

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844  
\* Date of Receipt : 230508

**2. Purpose of Report :****3. Number of Report :** 230508**4. Test Standard / Item :** / FN3D-C80-40K**5. Test Period :** 230508 ~ 230508**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 reproduced, 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
230508			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.3857 , 0.3878	
Correlated Color Temperature	K	3939	
Ra		84.57	
Power Factor		1.000	
Input Voltage	V	23.930	
Input Current	A	0.583	
Input Watt	W	13.96	
Lamp Flux	lm	1009.3	
Efficient	lm/W	72.30	
luminous Intensity (Max , Center)	cd	353 , 353	
Illuminance	lx	353	1 m
		88	2 m
		39	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) 23.93

Lamp flux (lm) 1009

Current (A) 0.58338

Total flux (lm) 1009

Power Factor 1

Report

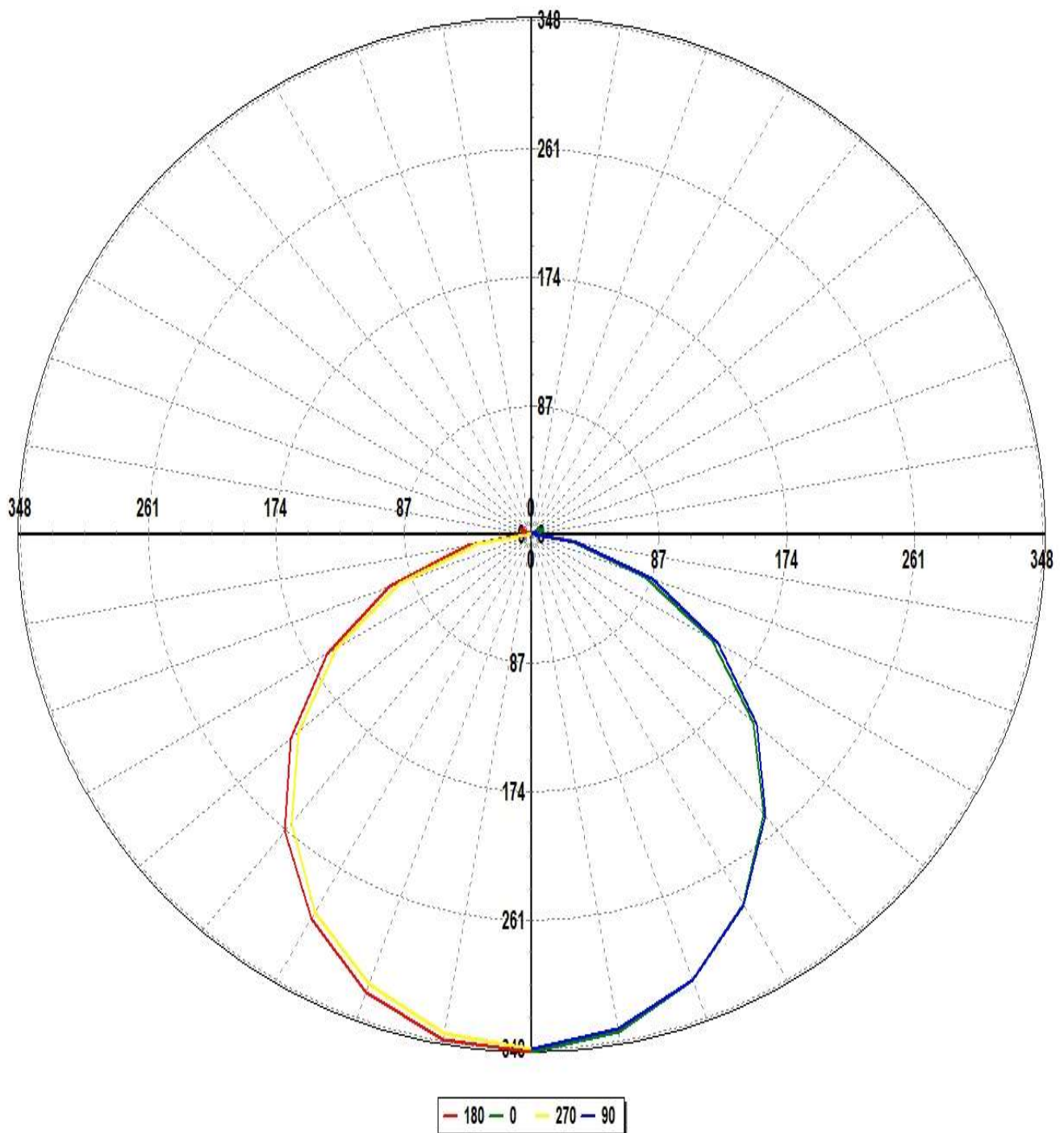
230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.93

Lamp flux (lm) 1009

Current (A) 0.58338

Total flux (lm) 1009

Power Factor 1

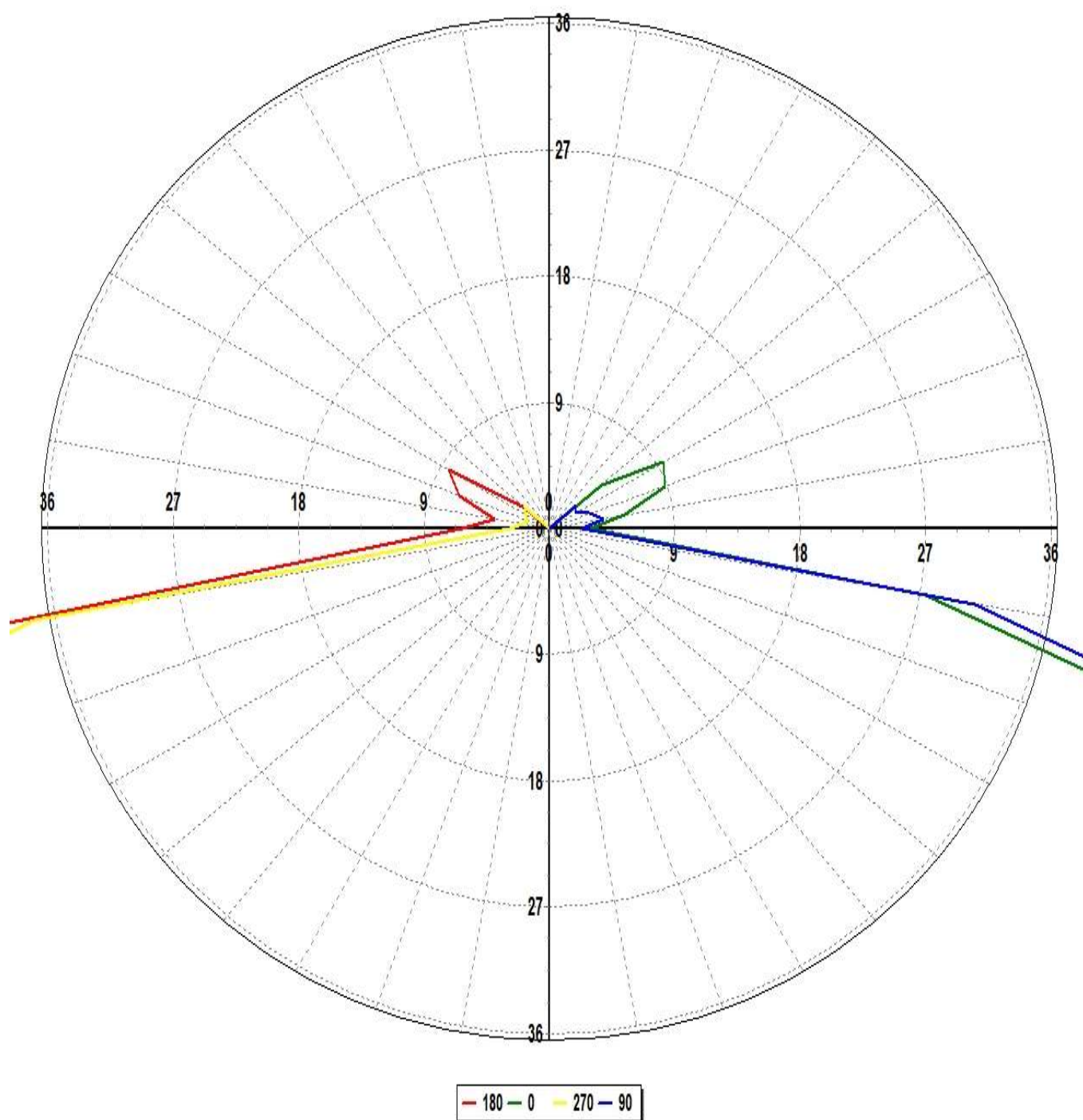
Report 230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

No. of lamps 1

Lamp flux (lm) 1009

Total flux (lm) 1009

Voltage (V) 23.93

Current (A) 0.58338

Power Factor 1

Report 230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## Luminous Intensity Data

Maximum (cd) : 353

Minimum (cd) : 2

G/C	0	30	60	90	120	150	180	210	240	270	300
0	353.1	352.78	351.19	351.09	349.91	350.58	353.1	352.78	351.19	351.09	349.91
10	344.9	342.92	342.94	342.64	343.44	343.9	349.5	348.66	346.54	345.32	344.36
20	323.59	322.11	323.05	323.15	324.01	324.43	332.58	331.83	328.66	326.31	324.71
30	291.14	289.13	290.14	291.95	294.45	294.18	302.81	302.4	299.46	297.2	294.02
40	248.49	247.02	248.9	250.24	253.54	254.68	264.31	264.1	259.7	256.76	253.58
50	199.17	197.11	200.18	202.12	206.02	206.9	216.39	216.72	211.99	208.95	205.19
60	143.05	141.73	145.43	147.67	151.82	152.09	162.29	163.64	158.05	154.66	150.25
70	83.01	83.09	86.31	88.31	93.22	94.28	103.97	104.42	99.95	96.32	91.67
80	27.64	26.79	29.72	31.29	35.81	36.8	44.77	46.11	41.59	37.84	34.67
90	3.01	3.45	2.91	2.39	4.16	3.82	6.32	6.6	3.75	2.83	2.67
100	5.56	5.61	5.66	3.99	5.47	4.54	4.02	3.89	3.26	1.98	4.38
110	8.94	8.96	5.13	3.14	2.81	6.83	6.91	6.6	3.37	1.65	5.52
120	9.53	8.73	4.64	2.23	4.45	6.59	8.47	5.45	2.55	1.98	3.9
130	4.93	3.19	6.08	2.52	6.08	3.3	2.49	2.79	4.51	2.39	5.68

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.93
Lamp flux (lm)	1009	Current (A)	0.58338
Total flux (lm)	1009	Power Factor	1

Report 230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## Luminous Intensity Data (Continued)

Maximum (cd) : 353

Minimum (cd) : 2

G/C	330	360
0	350.58	353.1
10	343.3	344.9
20	323.56	323.59
30	293.22	291.14
40	252.39	248.49
50	204.3	199.17
60	149.97	143.05
70	90.57	83.01
80	33.9	27.64
90	3.5	3.01
100	5.07	5.56
110	7.57	8.94
120	7.63	9.53
130	3.74	4.93

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.93
Lamp flux (lm)	1009	Current (A)	0.58338
Total flux (lm)	1009	Power Factor	1

Report 230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## Luminous Flux Table

Total Lamp Lumens: 1009.3

Luminaire Efficiency (lm/W): 72.30

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	8.40	8.40	0.83	0.83
10	65.59	73.99	7.33	7.33
20	121.99	195.98	19.42	19.42
30	161.55	357.53	35.42	35.42
40	179.15	536.69	53.17	53.17
50	173.05	709.73	70.32	70.32
60	143.91	853.64	84.58	84.57
70	95.64	949.28	94.05	94.05
80	38.37	987.65	97.86	97.85
90	4.14	991.79	98.27	98.26
100	4.80	996.60	98.74	98.74
110	5.78	1002.38	99.31	99.31
120	5.23	1007.61	99.83	99.83
130	1.73	1009.34	100.00	100.00



Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.93

Lamp flux (lm) 1009

Current (A) 0.58338

Total flux (lm) 1009

Power Factor 1

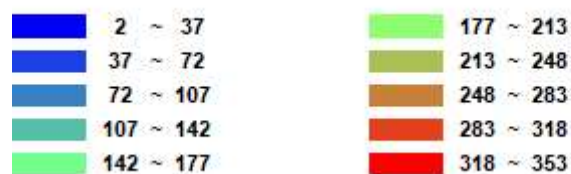
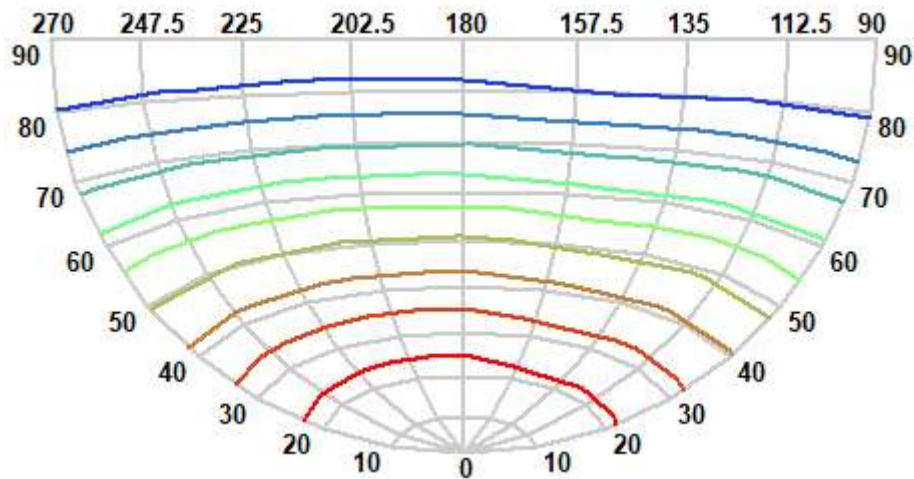
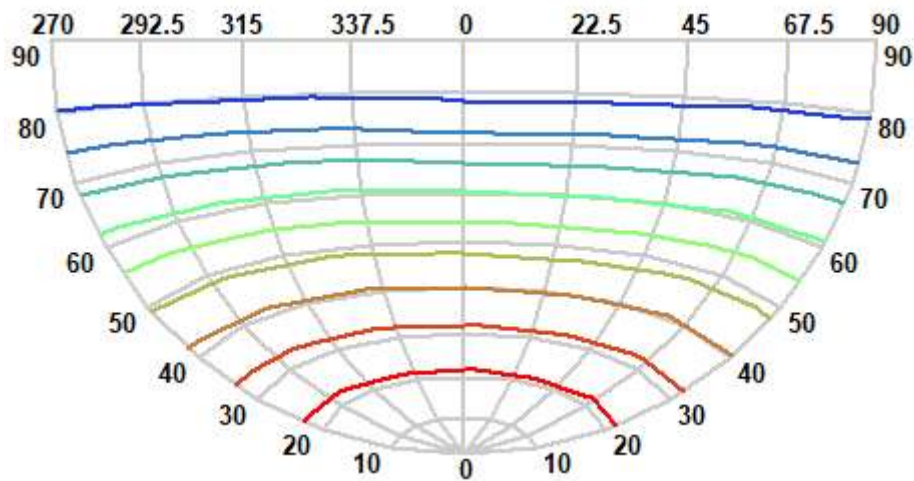
Report 230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## IsoCandela (Type C)





Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.93

Lamp flux (lm) 1009

Current (A) 0.58338

Total flux (lm) 1009

Power Factor 1

Report

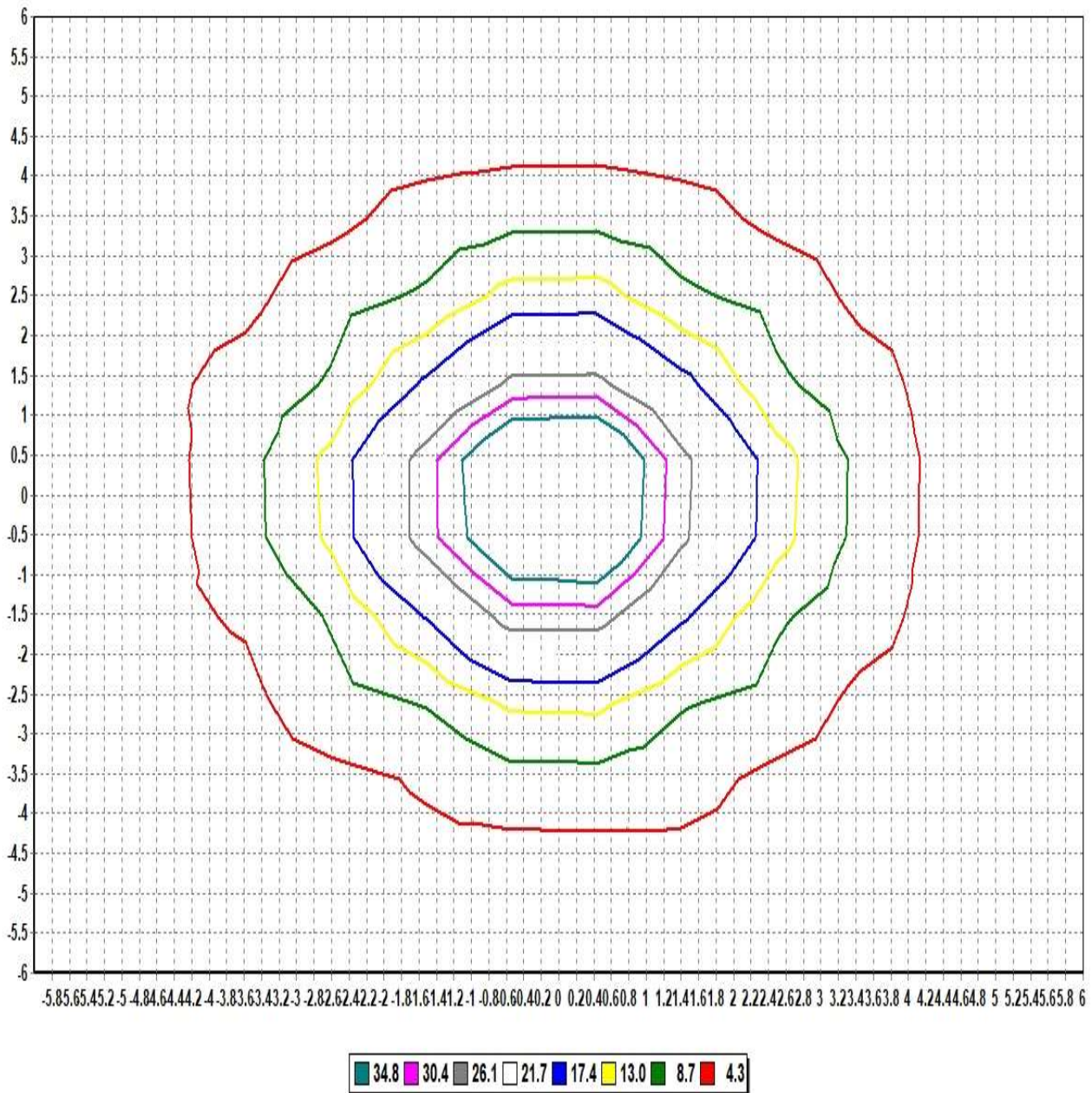
230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.93

Lamp flux (lm) 1009

Current (A) 0.58338

Total flux (lm) 1009

Power Factor 1

Report

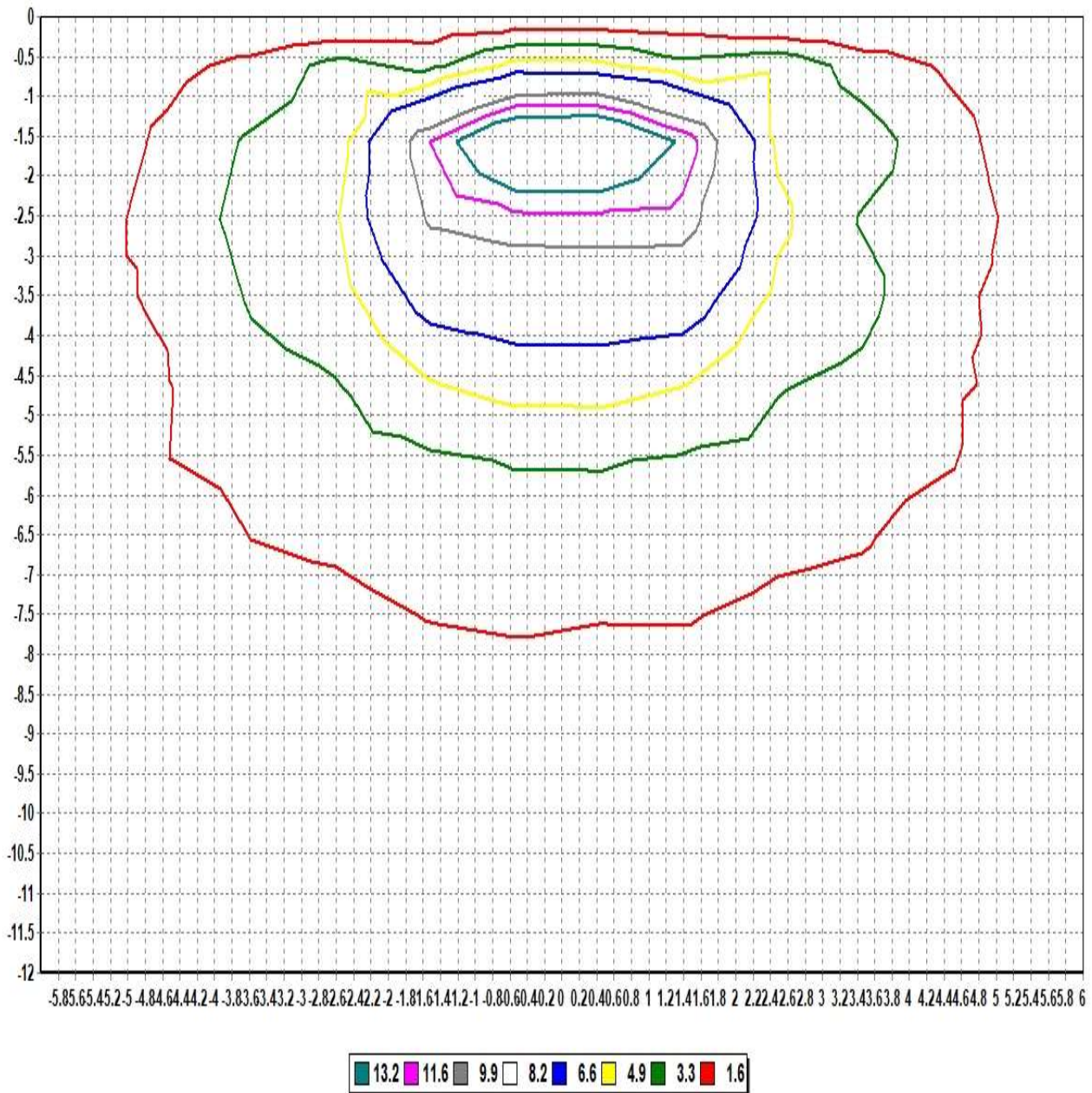
230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## 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)	23.93
Lamp flux (lm)	1009	Current (A)	0.58338
Total flux (lm)	1009	Power Factor	1

Report 230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## Illuminance Levels (Ground)

6.00	0.52	0.69	0.54	0.74	0.91	1.01	1.08	1.02	0.85	0.68	0.53	0.66	0.49
5.00	0.70	0.60	0.86	1.19	2.31	2.66	2.84	2.67	2.21	1.17	0.82	0.55	0.66
4.00	0.57	0.89	1.97	2.86	2.98	3.70	4.07	3.70	2.81	2.80	1.90	0.81	0.51
3.00	0.75	1.24	2.91	3.46	6.95	7.77	8.69	7.54	6.89	3.32	2.79	1.14	0.67
2.00	0.93	2.32	2.99	7.07	10.01	15.96	18.84	15.59	9.77	6.87	2.80	2.21	0.84
1.00	1.13	2.83	3.95	7.84	15.99	28.64	38.69	28.40	15.59	7.52	3.71	2.68	1.02
0.00	1.22	3.05	4.42	9.28	19.76	39.47	48.44	38.94	18.74	8.58	3.98	2.80	1.03
-1.00	1.10	2.80	3.93	8.22	16.64	29.52	38.99	28.86	15.98	7.78	3.70	2.66	1.00
-2.00	1.02	2.45	3.21	7.36	10.57	16.61	19.27	16.01	10.15	7.01	2.96	2.30	0.91
-3.00	0.83	1.35	3.06	3.74	7.24	8.16	8.97	7.85	7.12	3.52	2.88	1.21	0.73
-4.00	0.63	0.97	2.11	3.01	3.20	3.92	4.24	3.92	2.97	2.93	2.00	0.87	0.55
-5.00	0.75	0.68	0.95	1.31	2.44	2.79	2.94	2.80	2.32	1.27	0.90	0.62	0.69
-6.00	0.57	0.74	0.61	0.82	1.00	1.10	1.15	1.11	0.93	0.74	0.58	0.71	0.53
-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.) : 48.436

Illum. (Min.) : 0.4912

Illum. (Avg.) : 5.6015

All illuminance level values are in lux.





Luminaire KH FEELUX

Lamp

No. of lamps 1

Voltage (V) 23.93

Lamp flux (lm) 1009

Current (A) 0.58338

Total flux (lm) 1009

Power Factor 1

Report

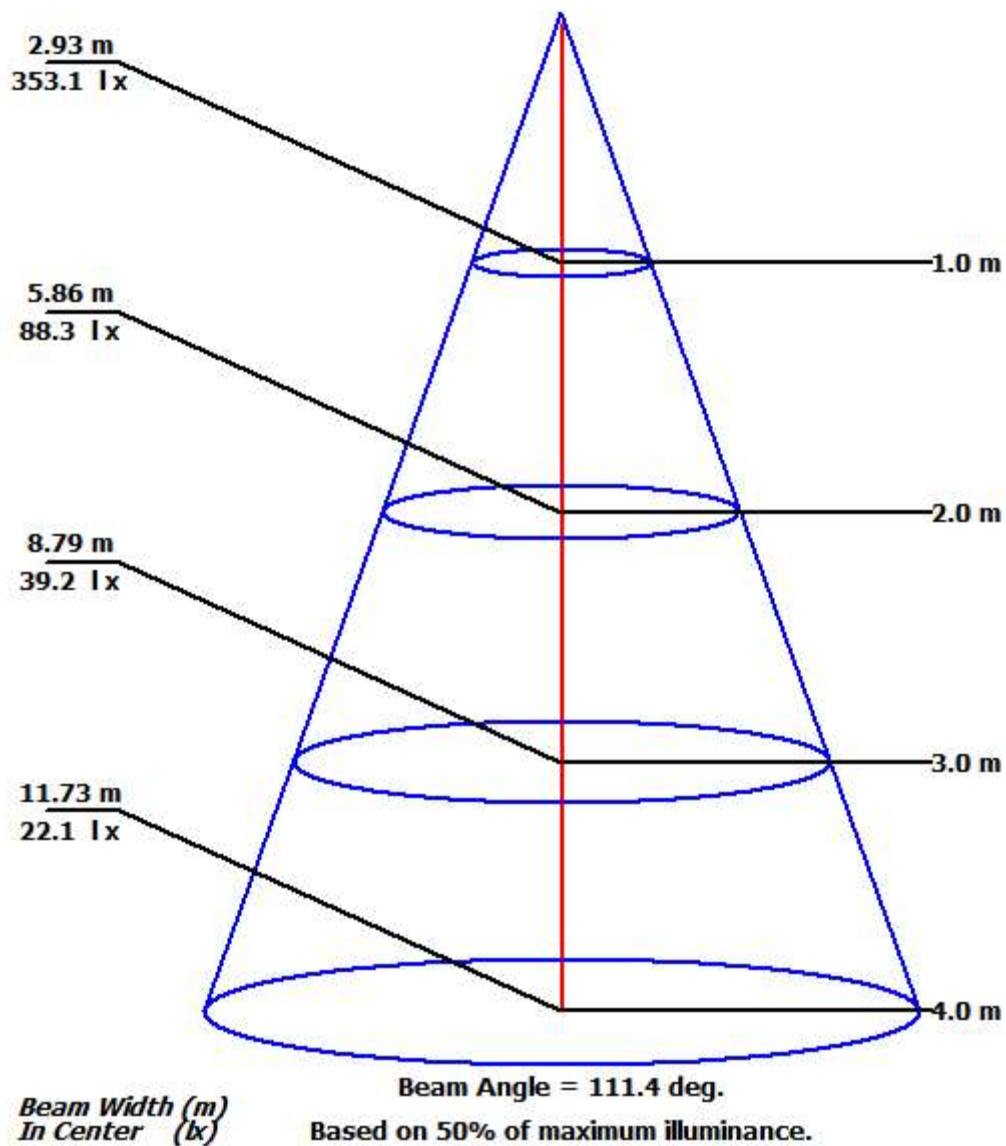
230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.93
Lamp flux (lm)	1009	Current (A)	0.58338
Total flux (lm)	1009	Power Factor	1

Report 230508

Filename FN3D-C80-40K.jdt

Operator

Date 2023-05-08 오후 3:04:46

## 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