

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84  
\* Date of Receipt : 230608

**2. Purpose of Report :**

**3. Number of Report :** 230607

**4. Test Standard / Item :** / 230607 MSP1 30K 60도

**5. Test Period :** 230607 ~ 230608

**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
230607			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4387 , 0.4089	
Correlated Color Temperature	K	3010	
Ra		91.99	
Power Factor		1.000	
Input Voltage	V	23.989	
Input Current	A	0.046	
Input Watt	W	1.1114	
Lamp Flux	lm	73	
Efficient	lm/W	65.68	
luminous Intensity (Max , Center)	cd	95 , 85	
Illuminance	lx	85	1 m
		21	2 m
		9	3 m

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

\* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

230607

No. of lamps 1

Voltage (V) 23.989

Filename 230607 MSP1 30K 60도.jdt

Lamp flux (lm) 73

Current (A) 0.04633

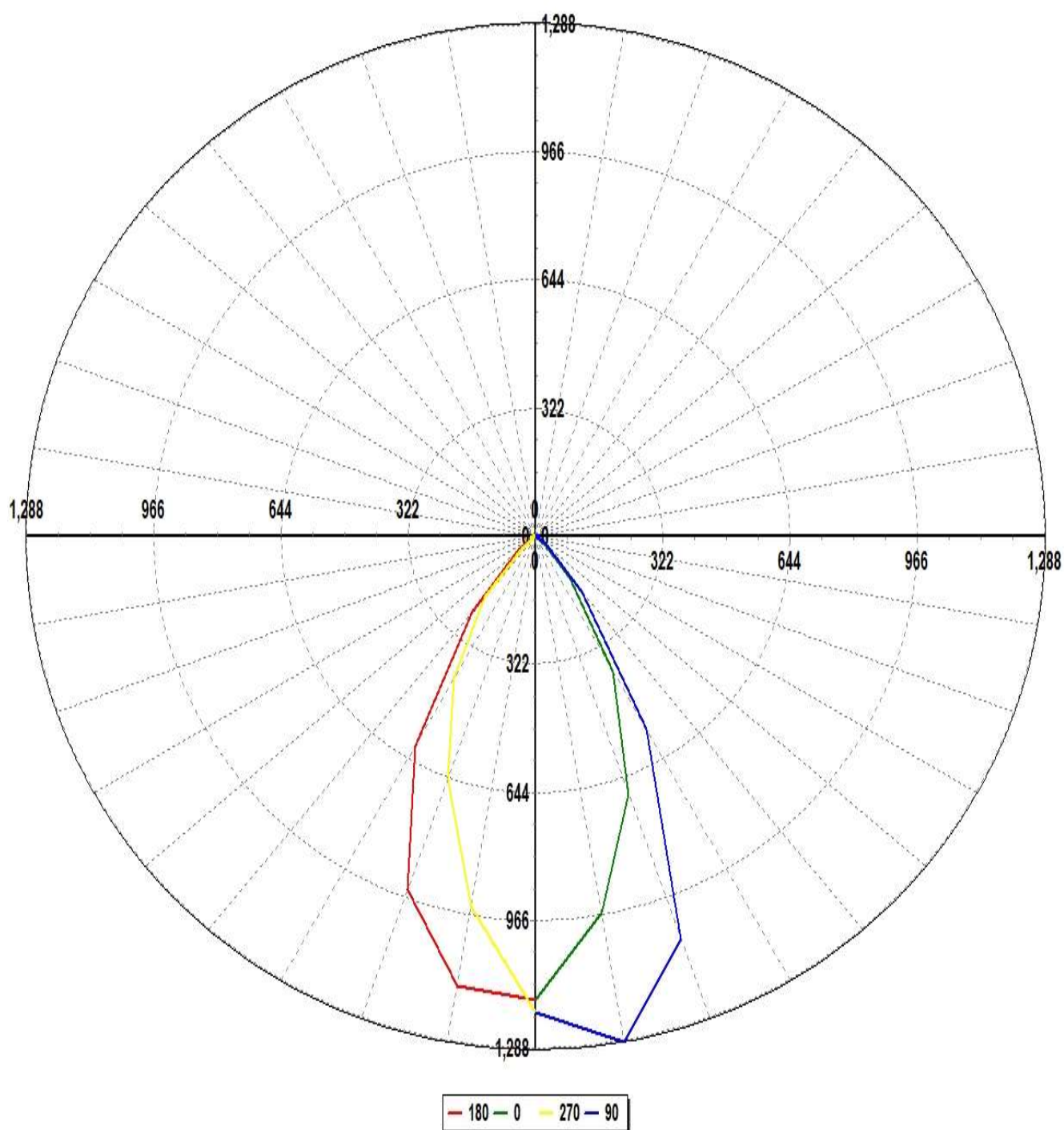
Operator

Total flux (lm) 73

Power Factor 1

Date 2023-06-07 오후 4:38:46

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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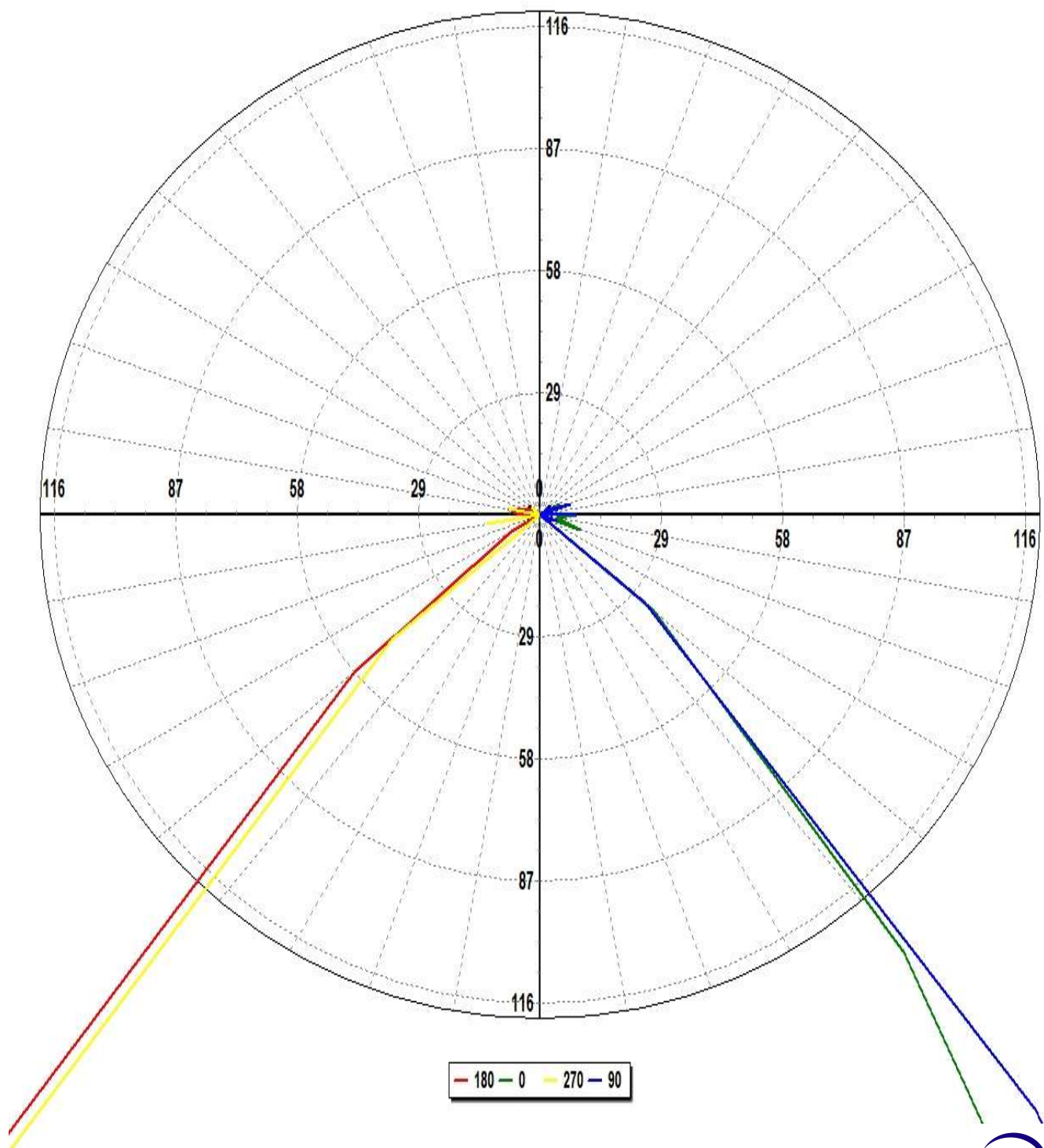
Operator

Total flux (lm) 73

Power Factor 1

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## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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## Luminous Intensity Data

Maximum (cd) : 95

Minimum (cd) : -1

G/C	0	30	60	90	120	150	180	210	240	270	300	330	360
0	85.07	85.23	86.42	87.38	87.05	87.39	85.07	85.23	86.42	87.38	87.05	87.39	85.07
10	70.31	78.73	88.66	94.3	95.02	89.51	83.74	77.54	71.31	68.95	67.24	69.67	70.31
20	50.44	59.73	71.88	78.74	79.94	73.62	69.09	59.57	51.53	47.52	45.62	48.33	50.44
30	28.7	32.49	38.29	41.03	43.71	40.99	44.43	39.56	32.87	30.14	28.78	30.74	28.7
40	9.9	10.24	11.98	13.46	14.34	14.01	18.31	16.77	13.94	14.63	12.06	12.22	9.9
50	2.59	2.24	2.36	2.41	3.24	2.54	4.22	4.34	4.11	3.38	3.29	3.61	2.59
60	-0.01	0.51	0.43	-0.65	-0.15	0.47	0.58	0.01	0.59	-0.29	0.33	-0.06	-0.01
70	0.76	-0.32	-0.04	0.31	-0.24	-0.18	-0.46	0.17	-0.23	-0.39	0.32	0.15	0.76
80	0.31	0.19	0.11	-0.57	-0.07	0.09	-0.16	0.63	0.43	0.94	0.5	0.53	0.31
90	0.64	-0.06	-0.28	0.63	0	0.3	0.34	0.27	-0.49	-0.29	-0.86	0.4	0.64
100	-0.12	0.12	0.75	-0.04	0.22	0.07	0.57	0.66	-0.13	0.56	0.21	0.22	-0.12
110	-0.34	-0.37	-0.11	0.56	-0.57	0.52	0.25	-0.04	-0.23	-0.19	0.42	0.8	-0.34
120	0.39	0.62	-0.25	0.14	-0.23	0.01	0.17	-0.14	-0.09	0.08	0.36	-0.32	0.39
130	-0.03	0.84	-0.02	0.14	0.84	-0.06	0.11	0.41	0.04	0.2	0.27	1.3	-0.03

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## Luminous Flux Table

Total Lamp Lumens: 73.042

Luminaire Efficiency (lm/W): 65.72

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.07	2.07	2.83	2.83
10	15.14	17.20	23.56	23.55
20	22.98	40.18	55.04	55.00
30	19.70	59.88	82.02	81.98
40	9.50	69.37	95.03	94.98
50	2.68	72.05	98.70	98.65
60	0.14	72.19	98.90	98.84
70	-0.01	72.18	98.88	98.82
80	0.26	72.44	99.24	99.18
90	0.05	72.50	99.31	99.26
100	0.28	72.78	99.69	99.64
110	0.06	72.84	99.78	99.72
120	0.06	72.90	99.86	99.80
130	0.15	73.04	100.06	100.00

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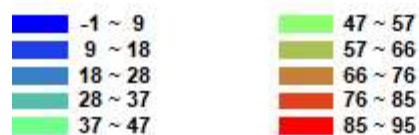
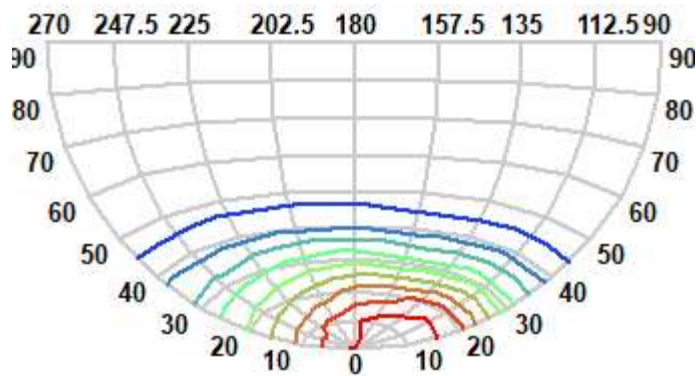
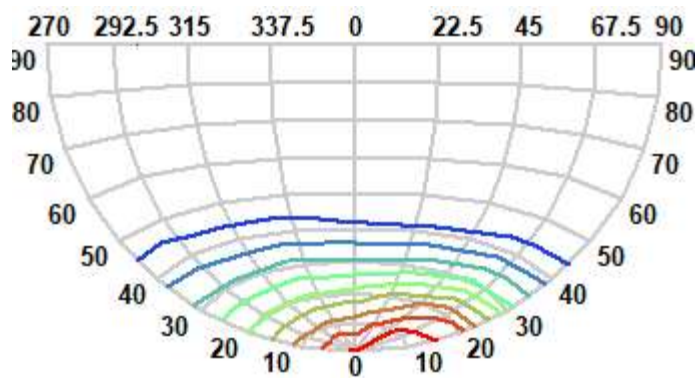
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Power Factor 1

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## IsoCandela (Type C)





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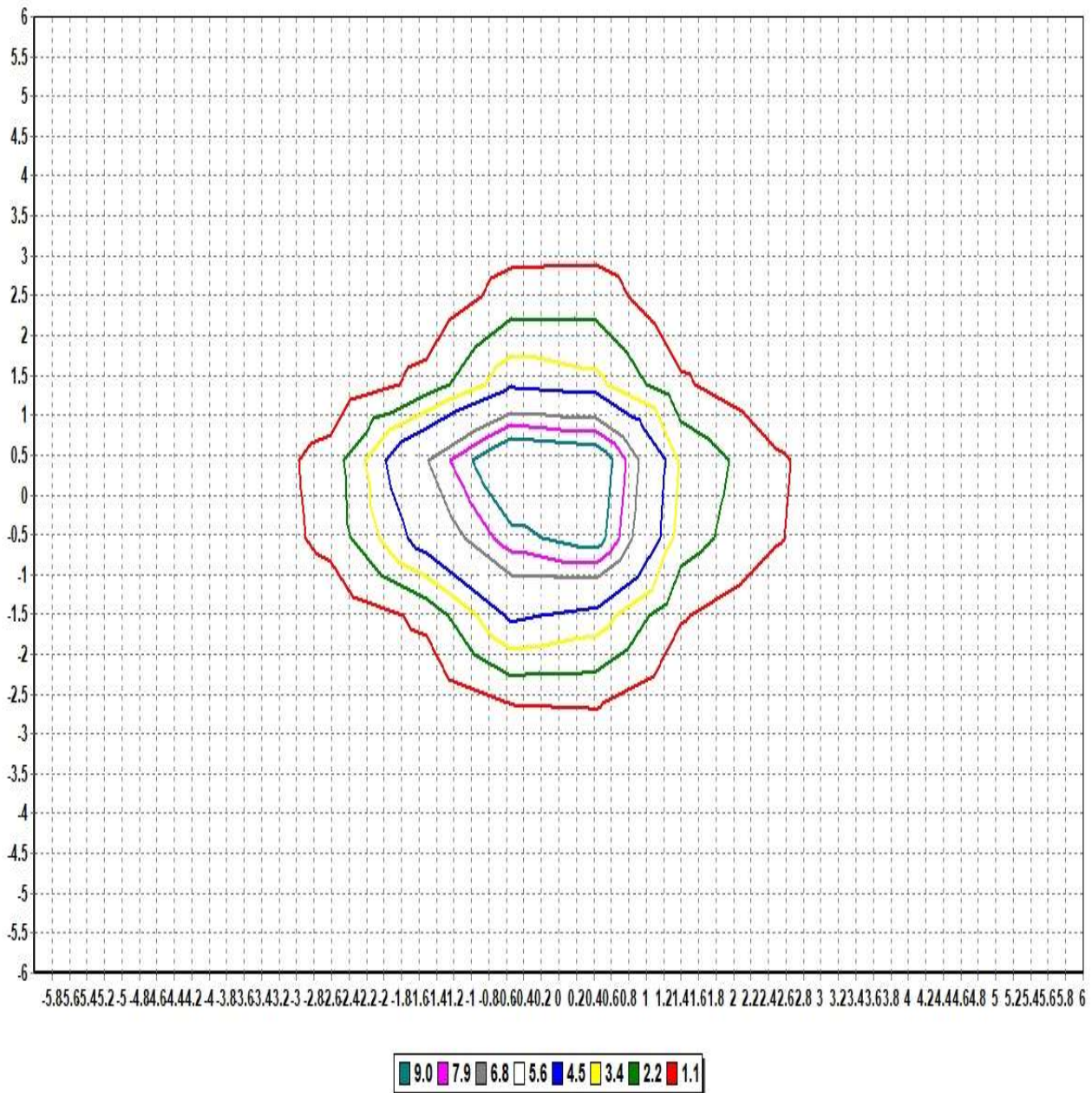
Operator

Total flux (lm) 73

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

No. of lamps	1	Voltage (V)	23.989
Lamp flux (lm)	73	Current (A)	0.04633
Total flux (lm)	73	Power Factor	1

Report

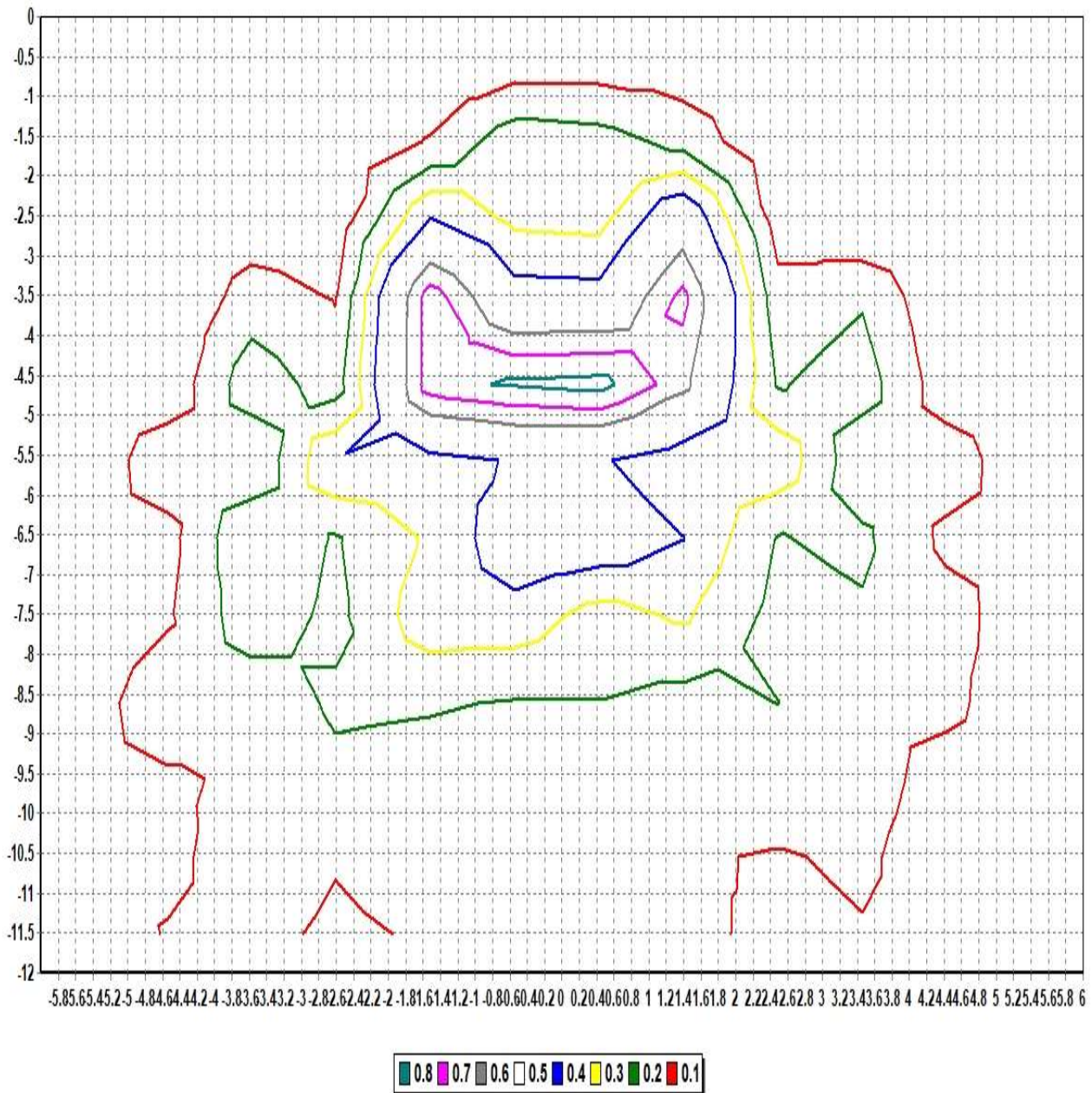
230607

Filename 230607 MSP1 30K 60도.jdt

Operator

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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)	23.989
Lamp flux (lm)	73	Current (A)	0.04633
Total flux (lm)	73	Power Factor	1

Report 230607

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## Illuminance Levels (Ground)

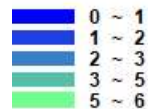
6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.02	0.03	0.03	0.03	0.02	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.02	0.03	0.00	0.02	0.01	0.02	0.01	0.03	0.02	0.00	0.00
3.00	0.00	0.00	0.03	0.01	0.30	0.13	0.19	0.10	0.26	0.02	0.03	0.00	0.00
2.00	0.00	0.03	0.01	0.31	0.31	0.96	1.64	0.71	0.24	0.22	0.01	0.02	0.00
1.00	0.00	0.04	0.03	0.13	0.96	4.87	10.61	3.47	0.69	0.10	0.02	0.04	0.00
0.00	0.00	0.05	0.05	0.29	1.95	9.42	11.67	7.88	1.17	0.17	0.02	0.03	0.00
-1.00	0.00	0.04	0.03	0.19	1.12	4.51	7.72	3.19	0.80	0.14	0.02	0.03	0.00
-2.00	0.00	0.04	0.01	0.41	0.41	1.08	1.42	0.81	0.32	0.28	0.01	0.03	0.00
-3.00	0.00	0.00	0.05	0.03	0.33	0.18	0.23	0.14	0.32	0.02	0.04	0.00	0.00
-4.00	0.00	0.00	0.03	0.05	0.01	0.03	0.03	0.03	0.01	0.04	0.02	0.00	0.00
-5.00	0.00	0.00	0.00	0.00	0.04	0.04	0.04	0.04	0.03	0.00	0.00	0.00	0.00
-6.00	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
-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.) : 11.670

Illum. (Min.) : -0.0033

Illum. (Avg.) : 0.4963

All illuminance level values are in lux.



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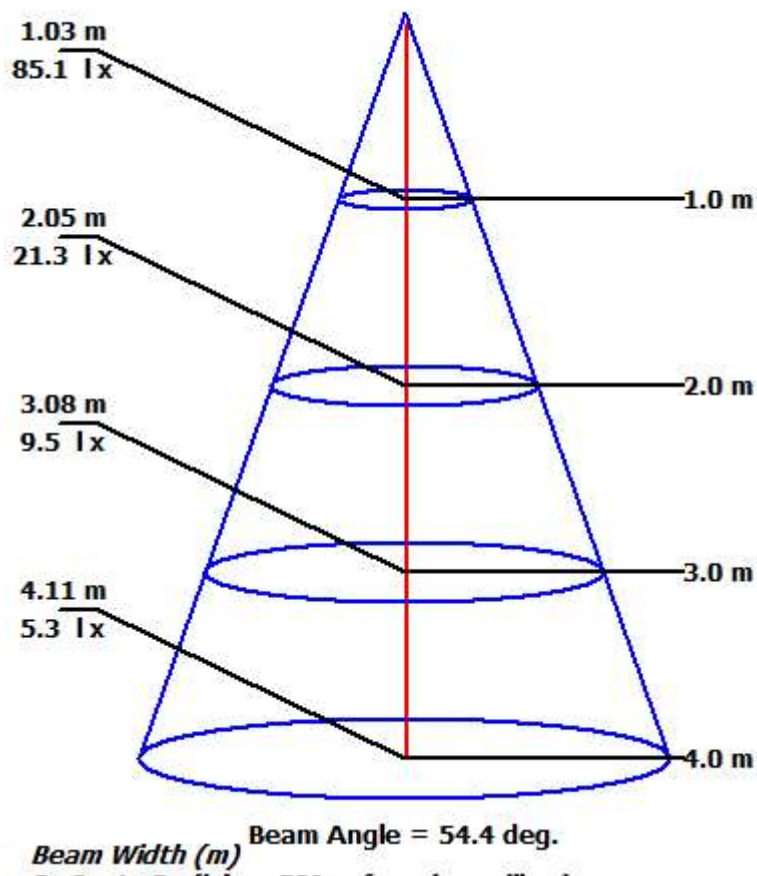
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## Illuminance Cone Diagram



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Total flux (lm) 73 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