

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 MSP3 30K 45도

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		0.4334 , 0.4040	
Correlated Color Temperature	K	3061	
Ra		93.22	
Power Factor		1.000	
Input Voltage	V	23.981	
Input Current	A	0.117	
Input Watt	W	2.8076	
Lamp Flux	lm	212.3	
Efficient	lm/W	75.61	
luminous Intensity (Max , Center)	cd	478 , 478	
Illuminance	lx	478	1 m
		119	2 m
		53	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) 23.981

Filename 230607 MSP3 30K 45도.jdt

Lamp flux (lm) 212

Current (A) 0.11708

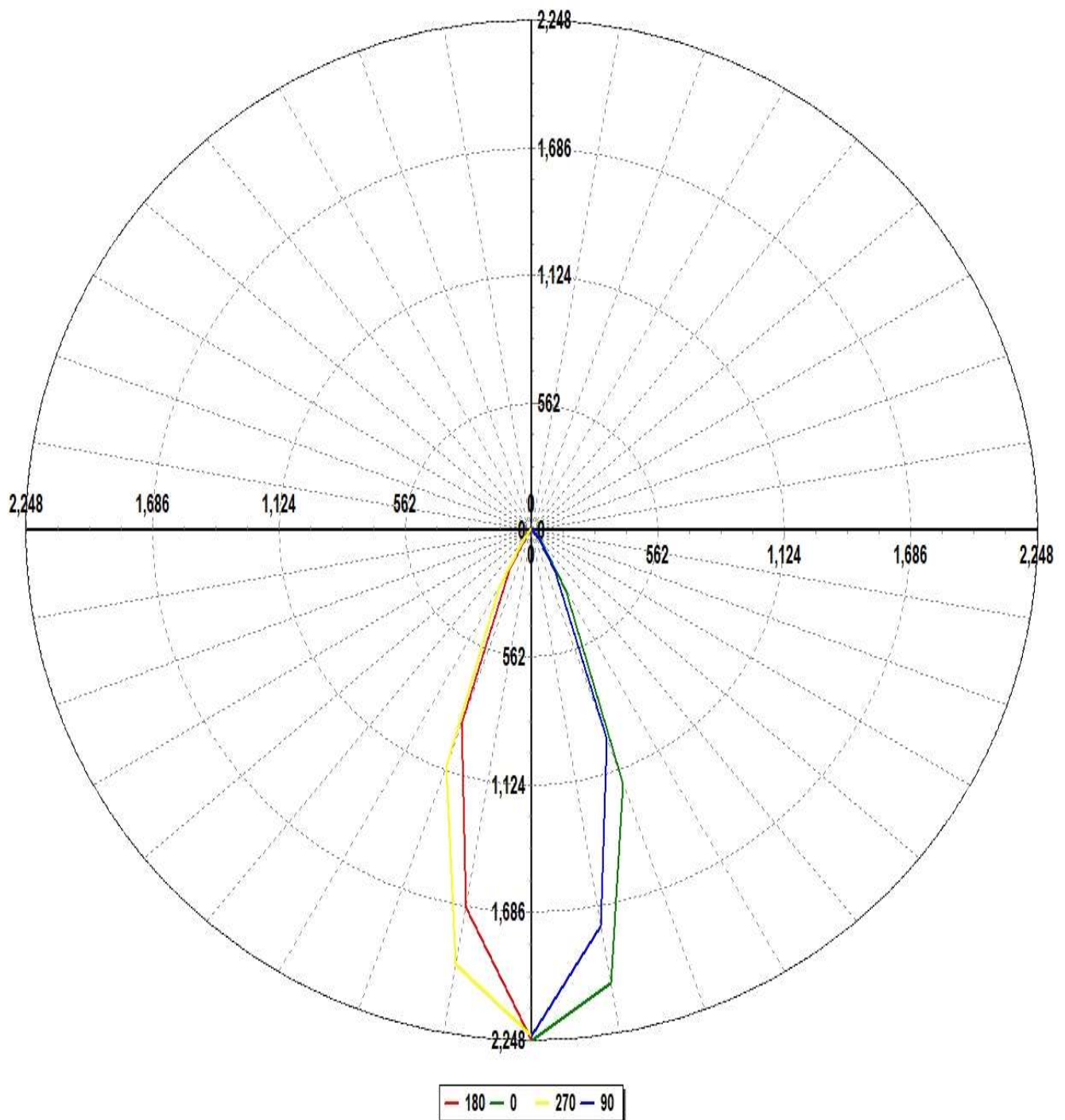
Operator

Total flux (lm) 212

Power Factor 1

Date 2023-06-07 오후 5:14:51

Luminous Intensity Distribution



Luminaire KH FEELUX

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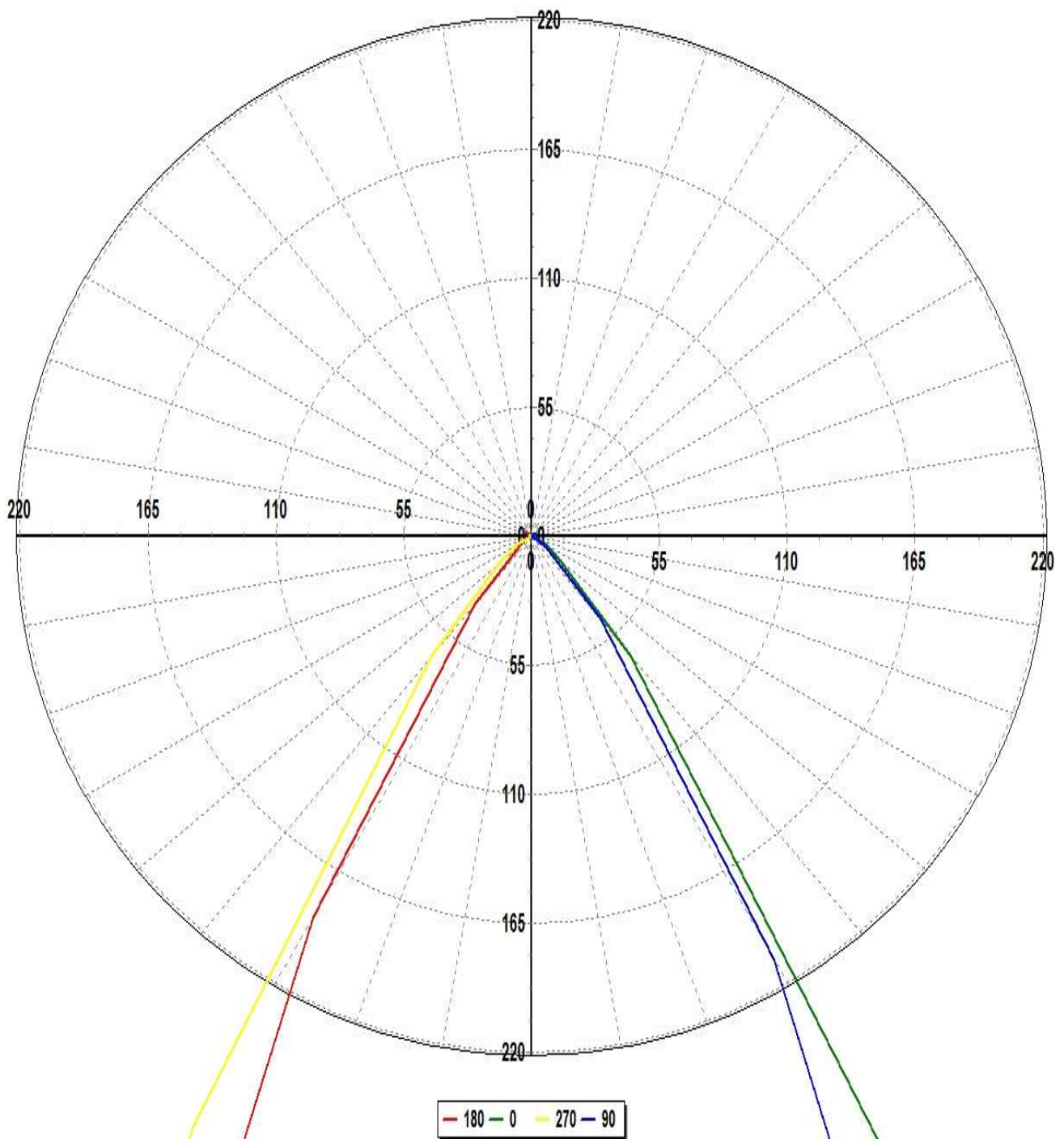
Operator

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Power Factor 1

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Luminous Intensity Distribution (Lowest 10%)



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Luminous Intensity Data

Maximum (cd) : 478

Minimum (cd) : -1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	477.93	478.21	475.1	472.94	467.65	461.76	477.93	478.21	475.1	472.94	467.65
10	430.68	419.93	404.96	376.06	353.63	332.56	359.02	366.5	383.97	413.93	439.56
20	252.3	243.6	234.15	207.84	187.6	167.44	192.51	194.76	207.23	236.42	263.86
30	64.96	62.83	60.71	44.21	35.66	30.59	39.91	39.48	47.88	61.96	76.44
40	14.08	13.26	13.95	9.69	8.37	7.33	8.04	8.8	11.84	14.19	15.95
50	3.19	3.11	3.14	2.18	2.12	2.1	1.7	2.1	2.37	3.87	3.94
60	1.42	1.3	1.46	1.32	0.69	0.13	1.06	0.44	0.86	1.45	1.63
70	0.34	0.35	0.21	0.29	-0.15	0.54	-0.16	-0.21	-0.18	0.24	-0.09
80	0.42	-0.1	-0.03	-0.58	-0.19	0.26	-0.02	-0.36	-0.04	-0.3	0.55
90	-0.28	0.14	-0.72	-0.18	-0.5	-0.52	0.01	0.13	-0.11	-0.52	-0.06
100	0.14	-0.18	-0.22	-0.32	-0.13	-0.11	-0.65	-0.31	-0.24	0.22	-0.51
110	-0.01	-0.04	0.24	0.1	0.91	0.03	0	0.11	-0.85	-0.62	0.65
120	-0.4	0.67	0.92	-0.25	0.1	0.63	-0.53	0.27	0.47	0	0.22
130	0.32	-0.01	0.3	0.55	0.51	0.66	0.7	0.73	0.82	0.28	0.59

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Luminous Intensity Data (Continued)

Maximum (cd) : 478

Minimum (cd) : -1

G/C	330	360
0	461.76	477.93
10	453.66	430.68
20	290.9	252.3
30	94.28	64.96
40	24.05	14.08
50	5.61	3.19
60	1.4	1.42
70	0.54	0.34
80	-0.08	0.42
90	-0.52	-0.28
100	-0.7	0.14
110	0.57	-0.01
120	-0.03	-0.4
130	0.74	0.32

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Luminous Flux Table

Total Lamp Lumens: 212.33

Luminaire Efficiency (lm/W): 75.63

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	11.29	11.29	5.32	5.32
10	75.04	86.33	40.66	40.66
20	83.62	169.94	80.05	80.04
30	30.07	200.01	94.21	94.20
40	8.77	208.79	98.34	98.33
50	2.48	211.26	99.51	99.50
60	1.04	212.30	100.00	99.99
70	0.15	212.45	100.07	100.06
80	-0.04	212.41	100.05	100.04
90	-0.29	212.12	99.92	99.90
100	-0.27	211.85	99.79	99.77
110	0.09	211.95	99.83	99.82
120	0.16	212.11	99.91	99.89
130	0.22	212.33	100.02	100.00

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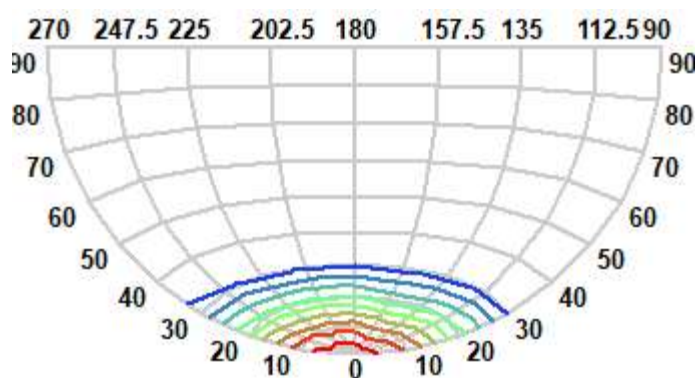
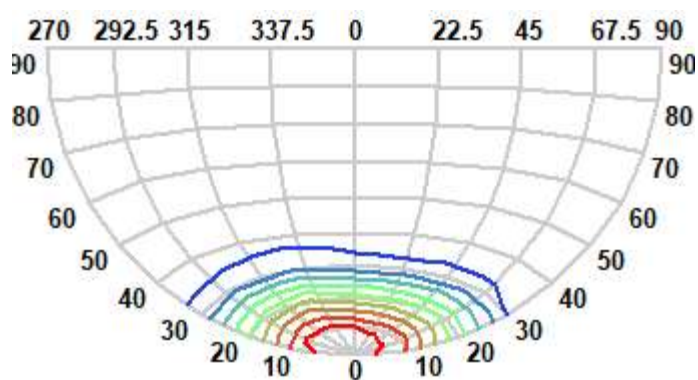
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IsoCandela (Type C)



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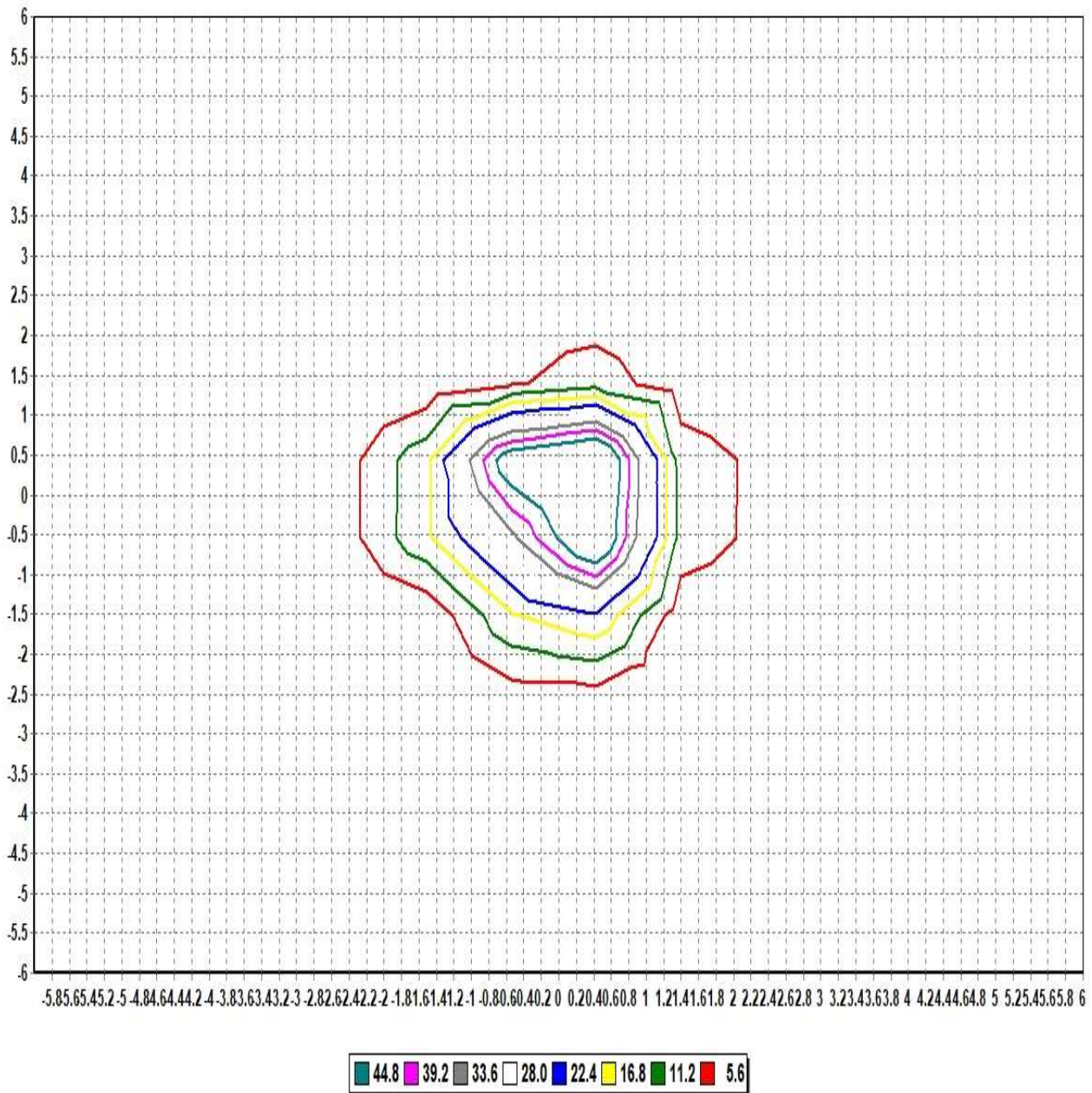
Operator

Total flux (lm) 212

Power Factor 1

Date 2023-06-07 오후 5:14:51

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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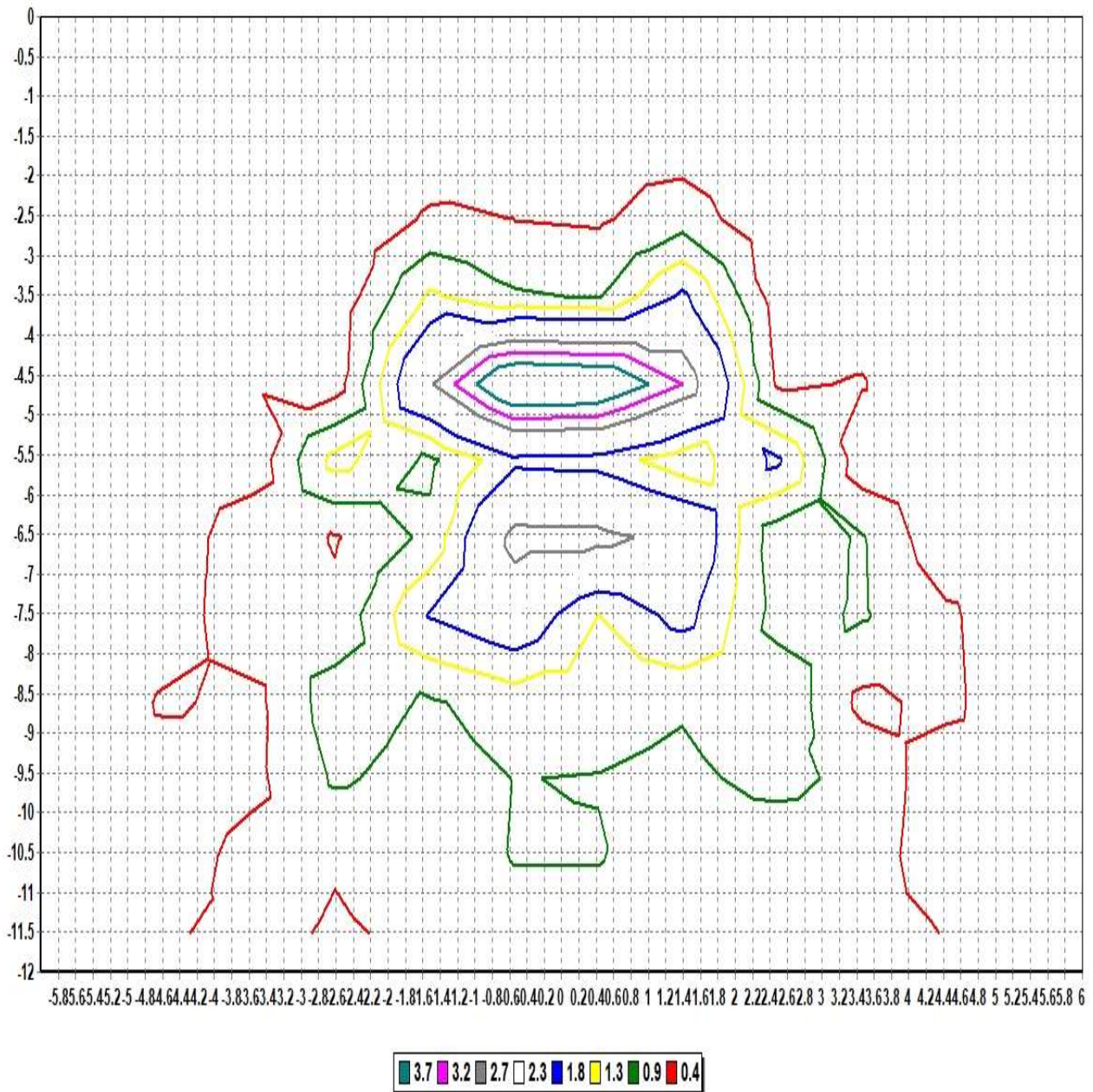
Operator

Total flux (lm) 212

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)	23.981
Lamp flux (lm)	212	Current (A)	0.11708
Total flux (lm)	212	Power Factor	1

Report 230607

Filename 230607 MSP3 30K 45도.jdt

Operator

Date 2023-06-07 오후 5:14:51

Illuminance Levels (Ground)

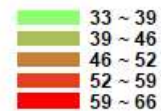
6.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.00
5.00	0.00	0.00	0.00	0.01	0.02	0.04	0.03	0.03	0.03	0.01	0.00	0.00	0.01
4.00	0.00	0.00	0.02	0.03	0.02	0.04	0.04	0.04	0.03	0.04	0.03	0.01	0.00
3.00	0.00	0.00	0.03	0.03	0.21	0.09	0.15	0.14	0.31	0.04	0.04	0.01	0.00
2.00	0.00	0.02	0.02	0.17	0.21	0.60	1.54	0.95	0.32	0.31	0.03	0.03	0.01
1.00	0.00	0.02	0.02	0.09	0.58	7.35	41.92	10.23	0.95	0.14	0.05	0.06	0.01
0.00	0.00	0.02	0.03	0.12	1.36	40.00	65.56	48.07	2.26	0.22	0.05	0.04	0.01
-1.00	0.00	0.02	0.02	0.09	0.62	7.24	46.17	10.66	1.20	0.20	0.05	0.05	0.01
-2.00	0.00	0.02	0.01	0.18	0.19	0.65	2.19	1.12	0.36	0.52	0.04	0.04	0.00
-3.00	0.00	0.00	0.02	0.02	0.25	0.10	0.24	0.17	0.33	0.05	0.07	0.01	0.00
-4.00	0.00	0.00	0.02	0.03	0.01	0.04	0.06	0.04	0.04	0.05	0.03	0.01	0.00
-5.00	0.00	0.00	0.00	0.00	0.02	0.04	0.05	0.04	0.04	0.01	0.00	0.00	0.01
-6.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	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.) : 65.559

Illum. (Min.) : -0.0008

Illum. (Avg.) : 1.7661

All illuminance level values are in lux.



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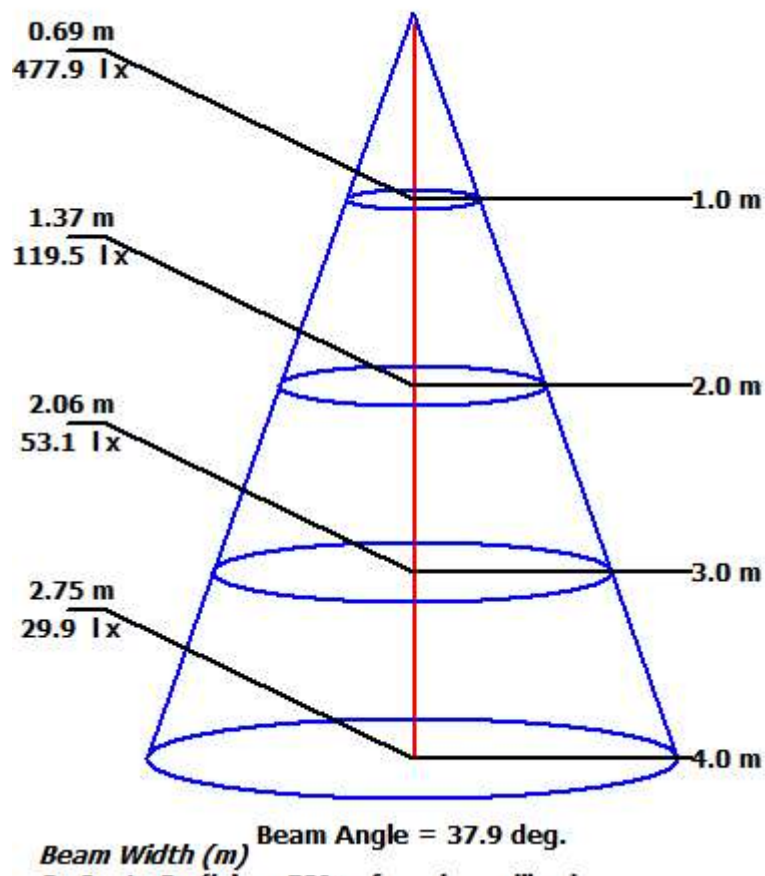
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Illuminance Cone Diagram



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Operator

Total flux (lm) 212 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