

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84
* Date of Receipt : 230714

2. Purpose of Report :

3. Number of Report : 230714

4. Test Standard / Item : / 230714 MICRO SPOT CREE 30K 15도

5. Test Period : 230714 ~ 230714

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
230714			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4276 , 0.3976	
Correlated Color Temperature	K	3113	
Ra		91.97	
Power Factor		1.000	
Input Voltage	V	23.981	
Input Current	A	0.051	
Input Watt	W	1.2113	
Lamp Flux	lm	59.6	
Efficient	lm/W	49.20	
luminous Intensity (Max , Center)	cd	284 , 284	
Illuminance	lx	284	1 m
		71	2 m
		32	3 m

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

230714

No. of lamps 1

Voltage (V)

23.5Filename 230714 MICRO SPOT CREE 30K 15도.jdt

Lamp flux (lm) 60

Current (A)

0.05Operator

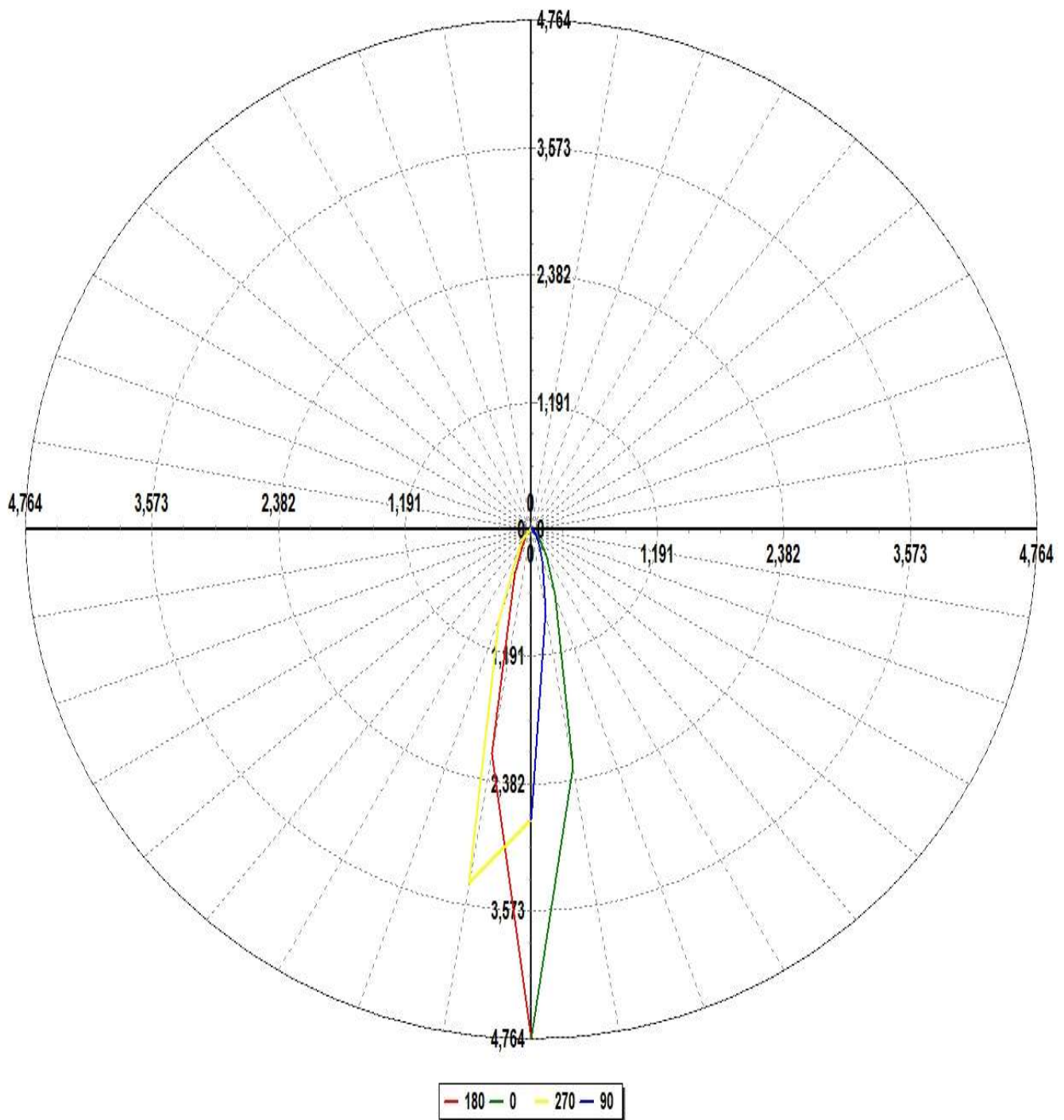
Total flux (lm) 60

Power Factor

Date

2023-07-14 오후 4:24:08

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

230714

No. of lamps 1

Voltage (V)

23.5Filename 230714 MICRO SPOT CREE 30K 15도.jdt

Lamp flux (lm) 60

Current (A)

0.05Operator

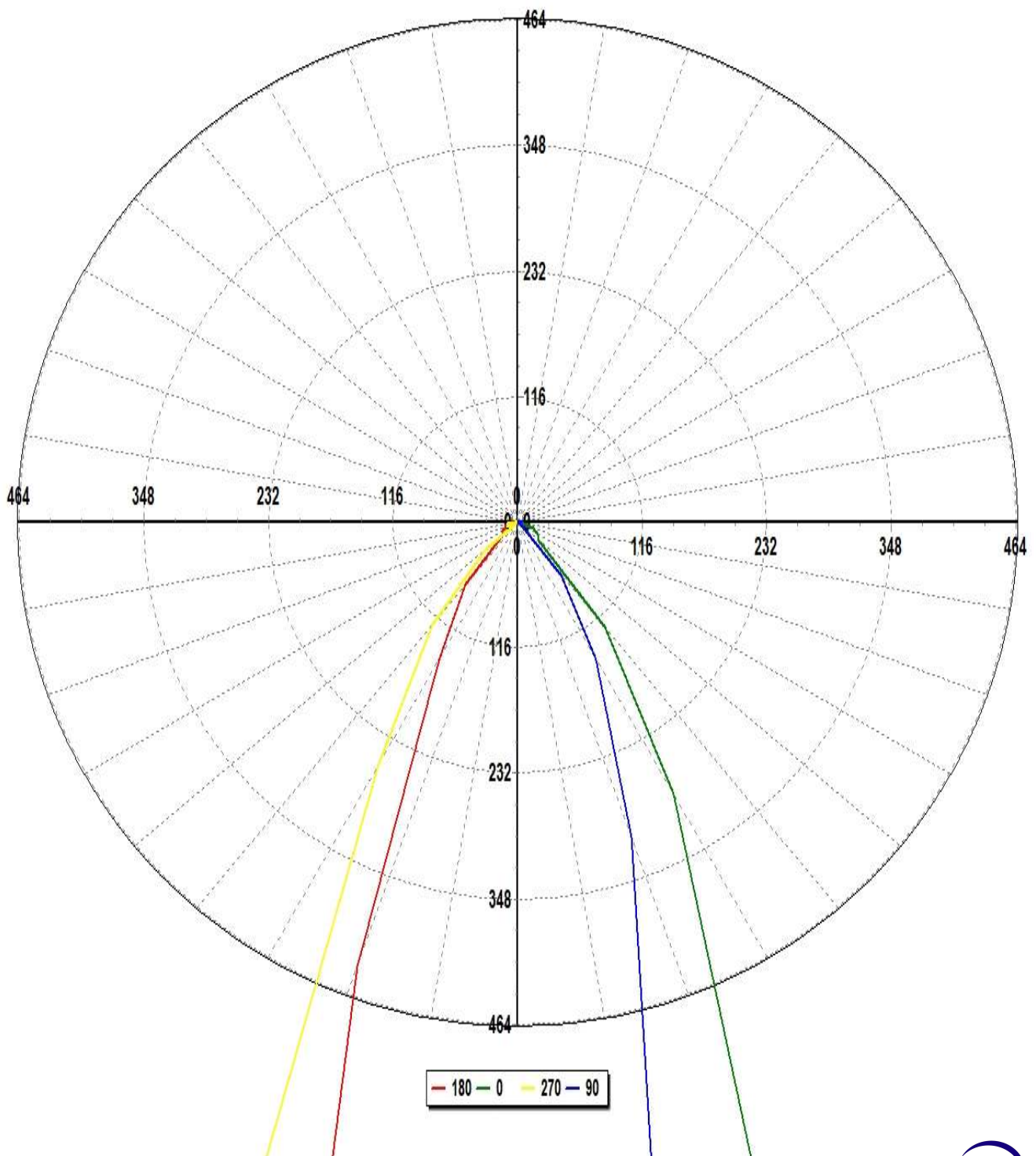
Total flux (lm) 60

Power Factor

Date

2023-07-14 오후 4:24:08

Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

230714

No. of lamps 1

Voltage (V)

23.5Filename 230714 MICRO SPOT CREE 30K 15도.jdt

Lamp flux (lm) 60

Current (A)

0.05Operator

Total flux (lm) 60

Power Factor

Date

2023-07-14 오후 4:24:08

Luminous Intensity Data

Maximum (cd) : 284

Minimum (cd) : -1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	284.13	253.83	209.81	161.81	131.1	111.08	284.13	253.83	209.81	161.81	131.1
10	134.8	107.98	73.75	46.73	32.54	24.91	127.09	138.64	160.43	200.43	239.15
20	38.7	33.95	25.65	18.46	12.89	9.32	26.04	27.69	35.28	53.79	90.23
30	17.29	14.3	11.99	8.71	5.96	4.37	8.73	8.35	9.51	15.41	25.19
40	7.61	6.66	6.41	3.8	1.98	1.61	4.54	4.76	4.02	7.37	9.67
50	1.55	0.74	1.9	0.36	0.47	0.86	1.02	0.79	1.03	2.3	3.41
60	1.3	0.43	0.78	0.15	0.67	-0.04	0.97	0.02	0.64	0.11	0.85
70	0.95	0.43	1.05	0.22	-0.27	0.23	0.71	0.45	0.72	0.64	0.5
80	0.32	0.12	-0.17	-0.06	0.14	-0.16	0.28	-0.23	0.19	0.57	0.21
90	-0.58	-0.35	-0.05	-0.09	0.59	-0.03	-0.07	-0.16	0.25	-0.21	0.03
100	0.19	-0.04	0.2	0.26	-0.35	0.52	-0.06	-0.54	0.23	-0.11	-0.39
110	0.08	-0.16	-0.7	-0.1	-0.24	0.15	0.33	0	-0.02	-0.51	0.93
120	0.25	0.14	0.34	0.02	-0.02	0.22	-0.04	0.47	-0.46	0.18	-0.5
130	-0.53	-0.41	0.01	-0.14	0.93	-0.43	-0.02	-0.26	0.28	-0.2	-0.43

Luminaire KH FEELUX

Lamp

Report

230714

No. of lamps 1

Voltage (V)

23.9Filename 230714 MICRO SPOT CREE 30K 15도.jdt

Lamp flux (lm) 60

Current (A)

0.05Operator

Total flux (lm) 60

Power Factor

Date

2023-07-14 오후 4:24:08

Luminous Intensity Data (Continued)

Maximum (cd) : 284

Minimum (cd) : -1

G/C	330	360
0	111.08	284.13
10	267.92	134.8
20	138.49	38.7
30	36.22	17.29
40	14.34	7.61
50	5.98	1.55
60	2.04	1.3
70	0.16	0.95
80	0.17	0.32
90	0.53	-0.58
100	0.14	0.19
110	-0.33	0.08
120	0.11	0.25
130	-0.01	-0.53

Luminaire KH FEELUX

Lamp

Report

230714

No. of lamps 1 Voltage (V) 23.5Filename 230714 MICRO SPOT CREE 30K 15도.jdt

Lamp flux (lm) 60 Current (A) 0.05Operator

Total flux (lm) 60 Power Factor Date 2023-07-14 오후 4:24:08

Luminous Flux Table

Total Lamp Lumens: 59.633

Luminaire Efficiency (lm/W): 49.23

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	4.59	4.59	7.70	7.70
10	24.63	29.22	49.03	49.01
20	15.94	45.16	75.77	75.73
30	7.58	52.74	88.49	88.44
40	4.27	57.01	95.65	95.59
50	1.43	58.43	98.04	97.99
60	0.63	59.06	99.09	99.04
70	0.50	59.56	99.93	99.87
80	0.12	59.68	100.14	100.08
90	-0.01	59.67	100.11	100.06
100	0.00	59.67	100.12	100.07
110	-0.05	59.62	100.04	99.98
120	0.06	59.68	100.13	100.07
130	-0.04	59.63	100.05	100.00

Luminaire KH FEELUX

Lamp

Report

230714

No. of lamps 1

Voltage (V)

230VFilename 230714 MICRO SPOT CREE 30K 15도.jdt

Lamp flux (lm) 60

Current (A)

0.05Operator

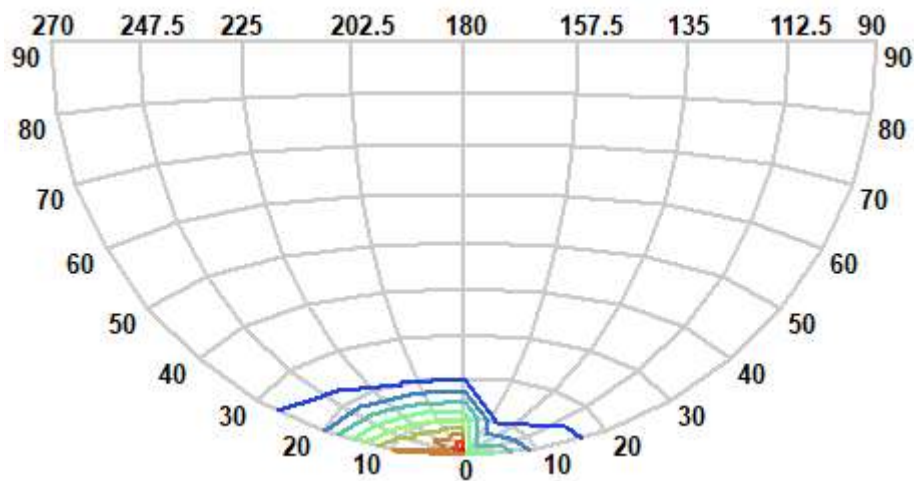
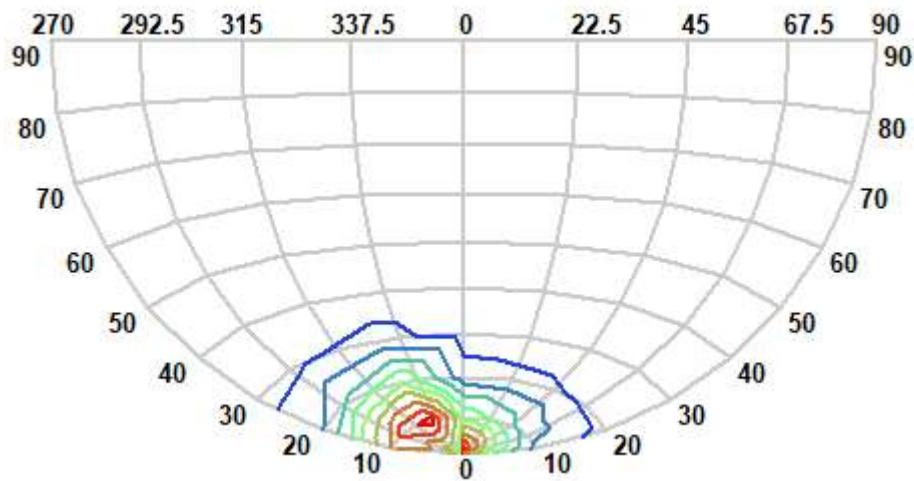
Total flux (lm) 60

Power Factor

Date

2023-07-14 오후 4:24:08

IsoCandela (Type C)



Luminaire KH FEELUX

Lamp

Report

230714

No. of lamps 1

Voltage (V)

23.5Filename 230714 MICRO SPOT CREE 30K 15도.jdt

Lamp flux (lm) 60

Current (A)

0.05Operator

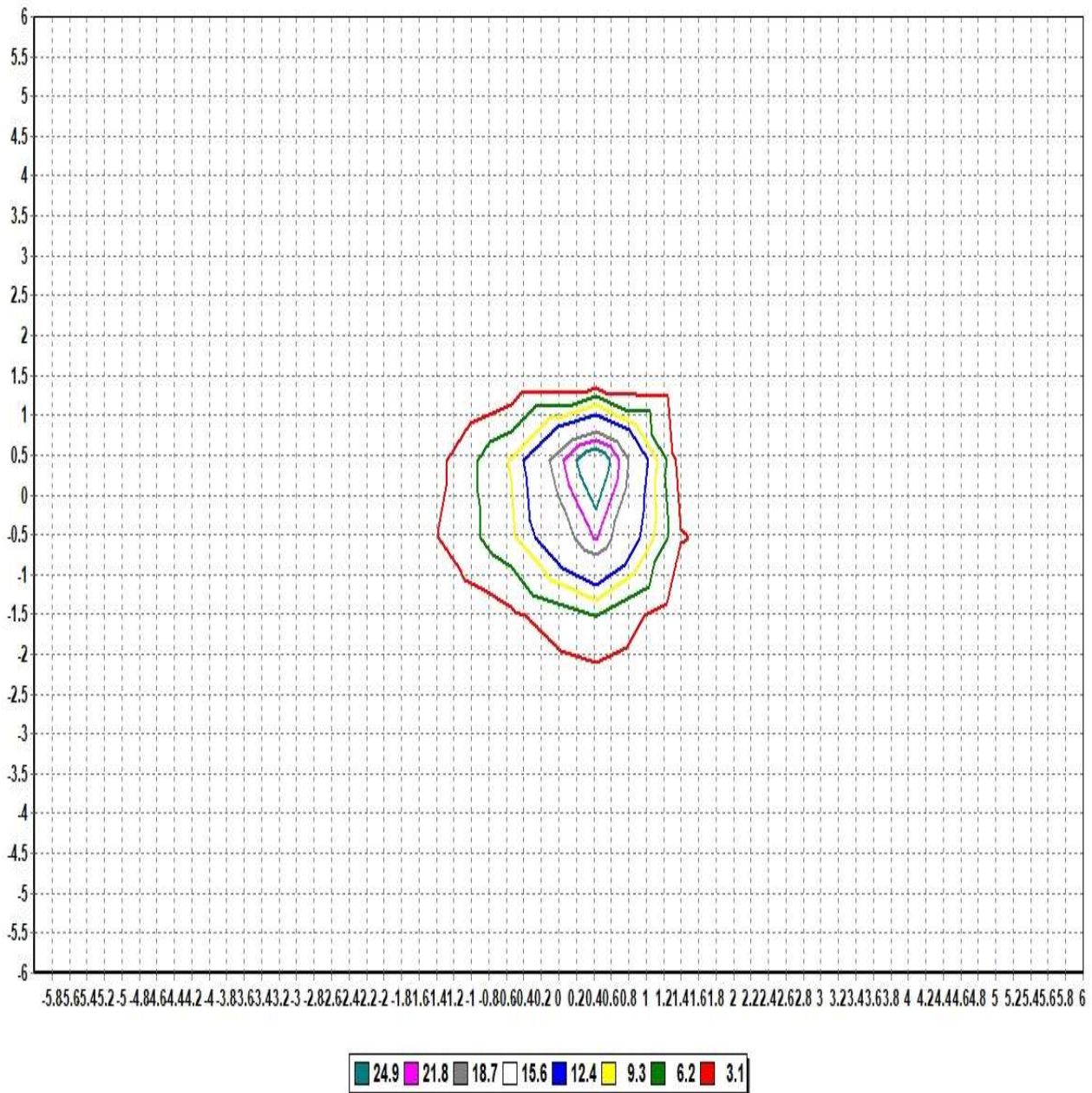
Total flux (lm) 60

Power Factor

Date

2023-07-14 오후 4:24:08

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

230714

No. of lamps 1

Voltage (V)

23.9Filename 230714 MICRO SPOT CREE 30K 15도.jdt

Lamp flux (lm) 60

Current (A)

0.05Operator

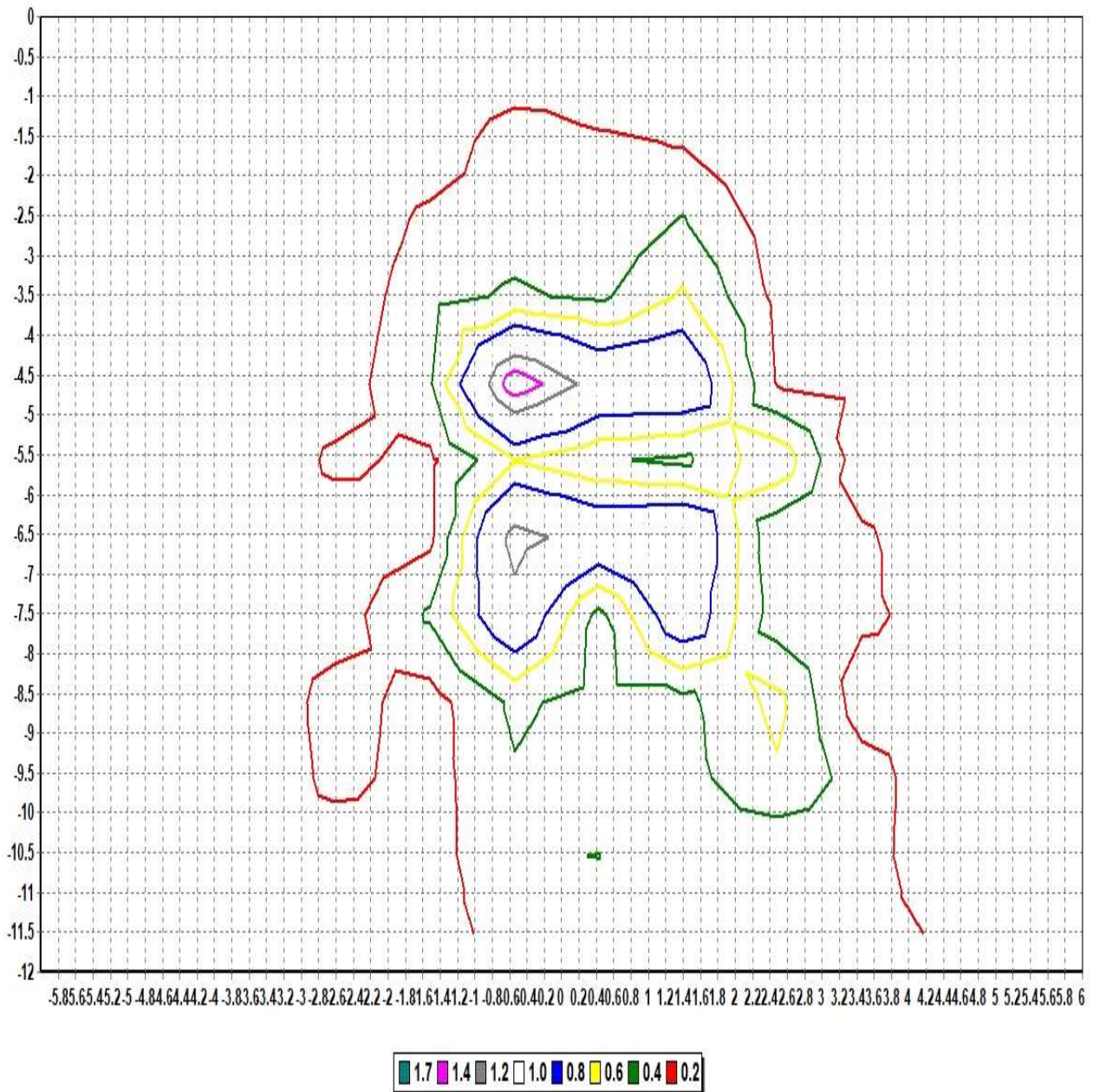
Total flux (lm) 60

Power Factor

Date

2023-07-14 오후 4:24:08

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)	60	Current (A)	0.05051
Total flux (lm)	60	Power Factor	1

Report

230714

Filename 230714 MICRO SPOT CREE 30K 15도.jdt

Operator

Date

2023-07-14 오후 4:24:08

Illuminance Levels (Ground)

6.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00
5.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.01	0.01	0.01	0.01	0.00	0.00
4.00	0.00	0.00	0.00	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01
3.00	0.00	0.00	0.01	0.01	0.08	0.02	0.04	0.05	0.15	0.02	0.02	0.01	0.00
2.00	0.00	0.01	0.01	0.04	0.06	0.15	0.39	0.43	0.15	0.16	0.01	0.01	0.01
1.00	0.01	0.01	0.01	0.03	0.13	0.89	5.18	1.97	0.44	0.05	0.05	0.05	0.01
0.00	0.01	0.01	0.02	0.07	0.43	14.01	38.97	14.90	0.78	0.11	0.03	0.02	0.01
-1.00	0.00	0.01	0.01	0.04	0.31	1.23	22.14	3.10	0.68	0.18	0.05	0.04	0.01
-2.00	0.00	0.01	0.00	0.10	0.10	0.30	0.72	0.62	0.22	0.33	0.02	0.04	0.01
-3.00	0.00	0.01	0.01	0.01	0.09	0.04	0.14	0.12	0.18	0.02	0.07	0.01	0.00
-4.00	0.00	0.01	0.01	0.01	0.00	0.02	0.02	0.02	0.02	0.03	0.02	0.01	0.00
-5.00	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.02	0.03	0.00	0.00	0.00	0.01
-6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	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.) : 38.975

Illum. (Min.) : -0.0004

Illum. (Avg.) : 0.6606

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp

Report

230714

No. of lamps 1

Voltage (V)

230.5Filename 230714 MICRO SPOT CREE 30K 15도.jdt

Lamp flux (lm) 60

Current (A)

0.05Operator

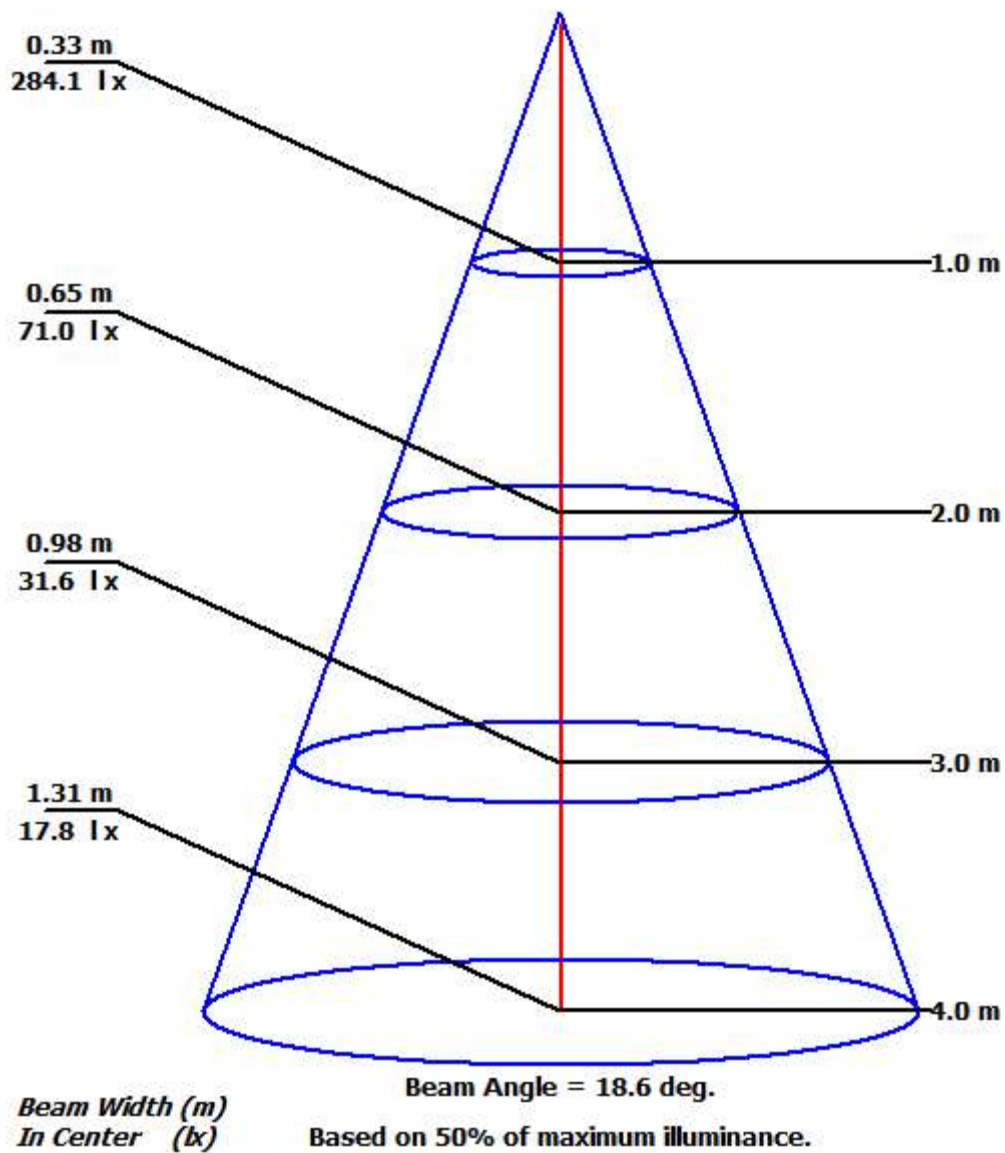
Total flux (lm) 60

Power Factor

Date

2023-07-14 오후 4:24:08

Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

230714

No. of lamps 1

Voltage (V) 23.981

Filename 230714 MICRO SPOT CREE 30K 15도.jdt

Lamp flux (lm) 60

Current (A) 0.05051

Operator

Total flux (lm) 60

Power Factor 1

Date 2023-07-14 오후 4:24:08

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