

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84  
\* Date of Receipt : 230426

**2. Purpose of Report :**

**3. Number of Report :** 230426

**4. Test Standard / Item :** / FN360 30K-24V-1M

**5. Test Period :** 230426 ~ 230426

**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
230426			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4340 , 0.4013	
Correlated Color Temperature	K	3029	
Ra		94	
Power Factor		1.000	
Input Voltage	V	23.949	
Input Current	A	0.412	
Input Watt	W	9.867	
Lamp Flux	lm	480.3	
Efficient	lm/W	48.68	
luminous Intensity (Max , Center)	cd	76 , 76	
Illuminance	lx	76	1 m
		19	2 m
		8	3 m

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

\* Sample photo

[Click to load image](#)

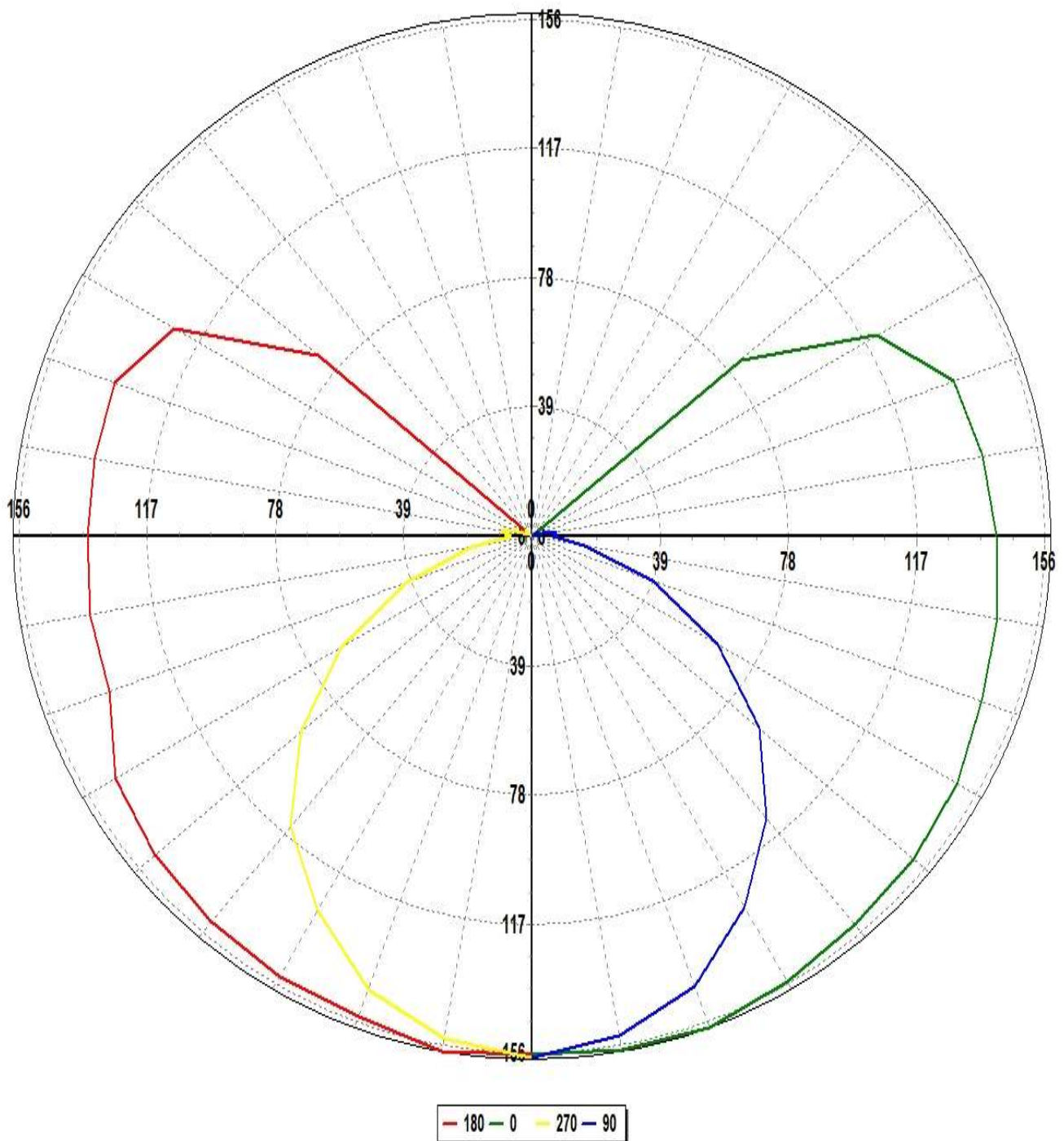
Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.949
Lamp flux (lm)	480	Current (A)	0.412
Total flux (lm)	480	Power Factor	1

Report	230426
Filename	FN360 30K-24V-1M.jdt
Operator	
Date	2023-04-26 오후 4:55:15

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

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Current (A) 0.412

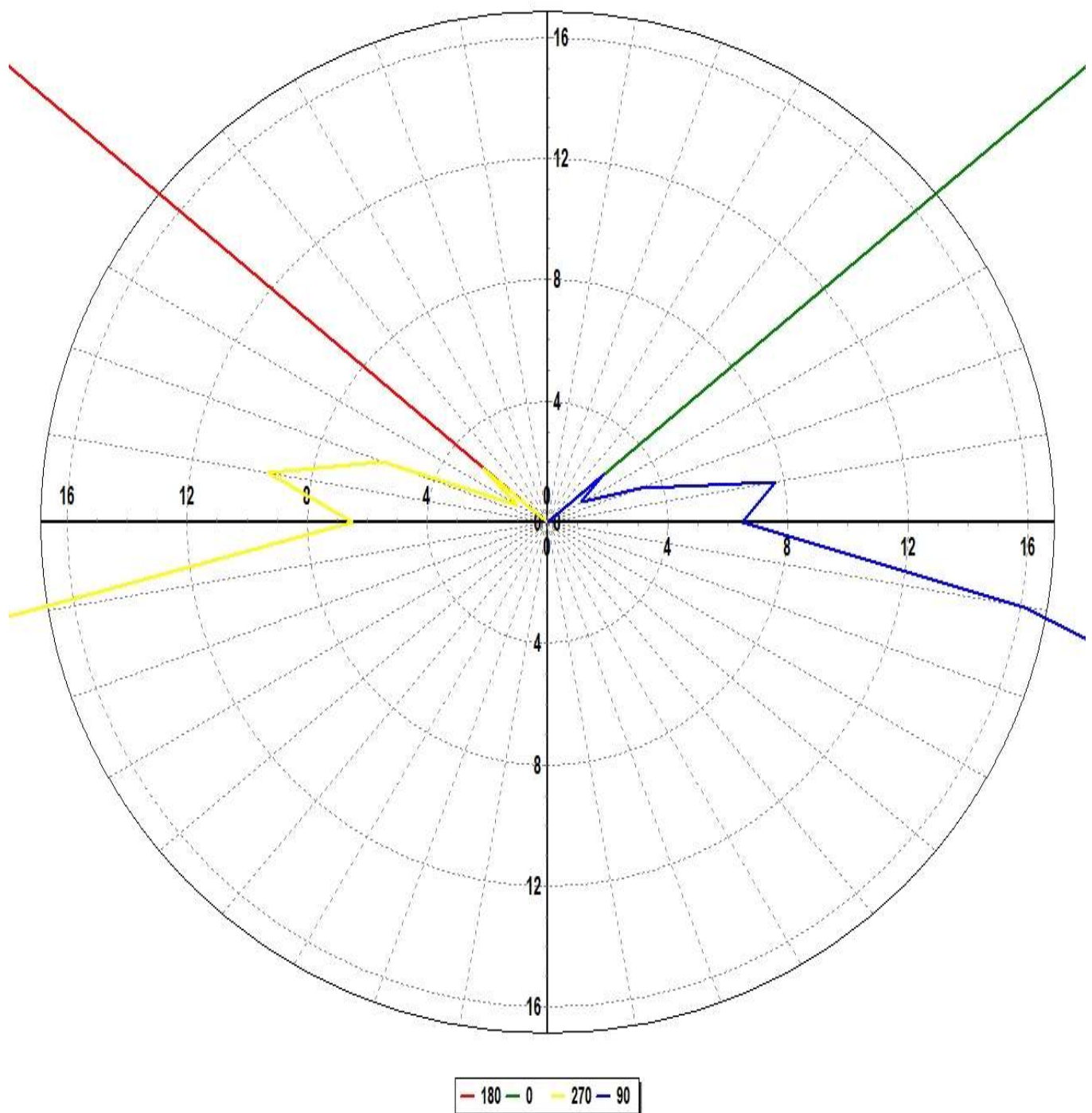
Operator

Total flux (lm) 480

Power Factor 1

Date 2023-04-26 오후 4:55:15

## Luminous Intensity Distribution (Lowest 10%)



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Total flux (lm) 480

Power Factor 1

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## Luminous Intensity Data

Maximum (cd) : 76

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300	330	360
0	75.14	75.54	75.39	75.56	74.91	75.71	75.14	75.54	75.39	75.56	74.91	75.71	75.14
10	75.62	74.86	73.87	73.45	74.49	76.04	75.81	75.67	74.9	73.87	73.68	74.79	75.62
20	75.75	74.53	70.94	69.34	71.67	73.95	74.15	73.9	71.77	69.99	71	74.67	75.75
30	74.54	72.15	67.03	62.1	66.89	70.74	73.74	71.15	66.55	62.71	65.4	72.81	74.54
40	73.42	69.39	59.61	53.38	58.96	67.82	72.9	68.86	58.88	54.88	59.48	69.51	73.42
50	72.83	67.17	51.96	43.37	50.94	64.44	71.91	65.96	52.01	44.04	52.72	66.84	72.83
60	71.75	64.04	45.35	31.24	43.16	61.67	70.2	63.48	44.65	32.22	45.1	64.03	71.75
70	69.92	61.43	38.16	18.81	36.95	58.18	65.77	58.57	37.42	19.5	37.46	60.91	69.92
80	69.07	59.46	33.11	7.74	31.18	56.34	65.58	55.25	31.43	9.03	32.12	59.17	69.07
90	67.95	57.7	30.24	3.12	29.53	56.45	64.98	55.34	28.93	3.12	29.75	57.06	67.95
100	66.85	56.4	30.8	3.7	30.8	56.18	64.86	55.5	31.7	4.53	30.07	56.23	66.85
110	65.59	56.47	22.68	1.59	23.14	55.7	64.86	56.96	27.45	2.8	25.61	55.22	65.59
120	58.22	40.3	8.17	0.62	7.23	39.77	60.39	41.38	6.27	0.55	8.37	40.14	58.22
130	39.83	14.52	21.38	1.18	19.18	15.71	40.74	25.43	19.97	1.35	20.35	22.91	39.83

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Total flux (lm) 480

Power Factor 1

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## Luminous Flux Table

Total Lamp Lumens: 480.28

Luminaire Efficiency (lm/W): 48.68

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	1.80	1.80	0.38	0.38
10	14.22	16.02	3.34	3.34
20	27.21	43.23	9.00	9.00
30	37.69	80.92	16.85	16.85
40	45.00	125.92	26.22	26.22
50	49.23	175.15	36.47	36.47
60	50.34	225.49	46.95	46.95
70	48.29	273.78	57.00	57.00
80	45.79	319.58	66.54	66.54
90	44.19	363.77	75.74	75.74
100	43.83	407.59	84.86	84.87
110	39.29	446.88	93.04	93.04
120	24.61	471.49	98.17	98.17
130	8.79	480.28	100.00	100.00



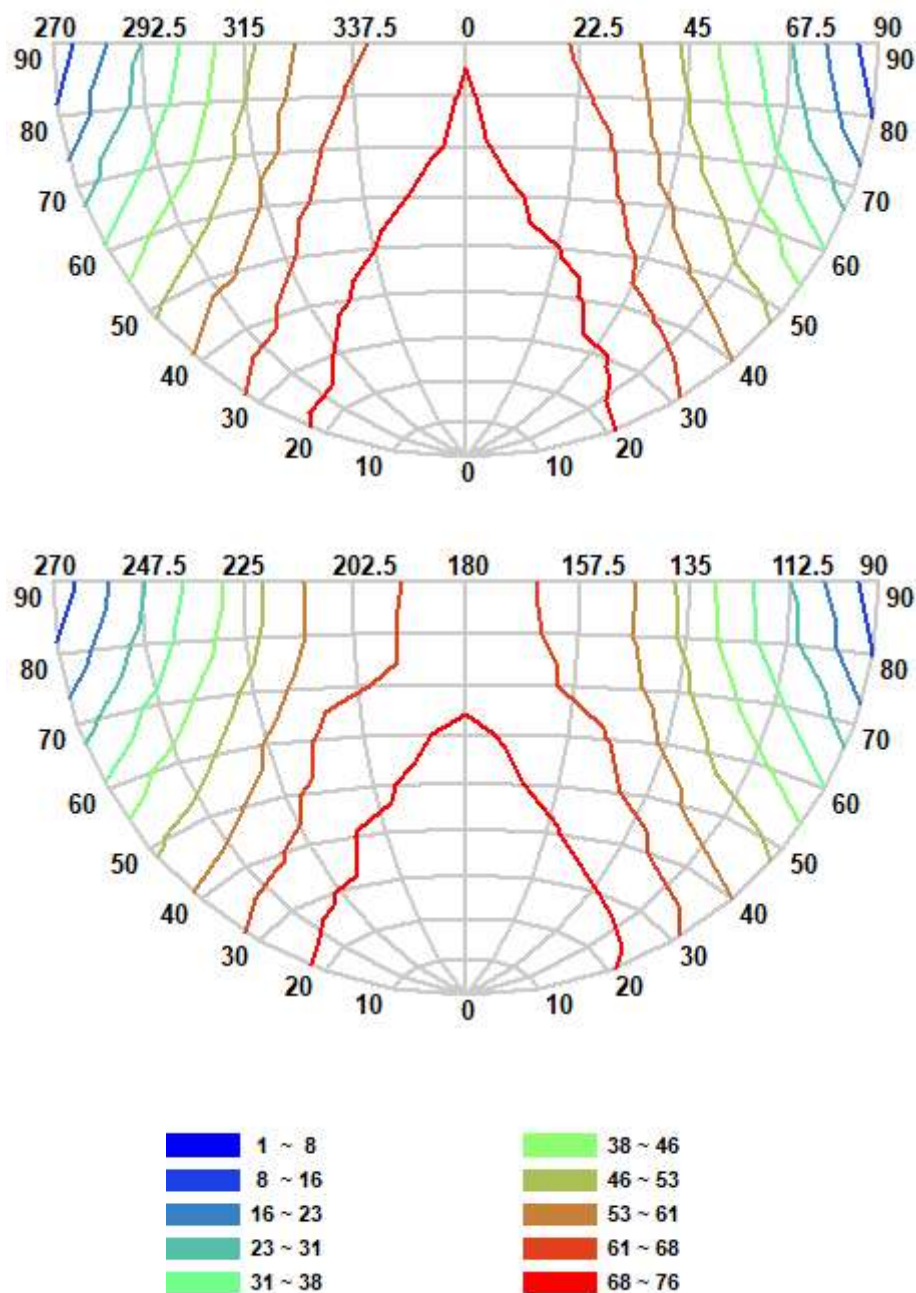
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## IsoCandela (Type C)



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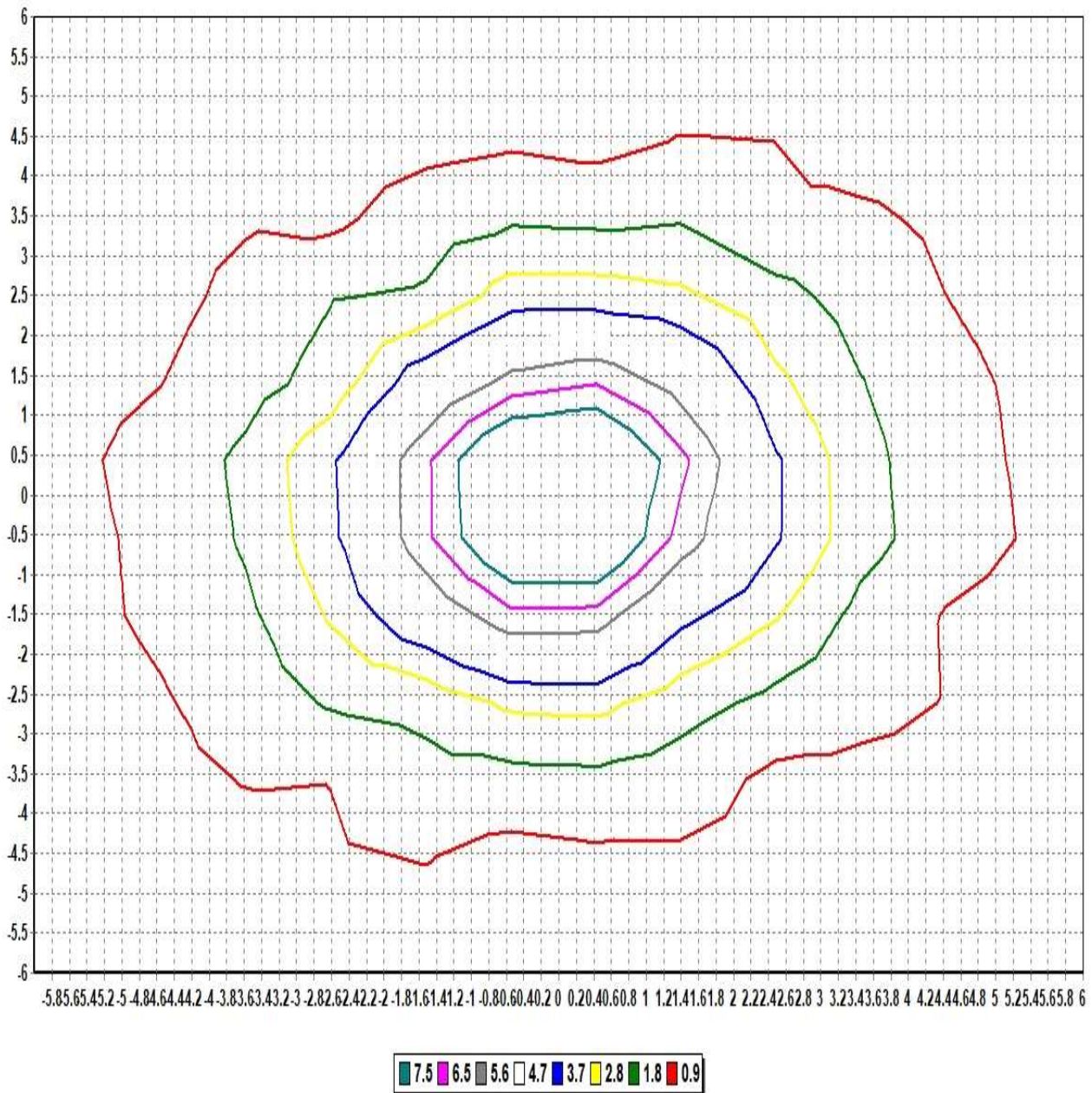
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Date 2023-04-26 오후 4:55:15

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider



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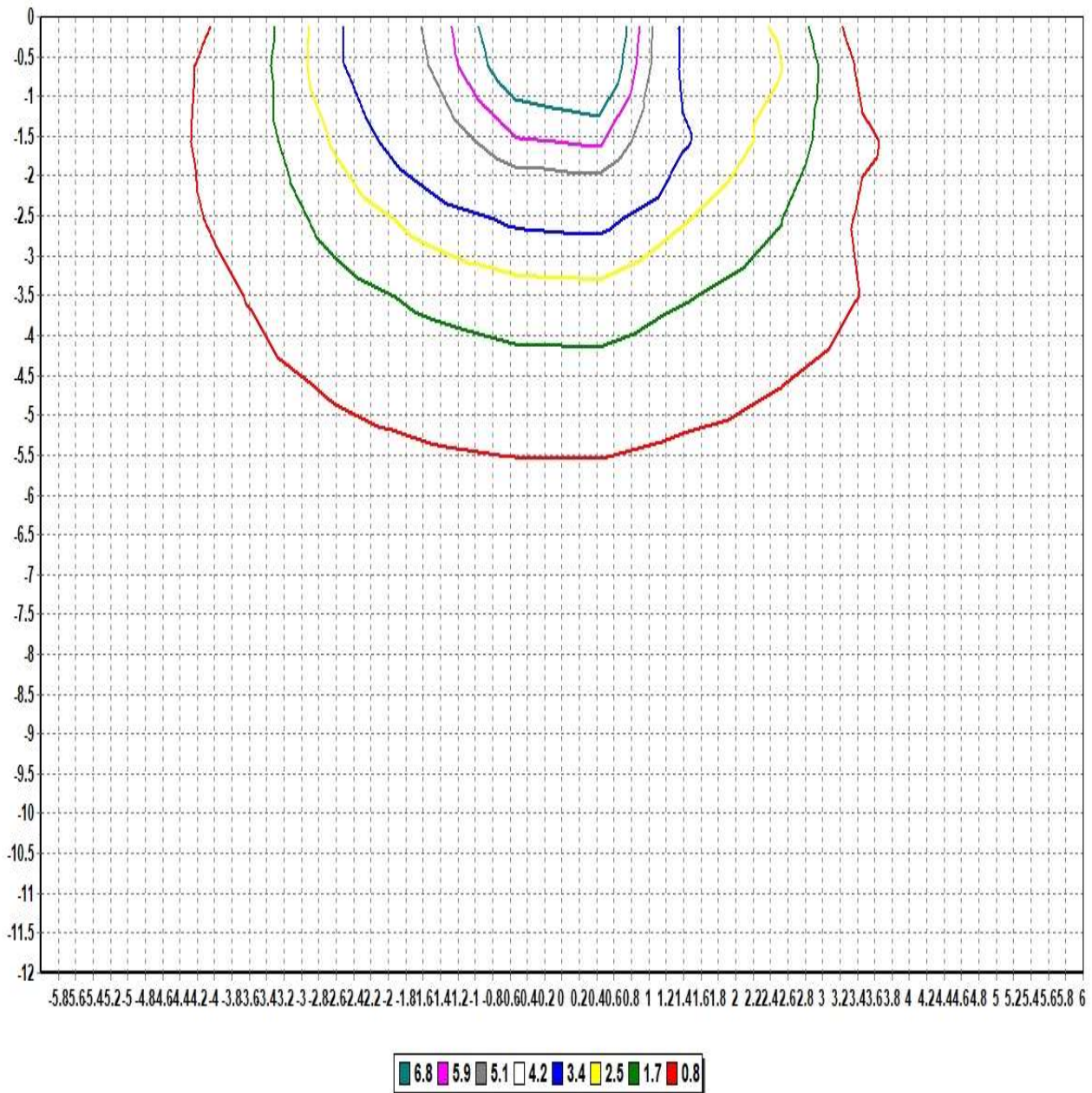
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## IsoLux Diagram (Wall)



Pole Height (m):	2.7	Wall Distance (m):	2.7
Aiming Plane:	0	Wall Height (m):	12
Total Optical Solution Provider			

Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 480 Current (A) 0.412

Operator

Total flux (lm) 480 Power Factor 1

Date 2023-04-26 오후 4:55:15

## Illuminance Levels (Ground)

6.00	0.13	0.16	0.13	0.26	0.27	0.33	0.23	0.27	0.45	0.42	0.24	0.24	0.26
5.00	0.26	0.18	0.22	0.26	0.57	0.66	0.61	0.63	0.76	0.43	0.37	0.41	0.33
4.00	0.33	0.43	0.47	0.64	0.81	0.94	0.87	0.92	1.18	0.80	0.76	0.55	0.41
3.00	0.29	0.60	0.89	0.84	1.51	1.82	1.86	2.31	1.73	1.45	1.05	0.72	0.45
2.00	0.39	0.65	0.87	1.93	2.28	3.67	4.01	4.29	3.18	2.15	1.24	0.84	0.54
1.00	0.60	0.97	1.51	2.12	3.78	6.29	8.29	7.03	4.38	2.61	1.54	0.96	0.59
0.00	0.64	1.05	1.70	2.96	5.21	8.57	10.31	8.55	5.25	3.00	1.73	1.07	0.67
-1.00	0.57	0.94	1.50	2.57	4.35	6.94	8.34	6.25	3.81	2.19	1.55	0.99	0.62
-2.00	0.52	0.83	1.22	2.13	3.15	4.25	4.10	3.71	2.33	1.99	0.91	0.67	0.40
-3.00	0.43	0.69	1.03	1.43	1.72	2.28	1.90	1.87	1.54	0.87	0.93	0.63	0.30
-4.00	0.39	0.52	0.75	0.80	1.17	0.93	0.89	0.94	0.84	0.65	0.48	0.45	0.34
-5.00	0.32	0.39	0.37	0.42	0.75	0.63	0.62	0.66	0.59	0.27	0.22	0.18	0.27
-6.00	0.25	0.24	0.24	0.41	0.43	0.27	0.24	0.32	0.28	0.26	0.13	0.17	0.14
-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.) : 10.307

Illum. (Min.) : 0.1281

Illum. (Avg.) : 1.4900

All illuminance level values are in lux.



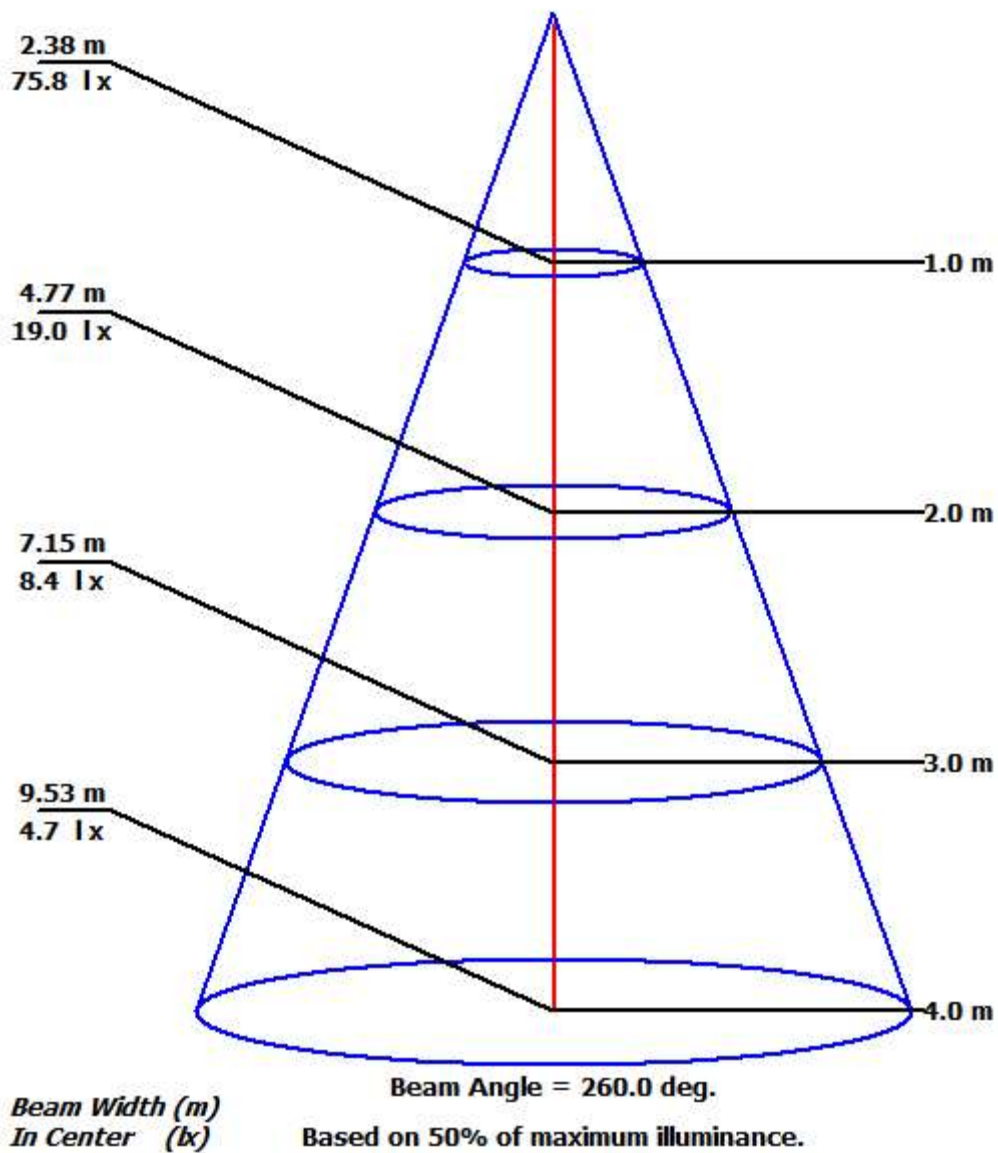
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## Illuminance Cone Diagram



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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