

# 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 :** 230508**4. Test Standard / Item :** / FNL3D-27K-C90-20도-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
230508			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4620 , 0.4164	
Correlated Color Temperature	K	2714	
Ra		91.76	
Power Factor		1.000	
Input Voltage	V	23.908	
Input Current	A	0.771	
Input Watt	W	18.422	
Lamp Flux	lm	1419.3	
Efficient	lm/W	77.05	
luminous Intensity (Max , Center)	cd	2858 , 2858	
Illuminance	lx	2858	1 m
		714	2 m
		318	3 m

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

\* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

230508

No. of lamps 1

Voltage (V) 23.908

Filename FNL3D-27K-C90-20도-1m.jdt

Lamp flux (lm) 1419

Current (A) 0.7705

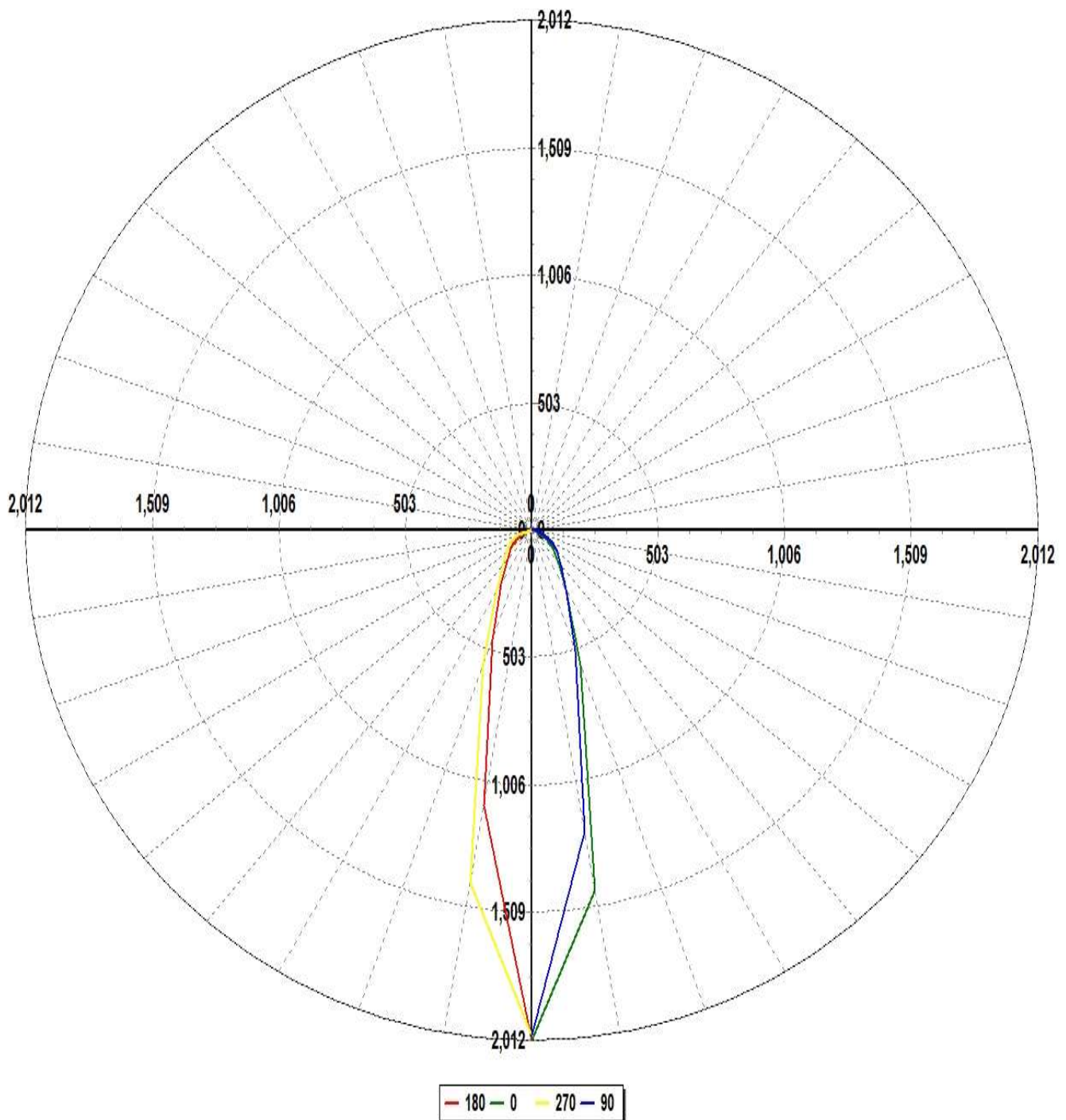
Operator

Total flux (lm) 1419

Power Factor 1

Date 2023-05-08 오후 5:07:11

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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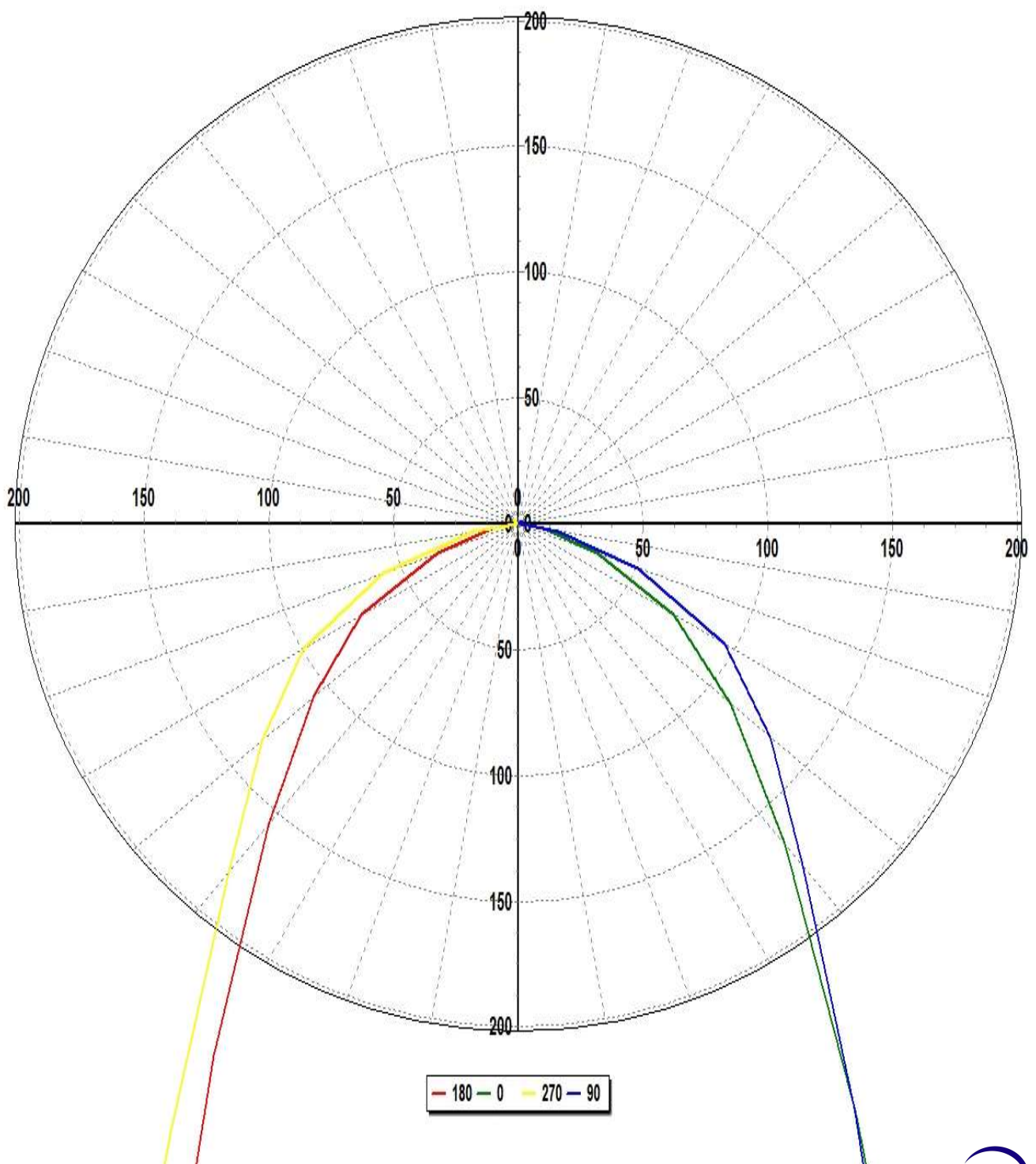
Operator

Total flux (lm) 1419

Power Factor 1

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## Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

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Power Factor 1

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## Luminous Intensity Data

Maximum (cd) : 2858

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	2857.81	2856.73	2847.9	2835.73	2834.6	2807.58	2857.81	2856.73	2847.9	2835.73
10	2052.62	1749.05	2049.49	1715.03	1858.89	1472.32	1566.66	1886.48	1638.38	2008.2
20	805.35	734.4	814.54	714.36	733.61	619.02	654.15	738.23	703.94	803.19
30	384.04	385.65	398.43	383.49	366.6	337.34	346.16	364.02	379.41	394.57
40	235.75	240.14	258.3	251.63	246.06	218.7	220.98	231.41	250.14	256.34
50	157.73	161.13	185.57	187.12	179.06	151.24	151.52	158.63	185.28	190.16
60	102.12	106.58	120.56	135.58	117.08	101.45	102.82	108.15	122.79	140.73
70	47.95	52.93	64.57	72.43	61.45	50.42	48.61	57.02	65.71	81.58
80	14.87	14.87	20.24	22.95	20.62	14.68	15.27	17.06	22.63	25.94
90	1.9	1.49	2.38	1.63	2.37	1.7	2.07	2.23	2.43	1.18
100	1.2	0.86	1.24	1.18	0.97	0.75	1.3	1.45	1.54	0.93
110	1.26	1.98	1.42	1.11	1.91	1.31	1.49	1.16	1.03	1.4
120	1.51	2.36	2.57	2.39	2.08	2.16	1.88	1.78	2.83	2.71
130	3.11	3.7	3.9	3.12	3.09	4.13	4.09	3.5	3.22	3.81

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.908
Lamp flux (lm)	1419	Current (A)	0.7705
Total flux (lm)	1419	Power Factor	1

Report	230508
Filename	FNL3D-27K-C90-20도-1m.jdt
Operator	
Date	2023-05-08 오후 5:07:11

## Luminous Intensity Data (Continued)

Maximum (cd) : 2858

Minimum (cd) : 0

G/C	300	330	360
0	2834.6	2807.58	2857.81
10	1791.46	2140.48	2052.62
20	767.2	854.56	805.35
30	399.78	409.68	384.04
40	258.4	250.05	235.75
50	186.89	166.69	157.73
60	124.07	111.54	102.12
70	67.59	58.63	47.95
80	22.39	18.36	14.87
90	2.97	2.48	1.9
100	1.17	0.43	1.2
110	1.14	1.84	1.26
120	2.02	1.78	1.51
130	4.09	2.5	3.11

Luminaire KH FEELUX

Lamp

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## Luminous Flux Table

Total Lamp Lumens: 1419.3

Luminaire Efficiency (lm/W): 77.04

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	67.90	67.90	4.78	4.78
10	347.55	415.45	29.27	29.27
20	279.15	694.60	48.94	48.94
30	207.60	902.20	63.57	63.57
40	171.18	1073.38	75.63	75.63
50	144.10	1217.48	85.78	85.78
60	110.14	1327.63	93.54	93.54
70	62.51	1390.14	97.95	97.95
80	20.66	1410.80	99.40	99.40
90	2.27	1413.07	99.56	99.56
100	1.17	1414.24	99.64	99.64
110	1.46	1415.70	99.75	99.75
120	2.06	1417.76	99.89	99.89
130	1.53	1419.29	100.00	100.00

Luminaire KH FEELUX

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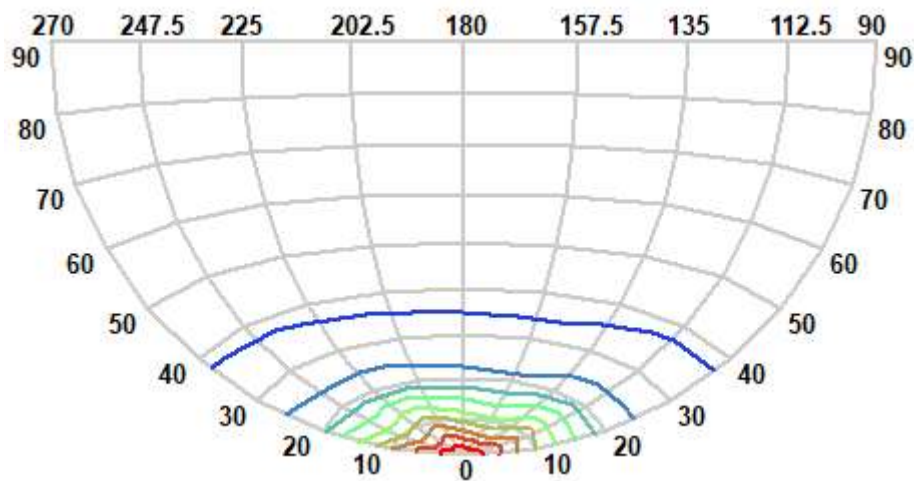
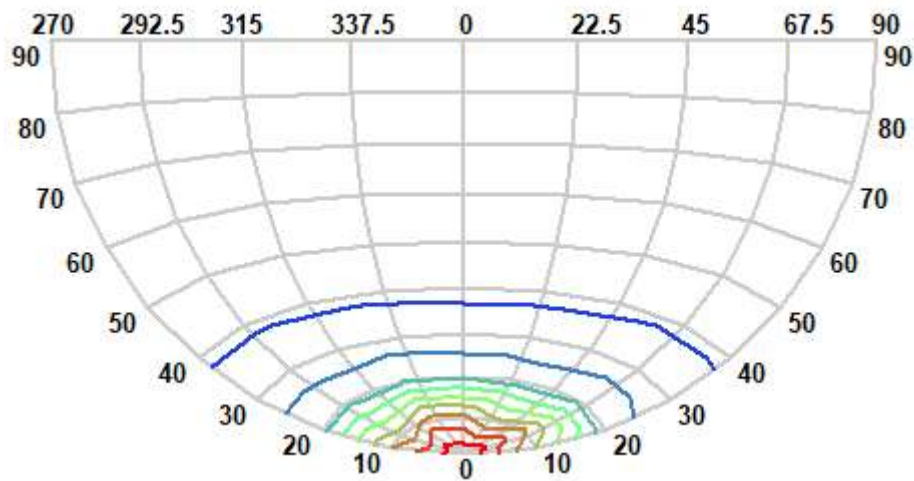
Operator

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## IsoCandela (Type C)



0 ~ 286	1429 ~ 1715
286 ~ 572	1715 ~ 2001
572 ~ 858	2001 ~ 2286
858 ~ 1143	2286 ~ 2572
1143 ~ 1429	2572 ~ 2858



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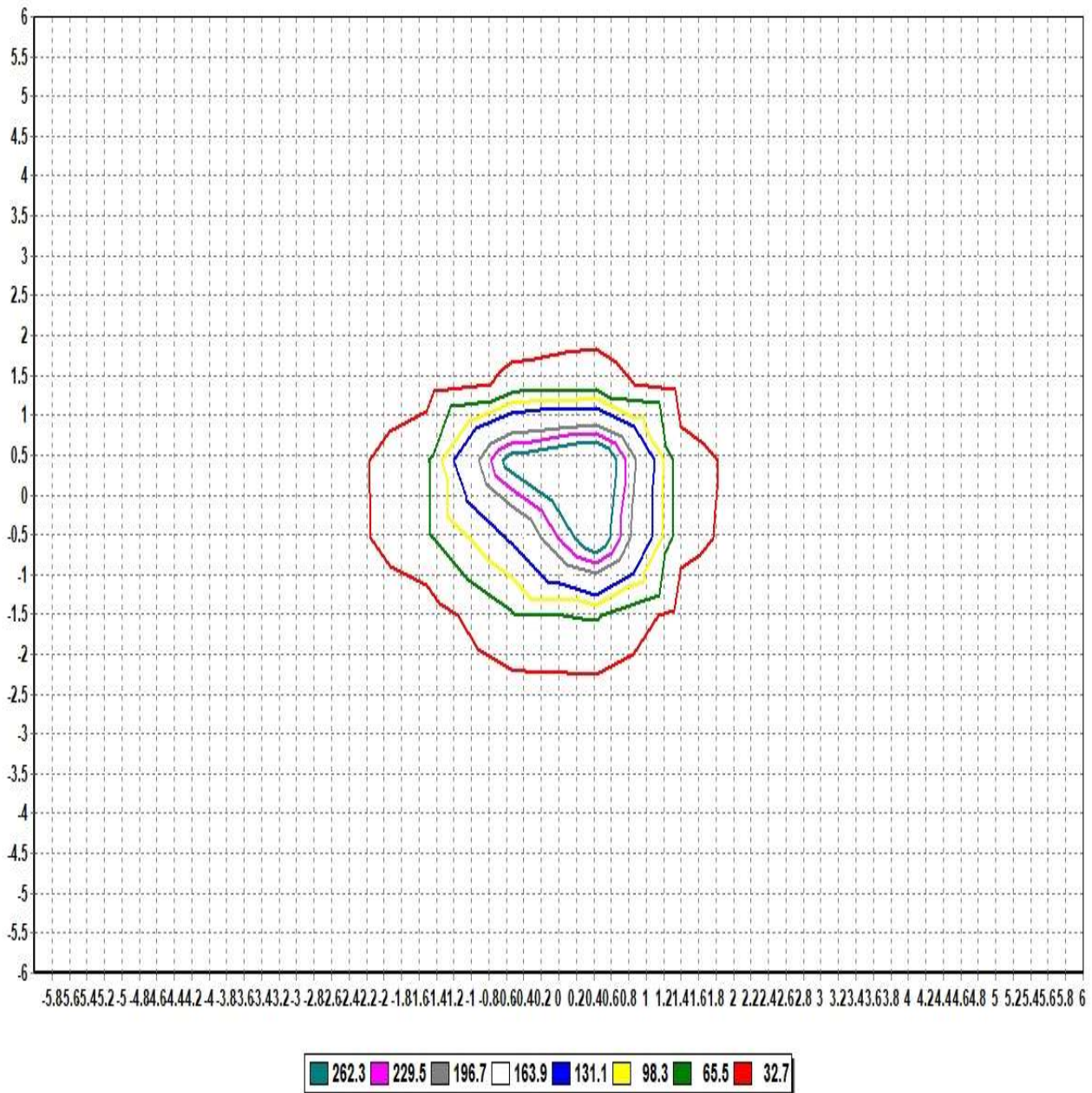
Operator

Total flux (lm) 1419

Power Factor 1

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## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

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Lamp

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Voltage (V) 23.908

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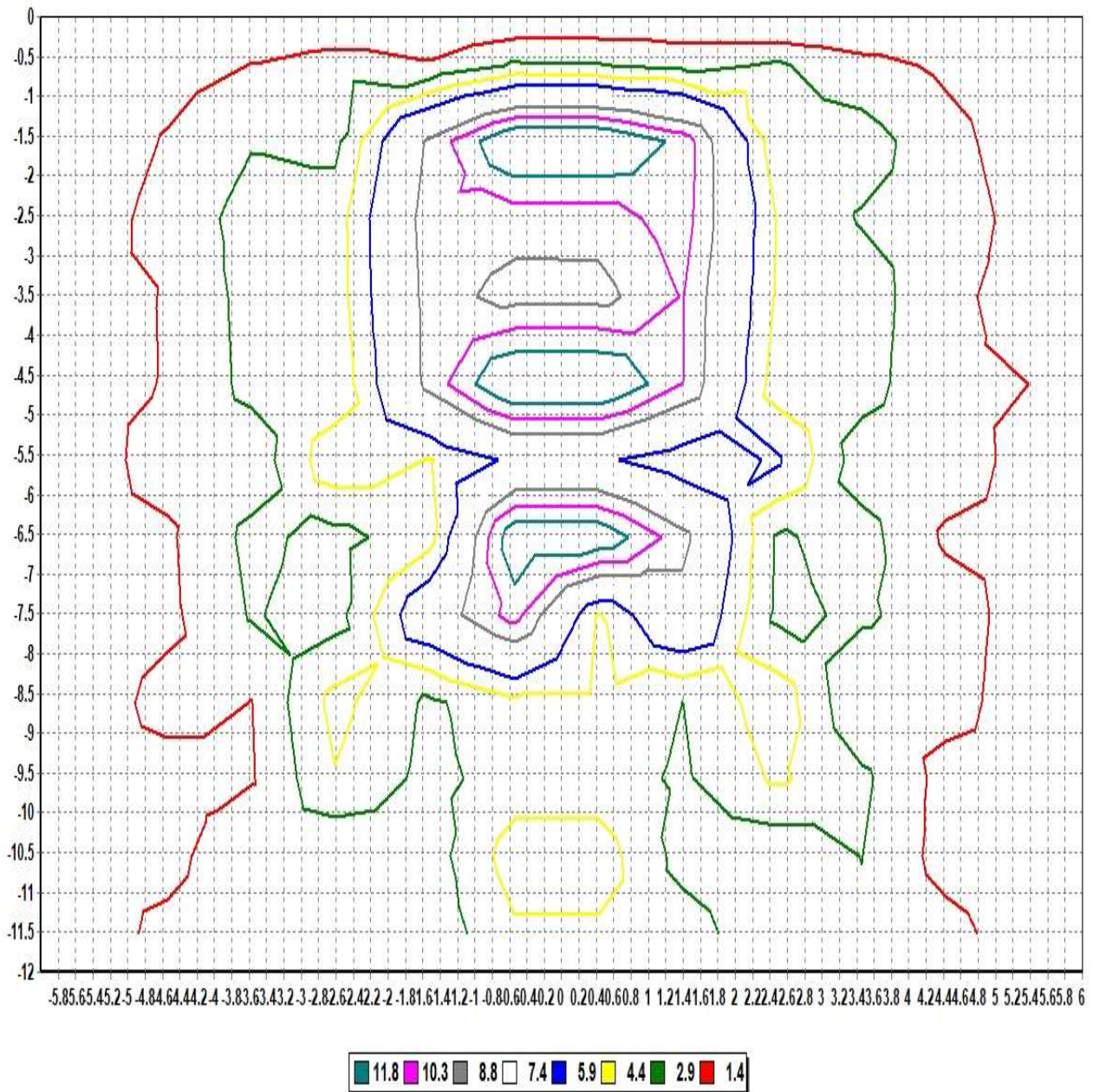
Operator

Total flux (lm) 1419

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)	23.908
Lamp flux (lm)	1419	Current (A)	0.7705
Total flux (lm)	1419	Power Factor	1

Report 230508

Filename FNL3D-27K-C90-20도-1m.jdt

Operator

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## Illuminance Levels (Ground)

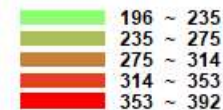
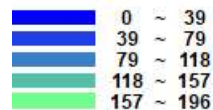
6.00	0.43	0.59	0.44	0.53	0.70	0.82	0.94	0.86	0.62	0.46	0.39	0.53	0.35
5.00	0.49	0.45	0.70	1.04	1.99	2.44	2.63	2.46	1.83	0.93	0.62	0.34	0.47
4.00	0.32	0.55	1.73	2.60	2.39	3.30	3.75	3.32	2.17	2.50	1.48	0.52	0.30
3.00	0.51	0.77	2.19	2.98	6.81	6.96	8.21	6.55	6.88	2.50	2.20	0.76	0.45
2.00	0.61	1.87	2.31	5.93	9.36	15.74	21.17	15.51	8.50	6.25	2.12	1.75	0.56
1.00	0.64	1.98	2.66	6.45	15.50	43.60	190.34	45.34	15.35	6.15	2.82	2.13	0.70
0.00	0.68	2.11	2.94	6.79	18.82	173.88	392.02	227.63	20.44	7.11	2.99	2.19	0.67
-1.00	0.64	1.98	2.66	5.99	14.73	41.52	222.76	46.59	16.47	6.87	2.80	2.10	0.66
-2.00	0.58	1.73	2.14	5.91	8.18	14.94	21.66	16.50	9.65	6.65	2.45	1.99	0.68
-3.00	0.47	0.76	2.14	2.50	6.70	6.47	8.35	7.19	6.95	3.11	2.38	0.86	0.55
-4.00	0.31	0.53	1.46	2.49	2.19	3.39	3.86	3.37	2.52	2.66	1.79	0.62	0.37
-5.00	0.48	0.36	0.64	0.95	1.83	2.49	2.68	2.46	2.07	1.12	0.76	0.50	0.53
-6.00	0.36	0.54	0.40	0.49	0.64	0.91	1.01	0.86	0.75	0.57	0.49	0.62	0.45
-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.) : 392.02

Illum. (Min.) : 0.3041

Illum. (Avg.) : 11.468

All illuminance level values are in lux.





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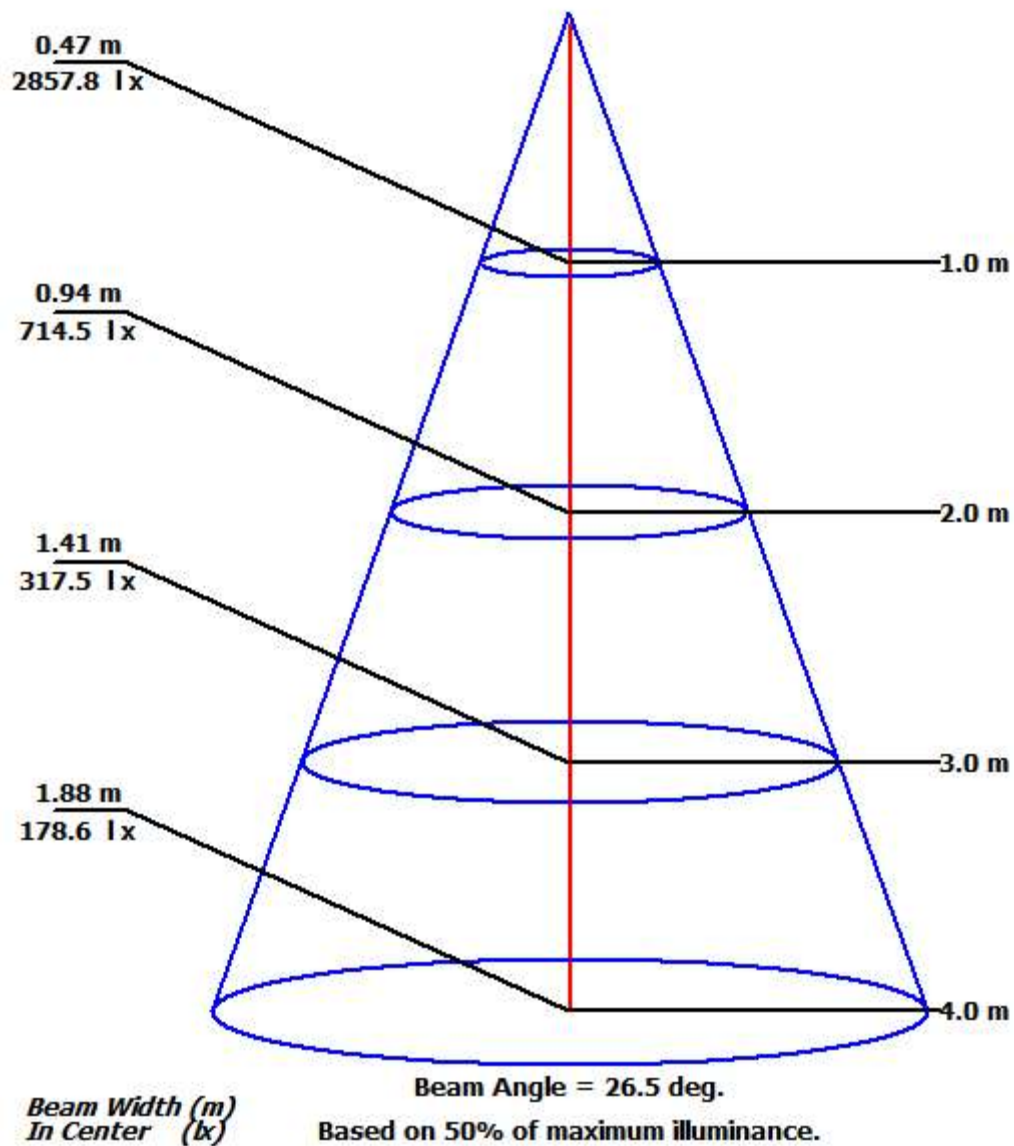
Operator

Total flux (lm) 1419

Power Factor 1

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## Illuminance Cone Diagram



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Lamp flux (lm) 1419 Current (A) 0.7705

Operator

Total flux (lm) 1419 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