

# 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 25도

**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		0.4323 , 0.4060	
Correlated Color Temperature	K	3095	
Ra		92.38	
Power Factor		1.000	
Input Voltage	V	23.989	
Input Current	A	0.046	
Input Watt	W	1.1099	
Lamp Flux	lm	64.5	
Efficient	lm/W	58.11	
luminous Intensity (Max , Center)	cd	186 , 177	
Illuminance	lx	177	1 m
		44	2 m
		20	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 25도.jdt

Lamp flux (lm) 65

Current (A) 0.04627

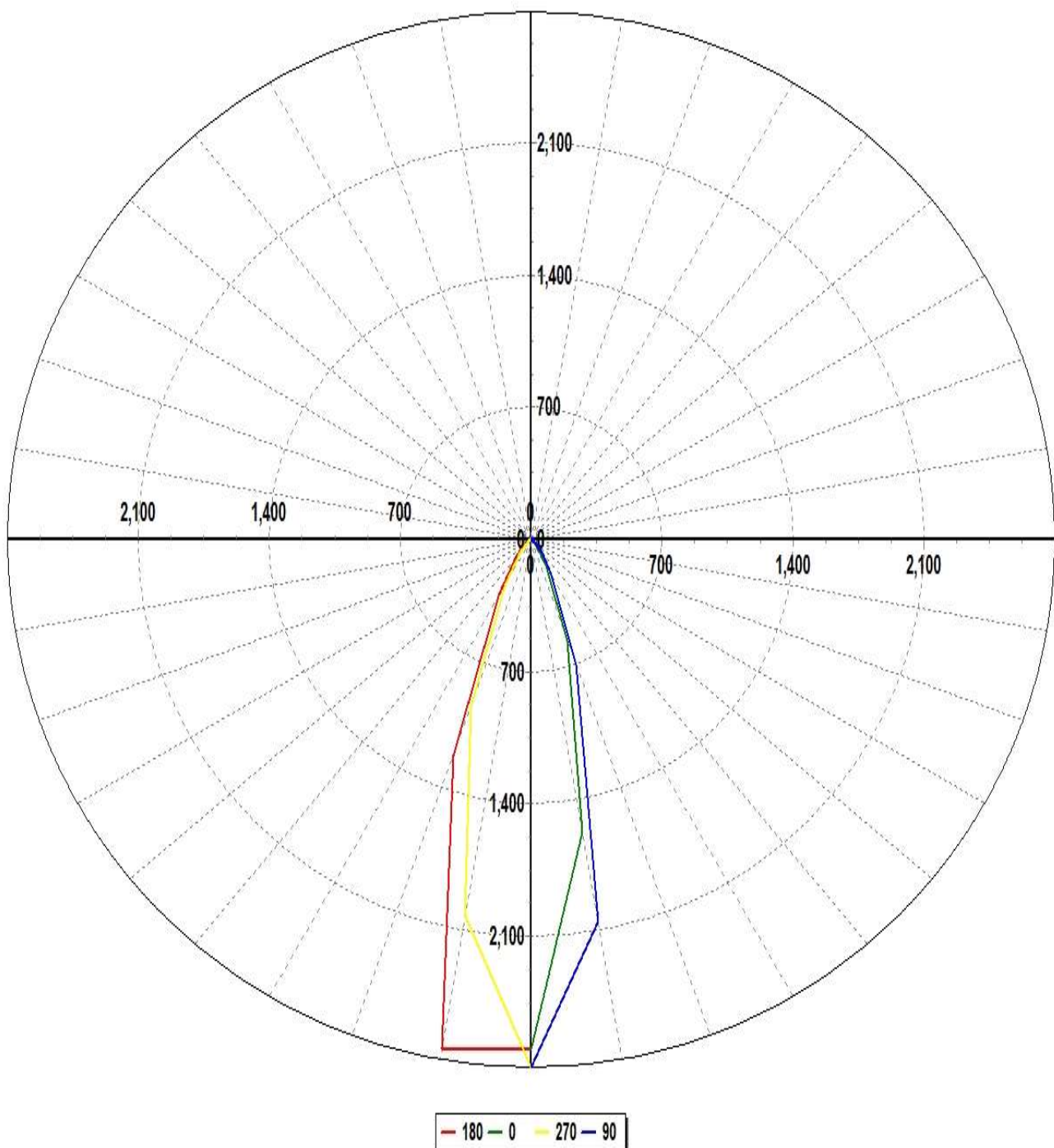
Operator

Total flux (lm) 65

Power Factor 1

Date 2023-06-07 오후 3:47:19

## Luminous Intensity Distribution



Luminaire KH FEELUX

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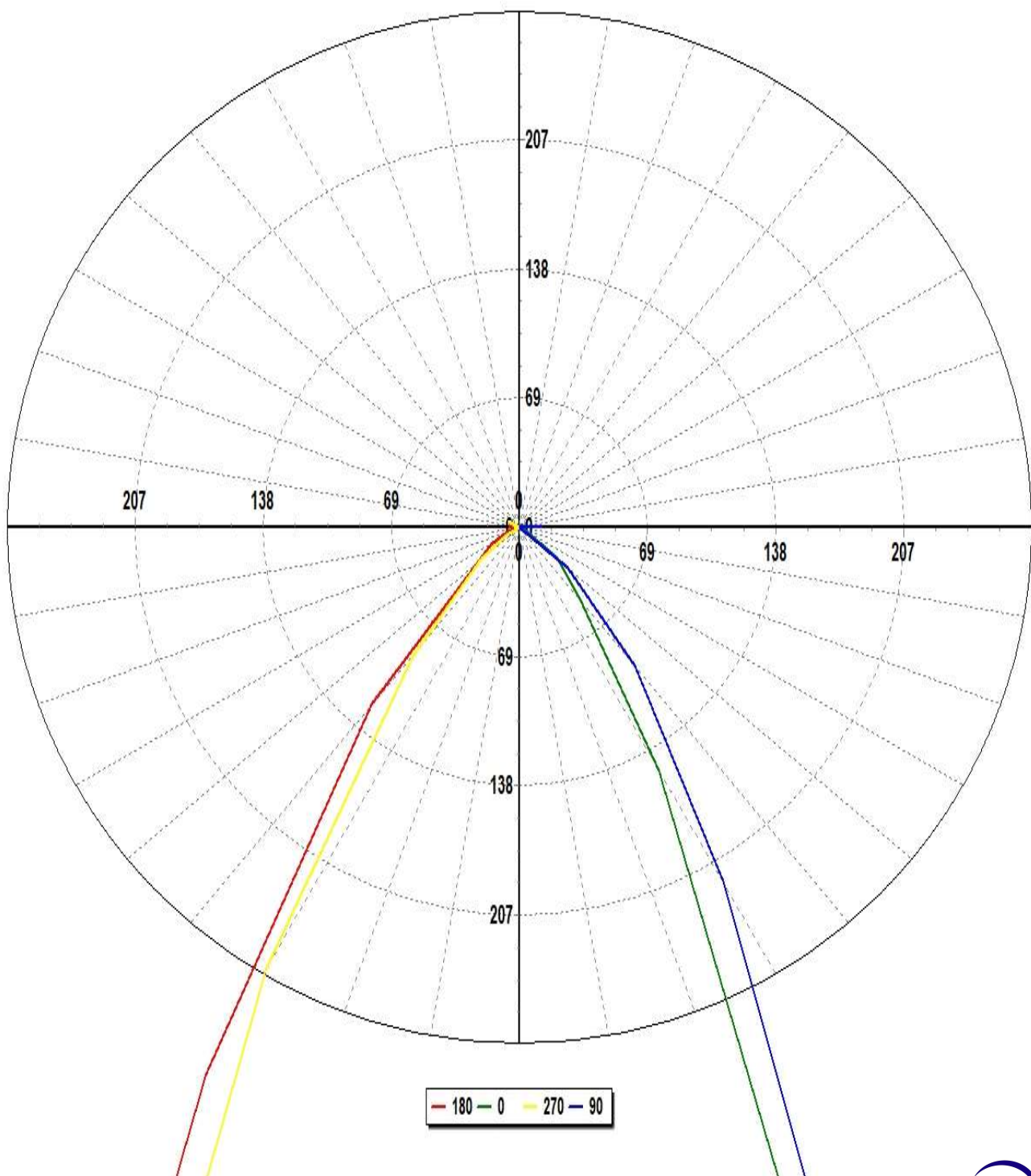
Operator

Total flux (lm) 65

Power Factor 1

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## Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

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## Luminous Intensity Data

Maximum (cd) : 186

Minimum (cd) : -1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	174.64	175.78	177.9	180.48	183.45	186.16	174.64	175.78	177.9	180.48	183.45
10	101.9	105.98	117.99	132.78	149.32	159.19	176.78	165.62	145.88	130.78	118.93
20	36.91	35.58	41.18	45.56	52.08	57.47	78.53	75.04	66.68	60.3	52.72
30	9.67	9.92	13.96	14.2	16.91	16.45	21.74	21.17	19.65	17.54	14.96
40	3.29	3.09	4.62	6.25	6.35	5.77	7.96	6.92	7.12	5.74	5.64
50	1.72	1.42	2.04	2.19	2.18	1.27	1.92	2.64	1.95	1.72	1.96
60	0.16	0.46	-0.58	-0.36	-0.93	0.39	1.13	1.14	0.74	0.51	0.93
70	-0.18	0.23	0.5	-0.01	-0.34	0.08	0.45	-0.5	0.17	-0.15	-0.32
80	-0.1	0.2	0.38	-0.05	0.6	-0.61	-0.4	-0.21	0.26	-0.08	0.51
90	-0.1	-0.64	0.04	0.78	-0.22	-0.27	0.37	-0.07	-0.21	0.12	0.19
100	0.01	-0.64	-0.41	0.19	-0.46	-0.04	-0.23	-0.12	0.05	-0.23	-0.93
110	0.11	-0.33	-0.1	-0.41	1.14	-0.64	-0.37	-0.58	0.08	0.18	0.57
120	-0.3	0.11	0.42	-0.82	-0.52	-0.04	0.14	0.1	0.03	0.45	-0.05
130	0.14	0.59	-0.5	-0.24	0.24	0.15	0.14	-0.06	0.57	0.01	0.3

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Power Factor 1

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## Luminous Intensity Data (Continued)

Maximum (cd) : 186

Minimum (cd) : -1

G/C	330	360
0	186.16	174.64
10	117.77	101.9
20	50.14	36.91
30	13.82	9.67
40	3.69	3.29
50	1.27	1.72
60	-0.07	0.16
70	-0.57	-0.18
80	-0.07	-0.1
90	-0.09	-0.1
100	-0.26	0.01
110	-0.18	0.11
120	0.02	-0.3
130	0.42	0.14

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## Luminous Flux Table

Total Lamp Lumens: 64.459

Luminaire Efficiency (lm/W): 58.08

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	4.30	4.30	6.66	6.67
10	25.72	30.02	46.54	46.57
20	20.36	50.38	78.10	78.15
30	8.67	59.05	91.55	91.60
40	3.90	62.94	97.59	97.65
50	1.56	64.50	100.00	100.07
60	0.28	64.78	100.43	100.50
70	-0.05	64.72	100.35	100.41
80	0.04	64.76	100.41	100.47
90	-0.01	64.75	100.39	100.46
100	-0.28	64.48	99.96	100.03
110	-0.05	64.43	99.89	99.96
120	-0.04	64.40	99.84	99.90
130	0.06	64.46	99.94	100.00

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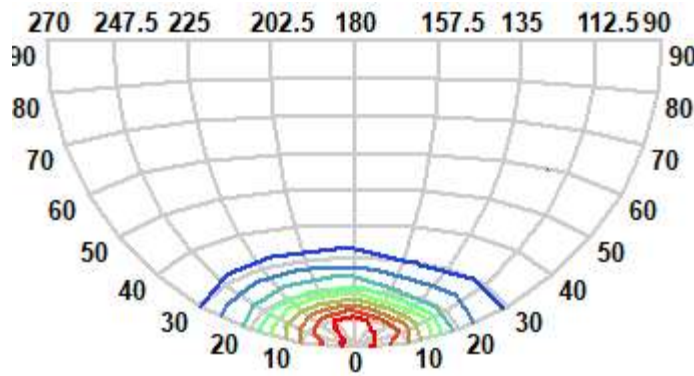
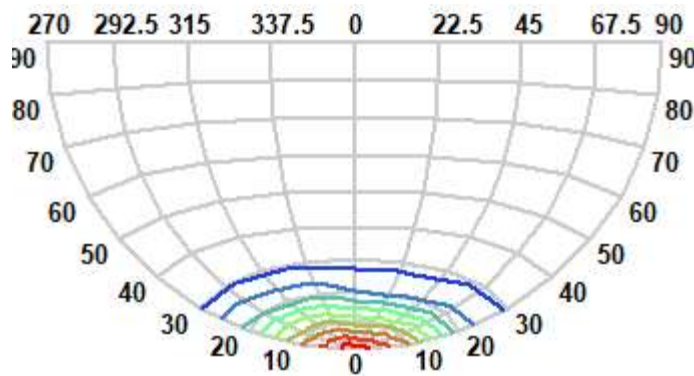
Operator

Total flux (lm) 65

Power Factor 1

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## IsoCandela (Type C)





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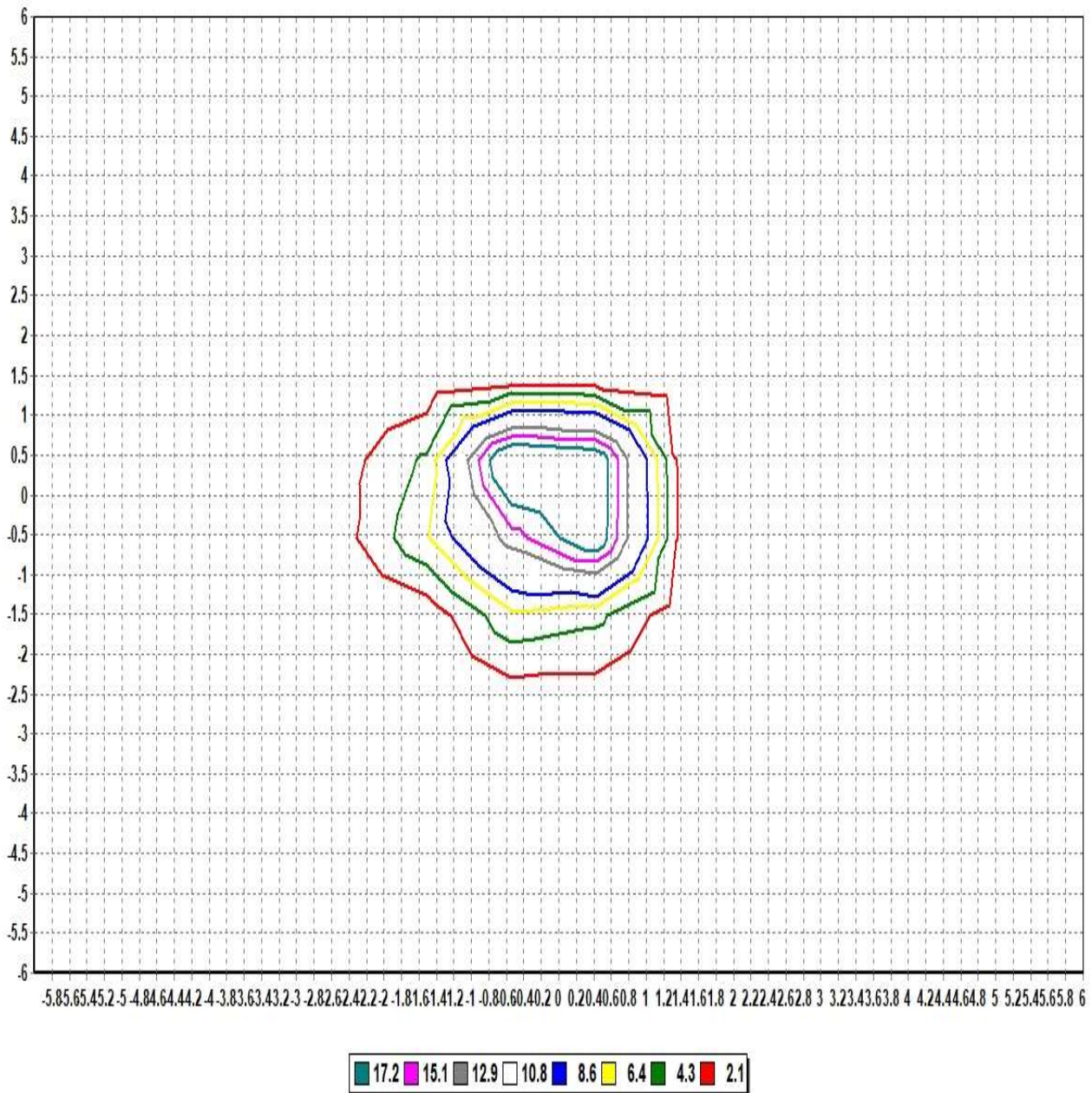
Operator

Total flux (lm) 65

Power Factor 1

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## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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Voltage (V) 23.989

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Current (A) 0.04627

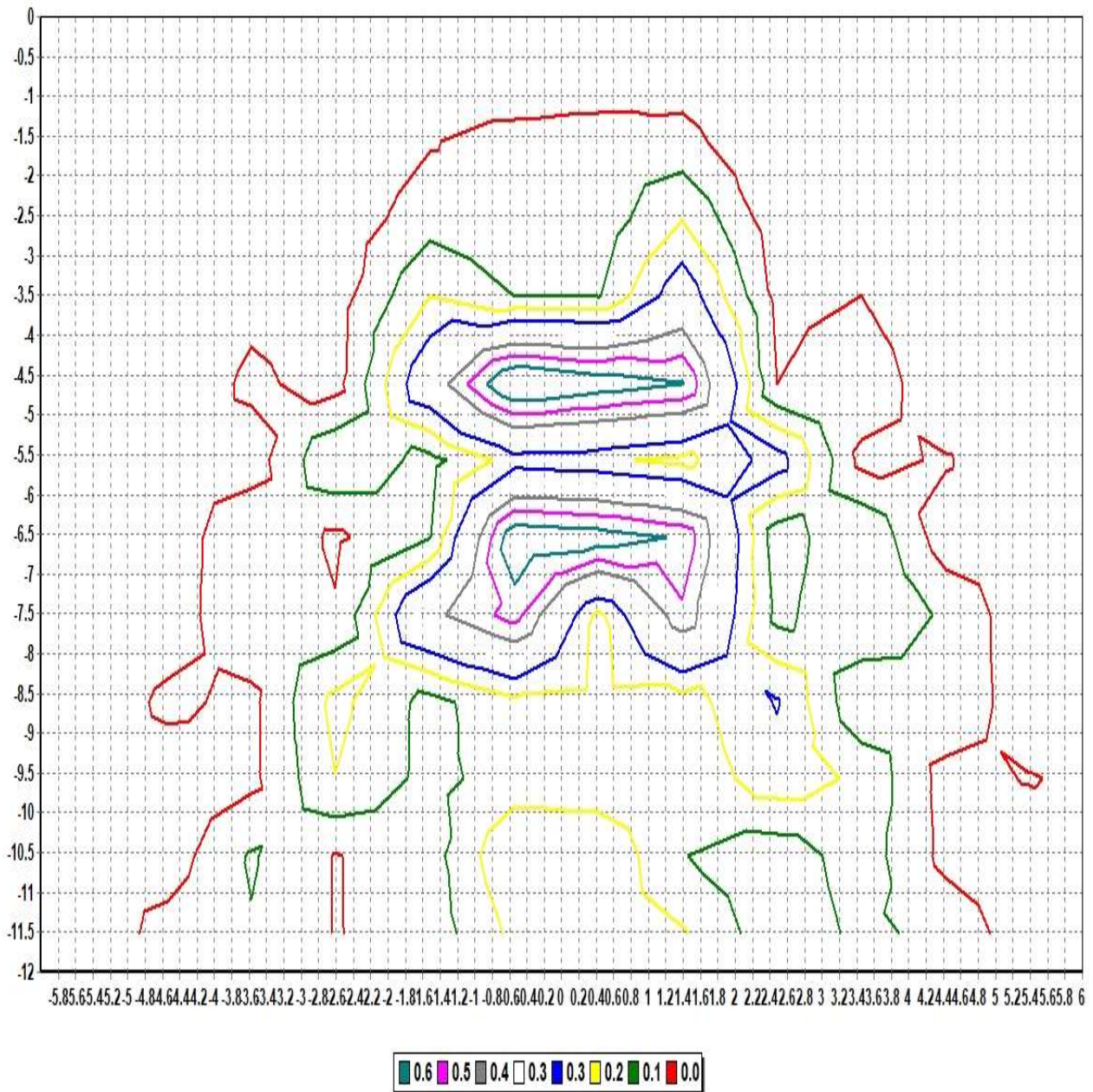
Operator

Total flux (lm) 65

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)	23.989
Lamp flux (lm)	65	Current (A)	0.04627
Total flux (lm)	65	Power Factor	1

Report 230607

Filename 230607 MSP1 30K 25도.jdt

Operator

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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	0.01	0.02	0.03	0.02	0.01	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.01	0.03	-0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.00	0.00
3.00	0.00	0.00	0.02	0.00	0.15	0.09	0.12	0.07	0.11	0.01	0.02	0.00	0.00
2.00	0.00	0.01	-0.01	0.13	0.17	0.42	0.64	0.22	0.10	0.08	0.01	0.01	0.00
1.00	0.01	0.02	0.02	0.08	0.42	2.23	14.70	1.53	0.21	0.06	0.01	0.02	0.00
0.00	0.01	0.03	0.03	0.13	0.91	19.64	23.96	11.29	0.39	0.08	0.02	0.02	0.00
-1.00	0.00	0.02	0.02	0.10	0.47	3.29	14.54	2.45	0.36	0.07	0.01	0.02	0.00
-2.00	0.00	0.02	0.02	0.18	0.19	0.47	0.70	0.38	0.15	0.09	0.02	0.02	0.00
-3.00	0.00	0.01	0.03	0.03	0.16	0.10	0.10	0.08	0.13	0.02	0.02	0.00	0.00
-4.00	0.00	0.00	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00
-5.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	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.) : 23.956

Illum. (Min.) : -0.0099

Illum. (Avg.) : 0.6093

All illuminance level values are in lux.



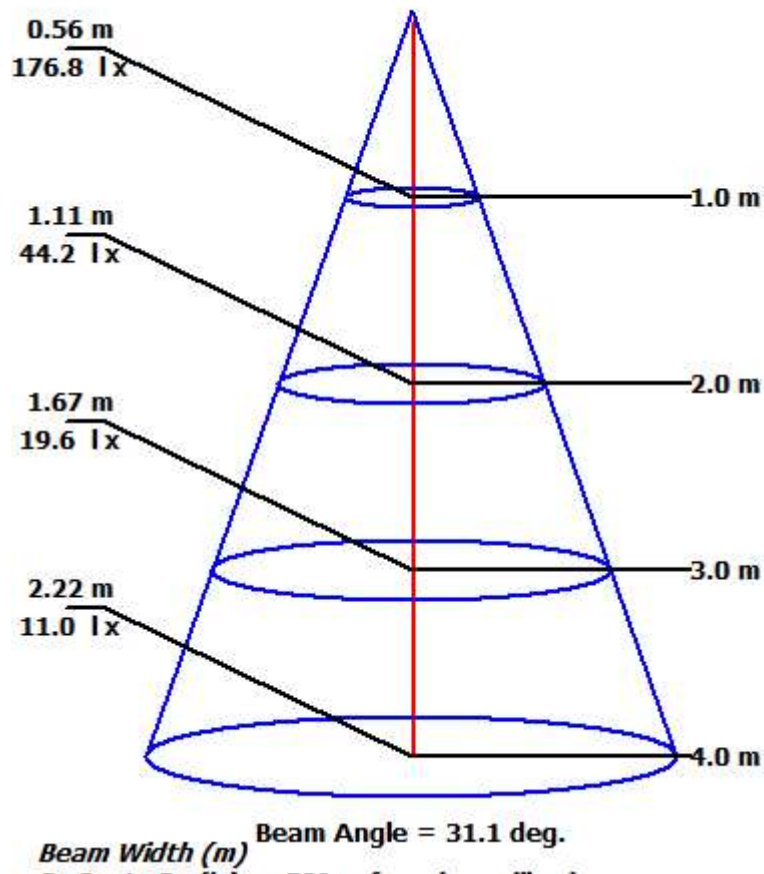
Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.989
Lamp flux (lm)	65	Current (A)	0.04627
Total flux (lm)	65	Power Factor	1

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 Operator  
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## Illuminance Cone Diagram





Luminaire KH FEELUX

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Lamp flux (lm) 65 Current (A) 0.04627

Operator

Total flux (lm) 65 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