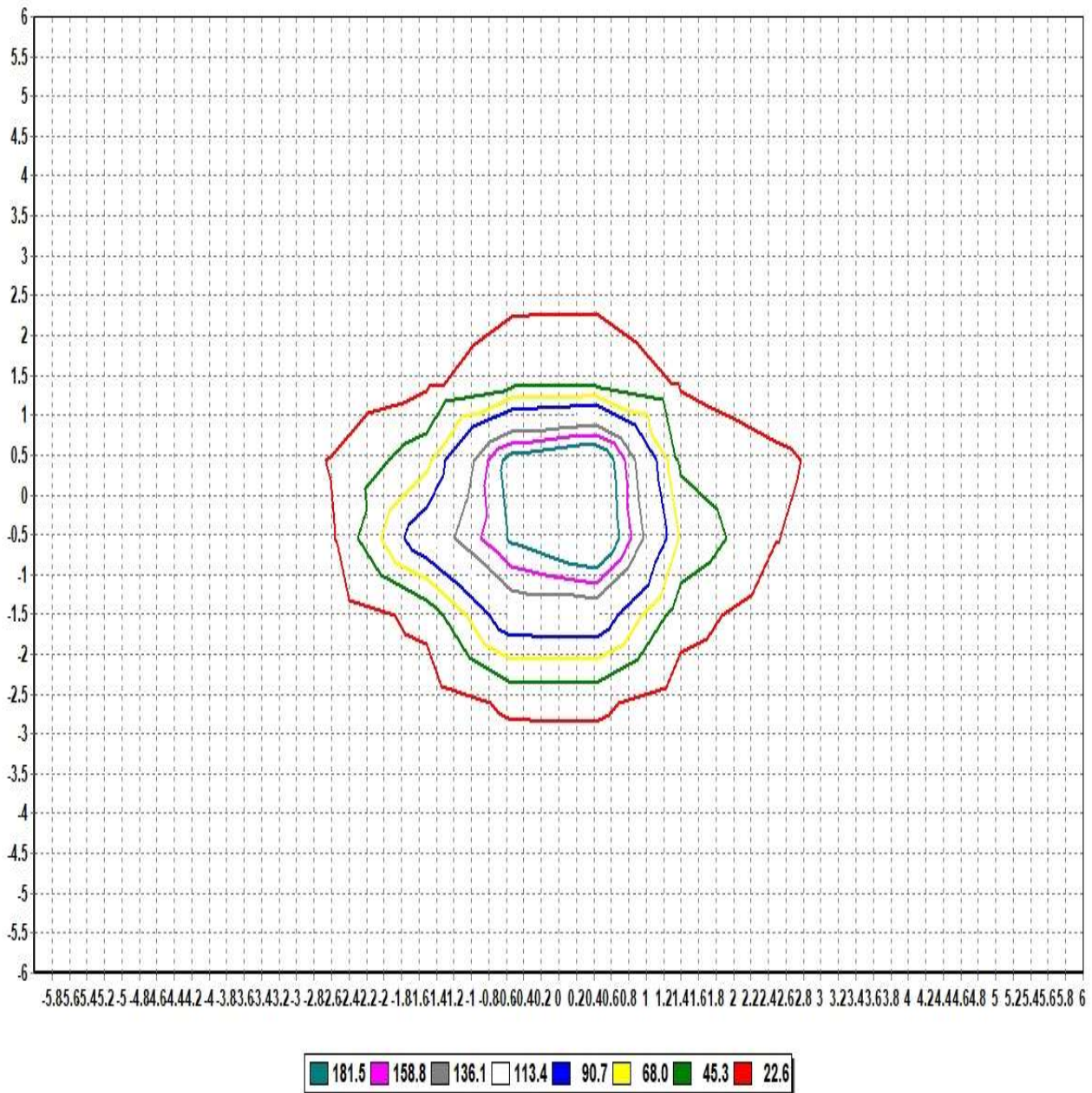
Operator

Total flux (lm) 1583

Power Factor 1

Date 2023-06-08 오후 6:49:51

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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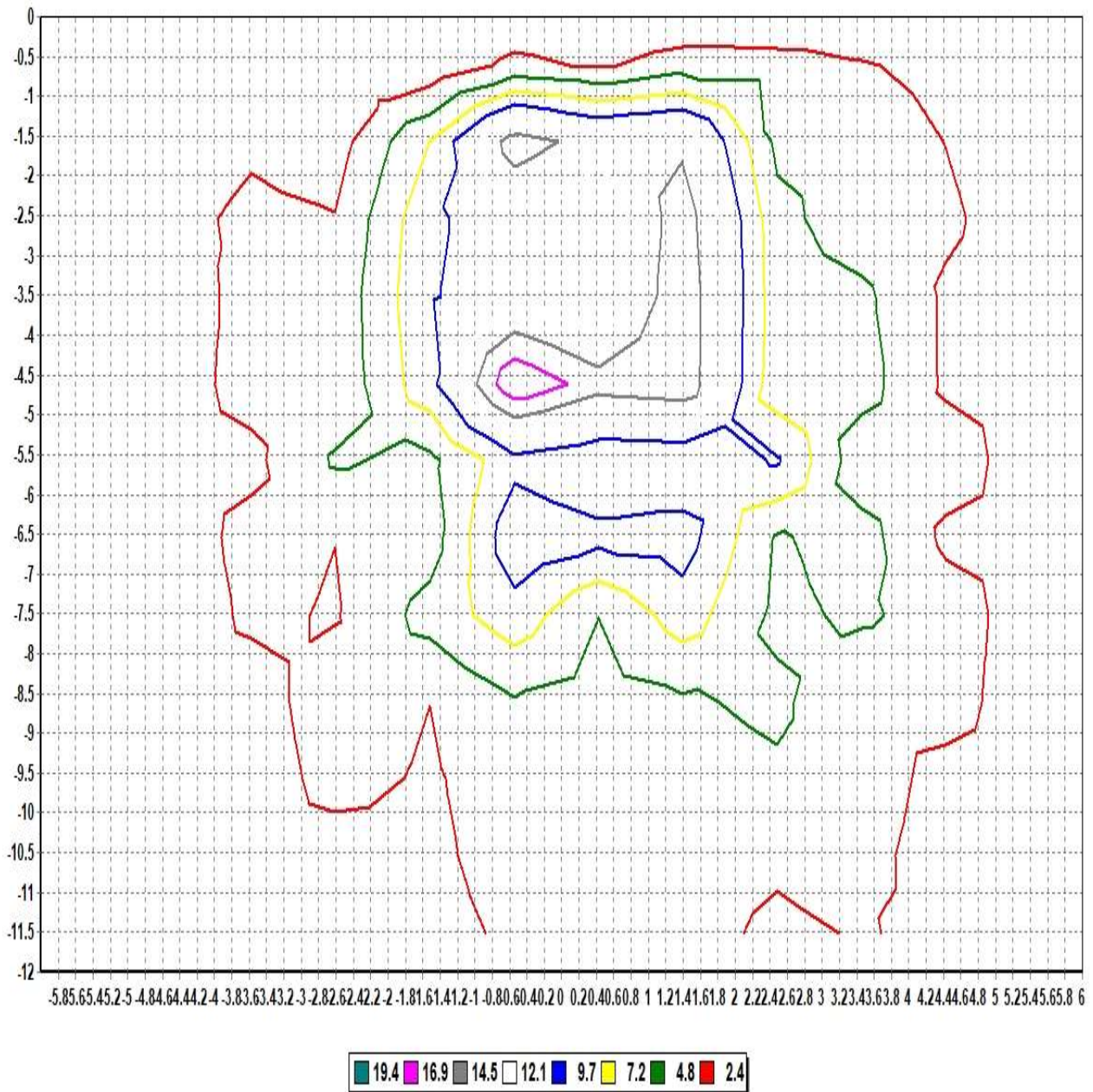
Operator

Total flux (lm) 1583

Power Factor 1

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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)	23.911
Lamp flux (lm)	1583	Current (A)	0.791
Total flux (lm)	1583	Power Factor	1

Report 230608

Filename 230608 FNL3D 65K C90 1m 45도.jdt

Operator

Date 2023-06-08 오후 6:49:51

Illuminance Levels (Ground)

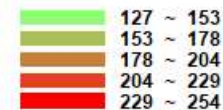
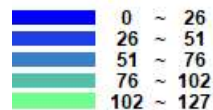
6.00	0.33	0.45	0.27	0.36	0.48	0.55	0.64	0.58	0.35	0.23	0.21	0.37	0.19
5.00	0.36	0.29	0.47	0.72	1.69	2.01	2.18	2.02	1.45	0.63	0.37	0.17	0.26
4.00	0.19	0.36	1.43	2.18	1.96	2.61	2.97	2.62	1.40	2.05	1.08	0.27	0.15
3.00	0.34	0.51	2.02	2.40	6.17	6.03	7.09	5.54	6.09	1.62	1.70	0.39	0.22
2.00	0.42	1.63	1.91	5.89	8.34	14.90	20.42	14.41	7.45	5.72	1.31	1.34	0.29
1.00	0.75	2.55	3.09	5.87	14.82	44.14	144.02	43.74	14.36	5.12	2.88	2.43	0.71
0.00	0.96	3.18	4.32	10.72	34.40	204.13	254.38	159.48	20.03	5.92	1.99	1.66	0.35
-1.00	0.57	2.27	2.98	9.06	25.31	79.99	199.88	76.42	24.00	8.83	2.74	2.08	0.50
-2.00	0.83	2.55	3.10	9.97	13.11	25.28	34.20	23.95	12.76	9.82	3.02	2.49	0.85
-3.00	0.67	1.08	3.20	3.63	9.93	9.13	10.70	8.88	9.73	3.69	3.16	1.07	0.72
-4.00	0.44	0.76	2.15	3.28	3.12	4.13	4.53	4.13	3.04	3.22	2.15	0.76	0.43
-5.00	0.68	0.51	0.90	1.30	2.58	3.06	3.24	3.07	2.51	1.31	0.92	0.63	0.67
-6.00	0.51	0.73	0.59	0.69	0.90	1.13	1.19	1.12	0.94	0.74	0.61	0.72	0.54
-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.) : 254.38

Illum. (Min.) : 0.1477

Illum. (Avg.) : 10.965

All illuminance level values are in lux.



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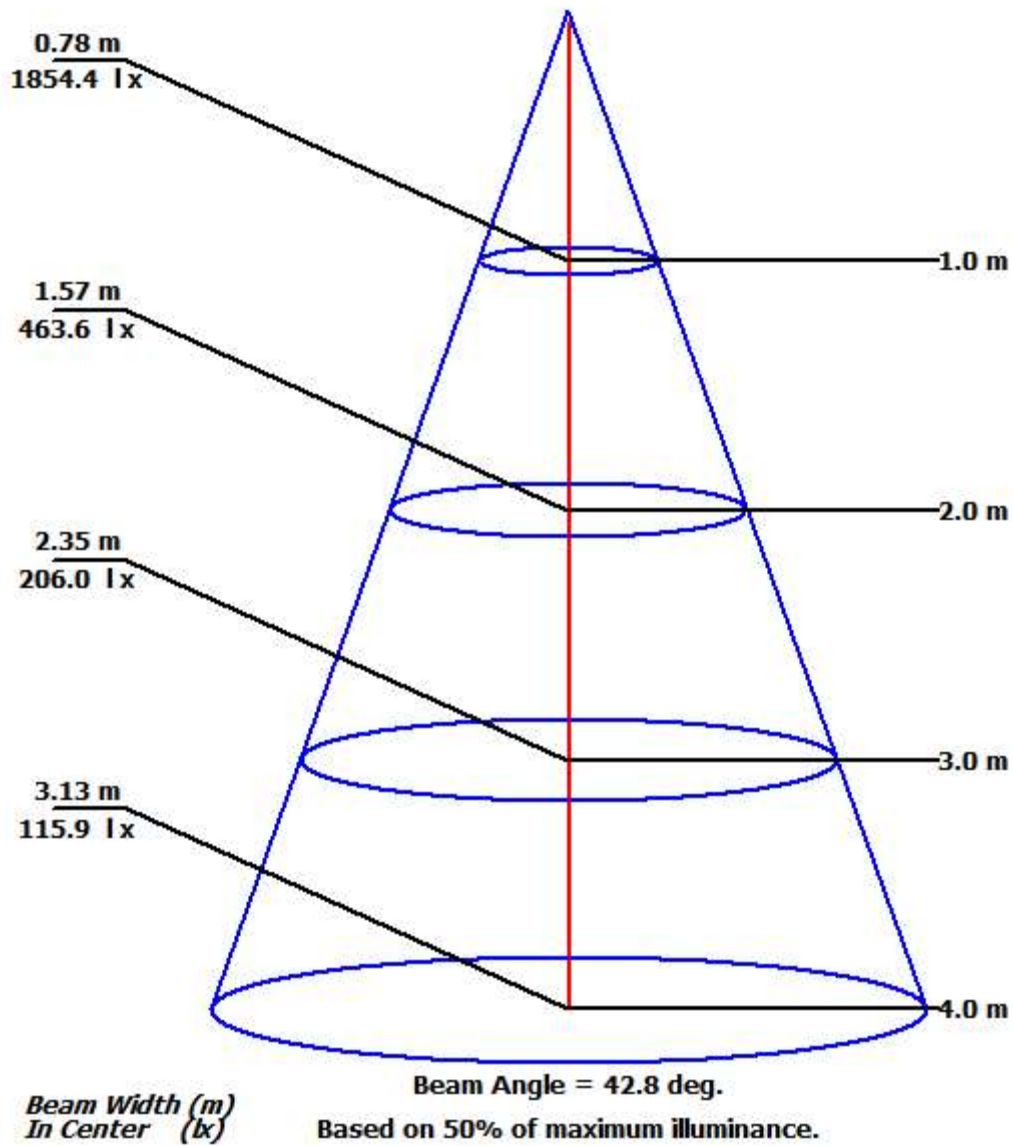
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Illuminance Cone Diagram



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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