

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 : 230508

4. Test Standard / Item : / FNL3D-27K-C90-30X60도-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
230508			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4648 , 0.4166	
Correlated Color Temperature	K	2677	
Ra		91.62	
Power Factor		1.000	
Input Voltage	V	23.909	
Input Current	A	0.766	
Input Watt	W	18.321	
Lamp Flux	lm	1385.9	
Efficient	lm/W	75.65	
luminous Intensity (Max , Center)	cd	1883 , 1868	
Illuminance	lx	1868	1 m
		467	2 m
		208	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) 23.909

Report

230508

Lamp flux (lm) 1386

Current (A) 0.7662

Filename FNL3D-27K-C90-30X60도-1m.jdt

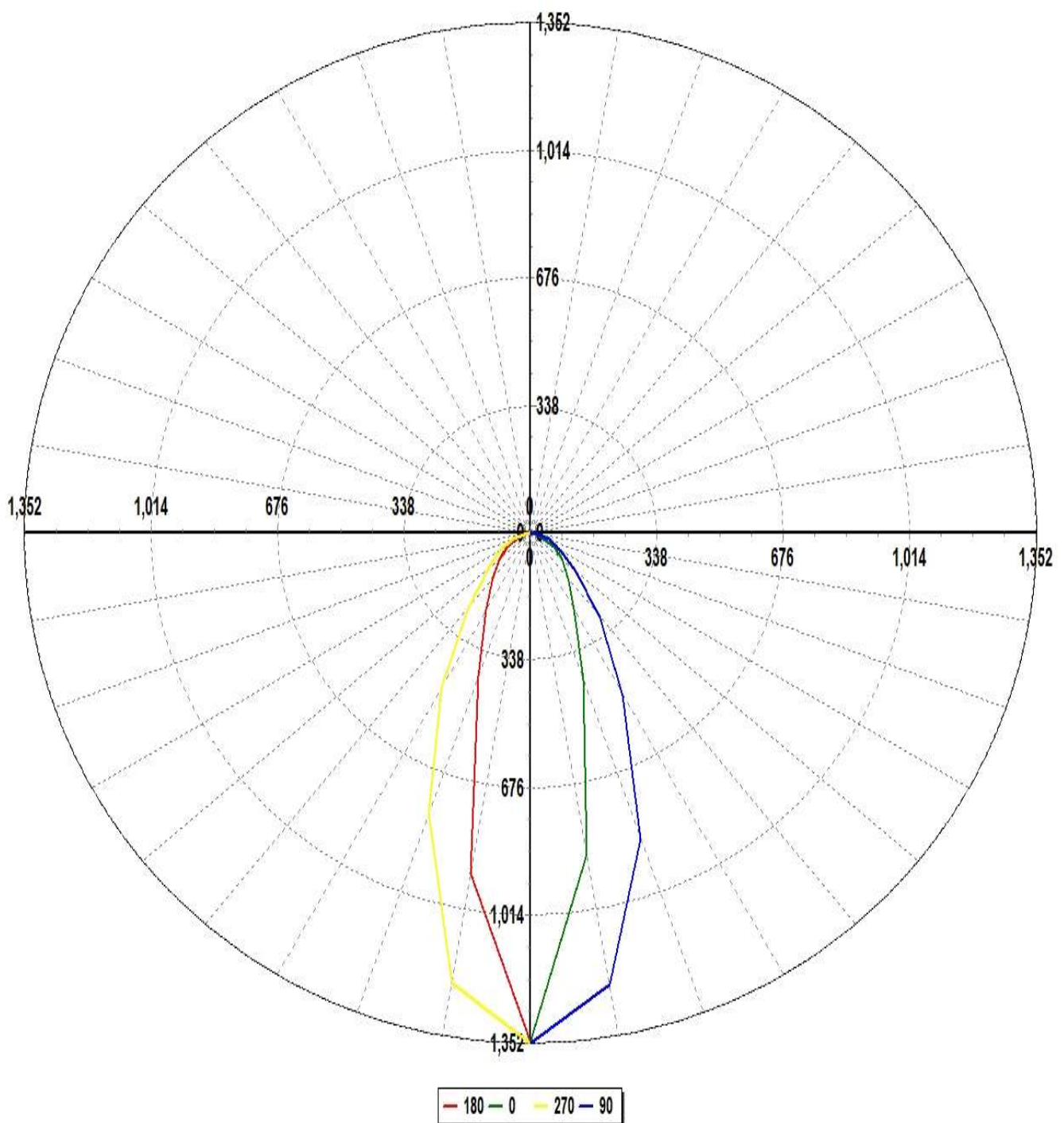
Total flux (lm) 1386

Power Factor 1

Operator

Date 2023-05-08 오후 5:44:55

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

230508

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Voltage (V) 23.909

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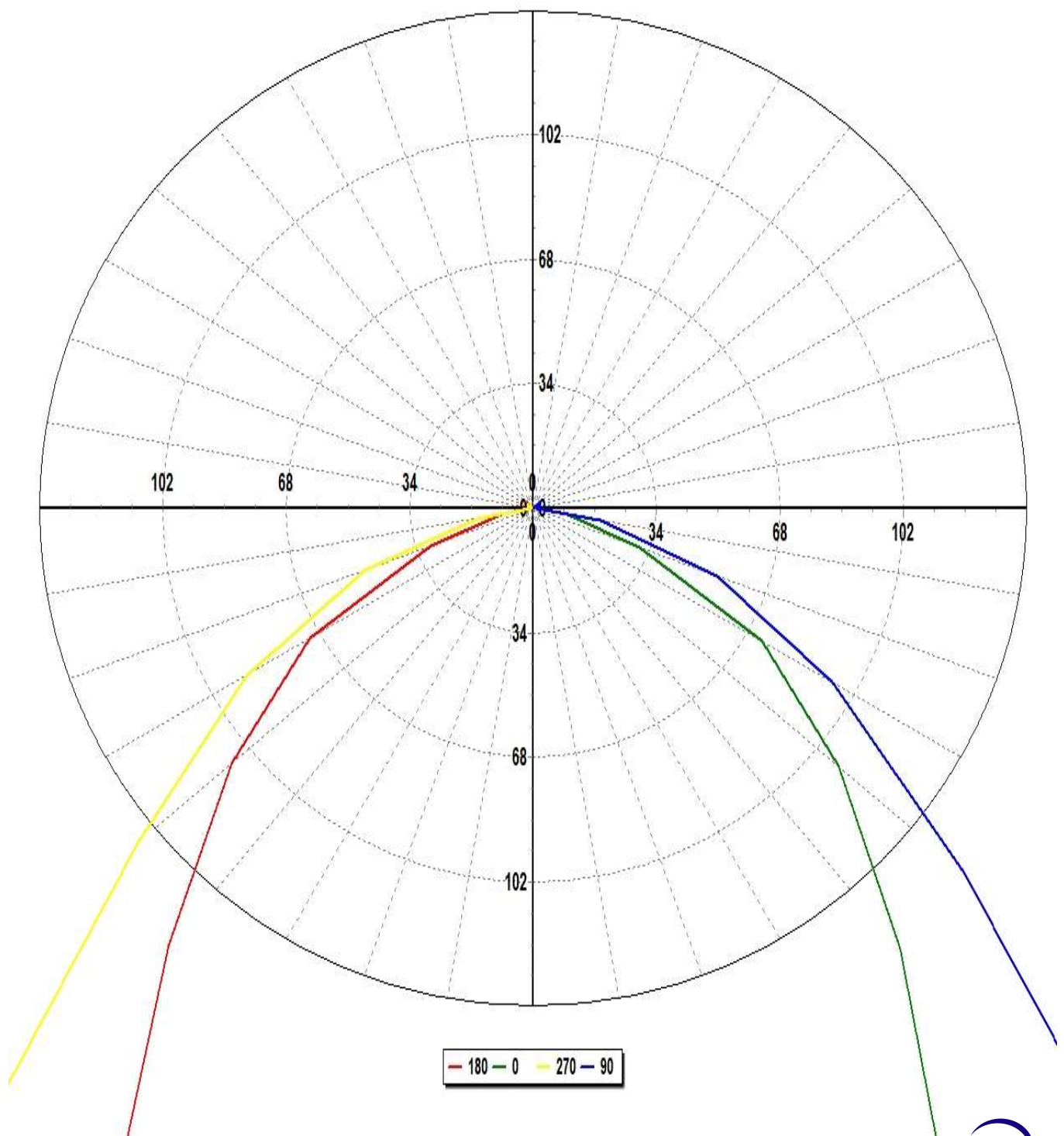
Operator

Total flux (lm) 1386

Power Factor 1

Date 2023-05-08 오후 5:44:55

Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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Operator

Total flux (lm) 1386

Power Factor 1

Date 2023-05-08 오후 5:44:55

Luminous Intensity Data

Maximum (cd) : 1883

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1867.87	1883.17	1878.09	1876.37	1872.82	1867.58	1867.87	1883.17	1878.09	1876.37
10	1202.79	1276.86	1642.92	1685.73	1653.95	1269.14	1269.5	1510.52	1500.08	1679.73
20	576.95	604.46	913.18	1197.6	912.93	595.04	562.82	667.06	824.18	1098.13
30	324.38	356.27	504.7	686.22	498.94	350.96	330.68	359.58	474.71	656.73
40	217.86	233.48	296.75	398.82	296.19	227.85	216.48	232.62	281.45	361.34
50	152.26	160.39	186.06	214.45	188.35	156	150.33	158	176.74	197.03
60	101.08	101.03	112.77	131.72	113.71	98.1	98.27	98.59	105.38	126.35
70	43.13	48.86	62.04	74.78	60.85	44.54	41.47	45.49	55.75	68.17
80	13.13	14.18	20.62	26.02	19.59	12.92	12.27	12.84	15.76	21.51
90	1.22	1.24	2.18	1.3	1.79	1.29	1.74	1.07	1.05	1.04
100	1.35	0.41	1.16	1.23	0.78	0.17	0.48	1.07	1.85	1.38
110	1.25	2.19	2.04	1.66	1.67	1.41	1.13	1.22	2.07	1.97
120	2.09	2.28	2.9	3.16	2.58	2.6	2.4	2.11	2.65	2.23
130	3.46	3.27	3.18	3.78	3.01	3.32	3.18	3.19	3.79	2.85

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.909	Report	230508
Lamp flux (lm)	1386	Current (A)	0.7662	Filename	FNL3D-27K-C90-30X60도-1m.jdt
Total flux (lm)	1386	Power Factor	1	Operator	
				Date	2023-05-08 오후 5:44:55

Luminous Intensity Data (Continued)

Maximum (cd) : 1883

Minimum (cd) : 0

G/C	300	330	360
0	1872.82	1867.58	1867.87
10	1470.57	1490.61	1202.79
20	801.23	664.81	576.95
30	465.36	359.34	324.38
40	277.79	234.77	217.86
50	177.38	162.79	152.26
60	107.24	103.25	101.08
70	58.07	50.86	43.13
80	16.91	15.49	13.13
90	1	1.78	1.22
100	1.36	1.37	1.35
110	1.43	0.93	1.25
120	2.88	1.98	2.09
130	3.88	3.08	3.46

Luminaire KH FEELUX

Lamp

Report

230508

No. of lamps 1

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Current (A) 0.7662

Operator

Total flux (lm) 1386

Power Factor 1

Date 2023-05-08 오후 5:44:55

Luminous Flux Table

Total Lamp Lumens: 1385.9

Luminaire Efficiency (lm/W): 75.65

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	44.81	44.81	3.23	3.23
10	279.77	324.58	23.42	23.42
20	294.00	618.59	44.63	44.63
30	244.96	863.55	62.31	62.31
40	192.16	1055.70	76.17	76.17
50	145.41	1201.12	86.67	86.66
60	102.55	1303.67	94.07	94.06
70	56.09	1359.76	98.11	98.11
80	18.09	1377.85	99.42	99.42
90	1.52	1379.37	99.53	99.53
100	1.13	1380.51	99.61	99.61
110	1.63	1382.14	99.73	99.73
120	2.36	1384.50	99.90	99.90
130	1.45	1385.95	100.00	100.00

Luminaire KH FEELUX

Lamp

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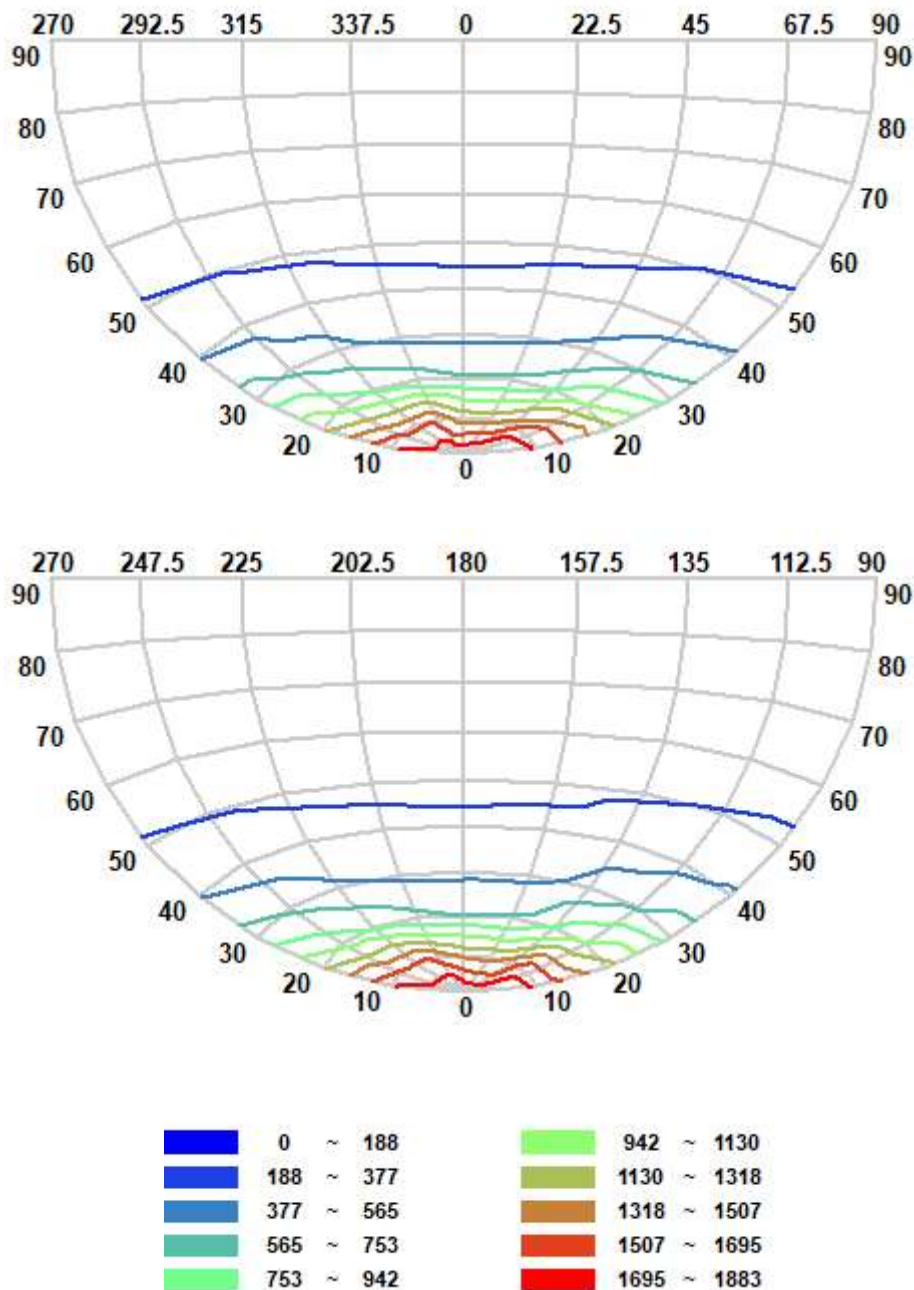
Operator

Total flux (lm) 1386

Power Factor 1

Date 2023-05-08 오후 5:44:55

IsoCandela (Type C)



Luminaire KH FEELUX

Lamp

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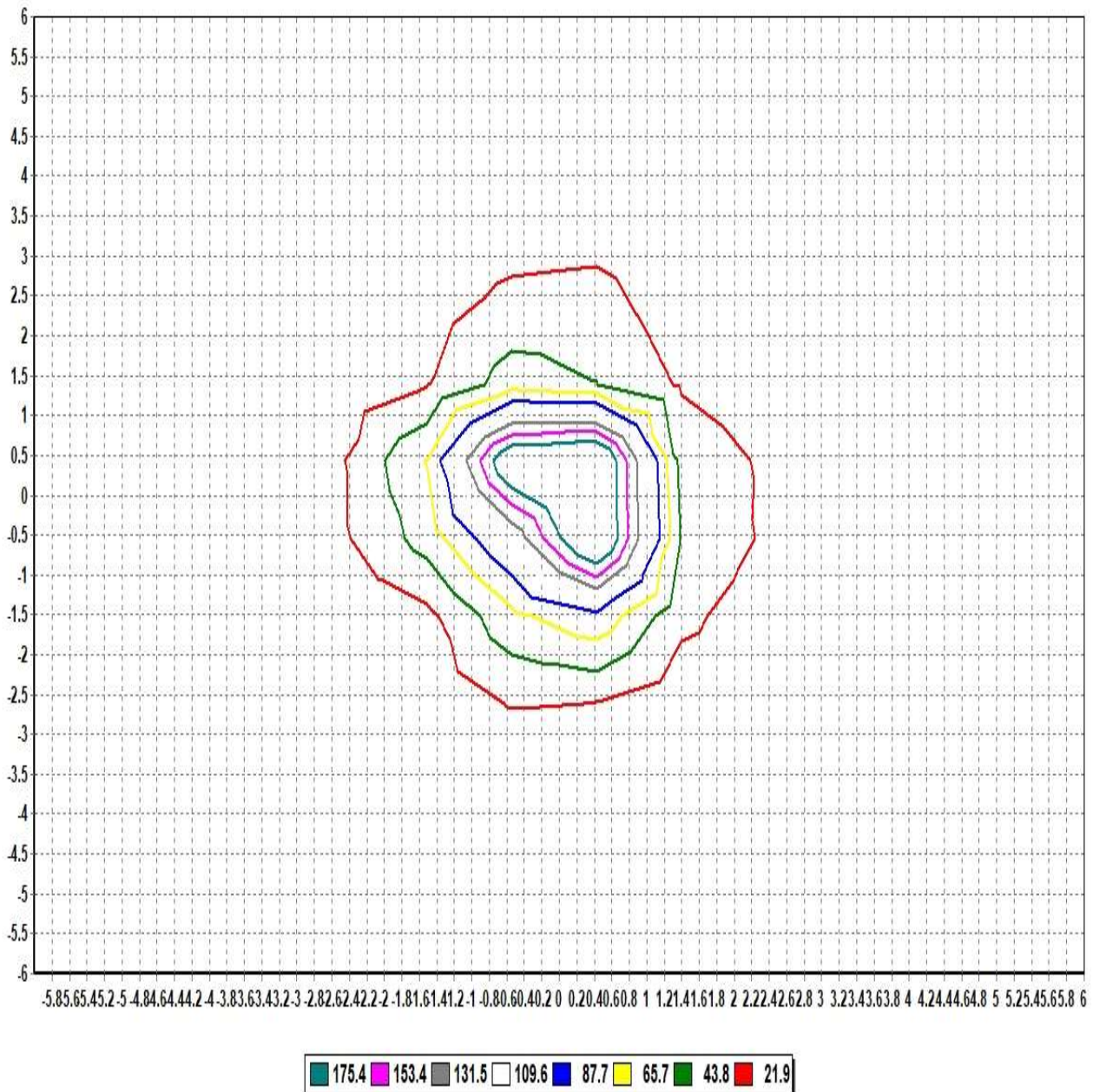
Operator

Total flux (lm) 1386

Power Factor 1

Date 2023-05-08 오후 5:44:55

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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Voltage (V) 23.909

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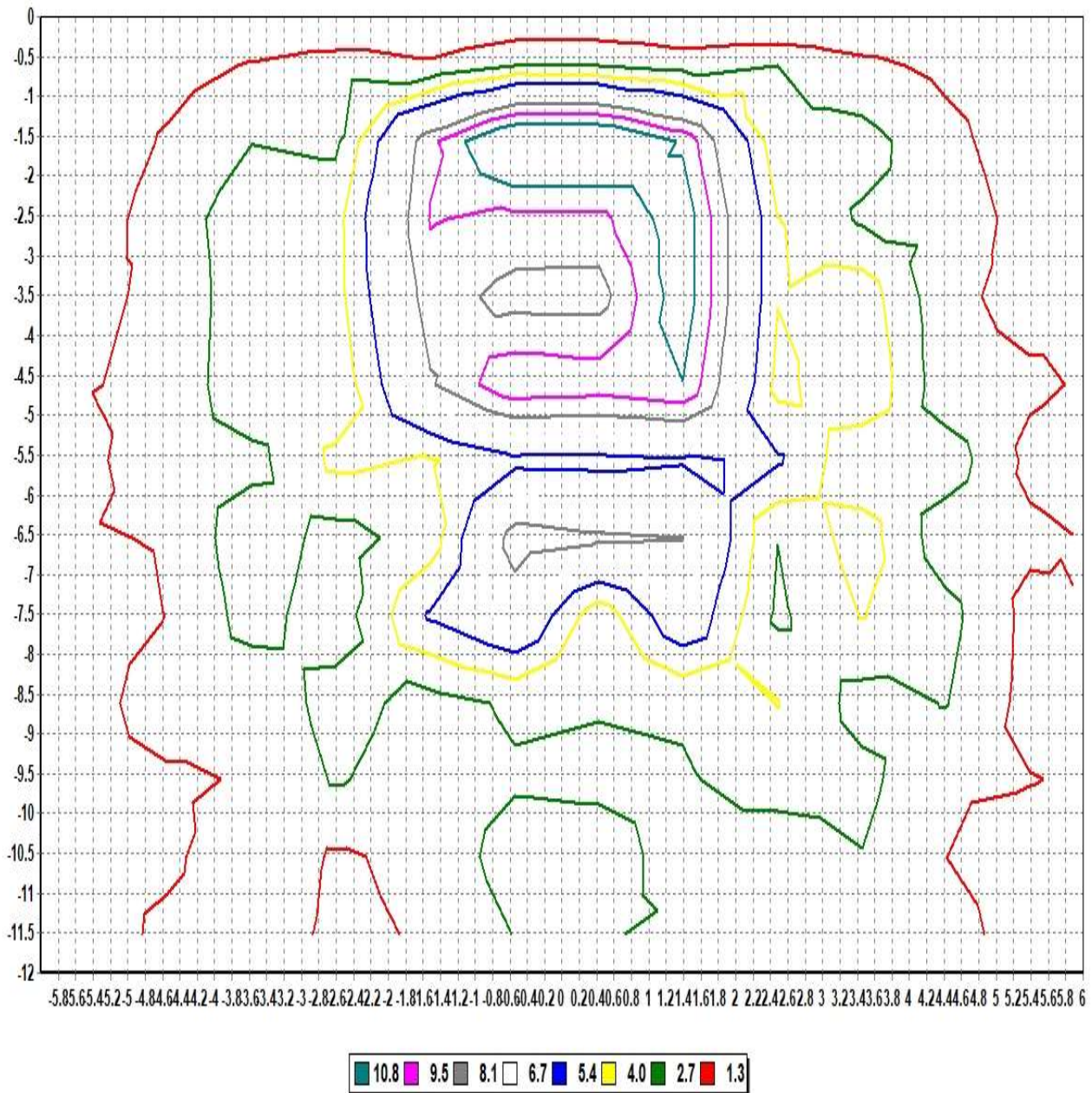
Operator

Total flux (lm) 1386

Power Factor 1

Date 2023-05-08 오후 5:44:55

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)	23.909
Lamp flux (lm)	1386	Current (A)	0.7662
Total flux (lm)	1386	Power Factor	1

Report 230508

Filename FNL3D-27K-C90-30X60도-1m.jdt

Operator

Date 2023-05-08 오후 5:44:55

Illuminance Levels (Ground)

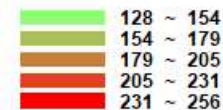
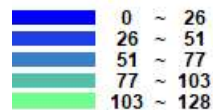
6.00	0.42	0.58	0.45	0.52	0.69	0.80	0.94	0.85	0.58	0.43	0.37	0.50	0.34
5.00	0.47	0.45	0.70	1.04	2.09	2.54	2.96	2.63	1.80	0.88	0.59	0.32	0.46
4.00	0.29	0.52	1.82	2.87	2.35	3.31	3.96	3.34	2.07	2.48	1.44	0.49	0.28
3.00	0.49	0.72	2.26	3.02	9.77	7.70	10.31	6.56	7.54	2.44	2.14	0.73	0.42
2.00	0.59	1.93	2.27	6.26	11.52	19.79	35.49	15.39	8.21	5.87	2.04	1.72	0.53
1.00	0.59	1.98	2.61	6.78	18.52	66.90	188.90	38.07	14.80	6.04	2.71	2.07	0.64
0.00	0.62	2.09	2.86	6.71	18.23	141.02	256.22	133.77	18.14	6.79	2.92	2.12	0.64
-1.00	0.60	2.00	2.61	5.95	14.75	38.97	187.88	62.23	17.52	6.62	2.70	2.04	0.62
-2.00	0.51	1.69	1.99	5.82	8.13	15.24	33.02	18.47	10.65	6.38	2.17	1.86	0.59
-3.00	0.40	0.70	2.11	2.38	7.19	6.36	9.43	7.18	8.90	2.85	2.30	0.78	0.48
-4.00	0.27	0.47	1.42	2.37	2.01	3.14	3.72	3.11	2.22	2.66	1.71	0.54	0.32
-5.00	0.45	0.30	0.54	0.81	1.75	2.45	2.73	2.38	1.96	0.98	0.65	0.42	0.48
-6.00	0.33	0.47	0.34	0.41	0.54	0.79	0.88	0.74	0.65	0.49	0.41	0.55	0.40
-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.) : 256.22

Illum. (Min.) : 0.2658

Illum. (Avg.) : 10.100

All illuminance level values are in lux.



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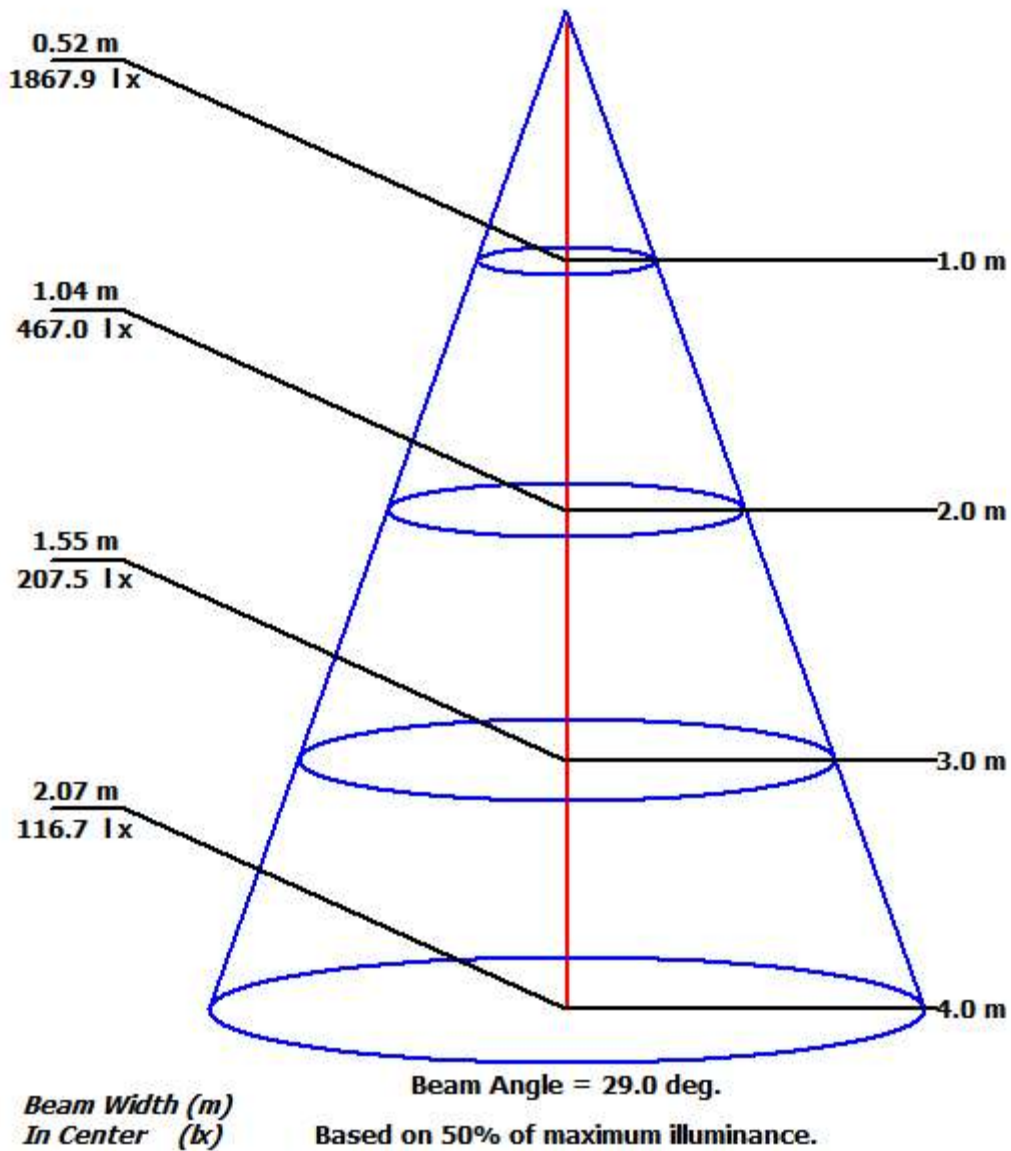
Filename FNL3D-27K-C90-30X60도-1m.jdt

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2023-05-08 오후 5:44:55

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