

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84
* Date of Receipt : 230608

2. Purpose of Report :

3. Number of Report : 230608

4. Test Standard / Item : / 230608 FNL3D 24K C90 1m 30X60도

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 reporduced, 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		0.4896 , 0.4180	
Correlated Color Temperature	K	2380	
Ra		89.68	
Power Factor		1.000	
Input Voltage	V	23.910	
Input Current	A	0.788	
Input Watt	W	18.837	
Lamp Flux	lm	1249.6	
Efficient	lm/W	66.34	
luminous Intensity (Max , Center)	cd	1683 , 1683	
Illuminance	lx	1683	1 m
		421	2 m
		187	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)

23.91Filename 230608 FNL3D 24K C90 1m 30X60도.jdt

Lamp flux (lm) 1250

Current (A)

0.787Operator

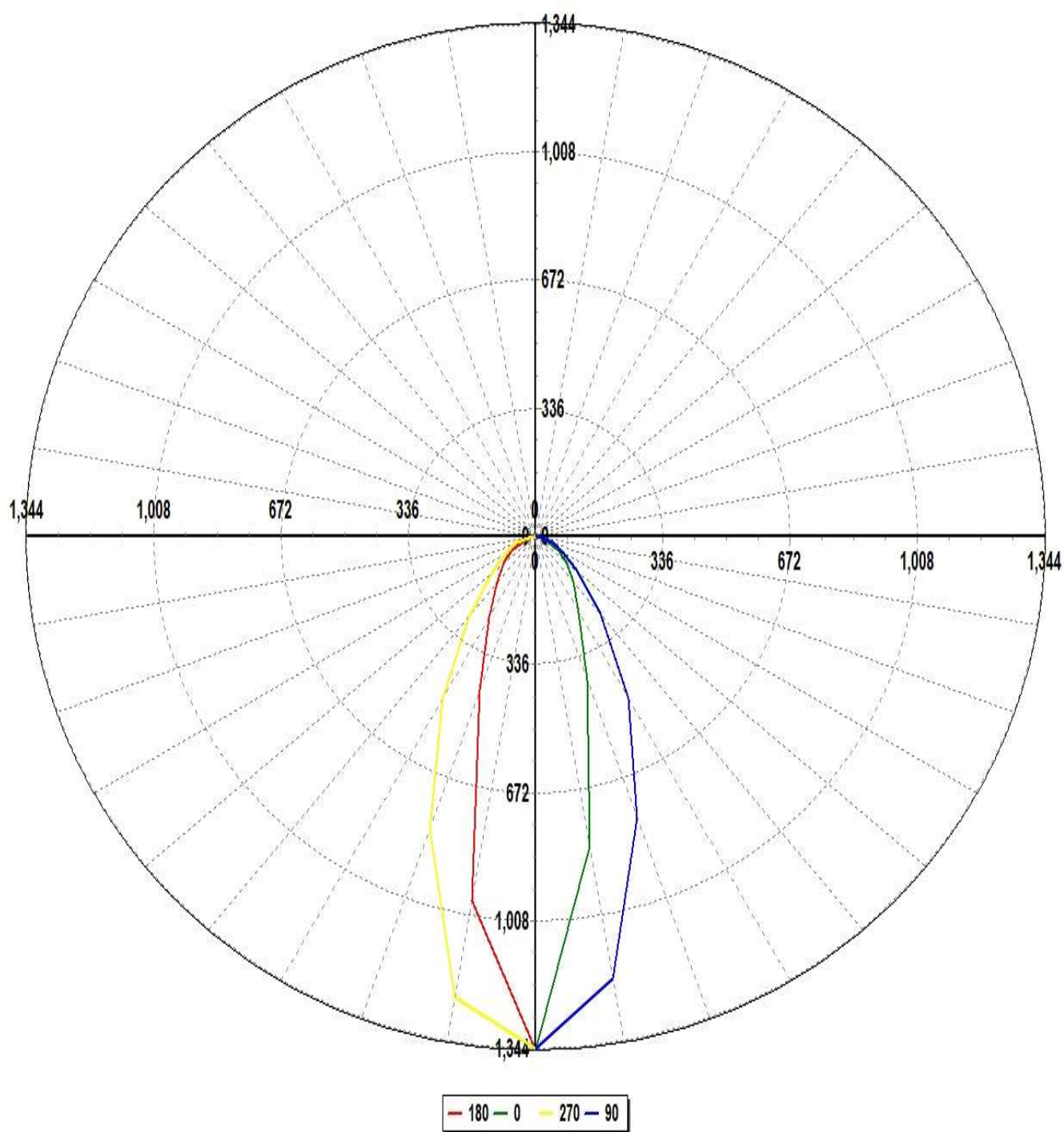
Total flux (lm) 1250

Power Factor

1Date

2023-06-08 오전 11:54:37

Luminous Intensity Distribution



Luminaire KH FEELUX

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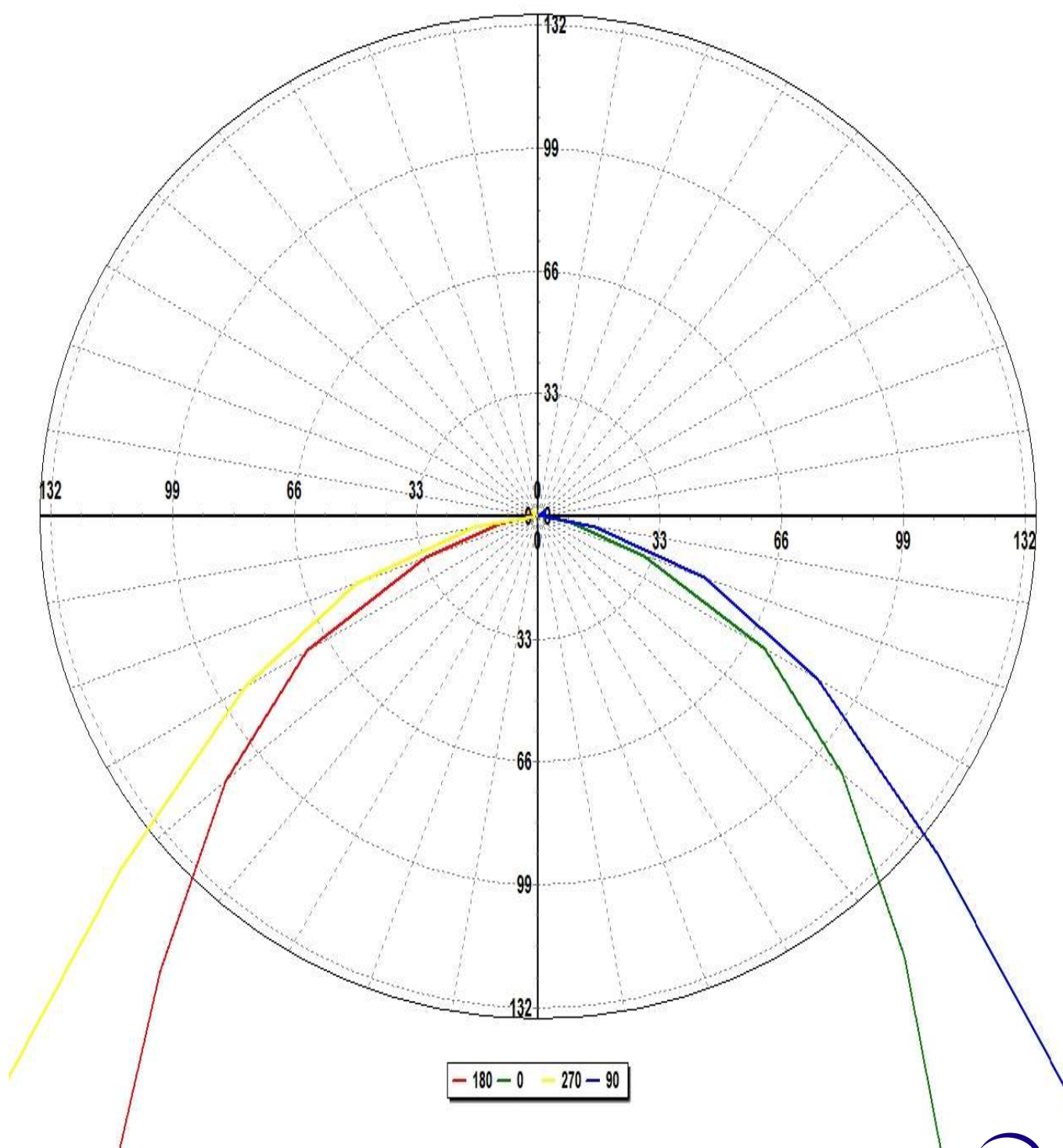
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Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

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0.7878Operator

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Luminous Intensity Data

Maximum (cd) : 1683

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1683.38	1672.96	1673.09	1676.66	1680.88	1679.15	1683.38	1672.96	1673.09	1676.66
10	1032.78	1022.05	1421.61	1470.82	1464.22	1052.84	1210.72	1425.38	1406.86	1531.36
20	500.15	552.57	775.61	982.3	793.2	554.81	538.46	660.03	813.14	1019.55
30	285.99	310.13	431.17	610.75	425.85	306.27	308.26	346.4	471.36	614.64
40	192.73	205.18	255.89	329.16	250.57	199.54	199.19	218.09	268.89	340.2
50	134.48	140.01	160.16	177.23	158.23	135.89	138.29	148.71	165.86	184.53
60	88.55	88.36	96.29	109.5	95.2	83.78	90.3	93.17	100.23	114.47
70	38.2	41.06	53.2	59.86	50.77	38.14	40.56	45.56	54.03	65.44
80	11.29	13.01	16.8	19.59	16.36	11.26	13.35	14.26	16.8	22
90	2.13	0.83	1.39	2.54	2.16	1.52	2.43	0.81	0.35	1.2
100	0.9	1.1	1.04	0.85	1.2	1.25	1.08	1.08	1.33	1.5
110	0.92	1.11	1.17	1.83	1.6	1.27	1.51	1.26	1.49	1.11
120	1.79	2.05	2.18	2.19	2.36	2.1	2.14	2.17	2.44	2.1
130	2.9	3.02	3.09	3.37	3.39	3.68	2.96	2.58	2.94	2.93

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Luminous Intensity Data (Continued)

Maximum (cd) : 1683

Minimum (cd) : 0

G/C	300	330	360
0	1680.88	1679.15	1683.38
10	1353.72	1390.13	1032.78
20	754.27	627.4	500.15
30	439.25	339.01	285.99
40	259.06	217.55	192.73
50	163.09	149.67	134.48
60	99.78	96.22	88.55
70	54.41	48.94	38.2
80	18.48	16.19	11.29
90	1.49	2.51	2.13
100	0.74	0.98	0.9
110	1.57	1.21	0.92
120	1.74	1.96	1.79
130	3.21	2.2	2.9

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Luminous Flux Table

Total Lamp Lumens: 1249.6

Luminaire Efficiency (lm/W): 66.34

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	40.11	40.11	3.21	3.21
10	250.13	290.25	23.23	23.23
20	267.57	557.81	44.64	44.64
30	223.11	780.92	62.49	62.50
40	172.25	953.17	76.28	76.28
50	129.77	1082.95	86.66	86.67
60	91.36	1174.31	93.97	93.98
70	50.62	1224.92	98.03	98.03
80	17.02	1241.94	99.39	99.39
90	1.77	1243.71	99.53	99.53
100	1.17	1244.89	99.62	99.63
110	1.38	1246.26	99.73	99.74
120	1.99	1248.25	99.89	99.89
130	1.31	1249.57	100.00	100.00

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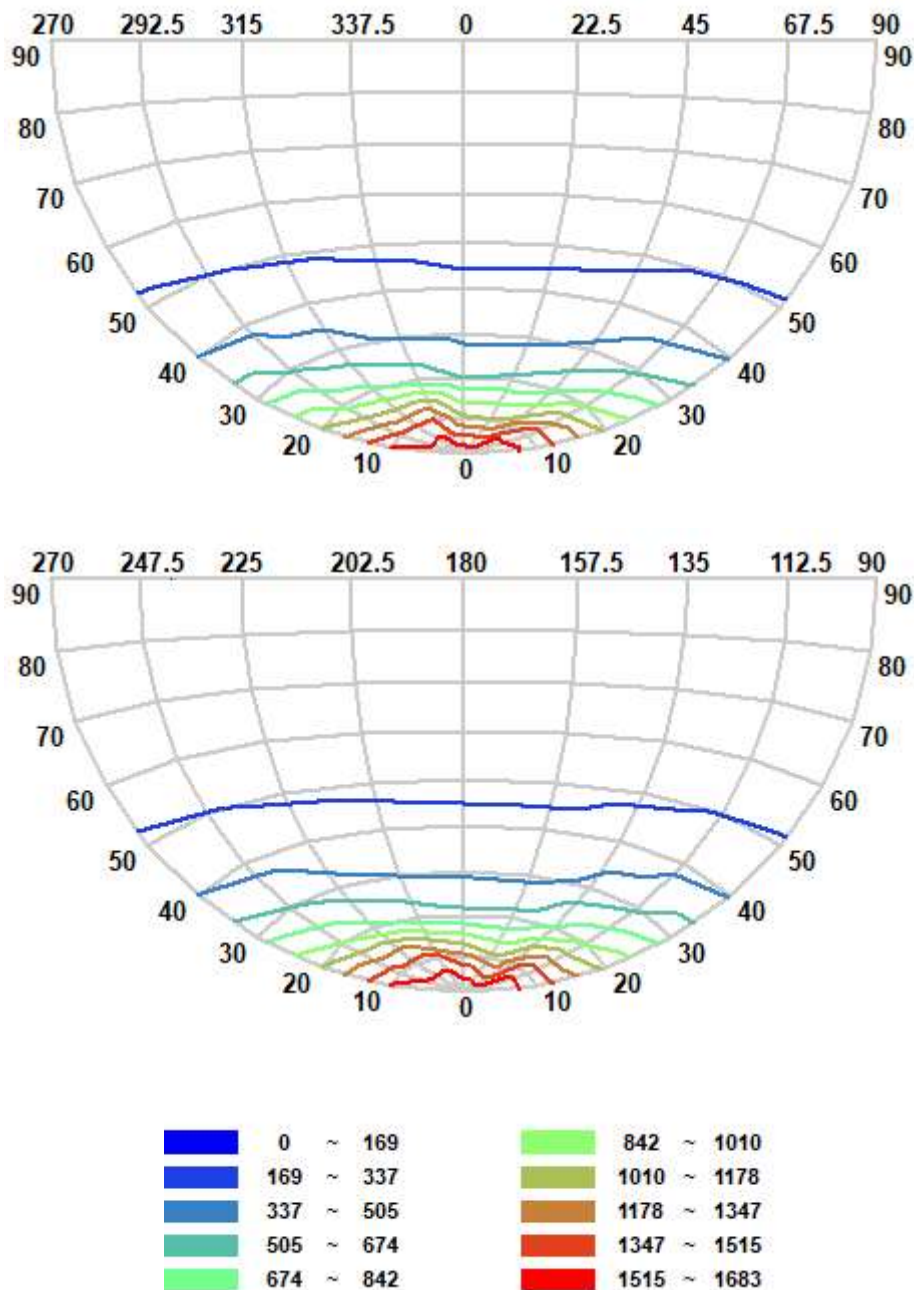
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IsoCandela (Type C)



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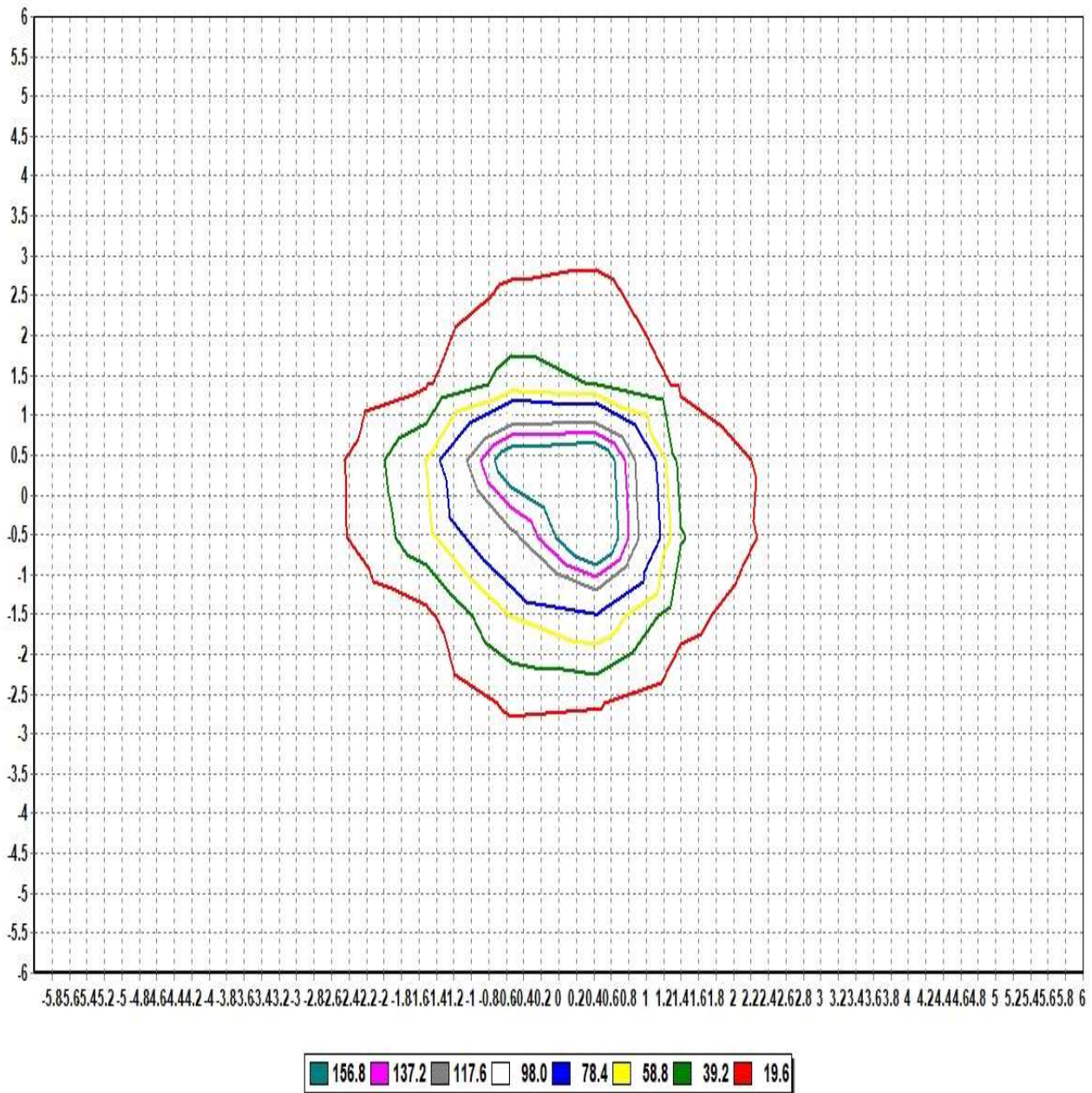
Total flux (lm) 1250

Power Factor

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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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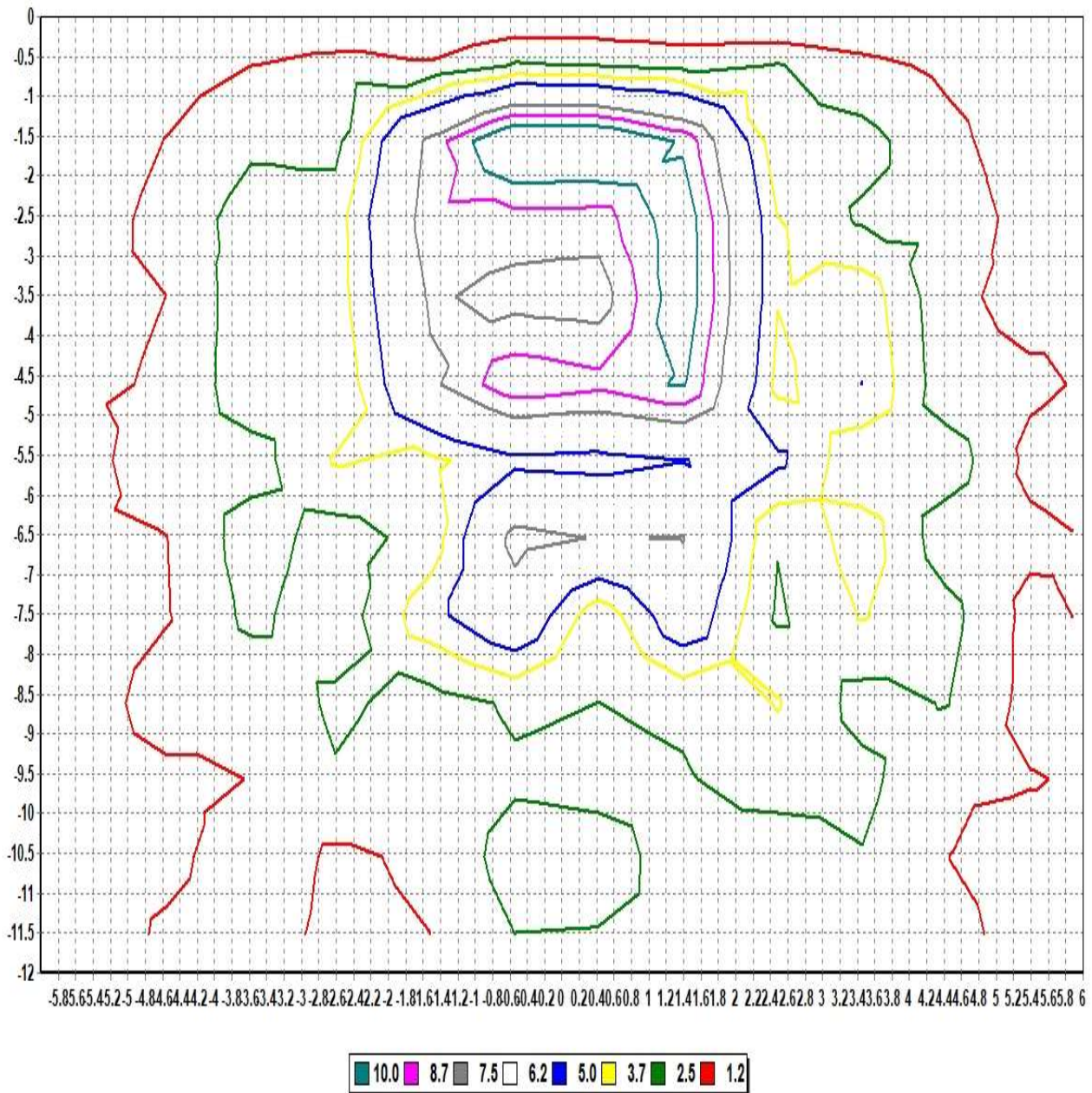
Total flux (lm) 1250

Power Factor

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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)	23.91
Lamp flux (lm)	1250	Current (A)	0.7878
Total flux (lm)	1250	Power Factor	1

Report	230608
Filename	230608 FNL3D 24K C90 1m 30X60도.jdt
Operator	
Date	2023-06-08 오전 11:54:37

Illuminance Levels (Ground)

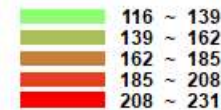
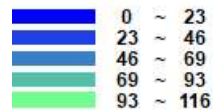
6.00	0.35	0.48	0.36	0.43	0.57	0.67	0.77	0.70	0.50	0.37	0.32	0.43	0.29
5.00	0.40	0.37	0.57	0.85	1.75	2.15	2.45	2.21	1.57	0.75	0.50	0.27	0.40
4.00	0.25	0.44	1.52	2.38	1.97	2.79	3.28	2.81	1.80	2.14	1.26	0.43	0.24
3.00	0.41	0.62	1.94	2.52	8.08	6.43	8.52	5.69	6.51	2.13	1.88	0.64	0.36
2.00	0.50	1.63	1.91	5.45	9.60	16.70	30.38	13.48	7.22	5.18	1.78	1.50	0.46
1.00	0.54	1.79	2.33	5.77	15.72	57.72	164.59	33.55	13.01	5.29	2.45	1.87	0.59
0.00	0.58	1.92	2.63	6.18	16.87	134.50	230.92	114.88	16.02	6.00	2.57	1.87	0.56
-1.00	0.53	1.77	2.32	5.56	13.82	37.32	171.35	58.33	16.34	6.09	2.44	1.83	0.56
-2.00	0.49	1.58	1.87	5.37	7.56	14.35	30.99	17.26	9.93	5.91	2.01	1.72	0.55
-3.00	0.39	0.66	1.95	2.22	6.83	5.99	8.85	6.65	8.37	2.62	2.11	0.73	0.45
-4.00	0.26	0.45	1.32	2.23	1.90	2.92	3.43	2.90	2.06	2.48	1.58	0.51	0.31
-5.00	0.41	0.30	0.52	0.78	1.65	2.29	2.55	2.23	1.82	0.90	0.61	0.40	0.45
-6.00	0.31	0.45	0.33	0.40	0.53	0.74	0.82	0.70	0.61	0.46	0.39	0.50	0.37
-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.) : 230.92

Illum. (Min.) : 0.2436

Illum. (Avg.) : 9.0745

All illuminance level values are in lux.



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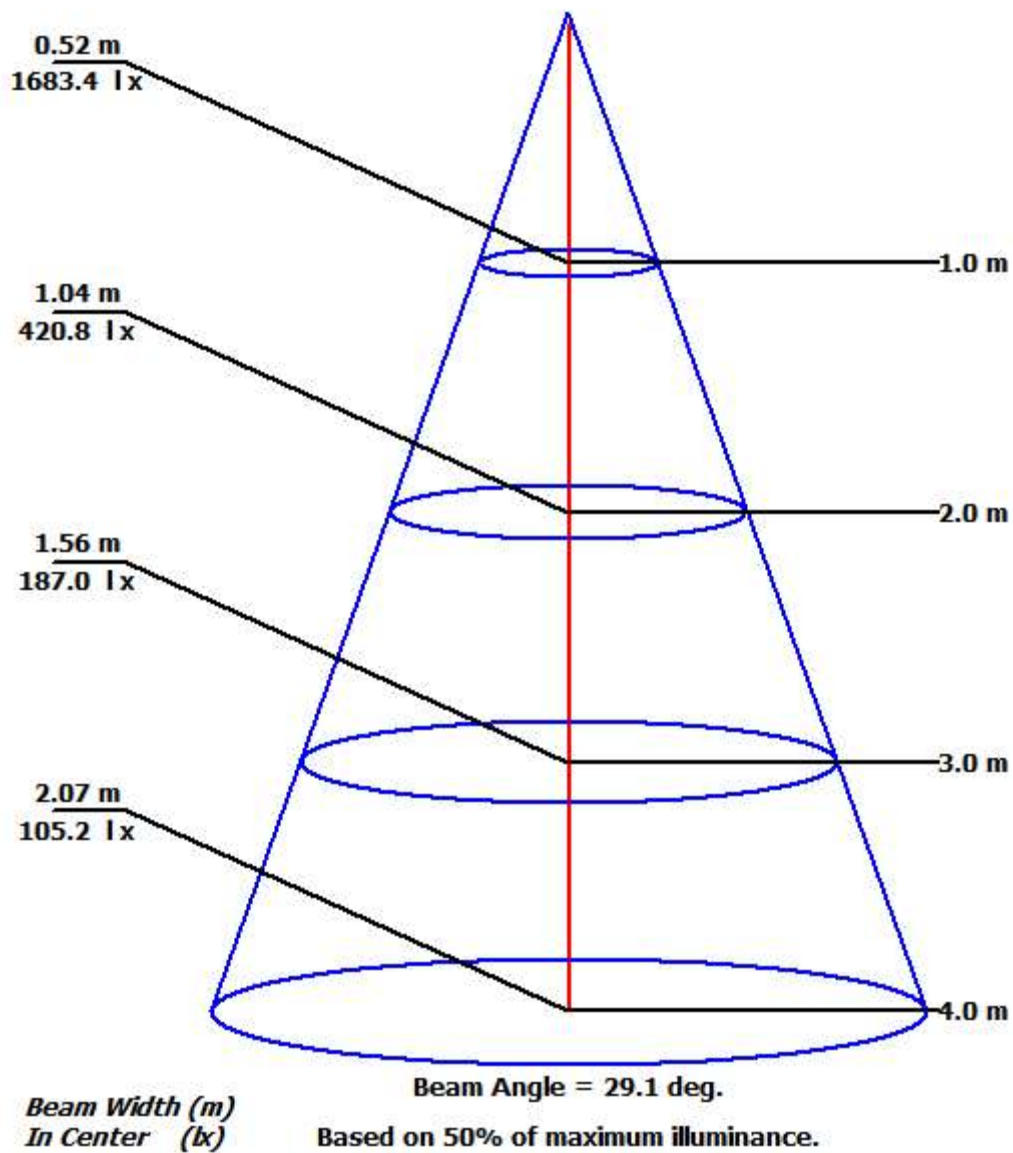
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Power Factor

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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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No. of lamps 1 Voltage (V) 23.91

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Lamp flux (lm) 1250 Current (A) 0.7878

Operator

Total flux (lm) 1250 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