

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844  
\* Date of Receipt : 230512

**2. Purpose of Report :****3. Number of Report :** 230511**4. Test Standard / Item :** / NDF3 F.F 120V 27K**5. Test Period :** 230512 ~ 230512**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
230511			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	13.6	
CIE 1931 Cx, Cy		0.4594 , 0.4036	
Correlated Color Temperature	K	2647	
Ra		92.22	
Power Factor		0.991	
Input Voltage	V	120.34	
Input Current	A	0.021	
Input Watt	W	2.4498	
Lamp Flux	lm	168.2	
Efficient	lm/W	68.65	
luminous Intensity (Max , Center)	cd	56 , 55	
Illuminance	lx	55	1 m
		14	2 m
		6	3 m

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

\* Sample photo

Click to load image

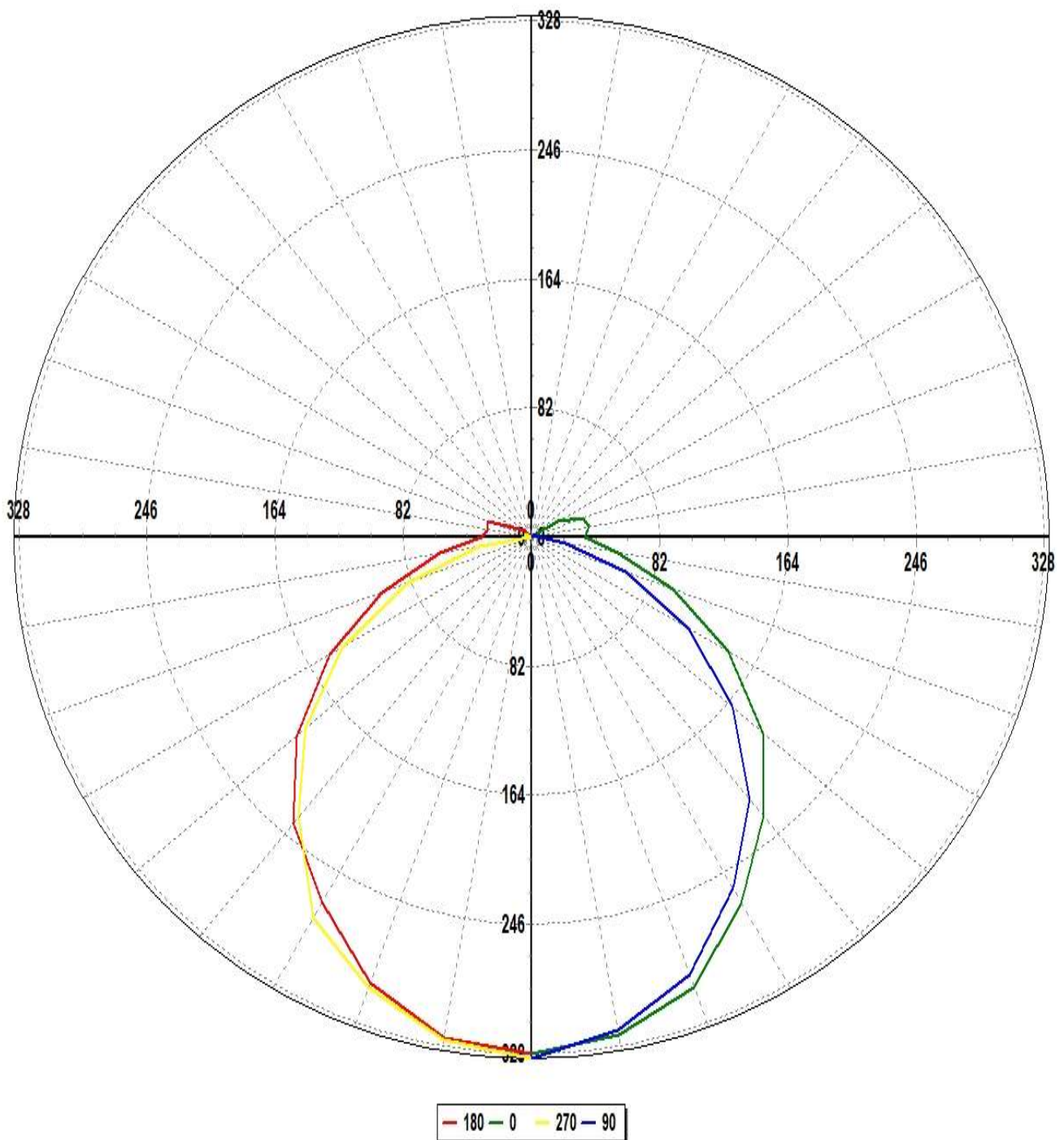
Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	120.34
Lamp flux (lm)	168	Current (A)	0.02055
Total flux (lm)	168	Power Factor	0.9908

Report	230511
Filename	NDF3 F.F 120V 27K.jdt
Operator	
Date	2023-05-11 오후 6:58:04

## Luminous Intensity Distribution



Luminaire KH FEELUX

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Lamp flux (lm) 168

Current (A) 0.02055

Total flux (lm) 168

Power Factor 0.9908

Report

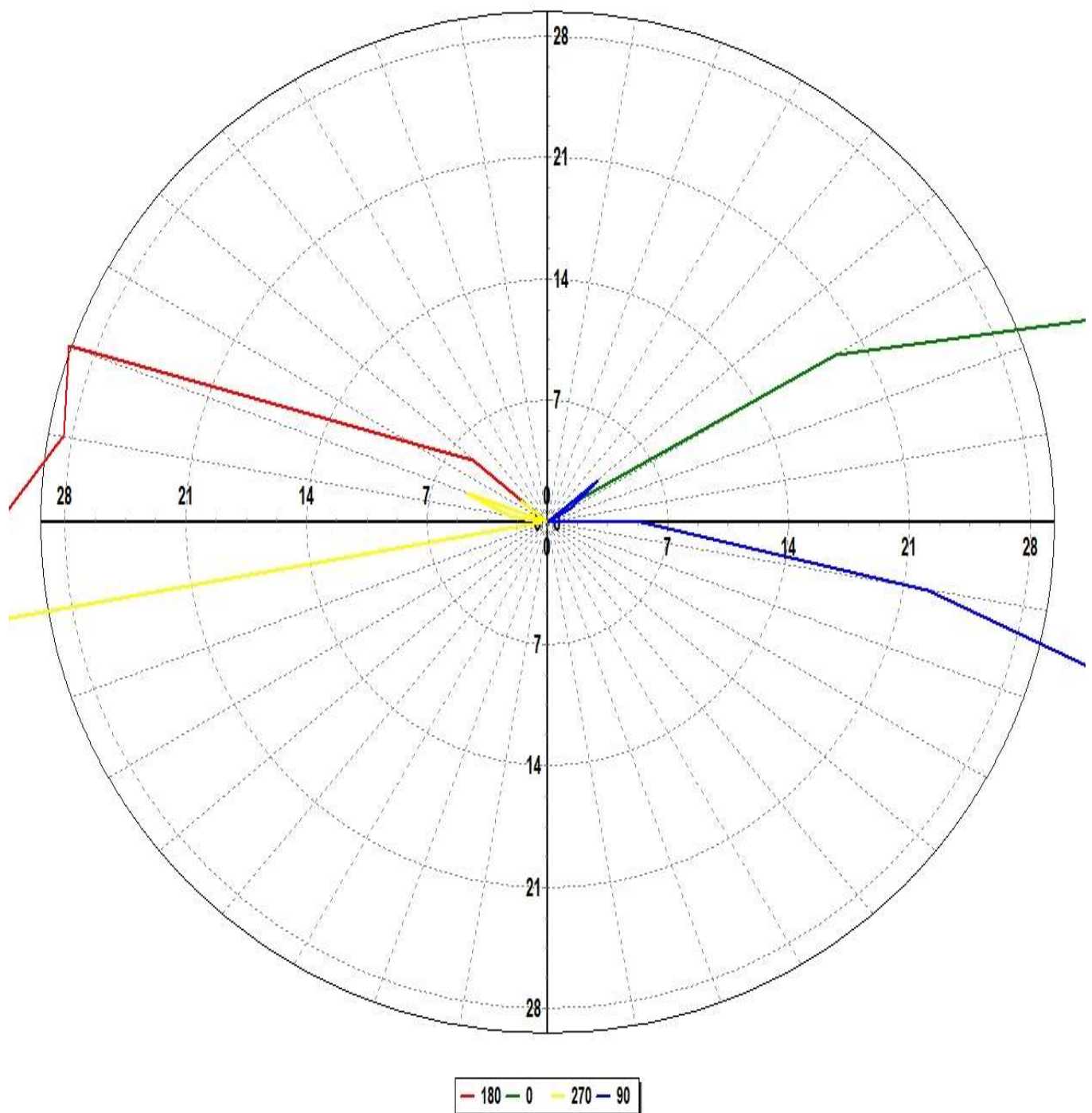
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## Luminous Intensity Distribution (Lowest 10%)



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Power Factor 0.9908

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## Luminous Intensity Data

Maximum (cd) : 56

Minimum (cd) : -1

G/C	0	30	60	90	120	150	180	210	240	270	300	330	360
0	55.25	55.62	54.99	55.67	54.76	54.7	55.25	55.62	54.99	55.67	54.76	54.7	55.25
10	53.92	53.95	53.54	53.44	54.04	53.29	54.26	54.54	54.68	54.4	54.7	54.76	53.92
20	51.15	49.71	49.06	49.74	49.25	49.56	50.65	51.68	51.12	51.21	51.46	51.51	51.15
30	45.11	44.28	44.11	43.32	43.72	43.76	45.04	46.1	46.29	47.02	45.9	46.49	45.11
40	38.8	38.11	37.08	36.57	36.82	37.91	39.84	40.49	40.28	39.04	39.68	39.83	38.8
50	32.5	30.69	29.03	28.17	29.63	30.74	33.01	33.26	32.16	31.8	32.23	33.22	32.5
60	24.36	22.25	20.88	19.49	21.54	23.14	25.06	24.76	24	23.55	23.49	24.71	24.36
70	16.19	15.24	13.26	10.82	13.59	15.51	17.04	17.34	16.31	14.23	15.68	17.55	16.19
80	9.44	8.73	4.92	3.76	5.35	7.97	10.01	9.26	7.47	5.68	8.25	10.43	9.44
90	5.77	5.96	3.36	0.92	2.36	5.58	5.36	4.43	2.74	0.06	3.16	6.07	5.77
100	6.32	5.27	2.74	-0.27	2.46	5.22	4.8	3.91	2.3	0.38	3.02	4.9	6.32
110	5.78	5.24	2.27	-0.15	2.49	4.58	4.97	4.43	2.68	0.84	2.99	5.56	5.78
120	3.25	4.15	0.17	0.26	0.61	3.84	1.52	4.38	-0.69	-0.15	-0.24	3.93	3.25
130	0.27	0.48	1.16	0.64	0.76	0.47	0.94	2.61	1.01	0.33	2.19	1.97	0.27

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## Luminous Flux Table

Total Lamp Lumens: 168.15

Luminaire Efficiency (lm/W): 68.64

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	1.32	1.32	0.78	0.78
10	10.29	11.61	6.90	6.91
20	18.92	30.53	18.15	18.16
30	24.69	55.23	32.83	32.84
40	27.25	82.47	49.03	49.05
50	26.32	108.79	64.68	64.70
60	21.91	130.71	77.71	77.73
70	15.68	146.38	87.03	87.05
80	8.20	154.59	91.91	91.93
90	4.18	158.76	94.39	94.42
100	3.69	162.45	96.58	96.61
110	3.57	166.03	98.71	98.74
120	1.66	167.69	99.70	99.72
130	0.46	168.15	99.97	100.00

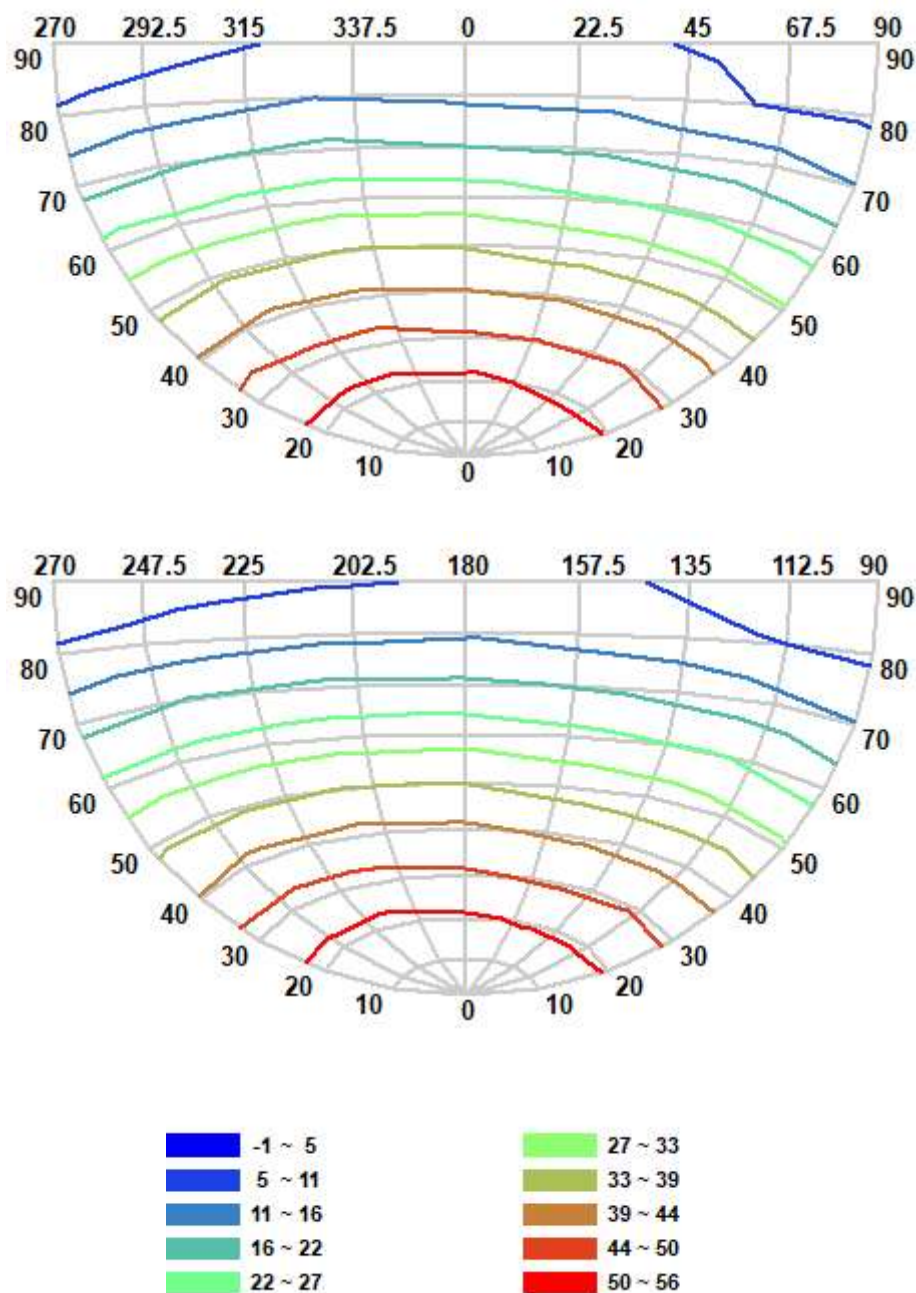
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## IsoCandela (Type C)





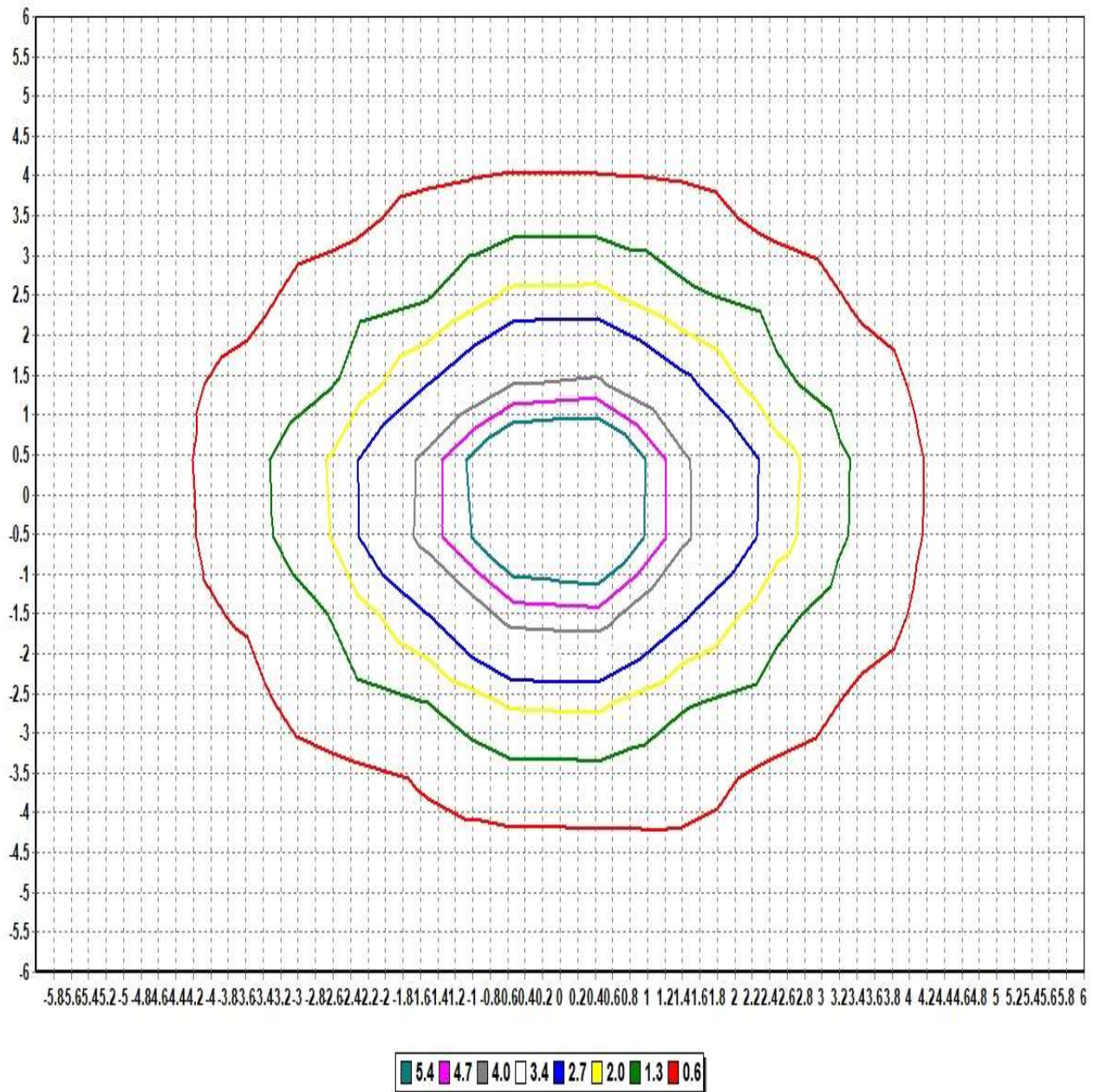
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## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider



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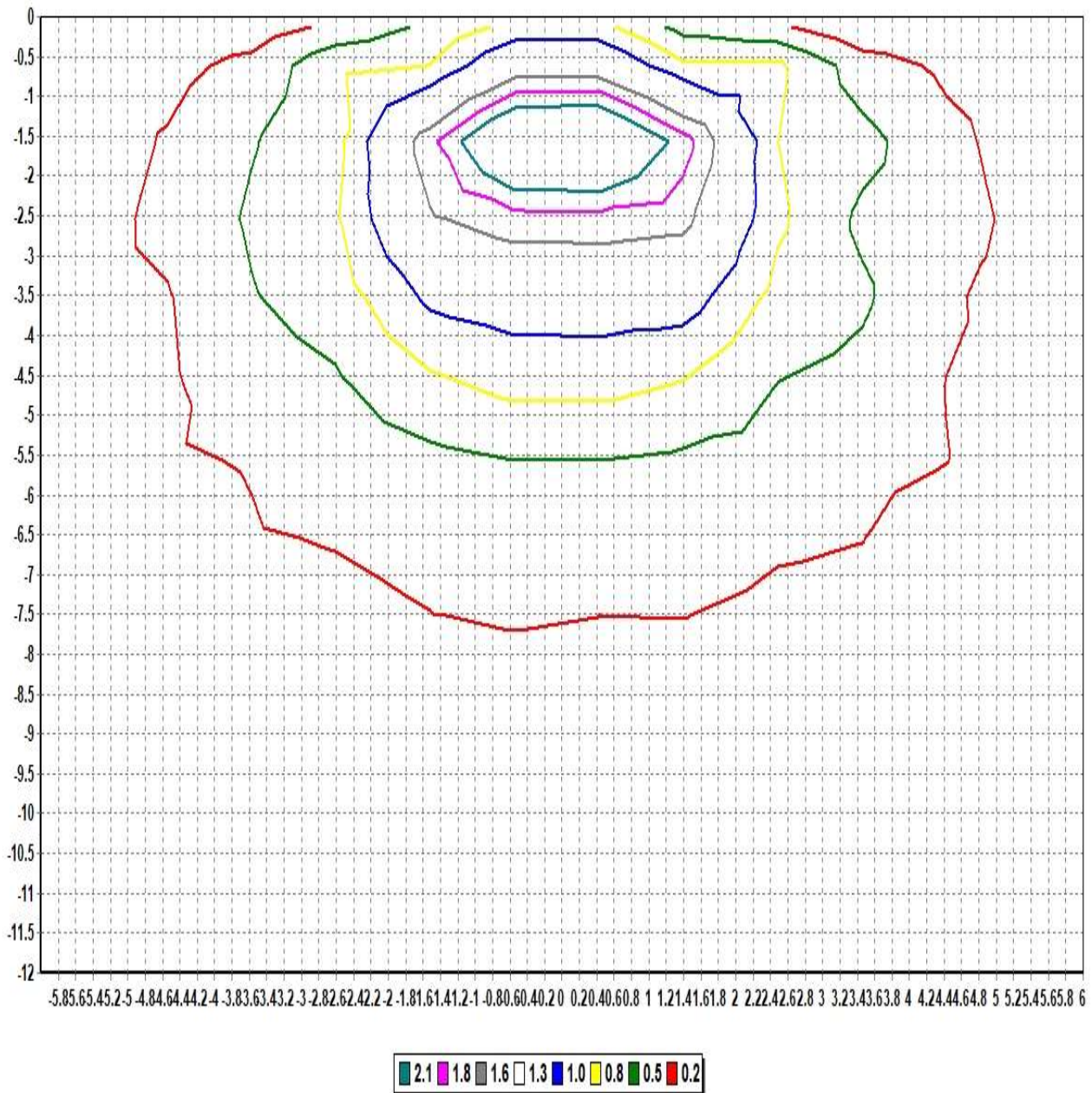
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## IsoLux Diagram (Wall)



Pole Height (m): 2.7

Wall Distance (m): 2.7

Aiming Plane: 0

Wall Height (m): 12

Total Optical Solution Provider

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## Illuminance Levels (Ground)

6.00	0.07	0.09	0.07	0.11	0.13	0.14	0.14	0.14	0.14	0.12	0.08	0.10	0.08
5.00	0.10	0.08	0.11	0.15	0.33	0.38	0.39	0.38	0.34	0.17	0.13	0.10	0.11
4.00	0.09	0.14	0.28	0.40	0.42	0.52	0.55	0.52	0.44	0.41	0.31	0.15	0.10
3.00	0.11	0.19	0.43	0.48	1.00	1.11	1.23	1.14	1.02	0.54	0.45	0.20	0.12
2.00	0.14	0.34	0.43	1.05	1.43	2.32	2.77	2.40	1.54	1.08	0.44	0.35	0.15
1.00	0.18	0.43	0.60	1.14	2.33	4.28	6.03	4.39	2.41	1.19	0.61	0.44	0.18
0.00	0.19	0.47	0.68	1.41	2.96	6.12	7.58	6.09	2.92	1.39	0.66	0.46	0.19
-1.00	0.17	0.42	0.60	1.26	2.55	4.47	6.14	4.54	2.50	1.24	0.61	0.44	0.18
-2.00	0.16	0.38	0.49	1.11	1.61	2.55	2.98	2.50	1.57	1.11	0.47	0.37	0.16
-3.00	0.13	0.21	0.47	0.57	1.12	1.25	1.36	1.22	1.09	0.54	0.46	0.21	0.12
-4.00	0.10	0.16	0.32	0.46	0.49	0.60	0.65	0.60	0.46	0.45	0.31	0.15	0.10
-5.00	0.12	0.11	0.15	0.20	0.37	0.42	0.45	0.43	0.36	0.19	0.14	0.10	0.11
-6.00	0.09	0.11	0.10	0.13	0.16	0.17	0.17	0.17	0.15	0.12	0.09	0.11	0.08
-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.) : 7.5786

Illum. (Min.) : 0.0687

Illum. (Avg.) : 0.8597

All illuminance level values are in lux.



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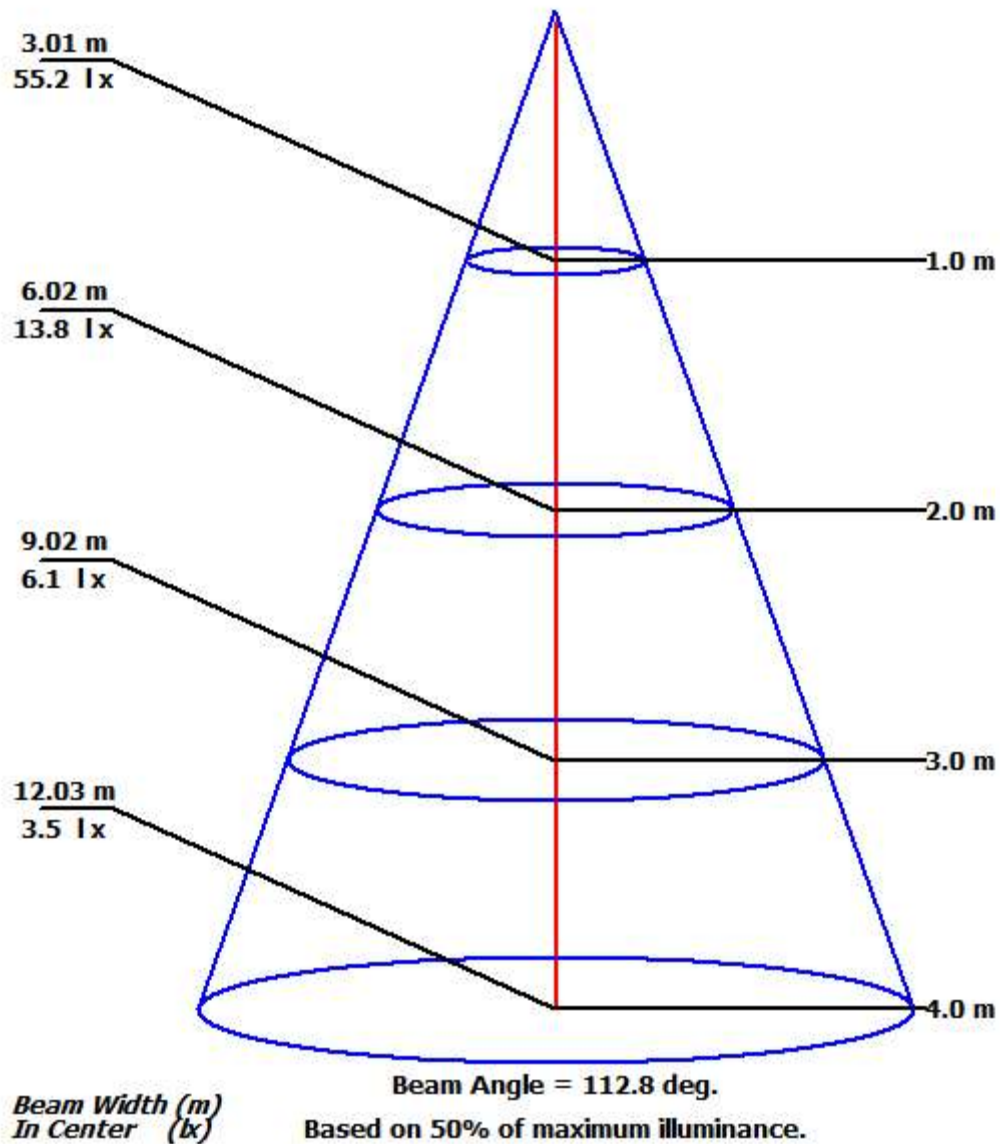
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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 168 Current (A) 0.02055

Operator

Total flux (lm) 168 Power Factor 0.9908

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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