

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84
* Date of Receipt : 230804

2. Purpose of Report :

3. Number of Report : 230804

4. Test Standard / Item : / 230804 FNL 3D 30K-24V-C90-1M-30Dx60D

5. Test Period : 230804 ~ 230804

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	
	JSY	Sign	JSY	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
230804			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4388 , 0.4043	
Correlated Color Temperature	K	2972	
Ra		91.51	
Power Factor		1.000	
Input Voltage	V	23.901	
Input Current	A	0.803	
Input Watt	W	19.197	
Lamp Flux	lm	1447.7	
Efficient	lm/W	75.41	
luminous Intensity (Max , Center)	cd	1759 , 1746	
Illuminance	lx	1746	1 m
		437	2 m
		194	3 m

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

* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp

Report

230804

No. of lamps 1

Voltage (V)

Filename 230804 FNL 3D 30K-24V-C90-1M-30Dx60D.jdt

Lamp flux (lm) 1448

Current (A)

Operator

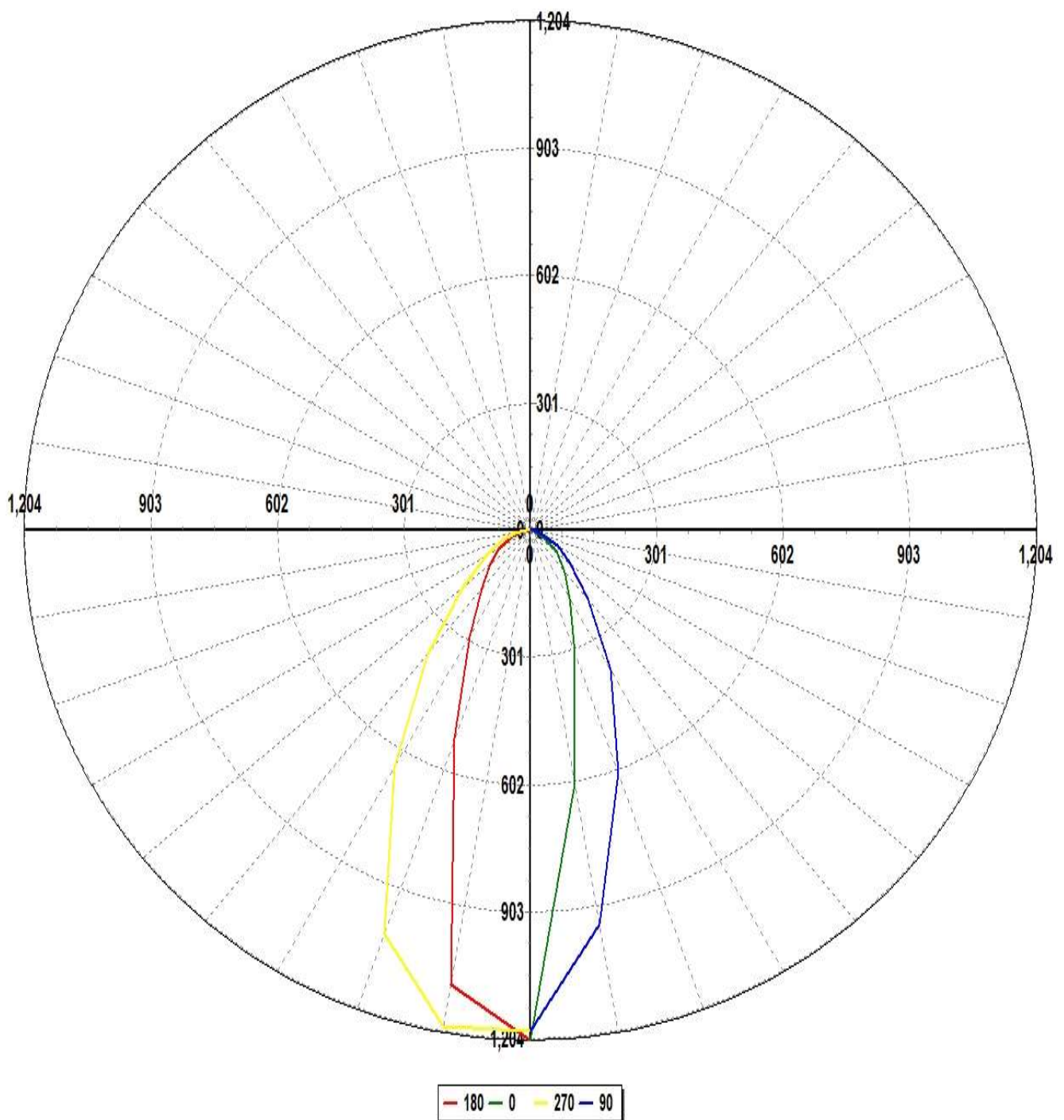
Total flux (lm) 1448

Power Factor

Date 1

2023-08-04 오후 12:25:28

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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Operator

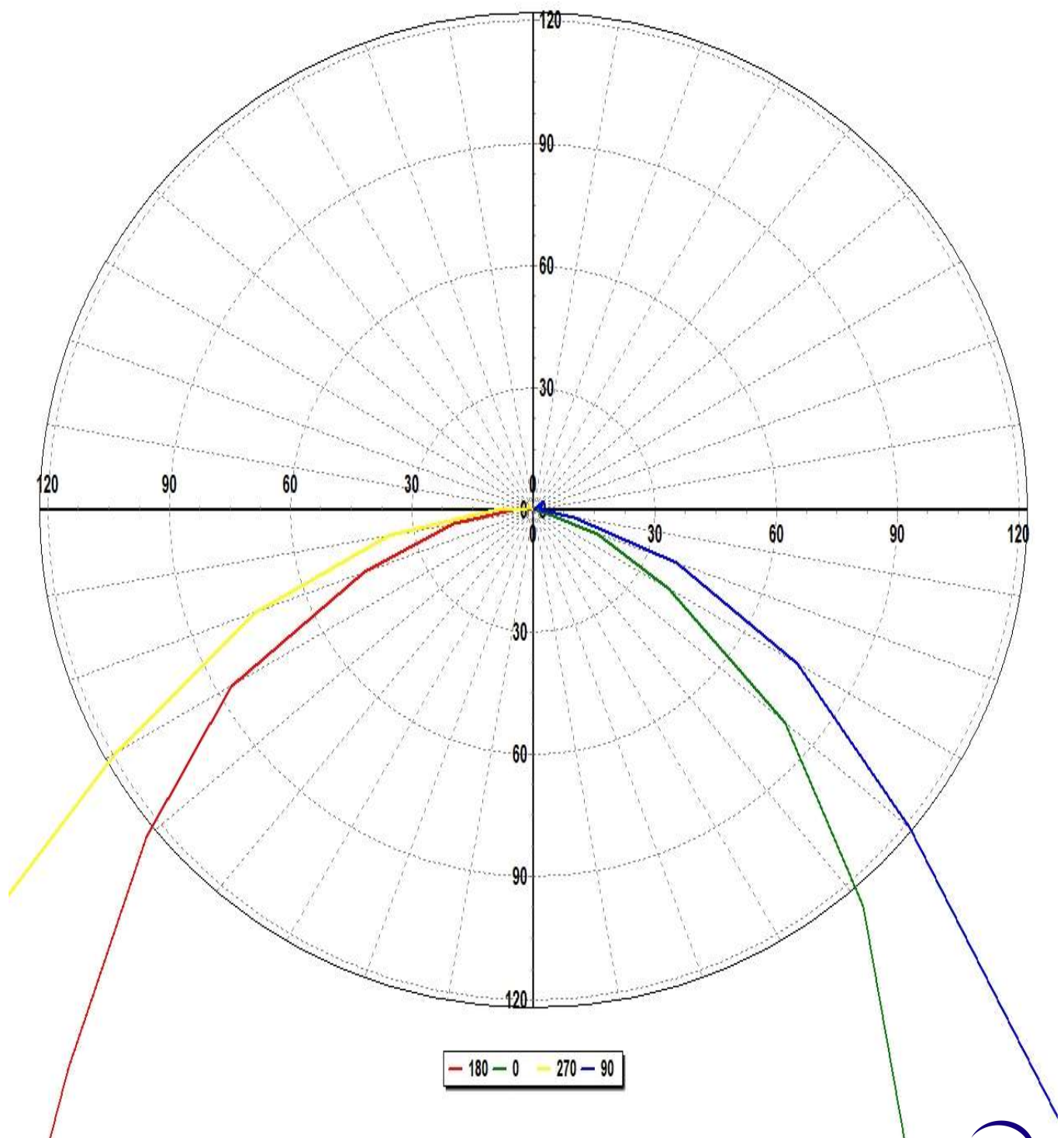
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Power Factor

Date 1

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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Date 1

2023-08-04 오후 12:25:28

Luminous Intensity Data

Maximum (cd) : 1759

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270
0	1746.04	1654.79	1758.68	1714.24	1702.1	1505.02	1746.04	1654.79	1758.68	1714.24
10	883.58	888.09	1209.35	1368.78	1114.76	768.23	1578.67	1723.14	1680.6	1725.64
20	447.43	492.22	694.34	883.35	647.86	437.23	762.73	915.38	1169.8	1471.81
30	268.74	291.87	392.72	550.7	382.25	272.85	419.1	478.31	633.57	934.1
40	183.47	193.5	239.84	307.11	239.6	187.61	259.18	288.88	386.1	551.17
50	117.31	128.42	148.36	175.63	150.84	127.5	180.74	195.46	237.61	303.04
60	55.69	63.88	86.3	109.13	87.9	69.36	124.92	132.33	148.45	173.06
70	24.3	26.75	38.98	54.41	42.51	30.08	64.32	73.9	86.14	106.02
80	4.63	5.5	8.64	14.76	11.29	7.2	29.17	32.57	42.83	52.69
90	1.15	1.11	2	3.06	2.22	1.5	7.31	8.98	11.49	14.05
100	1.48	2.03	2.26	2.23	2.1	2.03	0.86	1.4	1.65	2.45
110	2.28	2.5	2.34	2.99	2.6	3.17	1.55	1.97	2.05	1.79
120	2.09	3.35	3.06	3.3	3.5	3.41	2.06	1.97	2.53	2.34
130	4.26	4.79	4.42	5.22	4.73	4.62	2.56	3.26	3.52	2.6

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Current (A)

Operator

Total flux (lm) 1448

Power Factor

Date 1

2023-08-04 오후 12:25:28

Luminous Intensity Data (Continued)

Maximum (cd) : 1759

Minimum (cd) : 1

G/C	300	330	360
0	1702.1	1505.02	1746.04
10	1716.19	1740.31	883.58
20	1227.86	1013.73	447.43
30	657.34	517.97	268.74
40	389.08	301.91	183.47
50	237.94	199.19	117.31
60	148.42	132.6	55.69
70	84.97	67.81	24.3
80	38.99	29.77	4.63
90	8.51	6.63	1.15
100	1.66	0.92	1.48
110	0.98	1.38	2.28
120	2.52	1.33	2.09
130	3.67	2.38	4.26

Luminaire KH FEELUX

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1448

Current (A)

Operator

Total flux (lm)

1448

Power Factor

Date 1

2023-08-04 오후 12:25:28

Luminous Flux Table

Total Lamp Lumens: 1447.7

Luminaire Efficiency (lm/W): 75.41

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	40.17	40.17	2.77	2.77
10	259.88	300.05	20.73	20.73
20	317.27	617.32	42.64	42.64
30	264.66	881.98	60.92	60.92
40	206.94	1088.92	75.22	75.22
50	153.96	1242.88	85.85	85.85
60	105.29	1348.17	93.12	93.13
70	60.05	1408.22	97.27	97.28
80	24.99	1433.21	99.00	99.00
90	6.21	1439.42	99.43	99.43
100	1.90	1441.32	99.56	99.56
110	2.20	1443.51	99.71	99.71
120	2.49	1446.00	99.88	99.88
130	1.67	1447.67	100.00	100.00

Luminaire KH FEELUX

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Current (A)

Operator

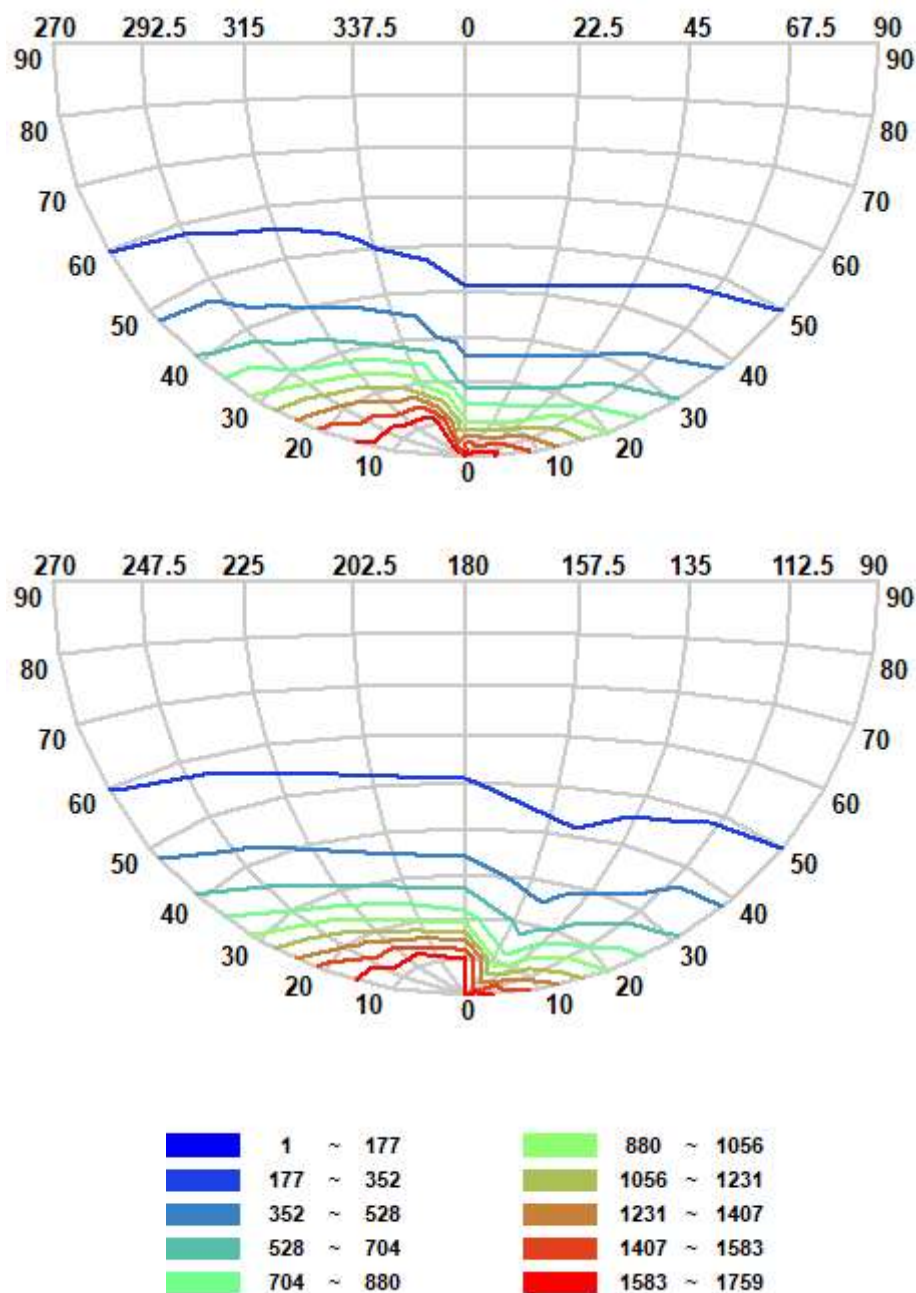
Total flux (lm) 1448

Power Factor

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IsoCandela (Type C)



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Lamp flux (lm) 1448

Current (A)

Operator

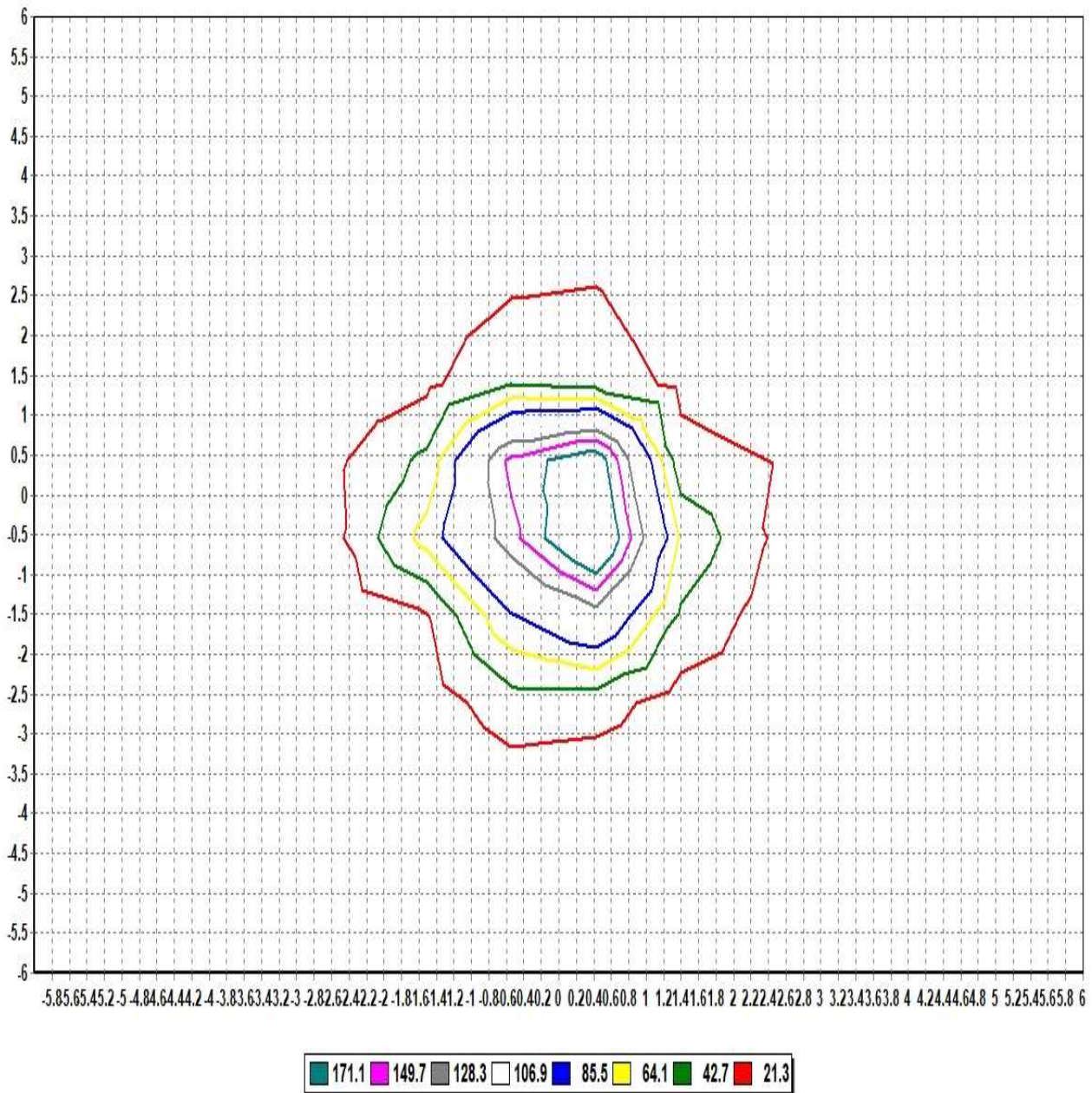
Total flux (lm) 1448

Power Factor

Date 1

2023-08-04 오후 12:25:28

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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No. of lamps 1

Voltage (V)

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Lamp flux (lm) 1448

Current (A)

Operator

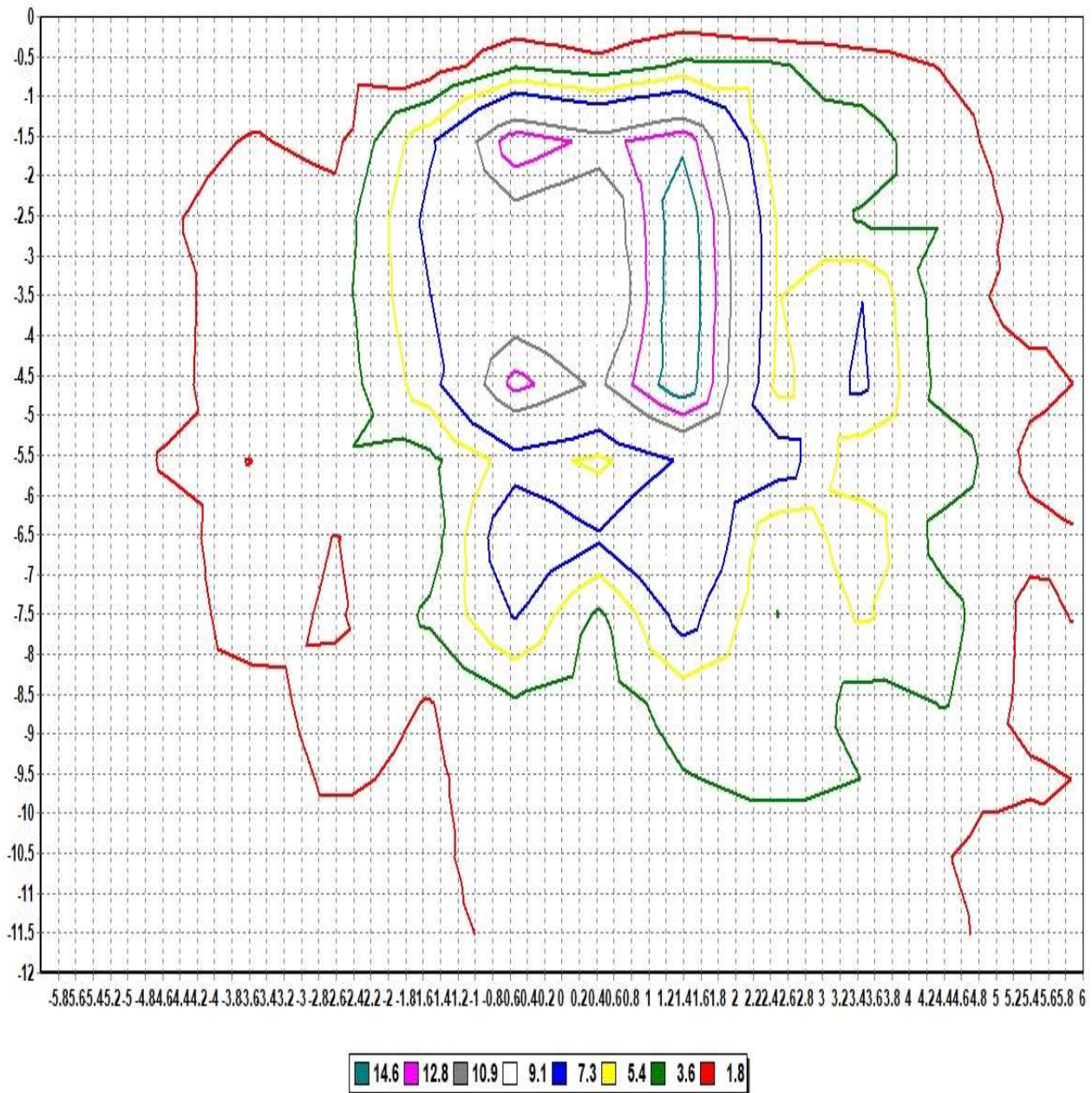
Total flux (lm) 1448

Power Factor

Date 1

2023-08-04 오후 12:25:28

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

Report

230804

No. of lamps

1

Voltage (V)

23.901

Filename 230804 FNL 3D 30K-24V-C90-1M-30Dx60D.jdt

Lamp flux (lm)

1448

Current (A)

0.8032

Operator

Total flux (lm)

1448

Power Factor

1

Date

2023-08-04 오후 12:25:28

Illuminance Levels (Ground)

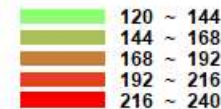
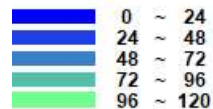
6.00	0.33	0.47	0.33	0.38	0.52	0.58	0.74	0.64	0.37	0.25	0.24	0.36	0.20
5.00	0.34	0.33	0.53	0.82	1.68	2.04	2.42	2.13	1.39	0.62	0.39	0.18	0.26
4.00	0.20	0.37	1.47	2.34	1.85	2.65	3.26	2.69	1.39	1.97	1.04	0.28	0.16
3.00	0.35	0.50	1.81	2.43	7.64	6.22	8.29	5.25	6.09	1.60	1.61	0.40	0.24
2.00	0.42	1.53	1.76	5.13	9.20	15.86	27.88	12.70	6.64	4.84	1.33	1.28	0.30
1.00	0.68	2.09	2.64	5.47	14.96	51.20	153.06	30.98	12.28	4.78	2.65	2.18	0.69
0.00	0.85	2.53	3.54	8.06	22.40	175.59	239.51	98.35	15.17	5.36	1.93	1.58	0.36
-1.00	0.54	1.91	2.56	7.29	18.32	51.55	194.27	88.32	24.36	8.62	2.53	1.90	0.50
-2.00	0.74	2.11	2.62	7.01	9.92	19.25	48.69	26.20	15.52	8.22	2.96	2.46	0.82
-3.00	0.60	0.96	2.57	3.04	9.72	8.16	14.47	10.23	13.48	3.99	2.89	1.02	0.68
-4.00	0.41	0.68	1.77	3.15	2.68	4.45	5.41	4.39	3.06	3.95	2.43	0.73	0.43
-5.00	0.58	0.46	0.81	1.18	2.26	3.58	4.15	3.38	2.74	1.40	0.96	0.63	0.63
-6.00	0.44	0.66	0.52	0.62	0.81	1.15	1.27	1.08	0.94	0.71	0.63	0.76	0.56
-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.) : 239.51

Illum. (Min.) : 0.1555

Illum. (Avg.) : 10.153

All illuminance level values are in lux.



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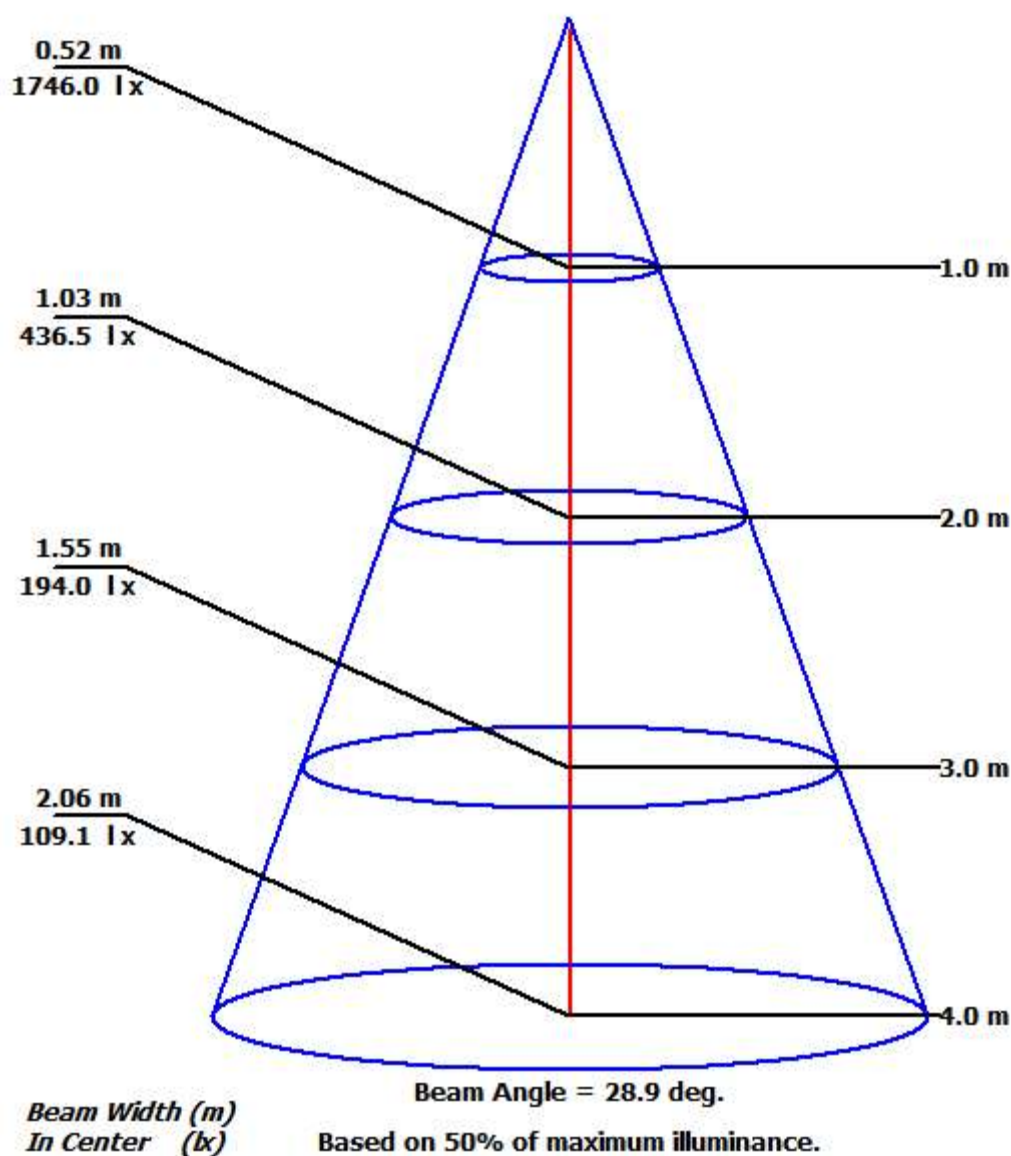
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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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No. of lamps 1

Voltage (V) 23.901

Filename 230804 FNL 3D 30K-24V-C90-1M-30Dx60D.jdt

Lamp flux (lm) 1448

Current (A) 0.8032

Operator

Total flux (lm) 1448

Power Factor 1

Date

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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