

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 : 230608

4. Test Standard / Item : / 230608 MSP6 30K 36도

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
230608			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4354 , 0.4061	
Correlated Color Temperature	K	3044	
Ra		92.73	
Power Factor		1.000	
Input Voltage	V	23.969	
Input Current	A	0.235	
Input Watt	W	5.6371	
Lamp Flux	lm	487.3	
Efficient	lm/W	86.44	
luminous Intensity (Max , Center)	cd	1062 , 1062	
Illuminance	lx	1062	1 m
		265	2 m
		118	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) 23.969

Lamp flux (lm) 487

Current (A) 0.23519

Total flux (lm) 487

Power Factor 1

Report

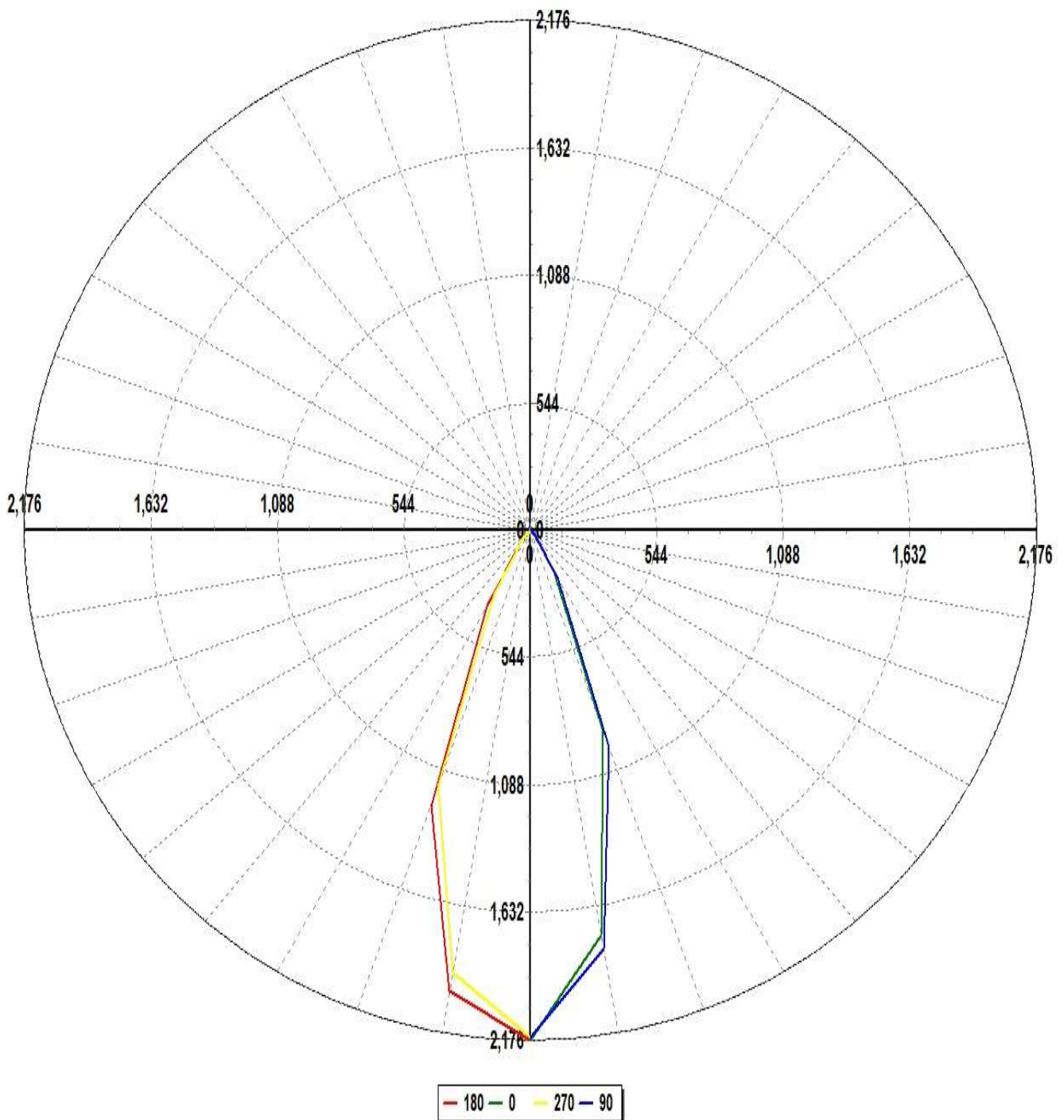
230608

Filename 230608 MSP6 30K 36도.jdt

Operator

Date 2023-06-08 오전 10:31:20

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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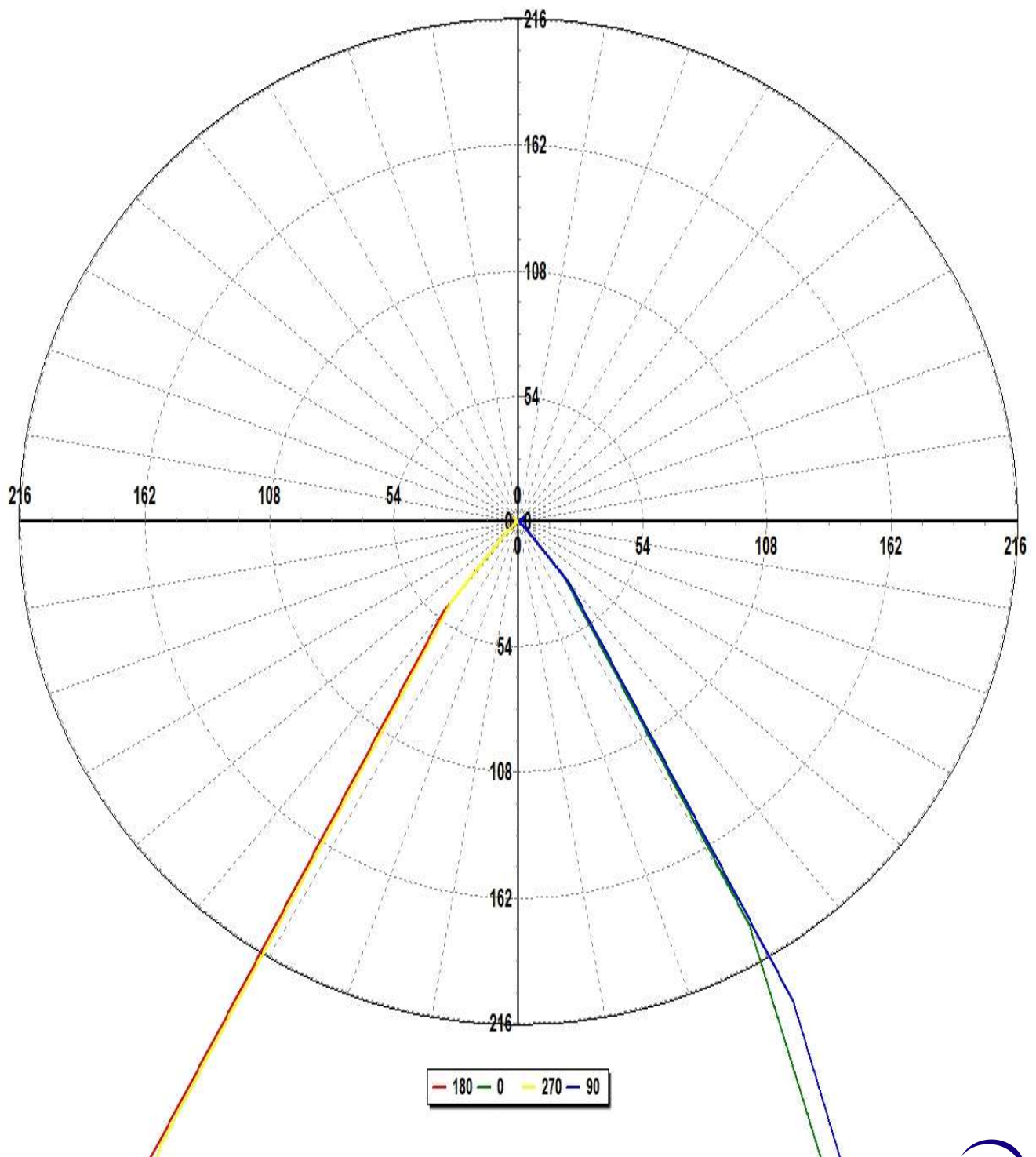
Operator

Total flux (lm) 487

Power Factor 1

Date 2023-06-08 오전 10:31:20

Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

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Power Factor 1

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Luminous Intensity Data

Maximum (cd) : 1062

Minimum (cd) : -1

G/C	0	30	60	90	120	150	180	210	240	270
0	1061.66	1057.5	1057	1054.3	1056.01	1058.41	1061.66	1057.5	1057	1054.3
10	855.22	847.74	863.63	884.46	918.02	925	974.74	967.35	949.26	934.96
20	445.54	437.18	460.11	480.91	524.28	526.02	609.3	605.92	579.85	564.75
30	97.64	95.18	106.62	116.22	135.76	136.93	178.02	177.14	162.43	151.26
40	14.57	13.72	14.86	16.5	19.58	18.8	24.87	26.64	23.85	22.03
50	1.86	1.64	1.83	1.91	2.1	2.62	3	3.26	3.45	3.03
60	0.48	0.43	0.37	0.5	-0.15	0.92	0.38	0.69	0.57	0.68
70	-0.19	-0.3	-0.21	0.15	-0.26	0.34	-0.24	-0.06	0.13	0.99
80	0.1	0.25	0.21	-0.08	-0.08	-0.48	-0.2	0.38	0.58	-0.06
90	0.5	0.8	0.08	0.24	0.31	0.02	-0.02	0.09	0.42	-0.6
100	0.29	0.18	-0.31	-0.5	0.25	-0.24	0.39	0.2	-0.01	0.16
110	0.11	0.26	0.55	0.53	-0.39	-0.14	0.13	0.06	0.23	0.62
120	0.28	0.41	1.38	0.85	0.07	0.62	0.11	0.65	-0.09	0.25
130	1.91	2.16	1.66	1.52	1.37	1.74	0.84	1.32	1.03	1.33

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Power Factor 1

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Luminous Intensity Data (Continued)

Maximum (cd) : 1062

Minimum (cd) : -1

G/C	300	330	360
0	1056.01	1058.41	1061.66
10	911.07	908.71	855.22
20	532.15	529.23	445.54
30	135.9	135.75	97.64
40	19.72	19.08	14.57
50	2.68	2.86	1.86
60	0.31	0.52	0.48
70	-0.36	-0.39	-0.19
80	-0.32	-0.52	0.1
90	-0.27	0.24	0.5
100	0.17	0.1	0.29
110	-0.31	0.51	0.11
120	0.92	0.78	0.28
130	1.08	0.62	1.91

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Luminous Flux Table

Total Lamp Lumens: 487.27

Luminaire Efficiency (lm/W): 86.44

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	25.28	25.28	5.19	5.19
10	173.39	198.67	40.77	40.77
20	196.51	395.18	81.10	81.10
30	74.33	469.52	96.35	96.36
40	13.74	483.26	99.17	99.18
50	2.11	485.37	99.60	99.61
60	0.45	485.82	99.70	99.70
70	-0.03	485.79	99.69	99.70
80	-0.02	485.76	99.68	99.69
90	0.17	485.93	99.72	99.73
100	0.06	485.99	99.73	99.74
110	0.19	486.17	99.77	99.78
120	0.49	486.67	99.87	99.88
130	0.60	487.27	99.99	100.00

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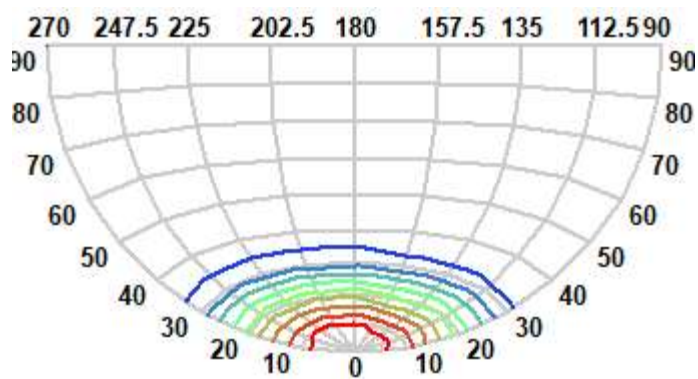
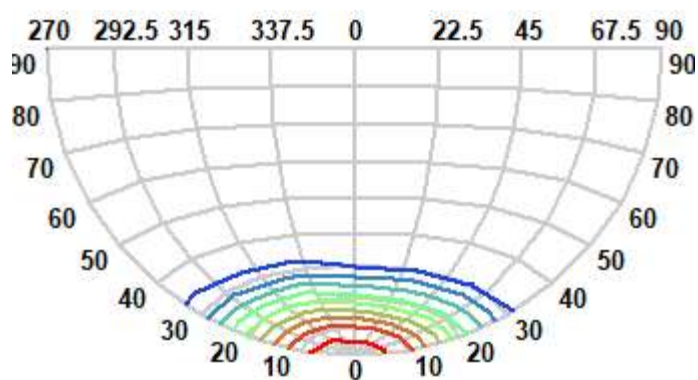
Operator

Total flux (lm) 487

Power Factor 1

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IsoCandela (Type C)



-1 ~ 106	531 ~ 637
106 ~ 212	637 ~ 743
212 ~ 318	743 ~ 849
318 ~ 424	849 ~ 955
424 ~ 531	955 ~ 1062

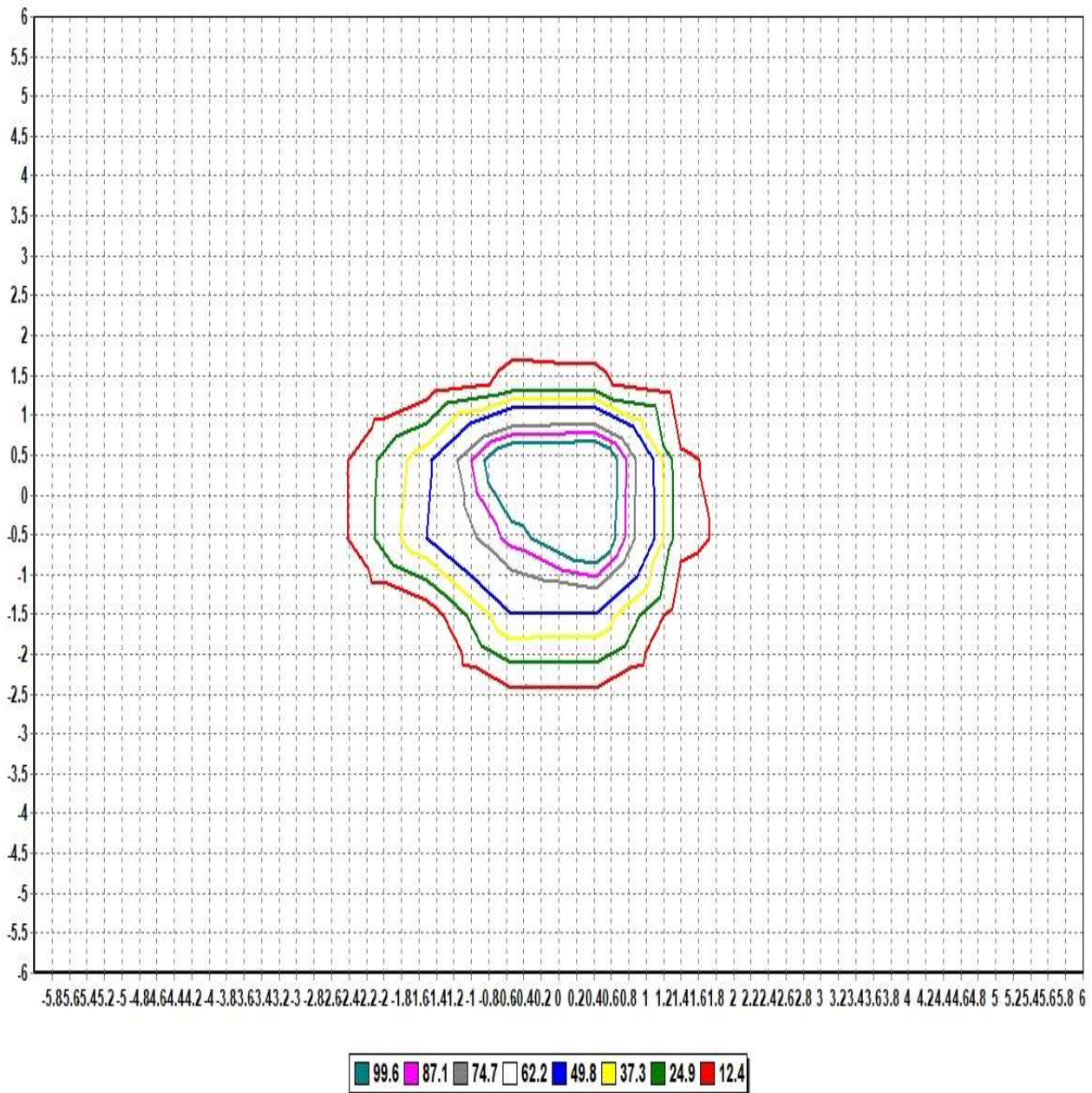
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Lamp flux (lm)	487	Current (A)	0.23519
Total flux (lm)	487	Power Factor	1

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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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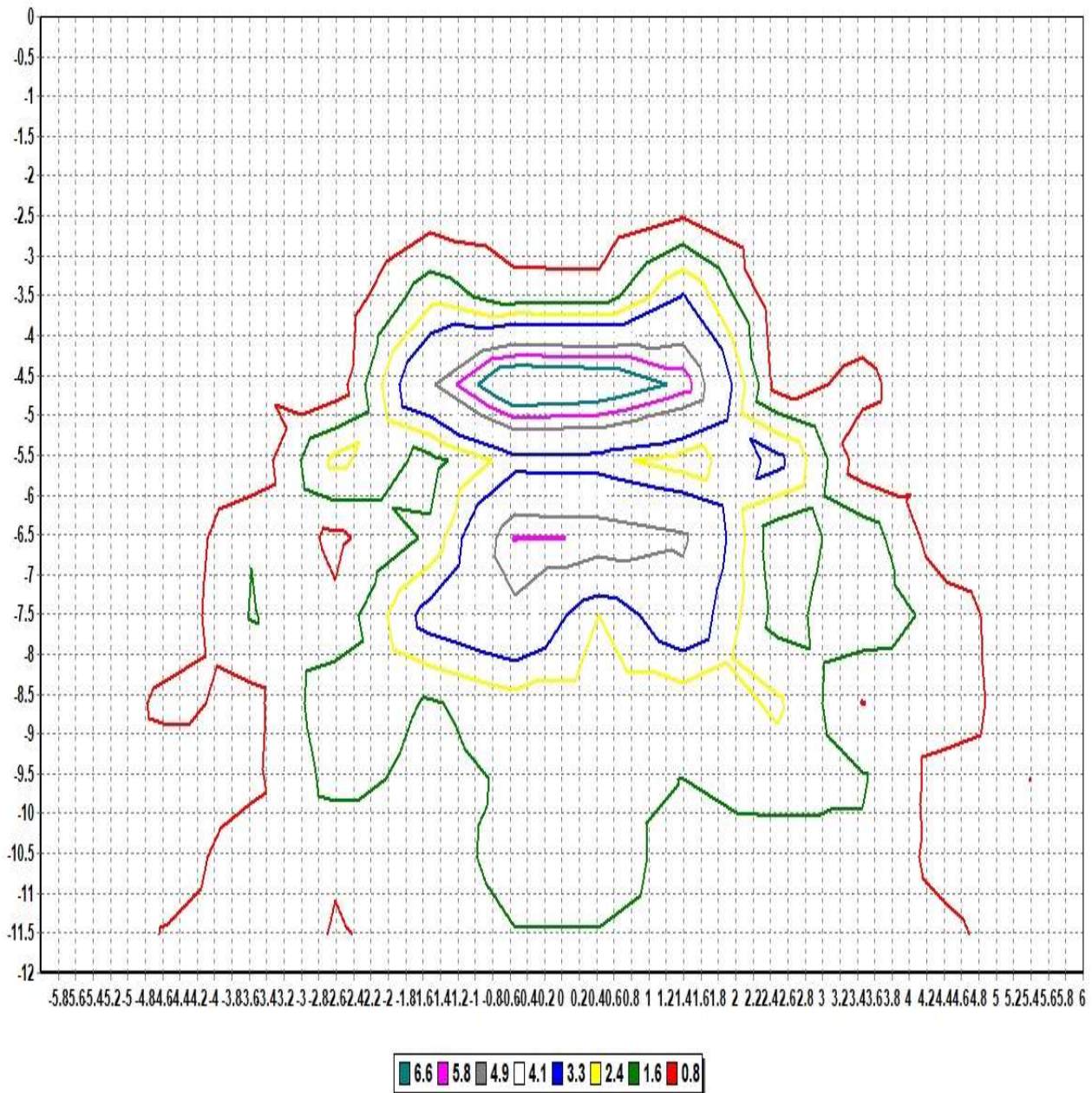
Operator

Total flux (lm) 487

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

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Lamp flux (lm)	487	Current (A)	0.23519
Total flux (lm)	487	Power Factor	1

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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	0.02	0.02	0.02	0.02	0.00	0.00	0.00	0.00
4.00	0.00	0.00	0.01	0.02	0.00	0.02	0.03	0.02	0.01	0.02	0.01	0.00	0.00
3.00	0.00	0.01	0.03	0.01	0.36	0.11	0.20	0.09	0.31	0.02	0.02	0.00	0.00
2.00	0.00	0.02	0.00	0.41	0.36	1.47	3.64	1.06	0.28	0.31	0.01	0.02	0.00
1.00	0.00	0.03	0.03	0.12	1.49	20.47	98.57	16.94	1.05	0.09	0.03	0.03	0.00
0.00	0.00	0.04	0.03	0.30	5.55	108.92	145.63	95.24	3.09	0.18	0.02	0.02	0.00
-1.00	0.00	0.03	0.03	0.16	2.01	26.59	104.41	22.78	1.50	0.13	0.02	0.03	0.00
-2.00	0.00	0.03	0.02	0.53	0.52	1.99	4.76	1.52	0.43	0.41	0.01	0.02	0.00
-3.00	0.00	0.00	0.04	0.02	0.52	0.17	0.28	0.14	0.47	0.02	0.04	0.00	0.00
-4.00	0.00	0.00	0.02	0.04	0.02	0.03	0.04	0.03	0.01	0.04	0.02	0.00	0.00
-5.00	0.00	0.00	0.00	0.00	0.03	0.04	0.04	0.04	0.02	0.01	0.00	0.00	0.00
-6.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	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.) : 145.63

Illum. (Min.) : -0.0020

Illum. (Avg.) : 4.0061

All illuminance level values are in lux.



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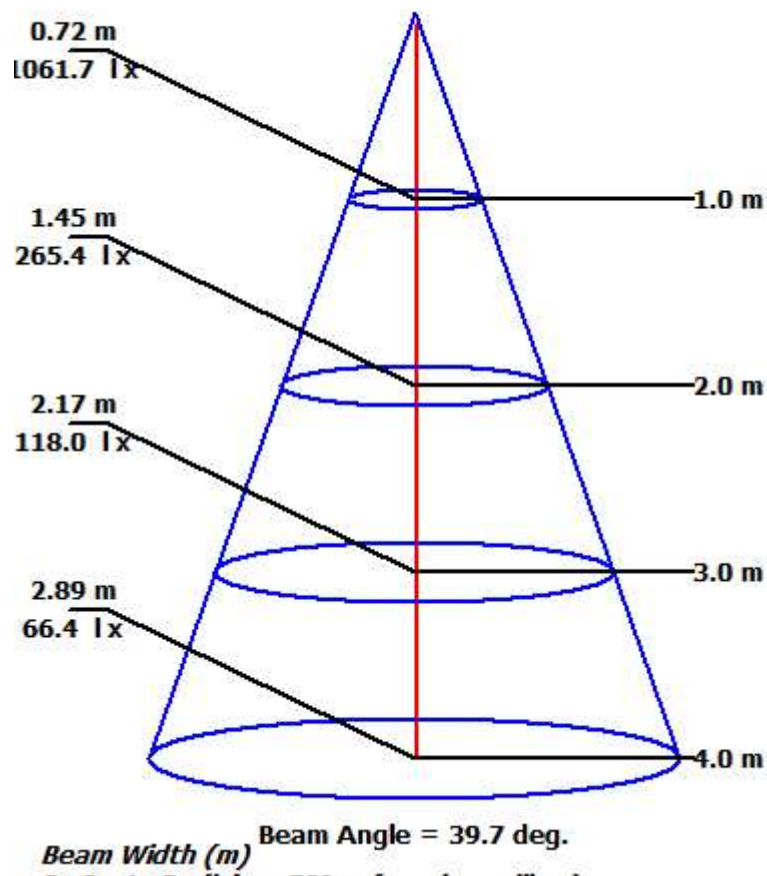
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Illuminance Cone Diagram



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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