

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 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		0.4929 , 0.4194	
Correlated Color Temperature	K	2355	
Ra		90.09	
Power Factor		1.000	
Input Voltage	V	23.909	
Input Current	A	0.791	
Input Watt	W	18.921	
Lamp Flux	lm	1374	
Efficient	lm/W	72.62	
luminous Intensity (Max , Center)	cd	1710 , 1710	
Illuminance	lx	1710	1 m
		427	2 m
		190	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 45도.jdt

Lamp flux (lm) 1374

Current (A) 0.7914

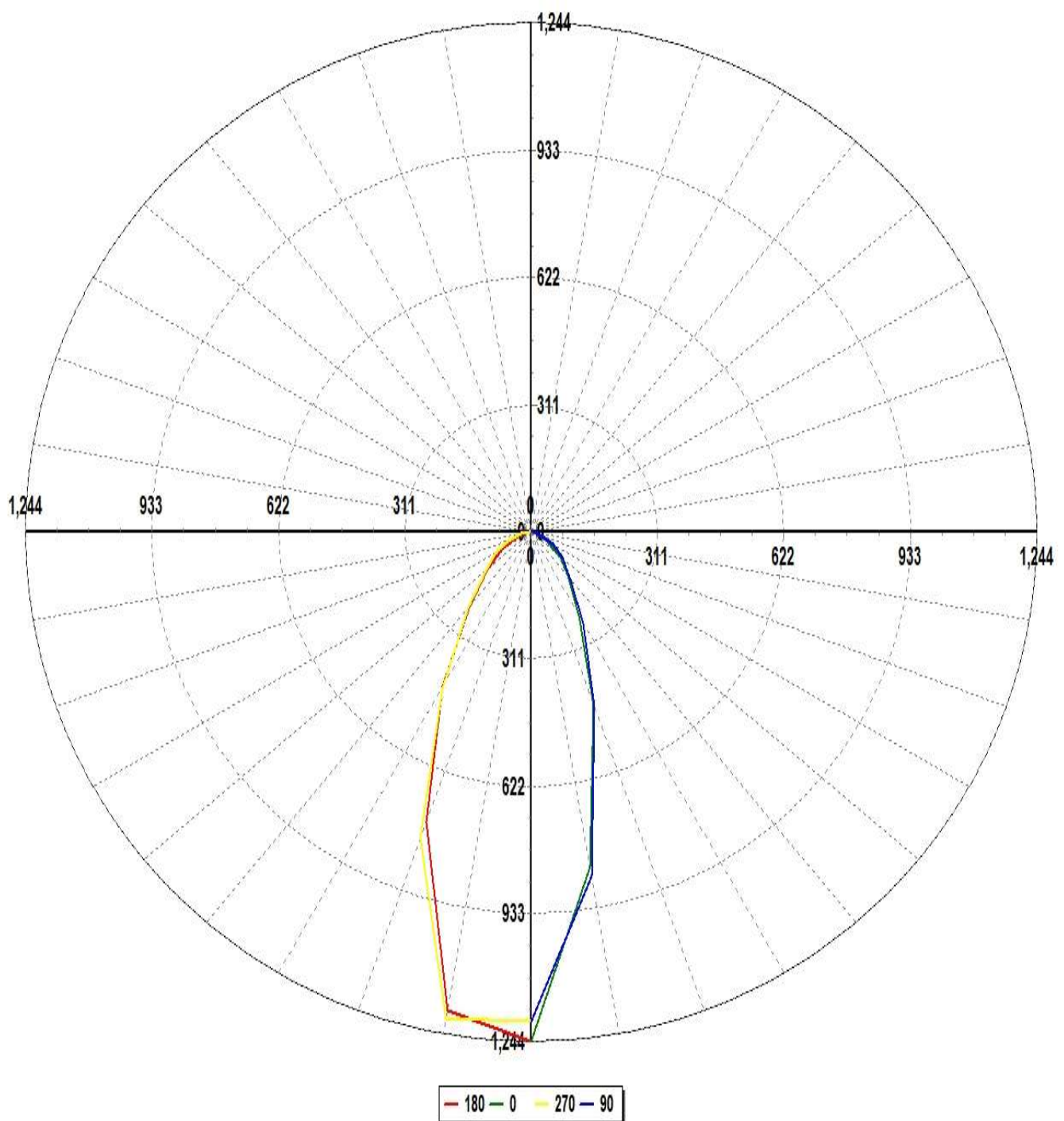
Operator

Total flux (lm) 1374

Power Factor 1

Date 2023-06-08 오후 4:50:20

Luminous Intensity Distribution



Luminaire KH FEELUX

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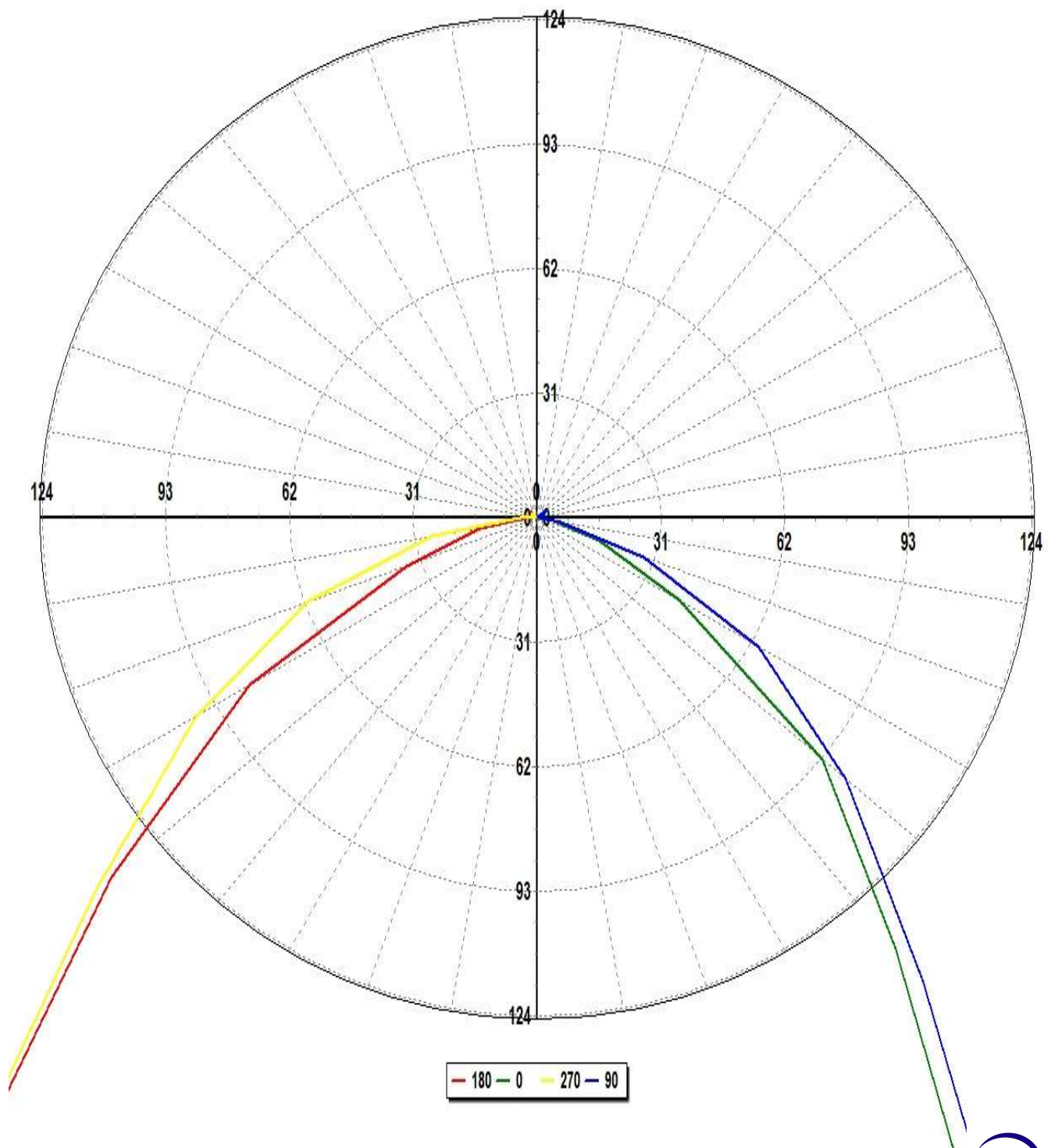
Operator

Total flux (lm) 1374

Power Factor 1

Date 2023-06-08 오후 4:50:20

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

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Lamp flux (lm)	1374	Current (A)	0.7914	Operator	
Total flux (lm)	1374	Power Factor	1	Date	2023-06-08 오후 4:50:20

Luminous Intensity Data

Maximum (cd) : 1710

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1709.65	1660.86	1698.39	1644.22	1672.19	1589.8	1709.65	1660.86	1698.39	1644.22
10	1143.63	1094.63	1185.8	1175.32	1145.94	1012.27	1631.58	1674.84	1598.93	1659.49
20	618.75	629.39	662.93	620.74	642.27	586.65	1037.57	1084.69	1016.44	1092.26
30	325.16	331.15	351.17	352.52	345.09	316.97	599.28	593.02	587.29	602.27
40	191.9	194.86	204.85	206.69	203.45	189.66	323.13	322.43	320.15	326.57
50	128.21	130.3	137.01	138.67	134.36	121.63	191.61	193.58	196.01	198.13
60	56.48	69.95	85.56	88.04	81.66	56.46	114.43	126.52	132.03	135.62
70	22.65	25.47	37.63	39.16	32.69	21.01	47.89	59.55	78.95	84.02
80	5.94	6.49	7.77	8.18	6.24	4.32	19.87	21.11	29.67	36.53
90	0.62	0.53	1.37	1.03	0.4	0.64	3.88	3.77	4.35	5.89
100	1.1	1.41	0.89	0.72	1.09	1.31	0.26	0.32	1.62	0.27
110	1.28	2.48	2.3	2.11	1.99	1.8	0.77	1.25	1	2.04
120	2.42	2.68	2.17	2.73	2.37	2.38	1.33	2.3	1.71	1.85
130	4.43	4.74	3.76	4.04	3.68	4.78	2.87	1.92	3.35	2.39

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Power Factor 1

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Luminous Intensity Data (Continued)

Maximum (cd) : 1710

Minimum (cd) : 0

G/C	300	330	360
0	1672.19	1589.8	1709.65
10	1608.91	1676.78	1143.63
20	1042.53	1141.6	618.75
30	603.37	623.29	325.16
40	325.07	330.31	191.9
50	195.48	195.19	128.21
60	131.43	131.83	56.48
70	81.31	73.61	22.65
80	34.01	26.19	5.94
90	5.55	5.96	0.62
100	0.53	1.12	1.1
110	1.32	1.07	1.28
120	2.22	1.82	2.42
130	3.33	2.52	4.43

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Luminous Flux Table

Total Lamp Lumens: 1374.0

Luminaire Efficiency (lm/W): 72.62

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	39.75	39.75	2.89	2.89
10	263.22	302.97	22.05	22.05
20	317.65	620.62	45.17	45.17
30	256.95	877.56	63.87	63.87
40	184.16	1061.72	77.27	77.27
50	137.05	1198.77	87.25	87.24
60	95.64	1294.41	94.21	94.20
70	51.80	1346.21	97.98	97.97
80	18.55	1364.76	99.33	99.32
90	3.10	1367.86	99.55	99.55
100	0.96	1368.81	99.62	99.62
110	1.66	1370.48	99.74	99.74
120	2.05	1372.53	99.89	99.89
130	1.52	1374.05	100.00	100.00

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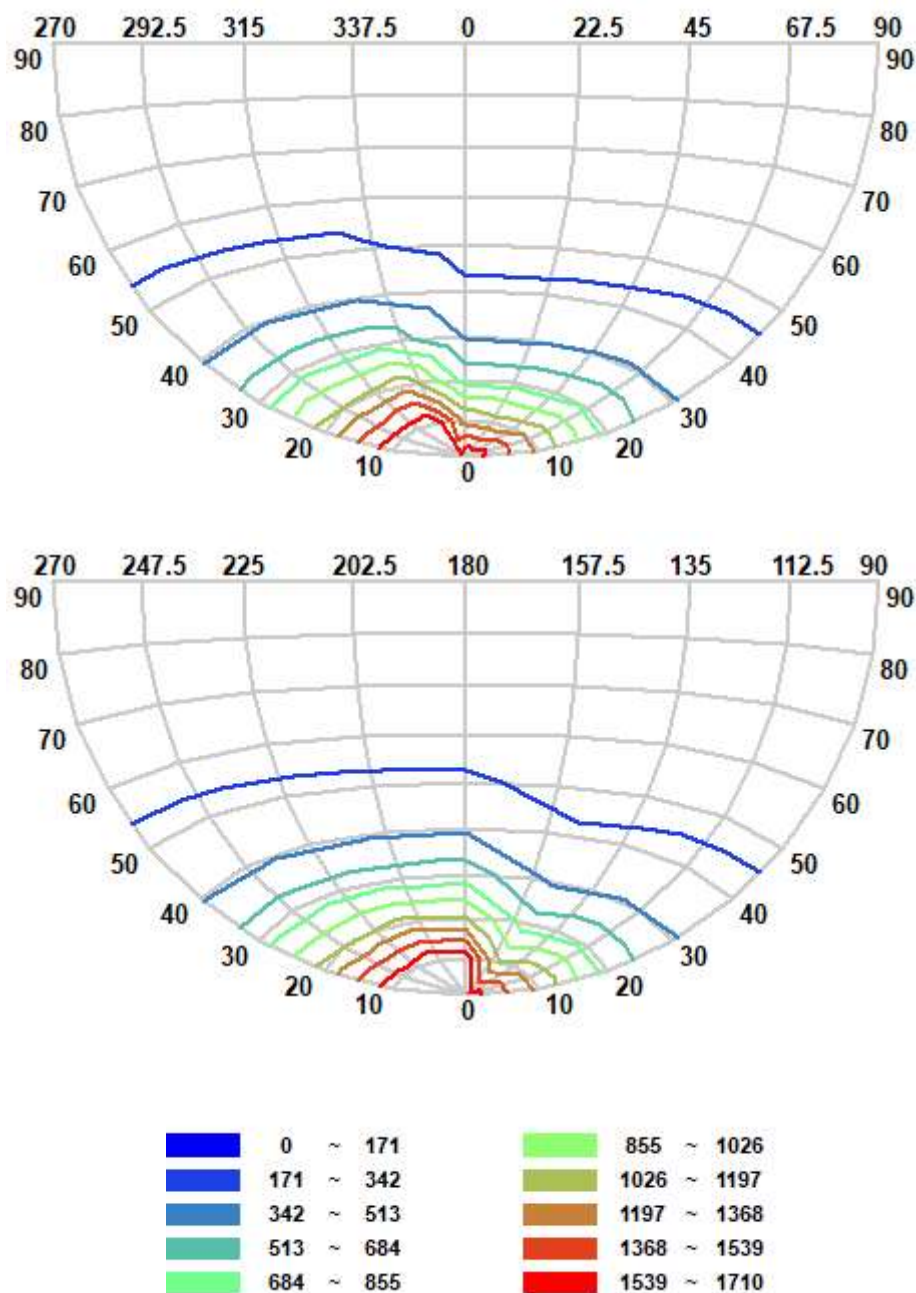
Operator

Total flux (lm) 1374

Power Factor 1

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IsoCandela (Type C)



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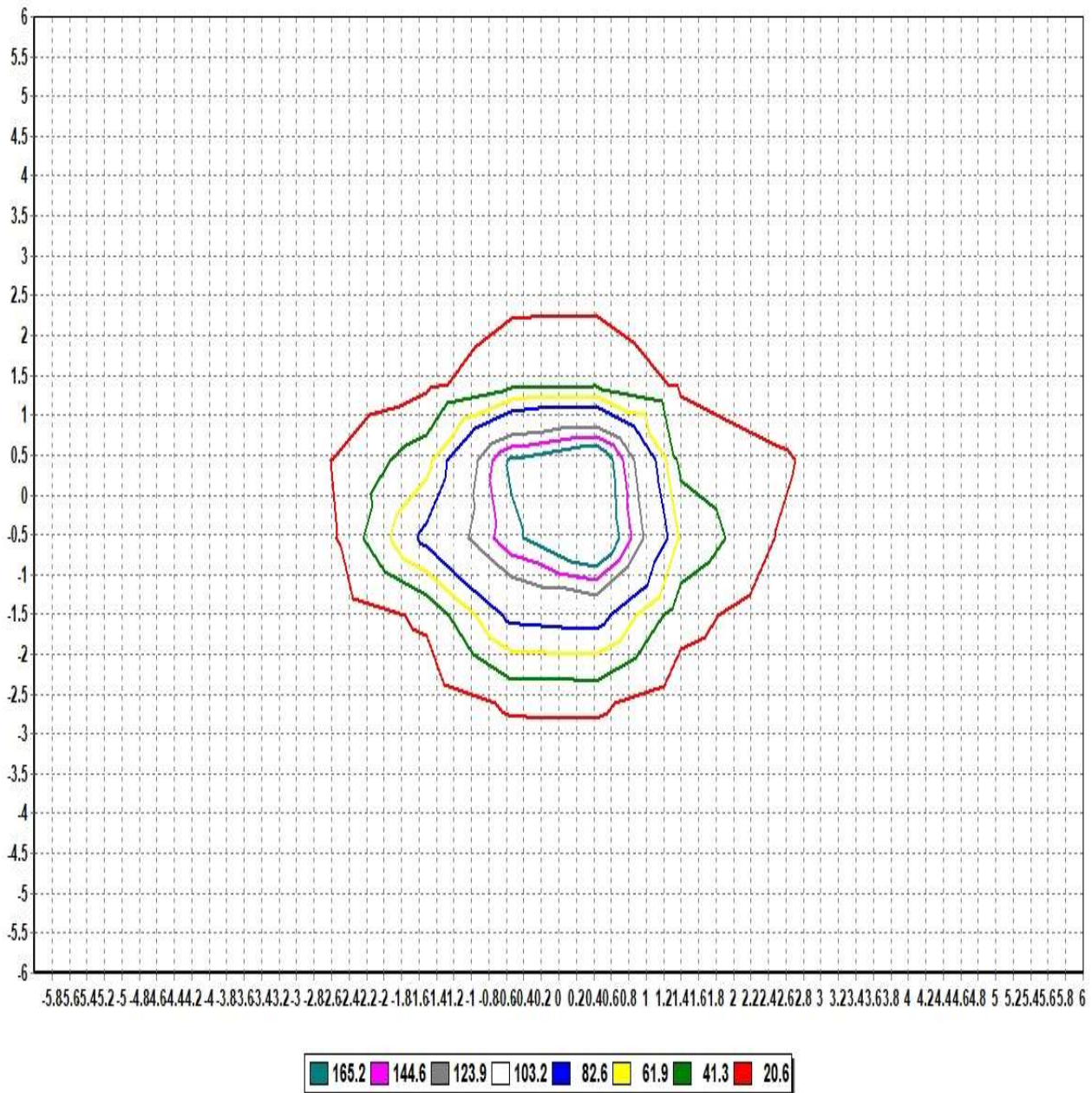
Operator

Total flux (lm) 1374

Power Factor 1

Date 2023-06-08 오후 4:50:20

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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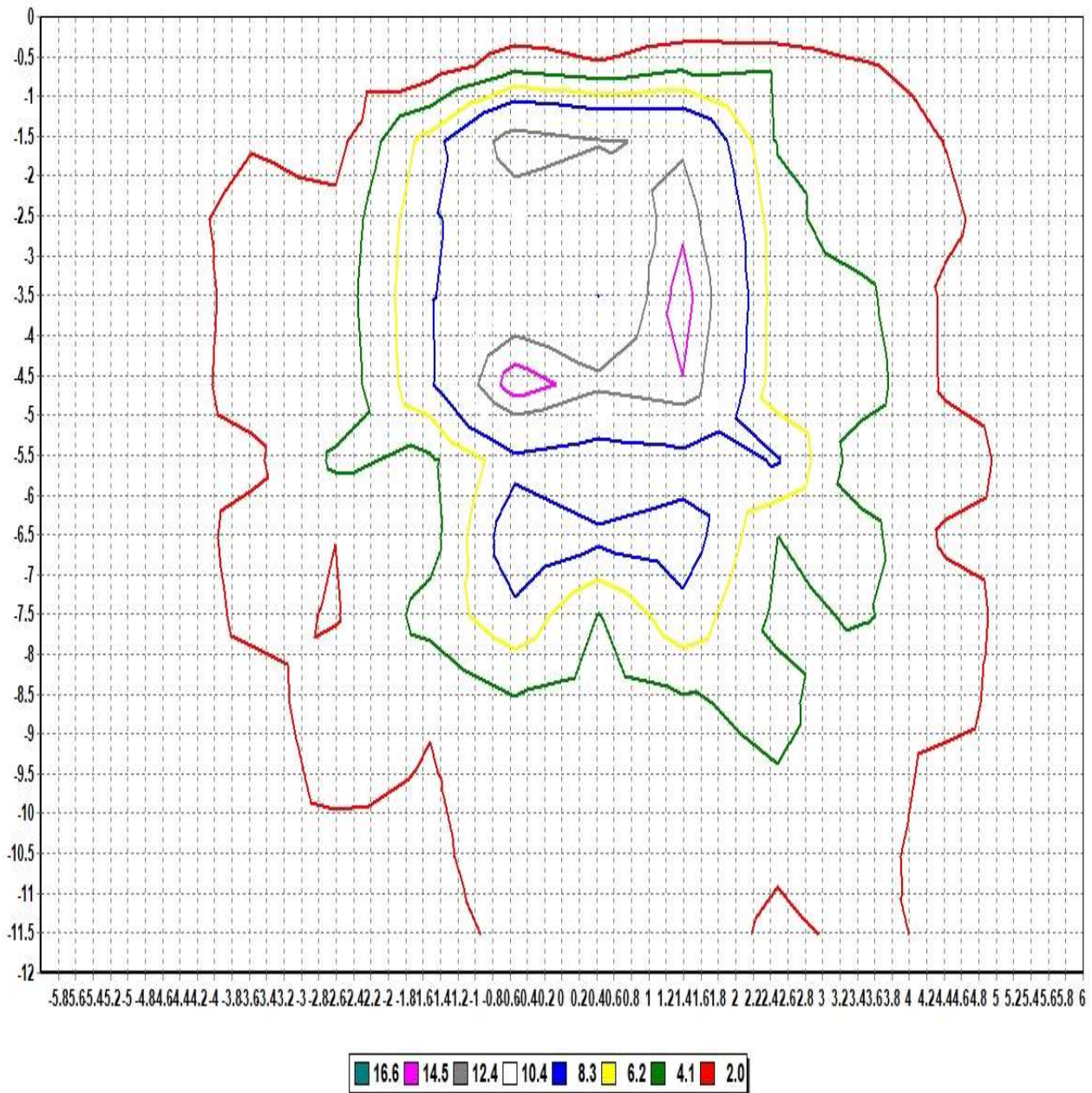
Operator

Total flux (lm) 1374

Power Factor 1

Date 2023-06-08 오후 4:50:20

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

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Total flux (lm)	1374	Power Factor	1

Report 230608

Filename 230608 FNL3D 24K C90 1m 45도.jdt

Operator

Date 2023-06-08 오후 4:50:20

Illuminance Levels (Ground)

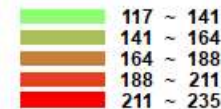
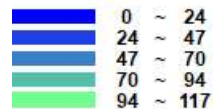
6.00	0.28	0.39	0.24	0.31	0.42	0.52	0.57	0.53	0.37	0.25	0.23	0.36	0.21
5.00	0.29	0.25	0.41	0.64	1.46	1.78	1.92	1.79	1.39	0.61	0.38	0.17	0.27
4.00	0.14	0.29	1.24	1.90	1.67	2.33	2.60	2.33	1.48	1.87	1.09	0.27	0.15
3.00	0.29	0.39	1.68	2.07	5.46	5.23	6.25	5.11	5.38	1.69	1.73	0.40	0.24
2.00	0.35	1.38	1.61	5.01	7.30	13.10	18.31	12.60	6.90	5.08	1.43	1.34	0.31
1.00	0.57	2.11	2.49	4.99	12.97	39.61	130.92	37.94	12.50	4.98	2.67	2.19	0.71
0.00	0.72	2.63	3.49	8.94	29.82	182.39	234.52	127.45	16.95	5.78	2.05	1.71	0.35
-1.00	0.43	1.88	2.40	7.48	20.84	67.29	185.64	67.91	21.06	7.58	2.56	1.95	0.50
-2.00	0.63	2.09	2.51	8.31	10.85	20.81	30.05	21.03	11.03	8.48	2.63	2.15	0.79
-3.00	0.51	0.82	2.65	2.94	8.30	7.54	9.18	7.62	8.44	3.17	2.72	1.04	0.64
-4.00	0.31	0.57	1.76	2.72	2.55	3.48	3.86	3.48	2.63	2.76	1.85	0.74	0.46
-5.00	0.54	0.37	0.72	1.06	2.12	2.59	2.77	2.58	2.16	1.11	0.79	0.54	0.61
-6.00	0.40	0.60	0.47	0.53	0.72	0.94	1.00	0.93	0.81	0.65	0.51	0.62	0.46
-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.) : 234.52

Illum. (Min.) : 0.1443

Illum. (Avg.) : 9.6672

All illuminance level values are in lux.



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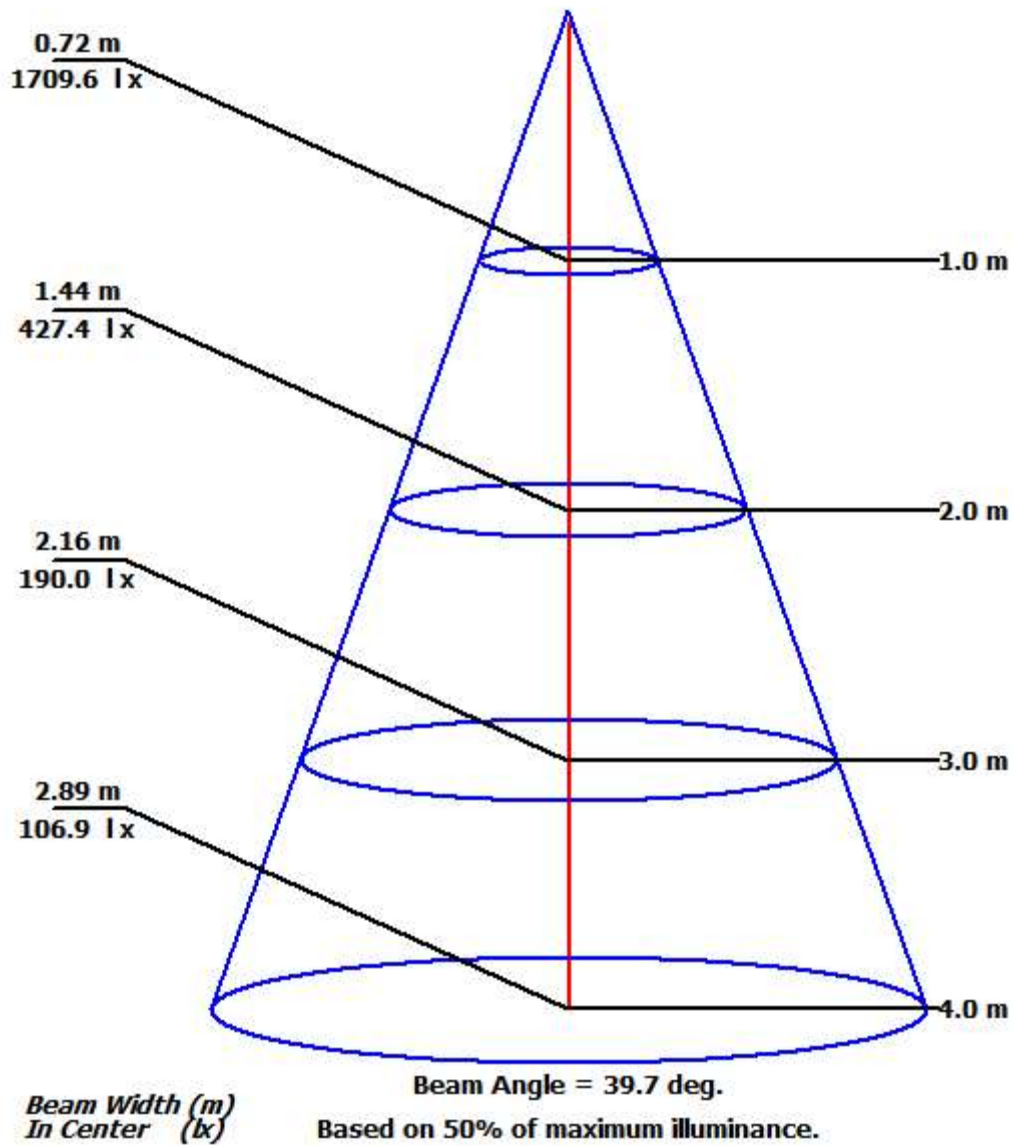
Operator

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Power Factor 1

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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