

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84
* Date of Receipt : 230508

2. Purpose of Report :

3. Number of Report : 230509

4. Test Standard / Item : / FNL3D-40K-C90-45도-1m

5. Test Period : 230508 ~ 230508

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
230509			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.3882 , 0.3791	
Correlated Color Temperature	K	3814	
Ra		92.57	
Power Factor		1.000	
Input Voltage	V	23.905	
Input Current	A	0.755	
Input Watt	W	18.059	
Lamp Flux	lm	1540.7	
Efficient	lm/W	85.32	
luminous Intensity (Max , Center)	cd	1902 , 1902	
Illuminance	lx	1902	1 m
		475	2 m
		211	3 m

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

230509

No. of lamps 1

Voltage (V) 23.905

Filename FNL3D-40K-C90-45도-1m.jdt

Lamp flux (lm) 1541

Current (A) 0.7554

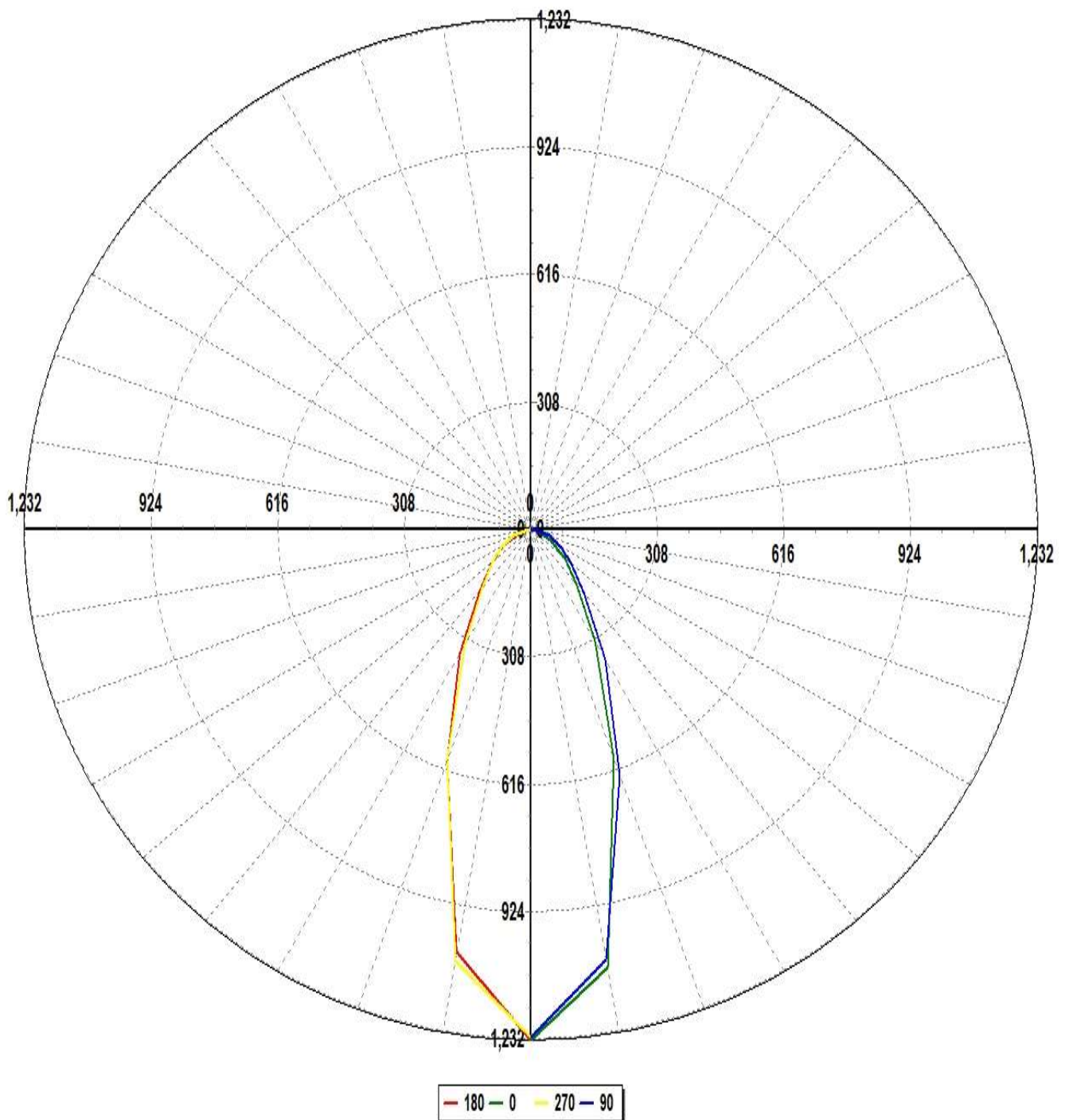
Operator

Total flux (lm) 1541

Power Factor 1

Date 2023-05-09 오후 12:51:57

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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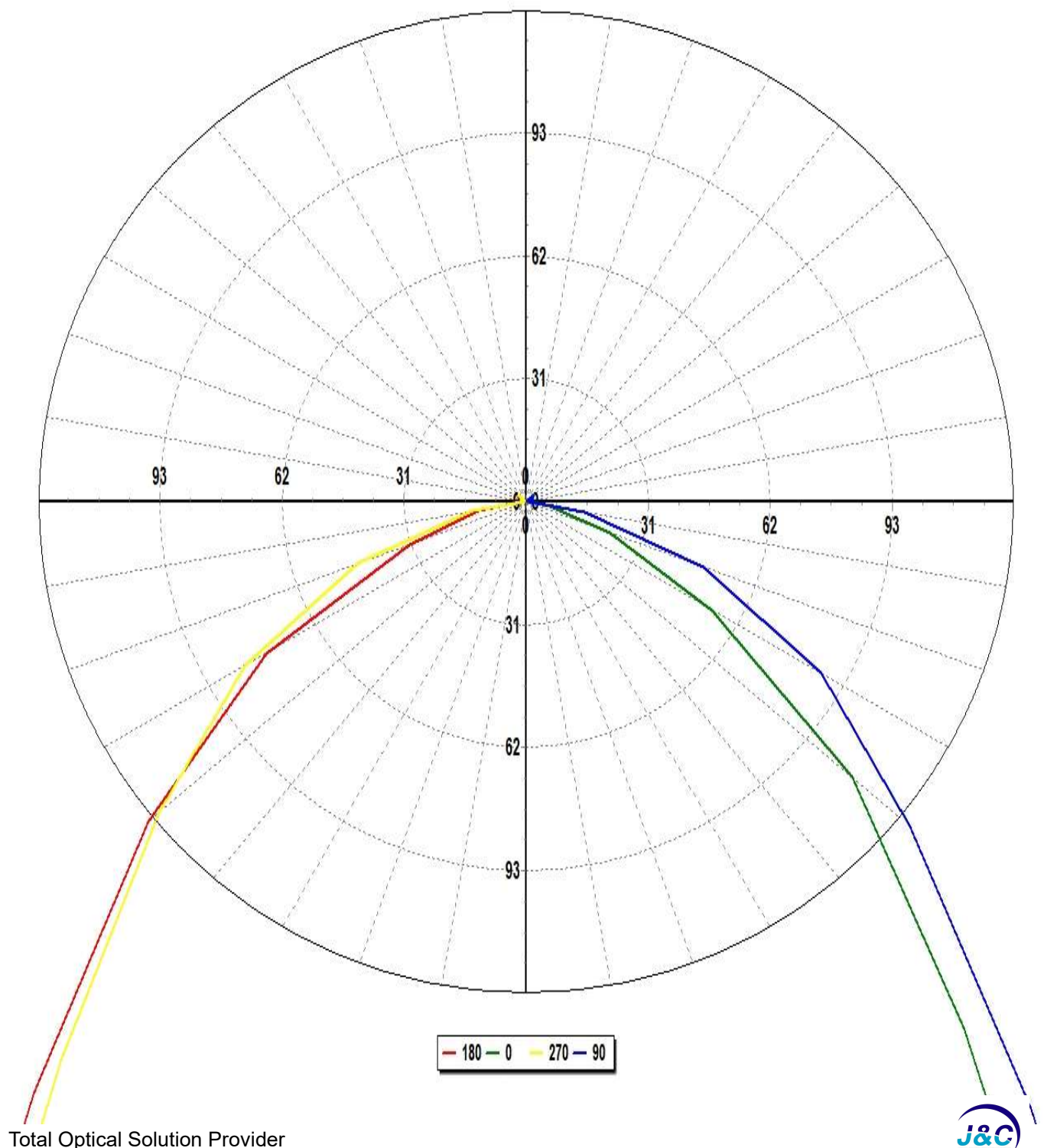
Operator

Total flux (lm) 1541

Power Factor 1

Date 2023-05-09 오후 12:51:57

Luminous Intensity Distribution (Lowest 10%)



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Luminous Intensity Data

Maximum (cd) : 1902

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270
0	1901.63	1897.77	1889.65	1888.39	1881.79	1876.74	1901.63	1897.77	1889.65	1888.39
10	1656.22	1569.22	1718.6	1626.82	1719.19	1562.44	1598.71	1677.12	1531.25	1631.64
20	910.17	888.18	1008.59	973.05	1022.16	900.54	919.82	954.18	869.41	915.67
30	480.54	497.74	542	556.44	558.97	518.29	530.74	519.04	500.45	491.75
40	266.82	275.36	297.9	307.25	311.23	292.81	299.47	295.65	289.08	282.95
50	166.66	174.27	188.9	196.13	197.25	189.85	192.95	191.24	189.84	187.7
60	83.92	101.42	123.71	133.12	133.66	126.07	117.41	127.54	126.11	126.92
70	34.74	39.15	63.67	73.88	74.78	54.09	48.51	54.98	68.35	69.87
80	9.37	11.32	15.32	23.28	22.96	18.58	18.8	18.18	20.13	21.24
90	0.55	1.03	1.32	1.17	1.71	2.51	2.31	1.94	1.44	0.65
100	0.82	1.45	0.88	1.32	0.85	1.25	0.82	1.07	1.36	0.96
110	1.45	1.87	0.96	1.45	1.93	1.8	1.04	1.64	1.95	2.54
120	2.81	2.75	3.09	2.79	2.5	3.04	2.89	2.35	2.69	2.33
130	4.18	4.01	3.79	3.85	3.46	4.02	3.42	3.45	4.11	4.4

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.905
Lamp flux (lm)	1541	Current (A)	0.7554
Total flux (lm)	1541	Power Factor	1

Report

230509

Filename FNL3D-40K-C90-45도-1m.jdt

Operator

Date 2023-05-09 오후 12:51:57

Luminous Intensity Data (Continued)

Maximum (cd) : 1902

Minimum (cd) : 1

G/C	300	330	360
0	1881.79	1876.74	1901.63
10	1509.62	1652.75	1656.22
20	845.02	922.8	910.17
30	479.94	491.48	480.54
40	276.24	275.41	266.82
50	179.56	177.07	166.66
60	117.72	107.77	83.92
70	60.43	42.68	34.74
80	14.8	12.47	9.37
90	0.76	1.66	0.55
100	0.82	1.07	0.82
110	2	1.94	1.45
120	3.05	2.72	2.81
130	4.97	3.62	4.18

Luminaire KH FEELUX

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Power Factor 1

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Luminous Flux Table

Total Lamp Lumens: 1540.7

Luminaire Efficiency (lm/W): 85.32

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	45.17	45.17	2.93	2.93
10	308.32	353.49	22.94	22.94
20	347.42	700.91	45.49	45.49
30	281.45	982.35	63.76	63.76
40	203.58	1185.94	76.97	76.97
50	156.01	1341.95	87.10	87.10
60	112.66	1454.62	94.41	94.41
70	58.76	1513.37	98.23	98.23
80	18.56	1531.93	99.43	99.43
90	1.56	1533.49	99.53	99.53
100	1.14	1534.62	99.61	99.60
110	1.77	1536.39	99.72	99.72
120	2.61	1539.00	99.89	99.89
130	1.71	1540.71	100.00	100.00

Luminaire KH FEELUX

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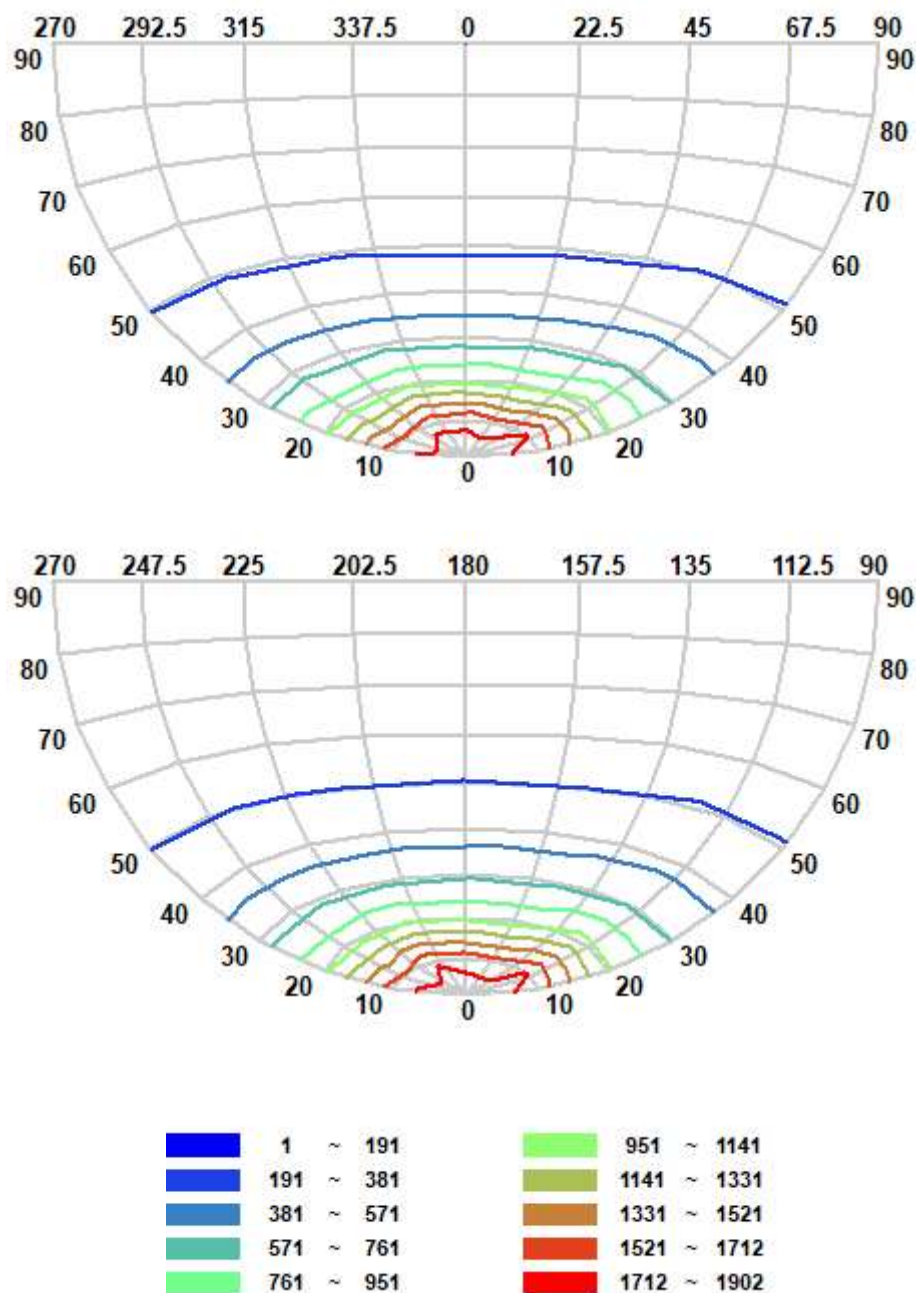
Operator

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Power Factor 1

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IsoCandela (Type C)



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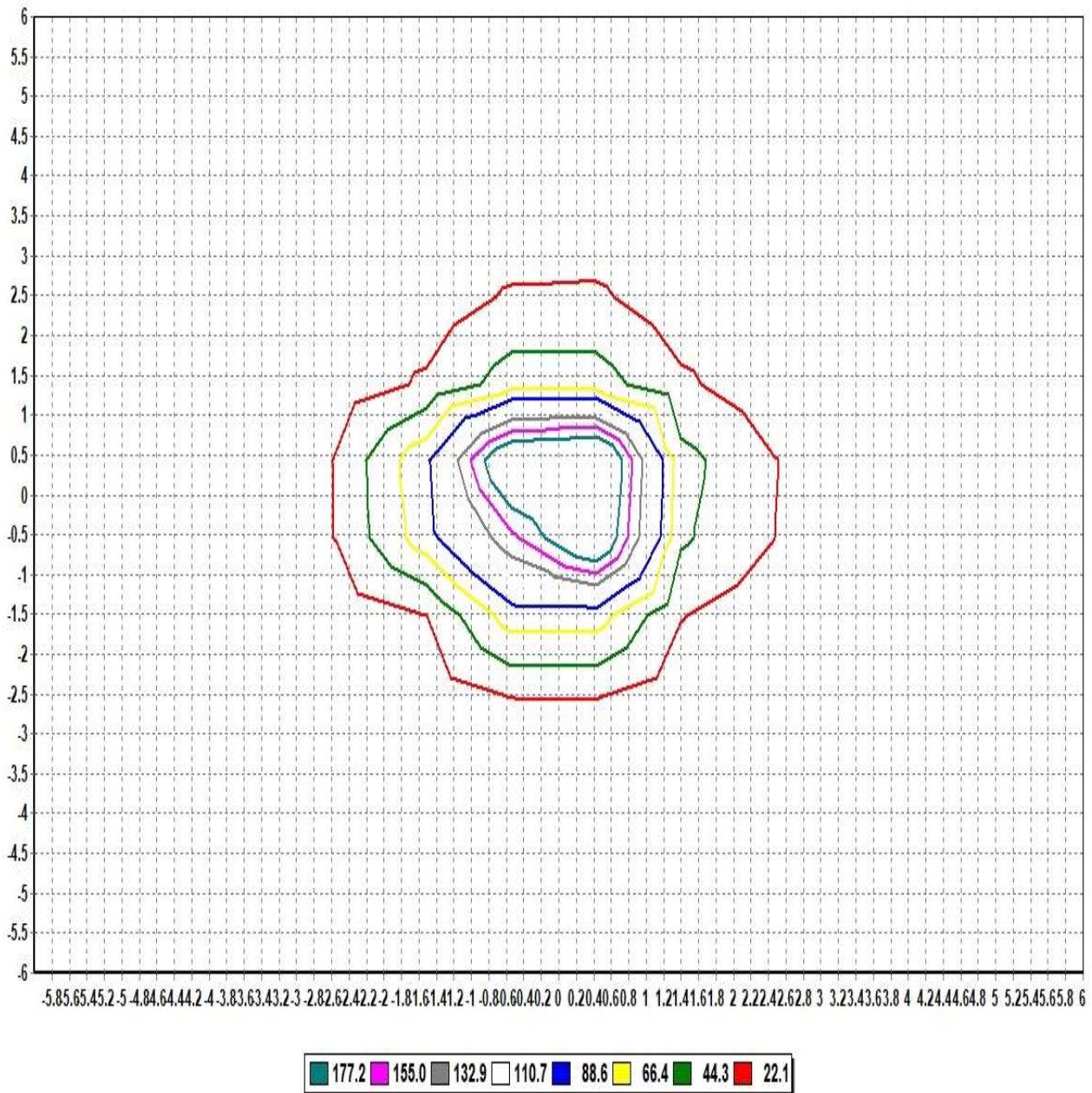
Operator

Total flux (lm) 1541

Power Factor 1

Date 2023-05-09 오후 12:51:57

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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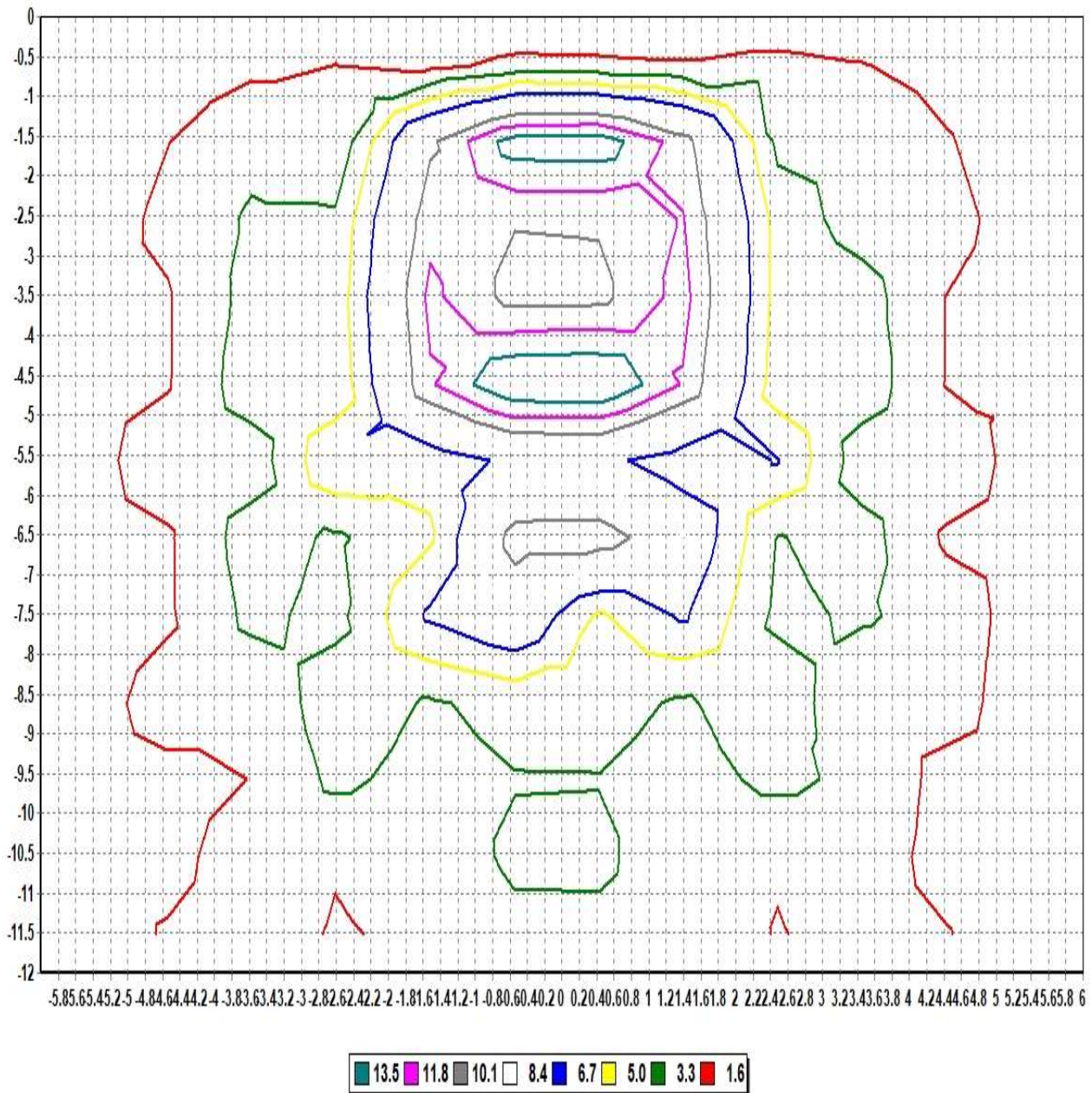
Operator

Total flux (lm) 1541

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)	23.905
Lamp flux (lm)	1541	Current (A)	0.7554
Total flux (lm)	1541	Power Factor	1

Report 230509

Filename FNL3D-40K-C90-45도-1m.jdt

Operator

Date 2023-05-09 오후 12:51:57

Illuminance Levels (Ground)

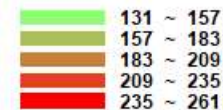
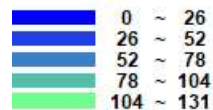
6.00	0.46	0.61	0.46	0.61	0.77	0.83	0.94	0.86	0.56	0.38	0.38	0.53	0.30
5.00	0.58	0.50	0.73	1.04	2.17	2.50	2.73	2.53	1.91	0.94	0.60	0.26	0.41
4.00	0.36	0.64	1.85	2.74	2.67	3.36	3.81	3.37	2.12	2.57	1.49	0.41	0.22
3.00	0.60	0.91	2.67	3.16	8.05	7.60	8.96	6.95	7.71	2.38	2.28	0.60	0.36
2.00	0.72	2.15	2.65	7.74	10.75	20.05	28.02	17.94	9.37	6.97	2.04	1.81	0.46
1.00	0.71	2.49	3.25	7.50	19.94	63.06	181.63	55.85	17.71	6.62	2.73	2.21	0.58
0.00	0.74	2.66	3.55	8.79	27.03	178.36	260.86	184.62	24.27	7.66	2.81	2.25	0.53
-1.00	0.74	2.48	3.25	7.40	19.07	59.31	181.95	55.19	17.78	6.89	2.70	2.17	0.54
-2.00	0.62	2.09	2.53	7.84	10.42	18.99	25.30	17.83	9.88	7.22	2.34	1.94	0.60
-3.00	0.49	0.84	2.66	2.97	7.63	7.35	8.49	7.04	7.44	2.92	2.45	0.76	0.50
-4.00	0.31	0.57	1.76	2.65	2.55	3.31	3.64	3.31	2.38	2.59	1.71	0.53	0.29
-5.00	0.55	0.36	0.66	0.98	2.09	2.47	2.62	2.47	1.99	0.99	0.67	0.44	0.50
-6.00	0.40	0.58	0.41	0.50	0.67	0.84	0.89	0.84	0.68	0.52	0.42	0.57	0.42
-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.) : 260.86

Illum. (Min.) : 0.2245

Illum. (Avg.) : 10.948

All illuminance level values are in lux.



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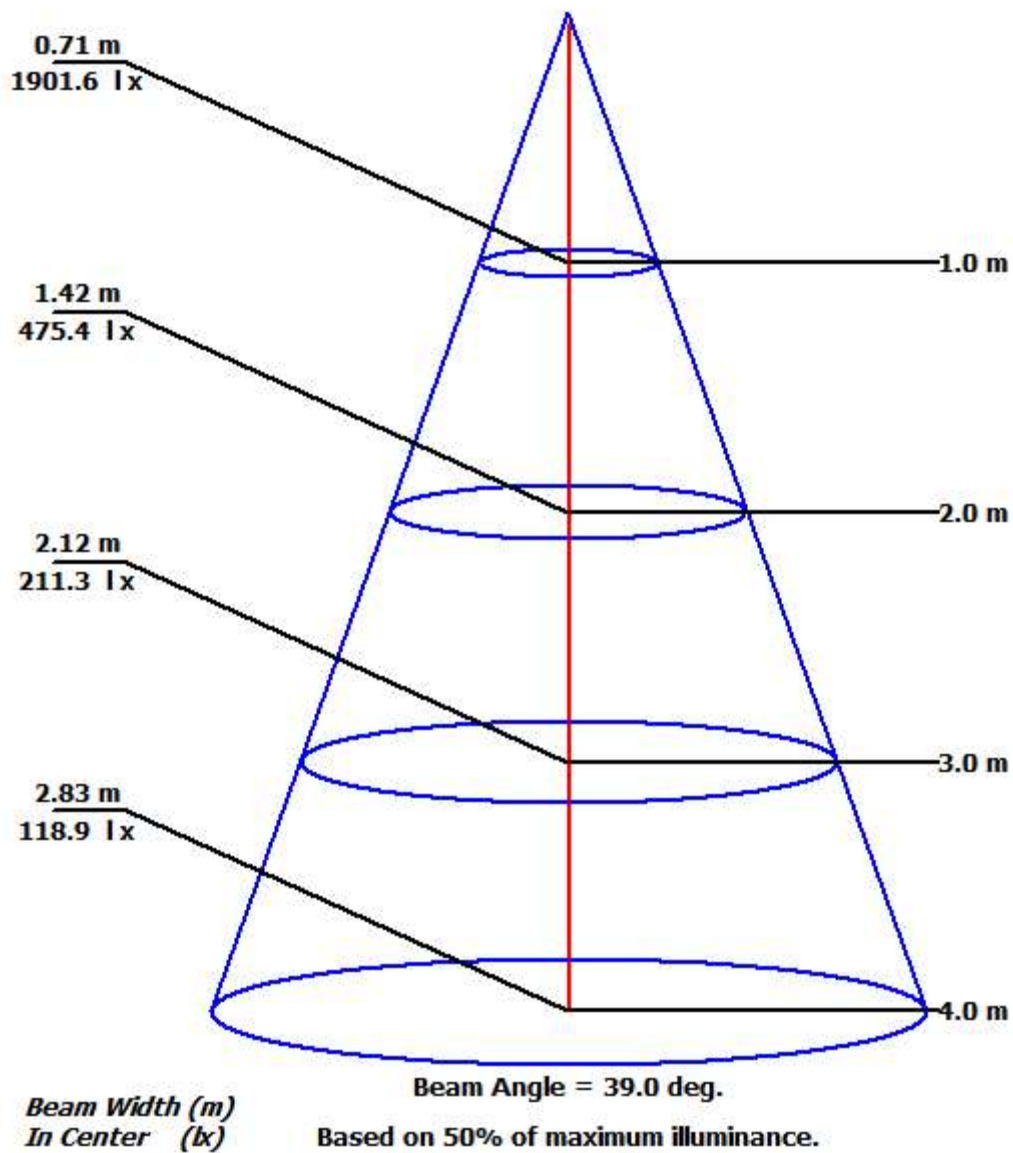
Operator

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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 1541 Current (A) 0.7554

Operator

Total flux (lm) 1541 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