

TEST REPORT

1. Applicant

* Client Name : KH-FEELUX Co. Ltd.
* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-si Gyeonggi-do 482-844 Korea
* Date of Receipt : 220310

2. Purpose of Report :**3. Number of Report :** 220310**4. Test Standard / Item :** / NDF5 30K-120V FLICKERFREE 28NS9**5. Test Period :** 220310 ~ 220310**6. Test Environment**

* Ambient Temp. : 21.0 +- 3 °C
* Relative Humidity : 23.0 +- 10 % RH

7. Test Item

* Name of Product :
* Rating :
* Model :

8. Test Result : Refer to the attachment

Confirmation	Test by		Technical manager	
	YKI	Sign	YKI	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
220310			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	23.1	
CIE 1931 Cx, Cy		0.4340 , 0.3969	
Correlated Color Temperature	K	2993	
Ra		92.62	
Power Factor		0.974	
Input Voltage	V	120.31	
Input Current	A	0.043	
Input Watt	W	4.9795	
Lamp Flux	lm	391	
Efficient	lm/W	78.52	
luminous Intensity (Max , Center)	cd	126 , 126	
Illuminance	lx	126	1 m
		31	2 m
		14	3 m

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

220310

No. of lamps 1

Voltage (V)

12Filename NDF5 30K-120V FLICKERFREE 28NS9.jdt

Lamp flux (lm) 391

Current (A)

0.0Operator

YKI

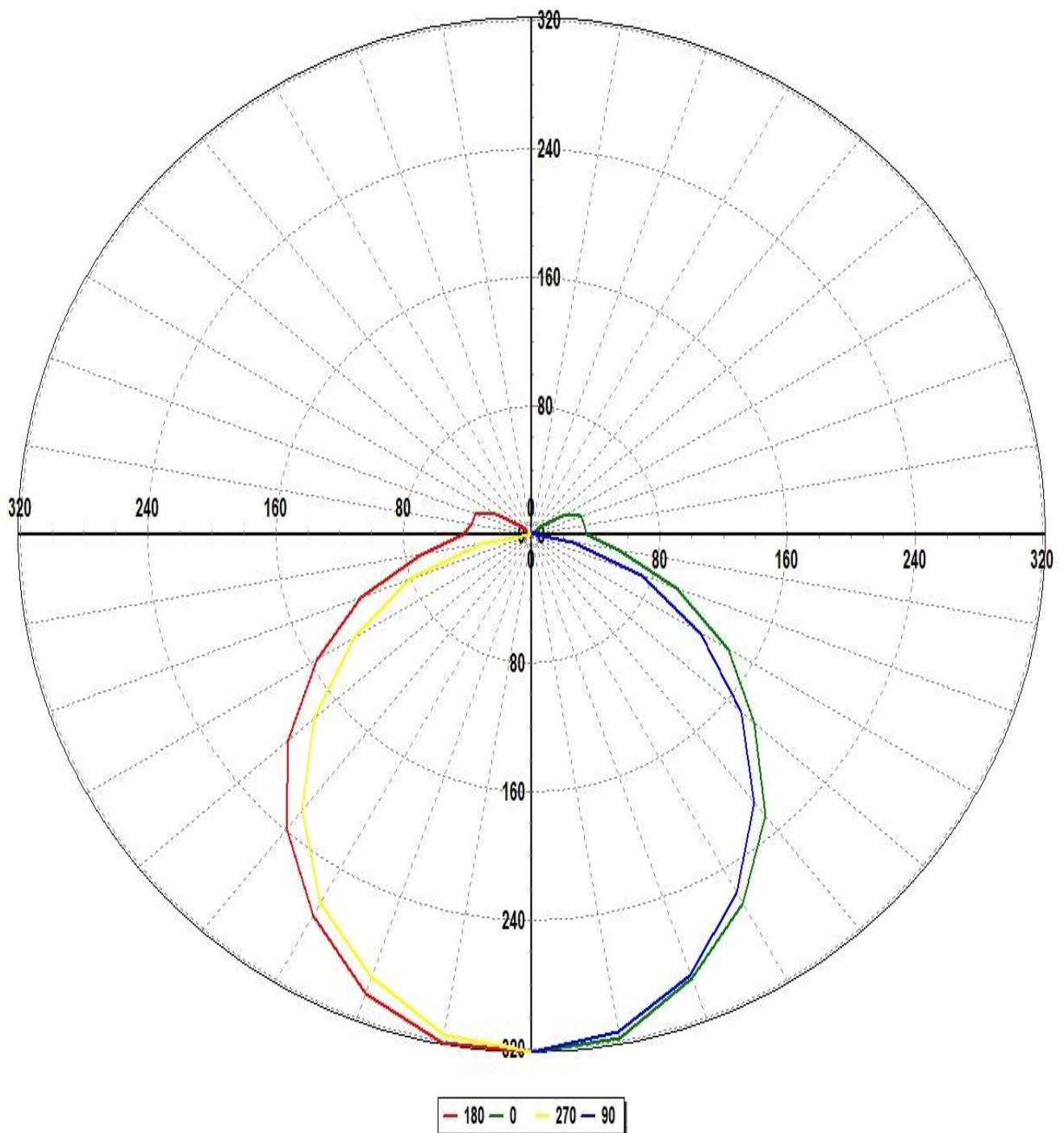
Total flux (lm) 391

Power Factor

0.9Date

2022-03-10 오후 4:02:25

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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220310

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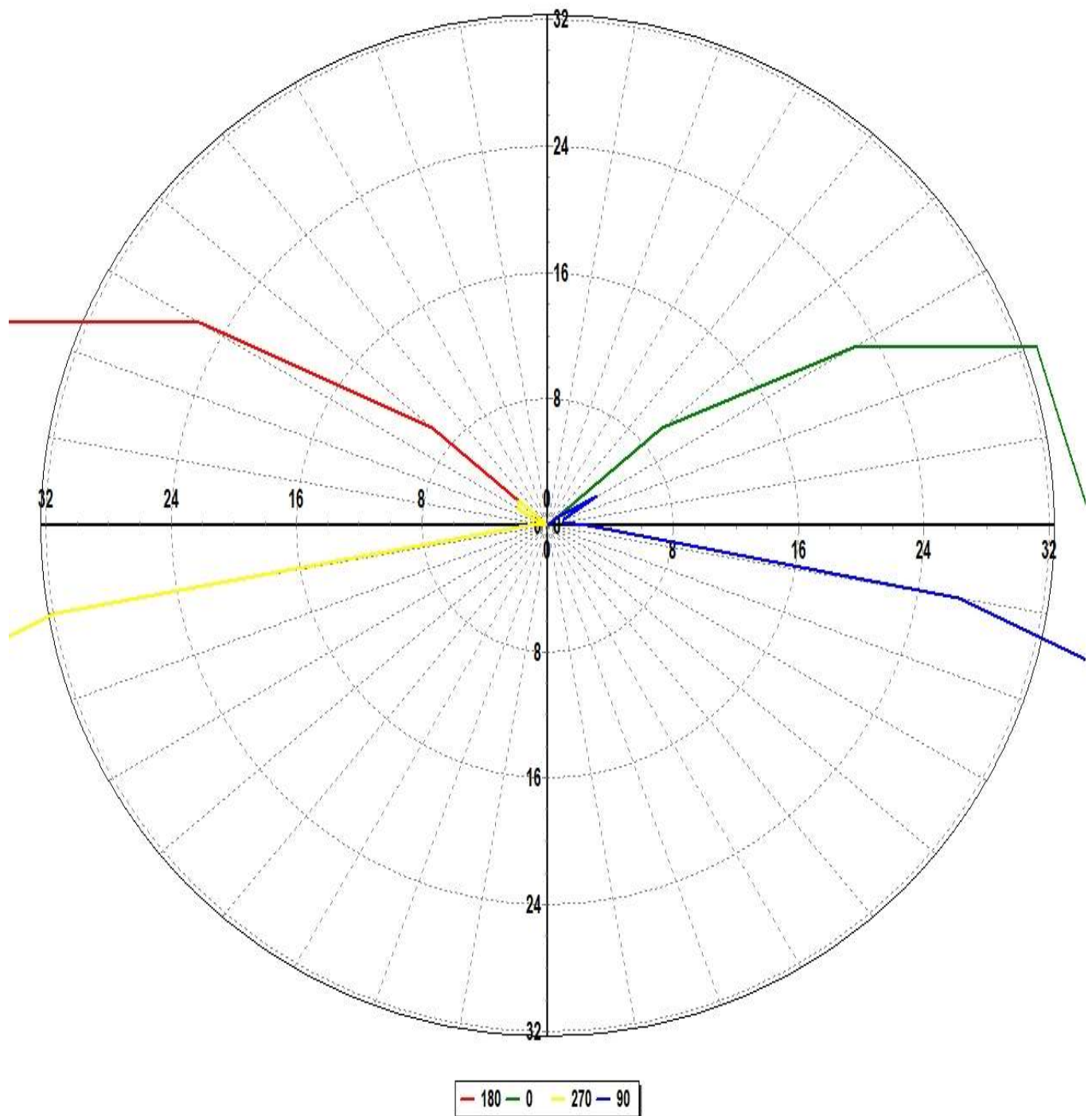
Total flux (lm) 391

Power Factor

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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 391

Current (A)

0.04Operator

YKI

Total flux (lm) 391

Power Factor

0.9Date

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Luminous Intensity Data

Maximum (cd) : 126

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	125.55	126.4	126.49	125.71	125.36	124.08	125.55	126.4	126.49	125.71	125.36
10	124.05	122.76	122.96	122.43	122.77	122.71	125.48	124.09	123.94	123.23	122.81
20	114.88	114.76	114.3	113.73	115.2	114.88	118.61	117.82	116.75	114.4	114.84
30	103.32	102.93	101.57	100.44	102.76	103.71	106.89	106.61	104.06	103.34	103.23
40	89.12	86.7	86.41	84.89	86.33	89.19	93.19	92.72	89.56	87.27	87
50	71	70.93	69.06	66.91	69.9	73.57	77.67	76.16	72.37	69.42	70.52
60	55.48	53.3	50.25	47.67	52.01	56.64	60.61	58.29	54.67	49.84	52.35
70	37.61	35.48	31.96	28.69	33.93	39.8	44.53	41.99	36.05	31.54	33.96
80	21.76	19.5	14.22	10.4	16.51	22.67	27.6	24.96	18.99	12.49	17.19
90	13.59	11.13	6.33	1	7.71	13.17	16.68	13.48	6.92	0.49	6.03
100	13.08	10.87	6.33	0.39	6.59	13.2	14.76	12.74	6.3	-0.01	5.59
110	12.96	10.65	5.42	0.42	5.04	11.7	14.7	11.89	6.87	0.3	5.44
120	8.8	9.37	0.55	1.43	0.38	10.39	10.02	10.85	0.85	0.85	1.03
130	3.73	1.98	2.61	0.39	2.81	2.48	3.76	4.52	3.61	0.95	2.77

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0.04Operator

YKI

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2022-03-10 오후 4:02:25

Luminous Intensity Data (Continued)

Maximum (cd) : 126

Minimum (cd) : 0

G/C	330	360
0	124.08	125.55
10	123.1	124.05
20	114.87	114.88
30	103.54	103.32
40	88.92	89.12
50	71.99	71
60	55.65	55.48
70	38.18	37.61
80	21.6	21.76
90	11.38	13.59
100	10.79	13.08
110	10.51	12.96
120	9.85	8.8
130	3.65	3.73

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Luminous Flux Table

Total Lamp Lumens: 390.97

Luminaire Efficiency (lm/W): 78.52

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	3.00	3.00	0.77	0.77
10	23.46	26.46	6.77	6.77
20	43.24	69.70	17.83	17.83
30	56.70	126.40	32.33	32.33
40	62.26	188.66	48.25	48.25
50	60.09	248.75	63.62	63.62
60	51.12	299.87	76.69	76.70
70	37.20	337.07	86.21	86.21
80	20.48	357.56	91.45	91.45
90	9.85	367.40	93.97	93.97
100	9.05	376.45	96.28	96.29
110	8.23	384.68	98.38	98.39
120	5.09	389.76	99.68	99.69
130	1.21	390.97	99.99	100.00

Luminaire KH FEELUX

Lamp

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Current (A)

0.0Operator

YKI

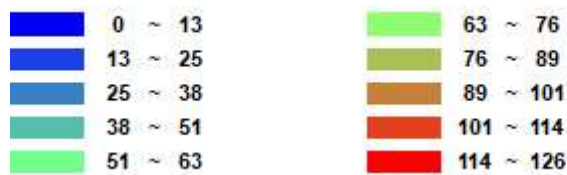
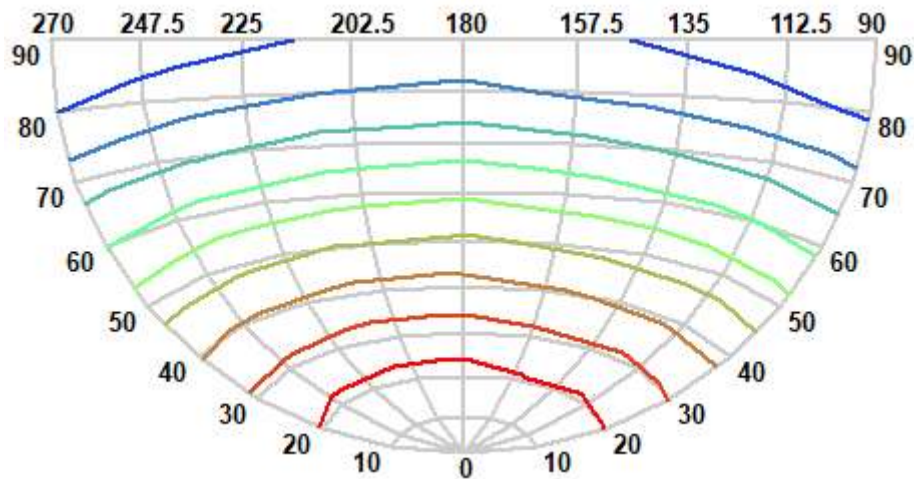
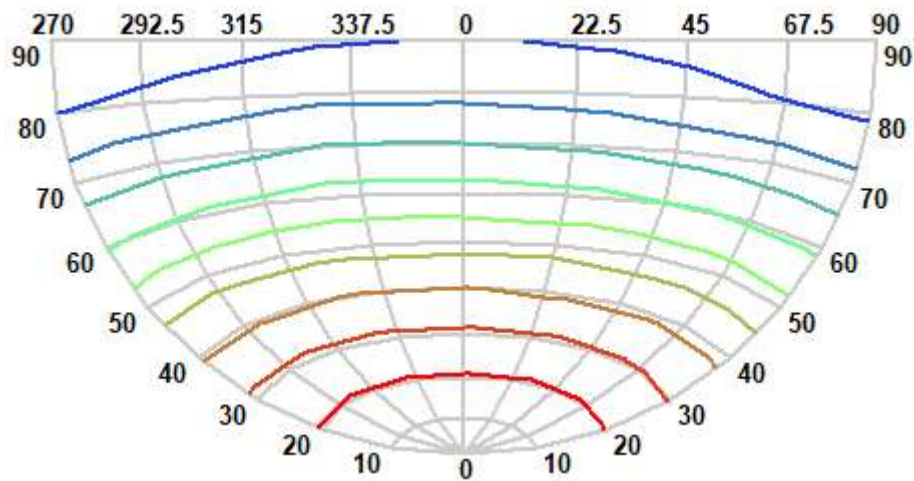
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IsoCandela (Type C)



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Current (A)

0.0Operator

YKI

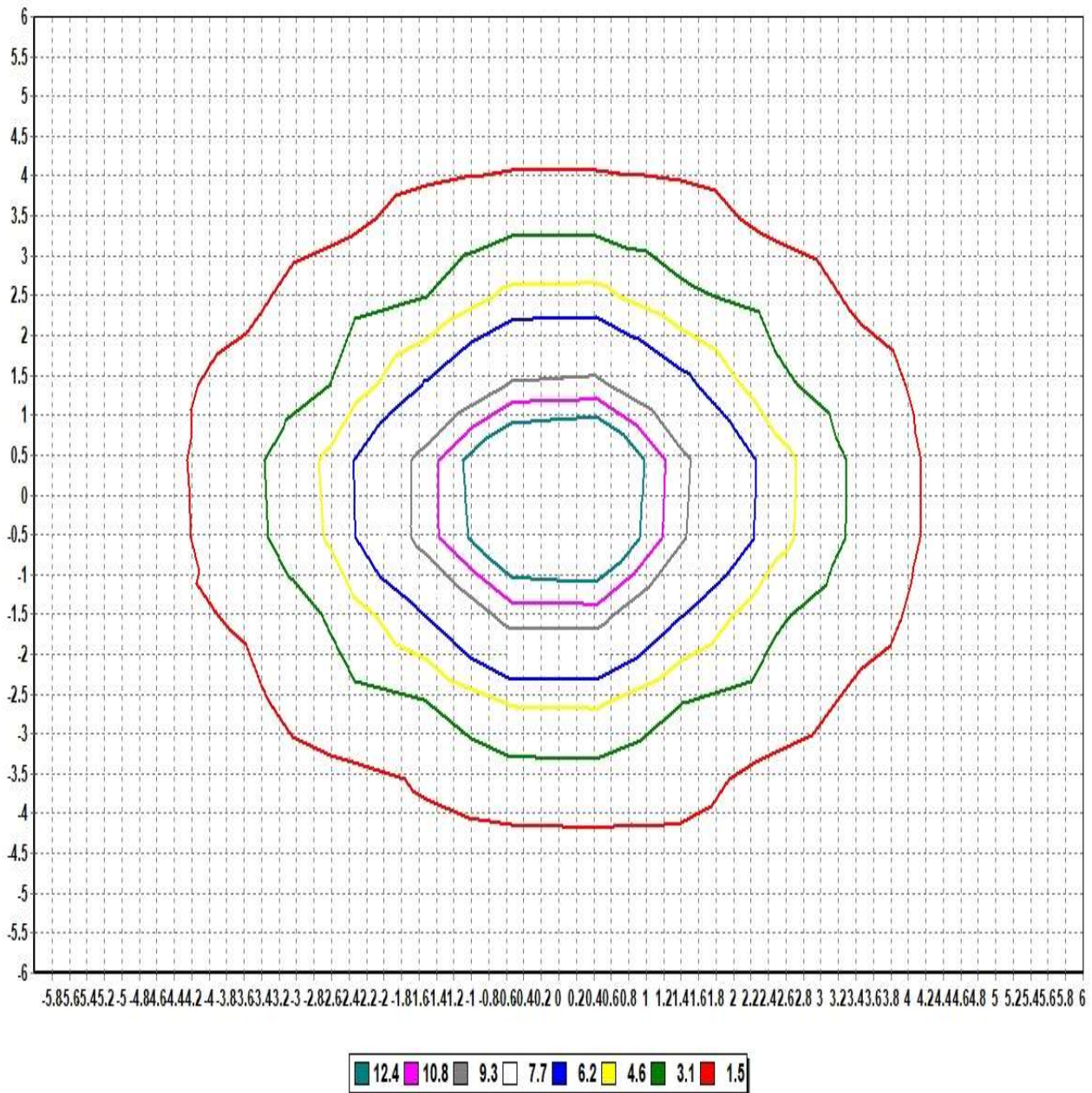
Total flux (lm) 391

Power Factor

0.9Date

2022-03-10 오후 4:02:25

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

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No. of lamps 1

Voltage (V)

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Lamp flux (lm) 391

Current (A)

0.0Operator

YKI

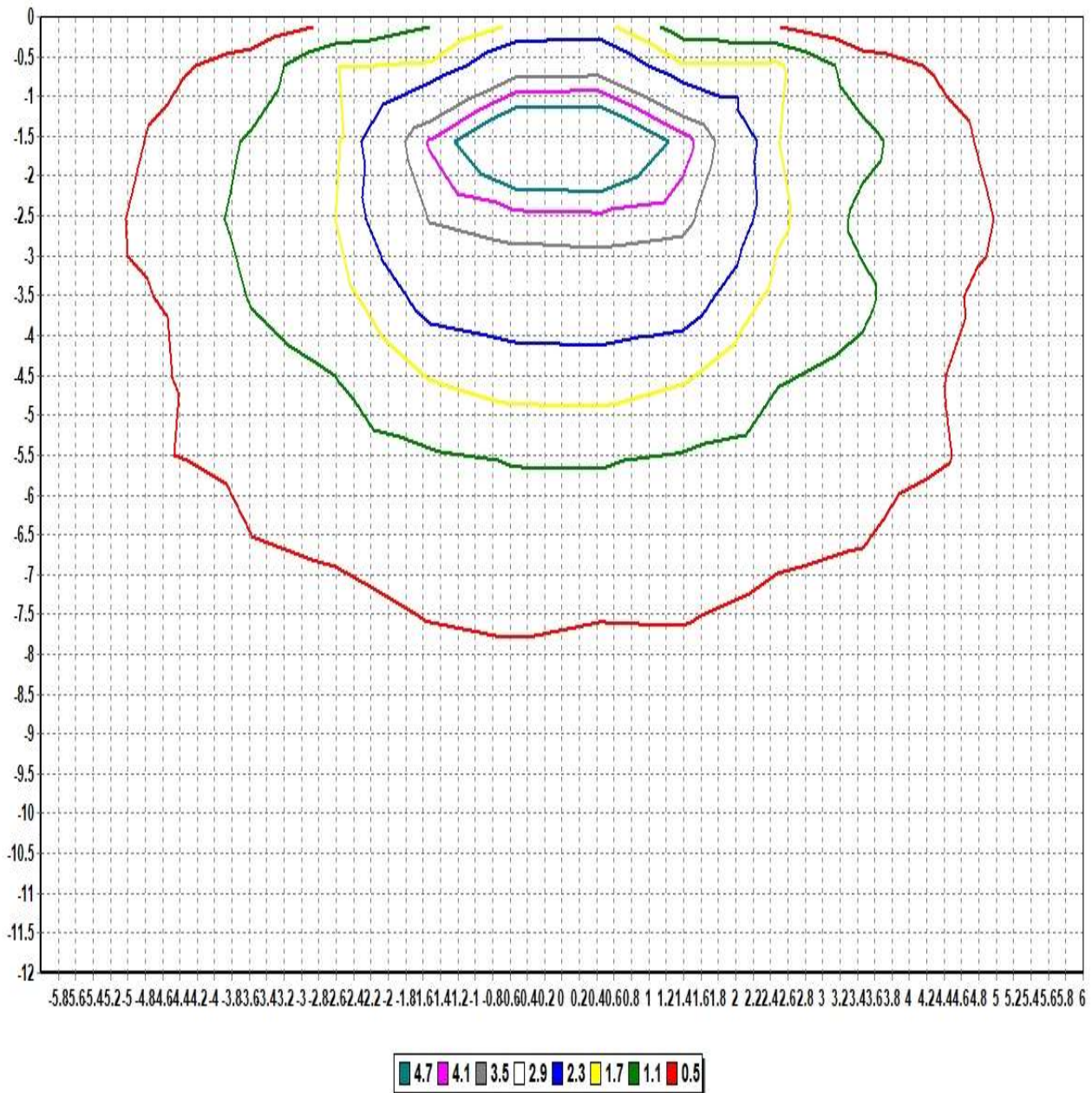
Total flux (lm) 391

Power Factor

0.9Date

2022-03-10 오후 4:02:25

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)	120.31
Lamp flux (lm)	391	Current (A)	0.04251
Total flux (lm)	391	Power Factor	0.9736

Report 220310

Filename NDF5 30K-120V FLICKERFREE 28NS9.jdt

Operator YKI

Date 2022-03-10 오후 4:02:25

Illuminance Levels (Ground)

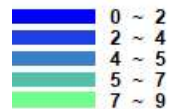
6.00	0.17	0.23	0.18	0.26	0.31	0.35	0.35	0.34	0.33	0.28	0.20	0.24	0.19
5.00	0.26	0.21	0.29	0.39	0.78	0.90	0.94	0.90	0.79	0.42	0.31	0.24	0.25
4.00	0.24	0.35	0.66	0.95	1.01	1.24	1.33	1.24	1.04	0.98	0.70	0.34	0.23
3.00	0.27	0.49	1.03	1.16	2.35	2.61	2.89	2.67	2.39	1.24	1.01	0.47	0.28
2.00	0.35	0.80	1.03	2.48	3.37	5.44	6.43	5.47	3.49	2.46	1.05	0.81	0.35
1.00	0.45	1.02	1.45	2.71	5.47	9.98	13.82	10.10	5.49	2.70	1.37	0.96	0.41
0.00	0.49	1.10	1.62	3.32	6.97	14.17	17.22	14.00	6.69	3.06	1.48	1.01	0.43
-1.00	0.44	1.01	1.44	2.91	5.85	10.44	13.91	10.10	5.50	2.70	1.37	0.96	0.41
-2.00	0.40	0.87	1.15	2.60	3.74	5.82	6.61	5.49	3.44	2.46	1.04	0.80	0.34
-3.00	0.32	0.53	1.10	1.35	2.50	2.84	3.00	2.66	2.41	1.18	1.01	0.47	0.27
-4.00	0.27	0.39	0.76	1.04	1.13	1.31	1.39	1.32	1.02	0.98	0.67	0.34	0.23
-5.00	0.28	0.28	0.35	0.46	0.85	0.94	0.97	0.95	0.79	0.41	0.30	0.21	0.25
-6.00	0.21	0.26	0.22	0.32	0.37	0.37	0.37	0.38	0.32	0.27	0.19	0.23	0.18
-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.) : 17.222

Illum. (Min.) : 0.1739

Illum. (Avg.) : 1.9720

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp

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No. of lamps 1

Voltage (V)

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Lamp flux (lm) 391

Current (A)

0.04Operator

YKI

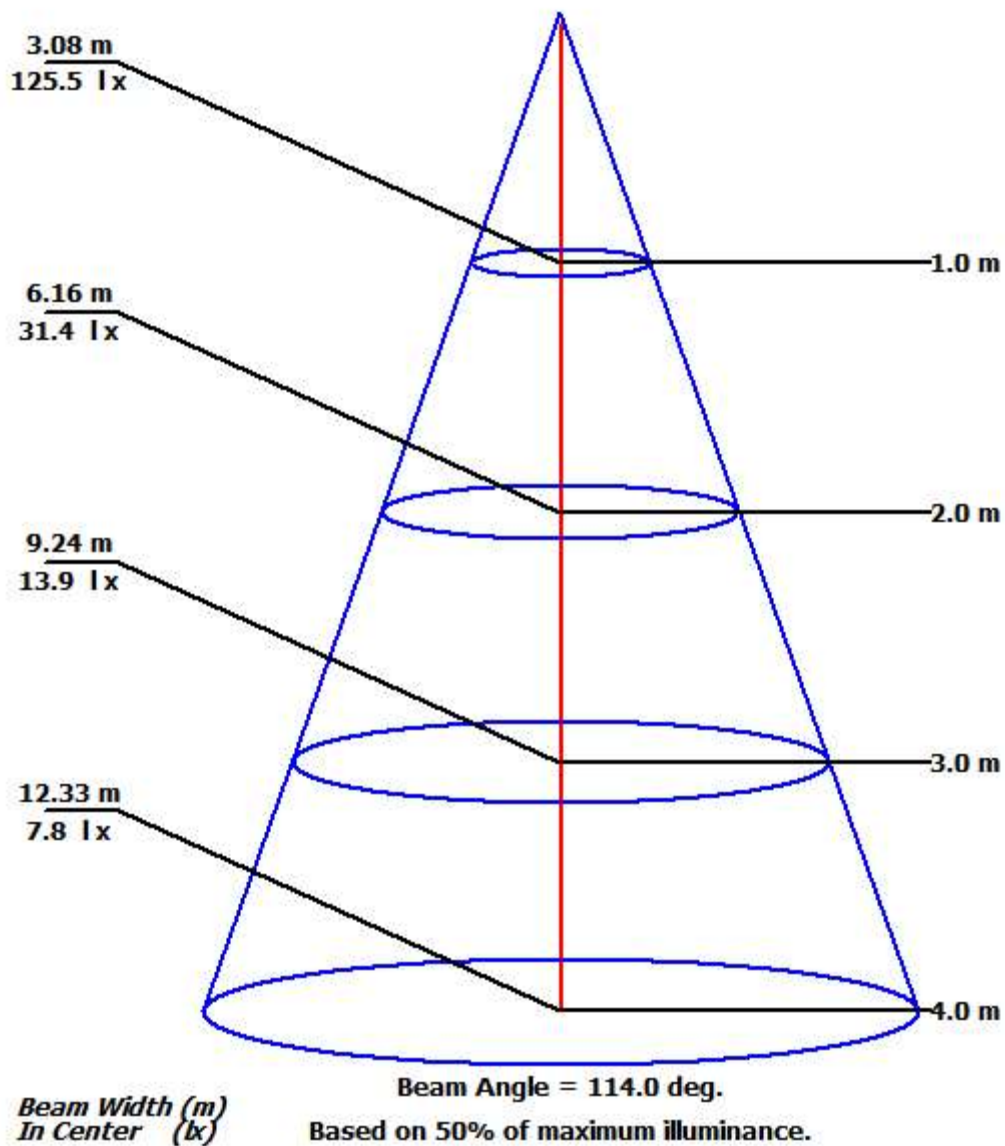
Total flux (lm) 391

Power Factor

0.9Date

2022-03-10 오후 4:02:25

Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

220310

No. of lamps 1 Voltage (V) 120.31

Filename NDF5 30K-120V FLICKERFREE 28NS9.jdt

Lamp flux (lm) 391 Current (A) 0.04251

Operator YKI

Total flux (lm) 391 Power Factor 0.9736

Date 2022-03-10 오후 4:02:25

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