

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844
* Date of Receipt : 230508

2. Purpose of Report :**3. Number of Report :** 230509**4. Test Standard / Item :** / FNL3D-40K-C90-30X60E-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 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
230509			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.3860 , 0.3771	
Correlated Color Temperature	K	3856	
Ra		92.53	
Power Factor		1.000	
Input Voltage	V	23.910	
Input Current	A	0.755	
Input Watt	W	18.046	
Lamp Flux	lm	1466.6	
Efficient	lm/W	81.28	
luminous Intensity (Max , Center)	cd	1995 , 1995	
Illuminance	lx	1995	1 m
		499	2 m
		222	3 m

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.91

Report

230509

Lamp flux (lm) 1467

Current (A) 0.7547

Filename FNL3D-40K-C90-30X60도-1m.jdt

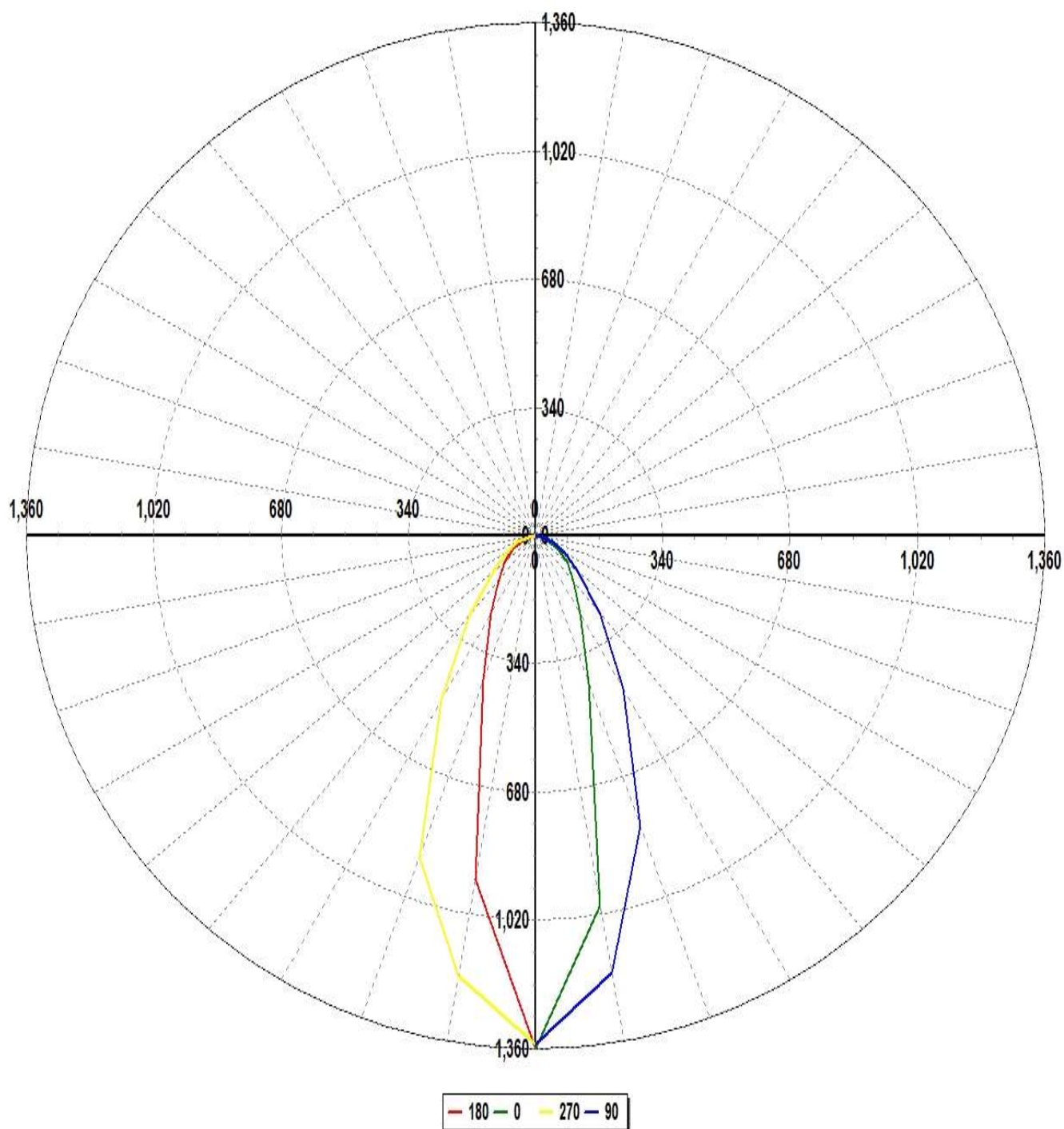
Total flux (lm) 1467

Power Factor 1

Operator

Date 2023-05-09 오후 1:30:05

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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230509

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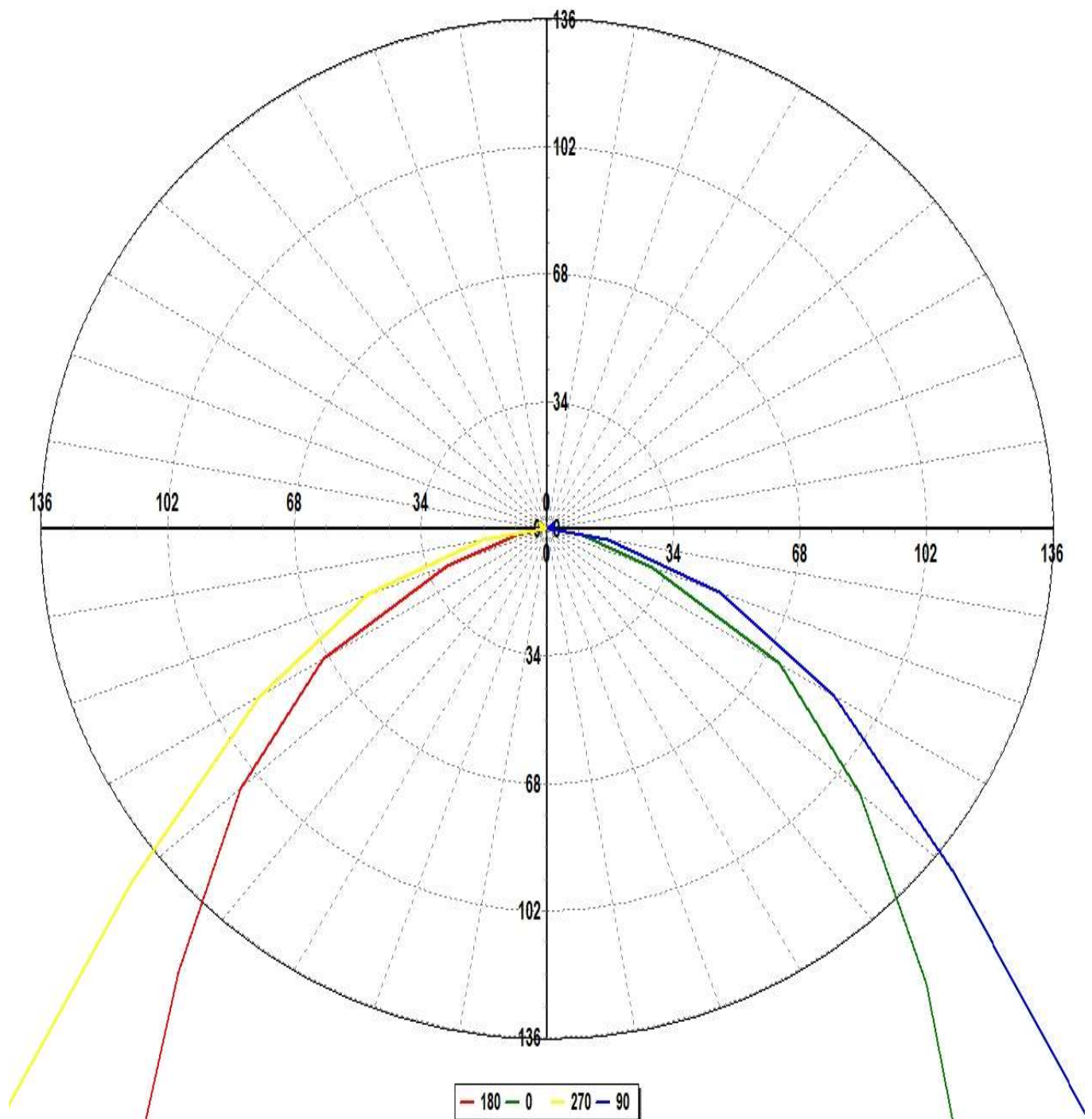
Operator

Total flux (lm) 1467

Power Factor 1

Date 2023-05-09 오후 1:30:05

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Operator

Total flux (lm) 1467

Power Factor 1

Date 2023-05-09 오후 1:30:05

Luminous Intensity Data

Maximum (cd) : 1995

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1995.21	1988.65	1983.09	1979.75	1976.96	1971.45	1995.21	1988.65	1983.09	1979.75
10	1459.87	1337.36	1702.07	1727.49	1734.61	1354	1357.69	1641.32	1655.67	1740.44
20	609.65	630.13	932.32	1203.47	941.82	622.92	596.54	734.26	932.65	1330.69
30	346.66	374.74	515.27	684.24	510.15	364.21	348.1	390.71	532.44	737.53
40	232.77	247.04	301.7	391.33	300.89	237.24	226.74	247.99	308.38	402.57
50	161.03	167.91	187.76	209.94	189.91	162.84	157.92	168.02	192.05	213.57
60	105.92	104.5	114.22	130.75	114.38	102.24	102.18	105.22	113.21	130.98
70	44.07	48.94	61.39	72.49	60.28	43.48	42.1	46.83	60.37	75.01
80	14.03	14.84	18.59	24.21	17.32	12.03	12.31	13.89	18.59	25.63
90	1.45	1.54	1.93	1.11	1.31	1.44	1.17	1.66	1.04	0.85
100	0.53	0.84	1.03	1.48	0.99	0.87	1.17	0.59	0.48	1.59
110	1.46	1.88	1.85	2.45	1.92	1.97	0.94	1.86	2.27	1.63
120	1.42	2.3	2.28	2.86	2.83	3.17	2.15	2.01	2.64	2.99
130	3.61	3.8	2.82	3.52	3.86	3.52	3.35	3.2	3.94	3.97

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Operator

Date 2023-05-09 오후 1:30:05

Luminous Intensity Data (Continued)

Maximum (cd) : 1995

Minimum (cd) : 0

G/C	300	330	360
0	1976.96	1971.45	1995.21
10	1580.82	1577.67	1459.87
20	868.28	700.16	609.65
30	503.77	384.05	346.66
40	299.39	250.35	232.77
50	188.19	173.32	161.03
60	114.06	110.26	105.92
70	61.3	53.61	44.07
80	19.39	16.07	14.03
90	1.96	1.56	1.45
100	0.76	1.61	0.53
110	1.63	1.6	1.46
120	2.34	2.06	1.42
130	4.1	3.54	3.61

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Luminous Flux Table

Total Lamp Lumens: 1466.6

Luminaire Efficiency (lm/W): 81.27

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	47.40	47.40	3.23	3.23
10	299.05	346.45	23.62	23.62
20	315.37	661.82	45.13	45.13
30	259.75	921.57	62.84	62.84
40	202.19	1123.76	76.62	76.63
50	151.89	1275.65	86.98	86.98
60	106.54	1382.19	94.24	94.25
70	57.45	1439.64	98.16	98.16
80	18.60	1458.24	99.43	99.43
90	1.55	1459.79	99.54	99.54
100	1.07	1460.86	99.61	99.61
110	1.84	1462.70	99.73	99.74
120	2.30	1465.00	99.89	99.89
130	1.57	1466.57	100.00	100.00

Luminaire KH FEELUX

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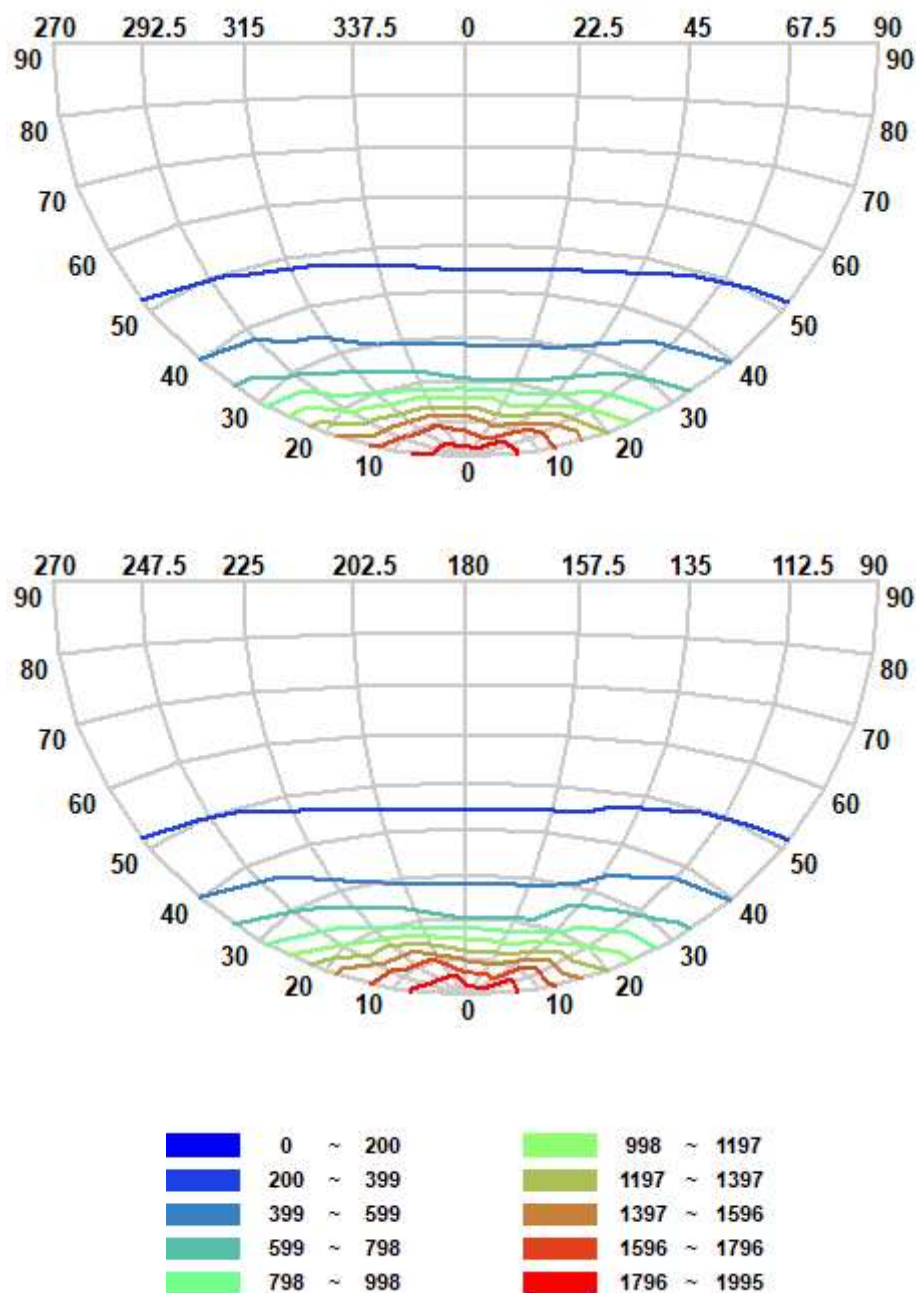
Operator

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Power Factor 1

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IsoCandela (Type C)



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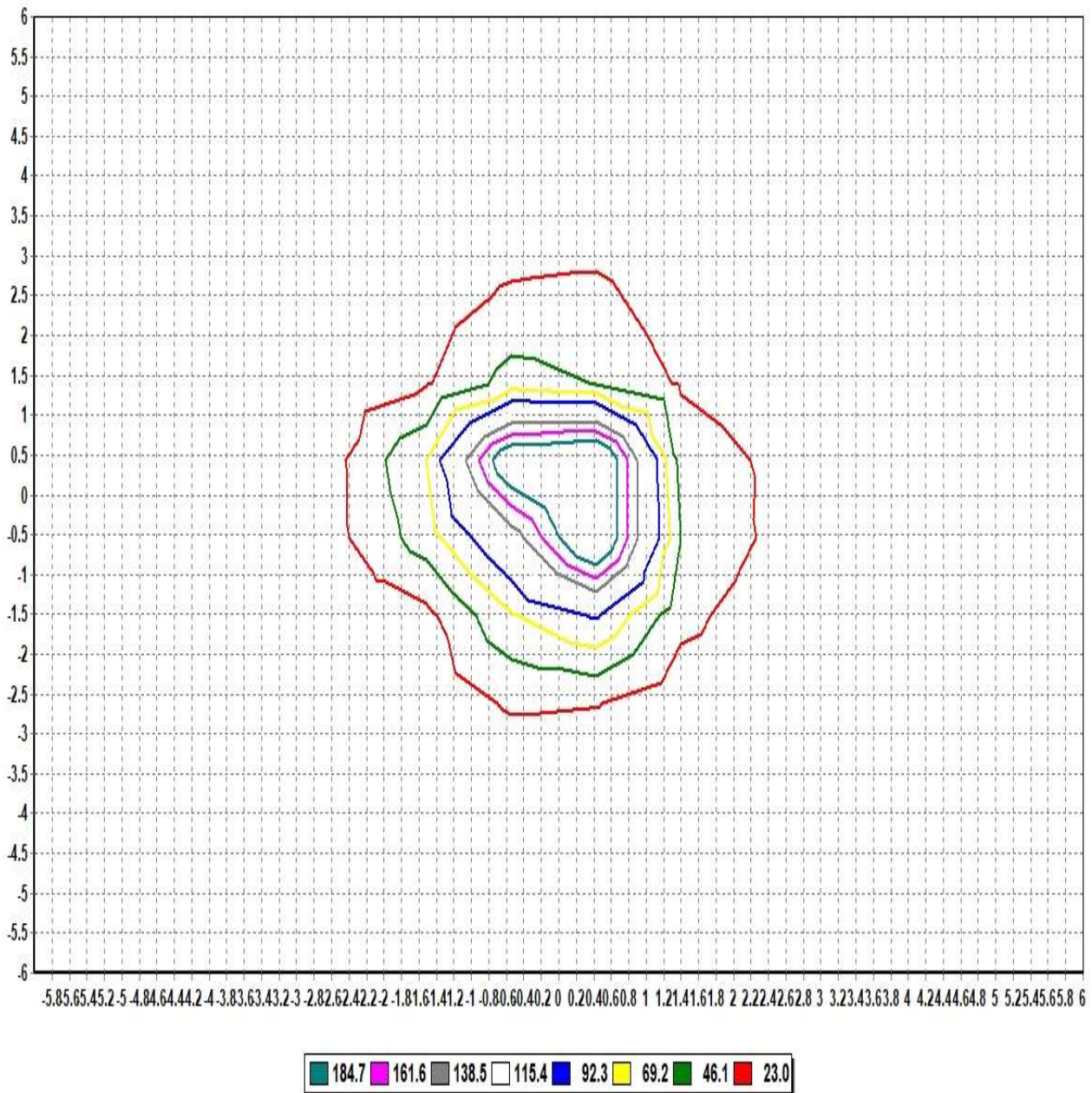
Operator

Total flux (lm) 1467

Power Factor 1

Date 2023-05-09 오후 1:30:05

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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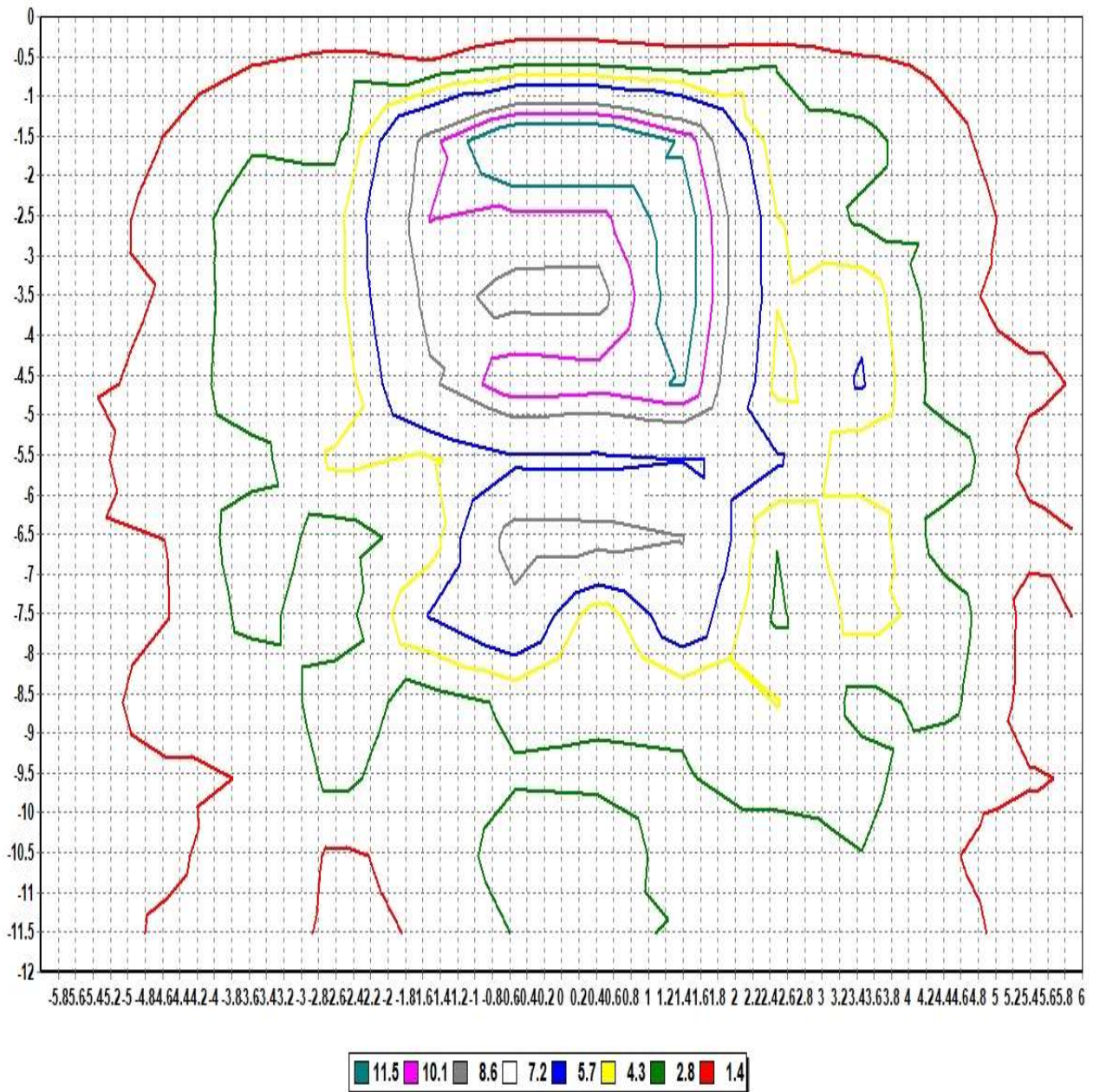
Operator

Total flux (lm) 1467

Power Factor 1

Date 2023-05-09 오후 1:30:05

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)	1467	Current (A)	0.7547
Total flux (lm)	1467	Power Factor	1

Report

230509

Filename FNL3D-40K-C90-30X60도-1m.jdt

Operator

Date

2023-05-09 오후 1:30:05

Illuminance Levels (Ground)

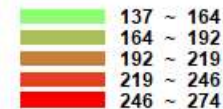
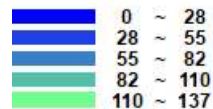
6.00	0.42	0.57	0.44	0.52	0.68	0.79	0.92	0.84	0.59	0.44	0.37	0.51	0.35
5.00	0.48	0.44	0.69	1.02	2.09	2.53	2.90	2.61	1.87	0.88	0.59	0.32	0.48
4.00	0.29	0.52	1.81	2.83	2.36	3.30	3.91	3.33	2.14	2.53	1.51	0.50	0.28
3.00	0.49	0.74	2.33	3.01	9.61	7.68	10.10	6.76	7.69	2.54	2.26	0.75	0.42
2.00	0.59	1.96	2.30	6.50	11.45	20.01	35.09	16.19	8.68	6.25	2.11	1.80	0.54
1.00	0.60	2.08	2.73	6.92	18.86	67.62	193.49	40.22	15.67	6.35	2.87	2.19	0.67
0.00	0.64	2.19	2.99	7.05	19.14	150.80	273.69	162.03	19.38	7.20	3.08	2.24	0.67
-1.00	0.61	2.09	2.73	6.30	15.71	41.87	195.38	69.94	18.86	7.03	2.86	2.16	0.65
-2.00	0.53	1.79	2.12	6.12	8.59	16.33	36.93	20.01	11.56	6.81	2.31	1.98	0.62
-3.00	0.41	0.73	2.22	2.51	7.84	6.83	10.31	7.70	9.84	3.01	2.44	0.83	0.50
-4.00	0.27	0.49	1.50	2.56	2.15	3.35	3.94	3.33	2.36	2.86	1.82	0.58	0.34
-5.00	0.47	0.31	0.58	0.87	1.88	2.65	2.94	2.58	2.09	1.03	0.70	0.45	0.51
-6.00	0.34	0.50	0.36	0.42	0.58	0.84	0.94	0.79	0.69	0.52	0.45	0.58	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.) : 273.69

Illum. (Min.) : 0.2711

Illum. (Avg.) : 10.745

All illuminance level values are in lux.



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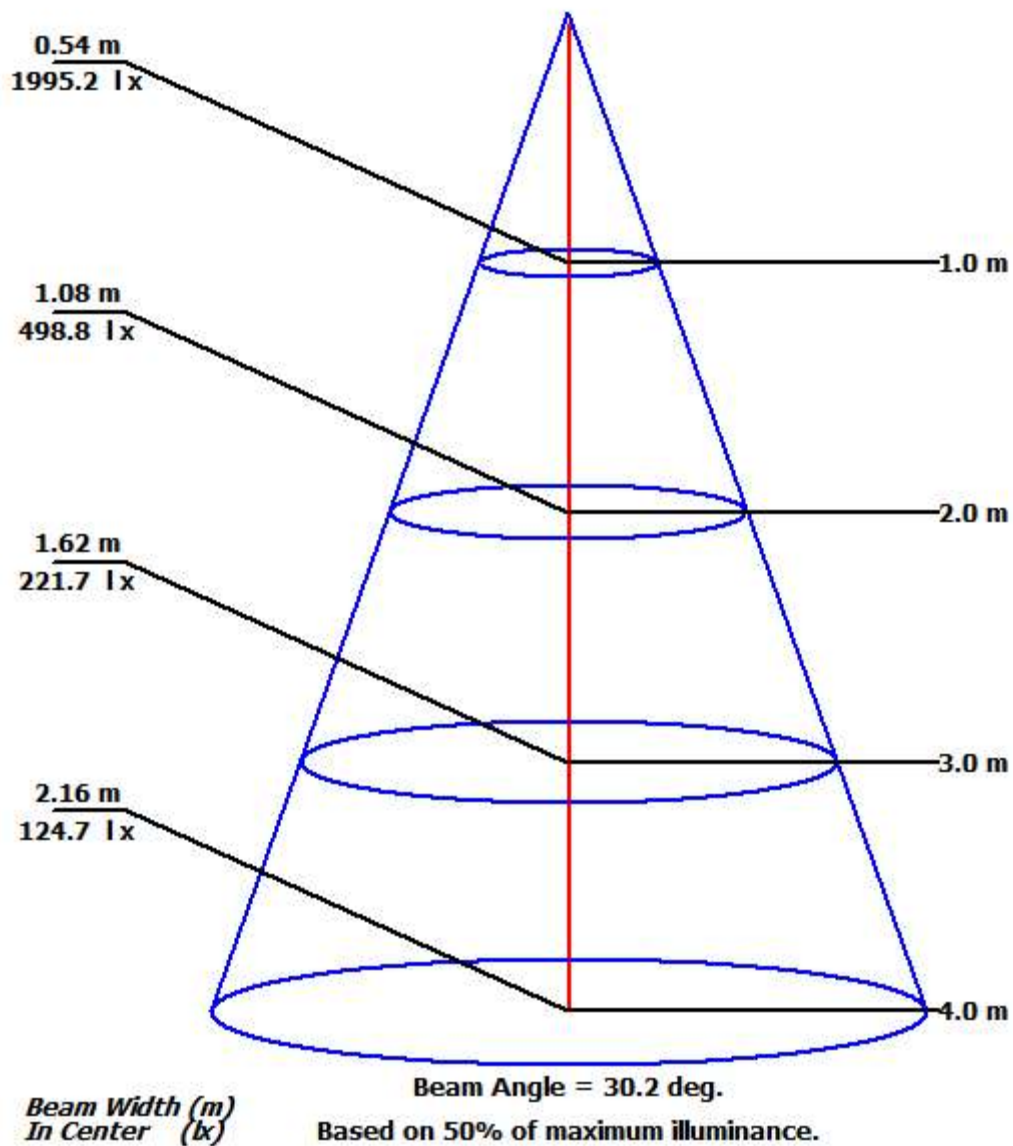
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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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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