

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84
* Date of Receipt : 230913

2. Purpose of Report :

3. Number of Report : KH FEELUX

4. Test Standard / Item : / 230920 NDF10 27K-120V-C90-F.F

5. Test Period : 230913 ~ 230913

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	
	YHS	Sign	YHS	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
KH FEELUX			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	23.3	
CIE 1931 Cx, Cy		0.4597 , 0.4065	
Correlated Color Temperature	K	2666	
Ra		91.79	
Power Factor		0.974	
Input Voltage	V	120.19	
Input Current	A	0.086	
Input Watt	W	10.068	
Lamp Flux	lm	754.9	
Efficient	lm/W	74.97	
luminous Intensity (Max , Center)	cd	240 , 240	
Illuminance	lx	240	1 m
		60	2 m
		27	3 m

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

* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V)

120.19 Filename 230920 NDF10 27K-120V-C90-F.F.jdt

Lamp flux (lm) 755

Current (A)

0.08602 Operator

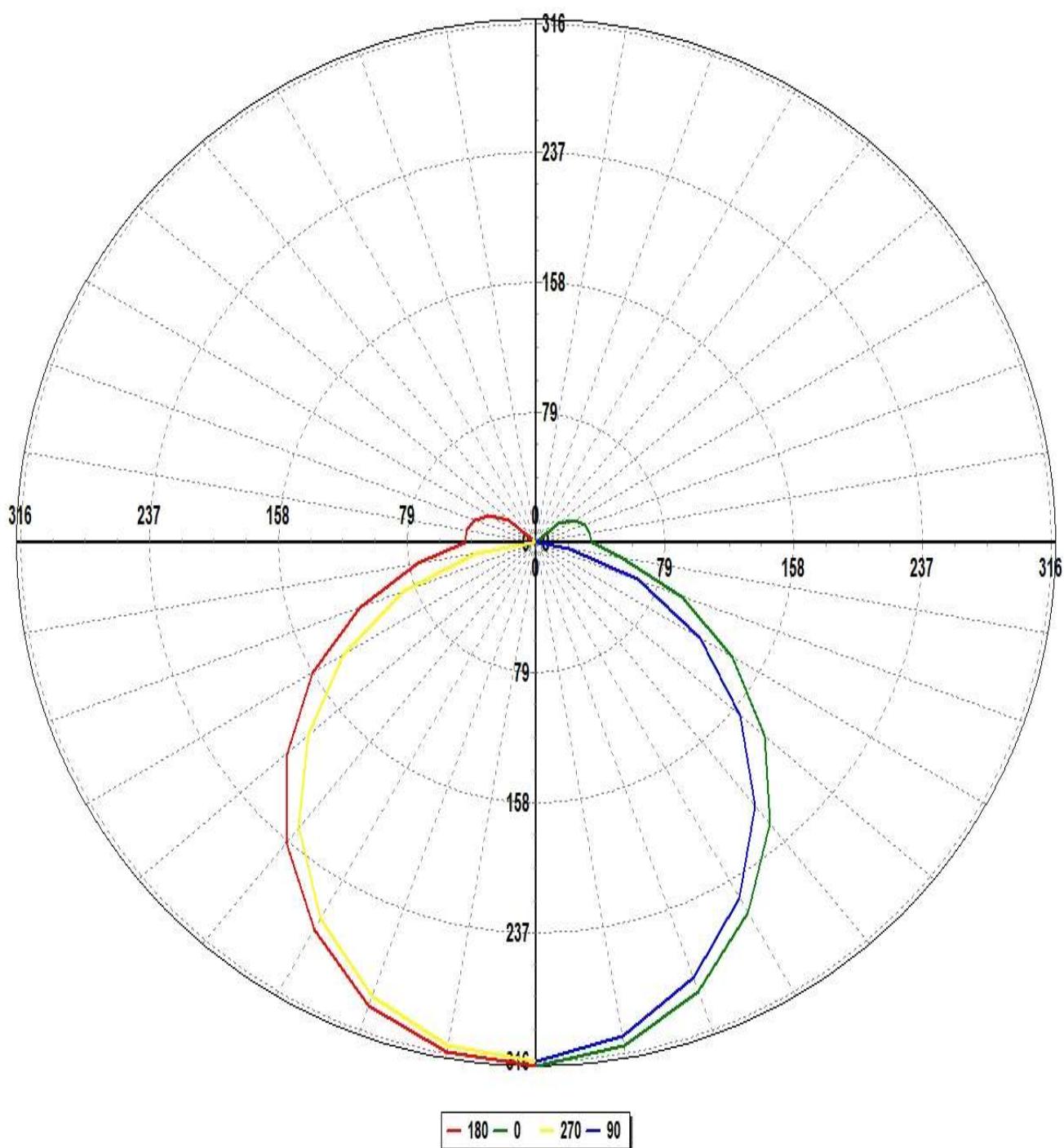
Total flux (lm) 755

Power Factor

0.9739 Date

2023-09-20 오후 1:30:41

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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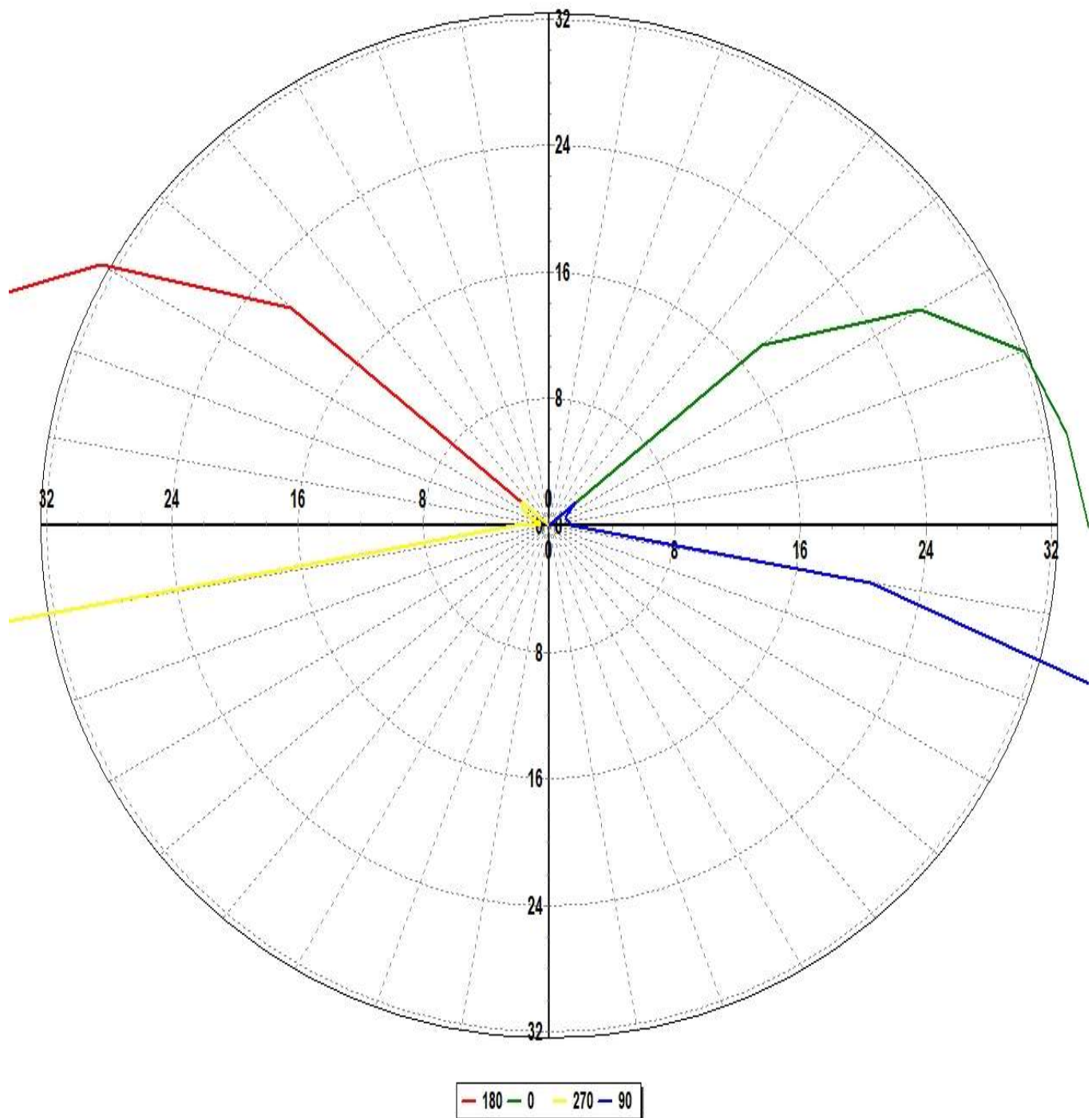
Total flux (lm) 755

Power Factor

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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps	1	Voltage (V)	120.19	Filename	230920 NDF10 27K-120V-C90-F.F.jdt
Lamp flux (lm)	755	Current (A)	0.08602	Operator	
Total flux (lm)	755	Power Factor	0.9739	Date	2023-09-20 오후 1:30:41

Luminous Intensity Data

Maximum (cd) : 240

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	240.42	239.91	238.6	238.06	238.05	237.34	240.42	239.91	238.6	238.06	238.05
10	234.82	231.96	232.34	230.16	231.73	232.5	237.48	237.4	235.4	234.84	233.84
20	219.4	216.36	214.74	212.78	216.52	218.2	226.16	225.2	223.29	221.79	220.45
30	196.31	193.63	191.23	188.24	191.93	195.62	205.29	205.65	202.31	199.69	199.91
40	168.64	164.26	161.58	157.63	163.44	169.14	179.61	179.17	175.46	170.69	171.27
50	138.19	132.79	128.72	123.53	131.93	138.41	150.32	150.95	144.17	137.7	140.54
60	104.76	99.66	94.07	87.58	97.56	106.09	119.21	118.53	110.48	102.87	105.43
70	71.7	65.17	59.25	49.96	63.03	74.14	86.56	85	75.63	65.61	70.68
80	39.54	34.04	24.86	15.68	29.59	41.68	55.58	52.35	40.52	28.5	35.84
90	25.9	22	11.7	1.08	13.46	27.13	33	28.52	14.8	1.64	11.63
100	25.29	21.77	11.31	1.02	12.95	26.33	32.59	26.29	14.18	0.43	11.18
110	24.28	20.08	7.97	0.88	8.79	24.64	30.4	25.6	13.65	0.88	10.77
120	20.6	16.03	1.39	0.95	1.42	19.75	24.86	22.93	1.16	1.5	0.86
130	13.33	7.78	6.12	1.68	6.45	7.66	16.17	10.27	6.6	1.74	5.83

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Operator

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Date

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Luminous Intensity Data (Continued)

Maximum (cd) : 240

Minimum (cd) : 0

G/C	330	360
0	237.34	240.42
10	234.71	234.82
20	221.29	219.4
30	199.83	196.31
40	172.79	168.64
50	143.15	138.19
60	110.46	104.76
70	76.26	71.7
80	43.32	39.54
90	21.6	25.9
100	21.24	25.29
110	20.8	24.28
120	18.18	20.6
130	8.13	13.33

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Total flux (lm)	755	Power Factor	0.9739	Date	2023-09-20 오후 1:30:41

Luminous Flux Table

Total Lamp Lumens: 754.87

Luminaire Efficiency (lm/W): 74.98

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	5.71	5.71	0.76	0.76
10	44.49	50.20	6.65	6.65
20	82.29	132.49	17.55	17.55
30	108.14	240.63	31.88	31.88
40	119.31	359.93	47.68	47.68
50	116.09	476.02	63.06	63.06
60	99.33	575.35	76.22	76.22
70	72.30	647.65	85.79	85.80
80	39.68	687.34	91.05	91.05
90	19.39	706.73	93.62	93.62
100	18.39	725.11	96.05	96.06
110	16.19	741.30	98.20	98.20
120	10.25	751.55	99.56	99.56
130	3.32	754.87	100.00	100.00

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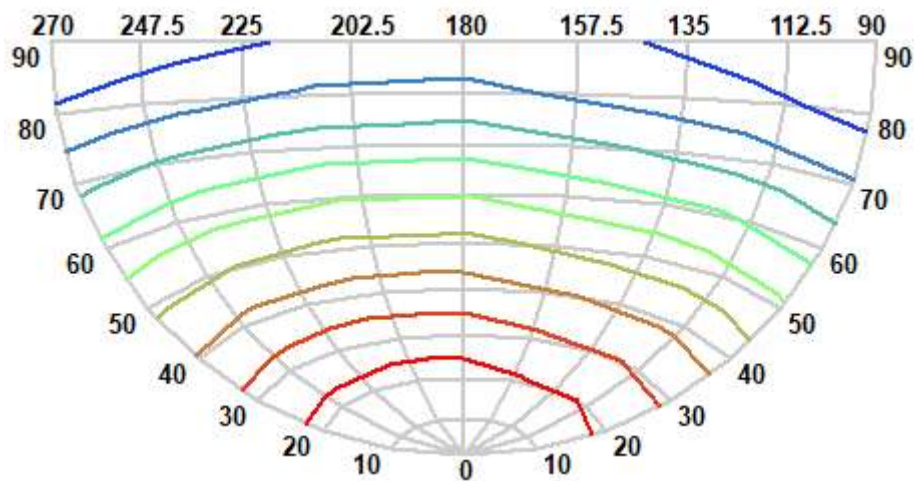
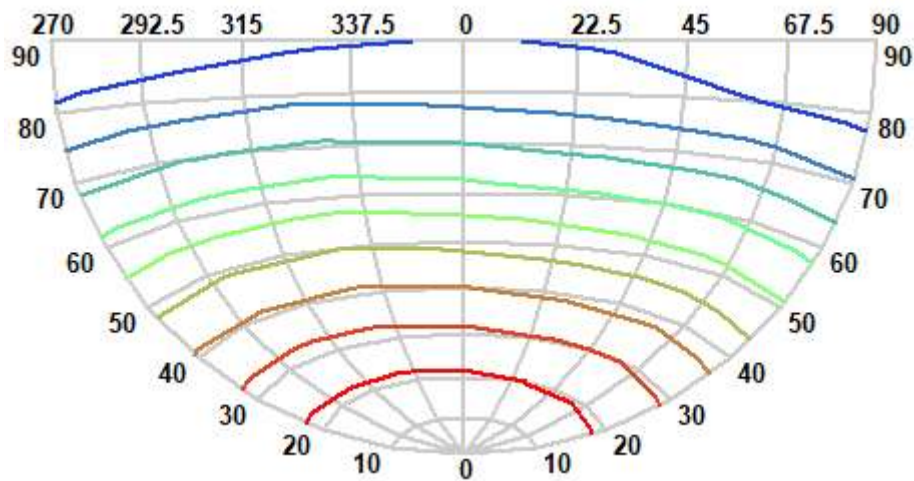
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IsoCandela (Type C)



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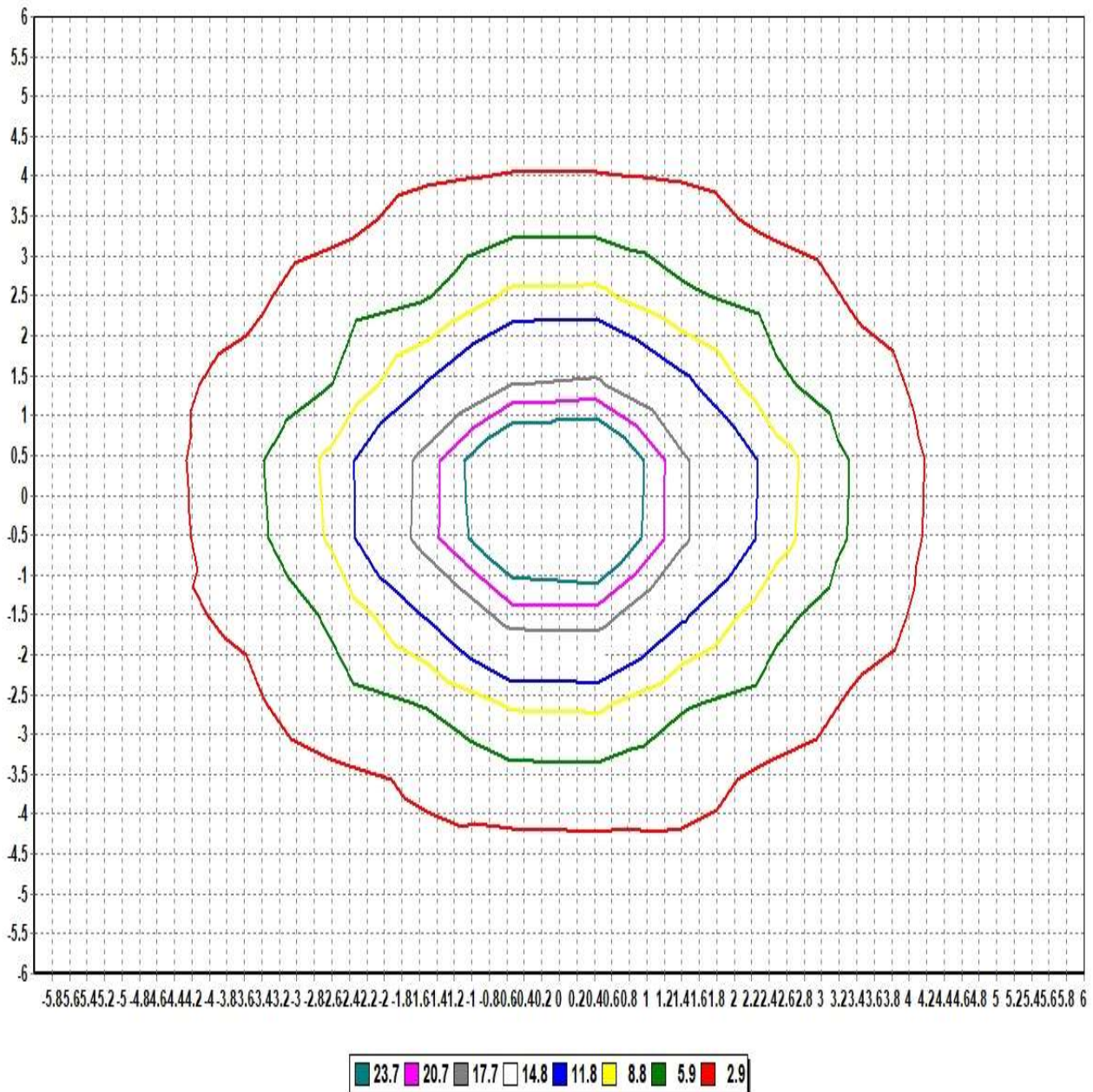
Power Factor

0.9739

Date

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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

KH FEELUX

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120.19

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Operator

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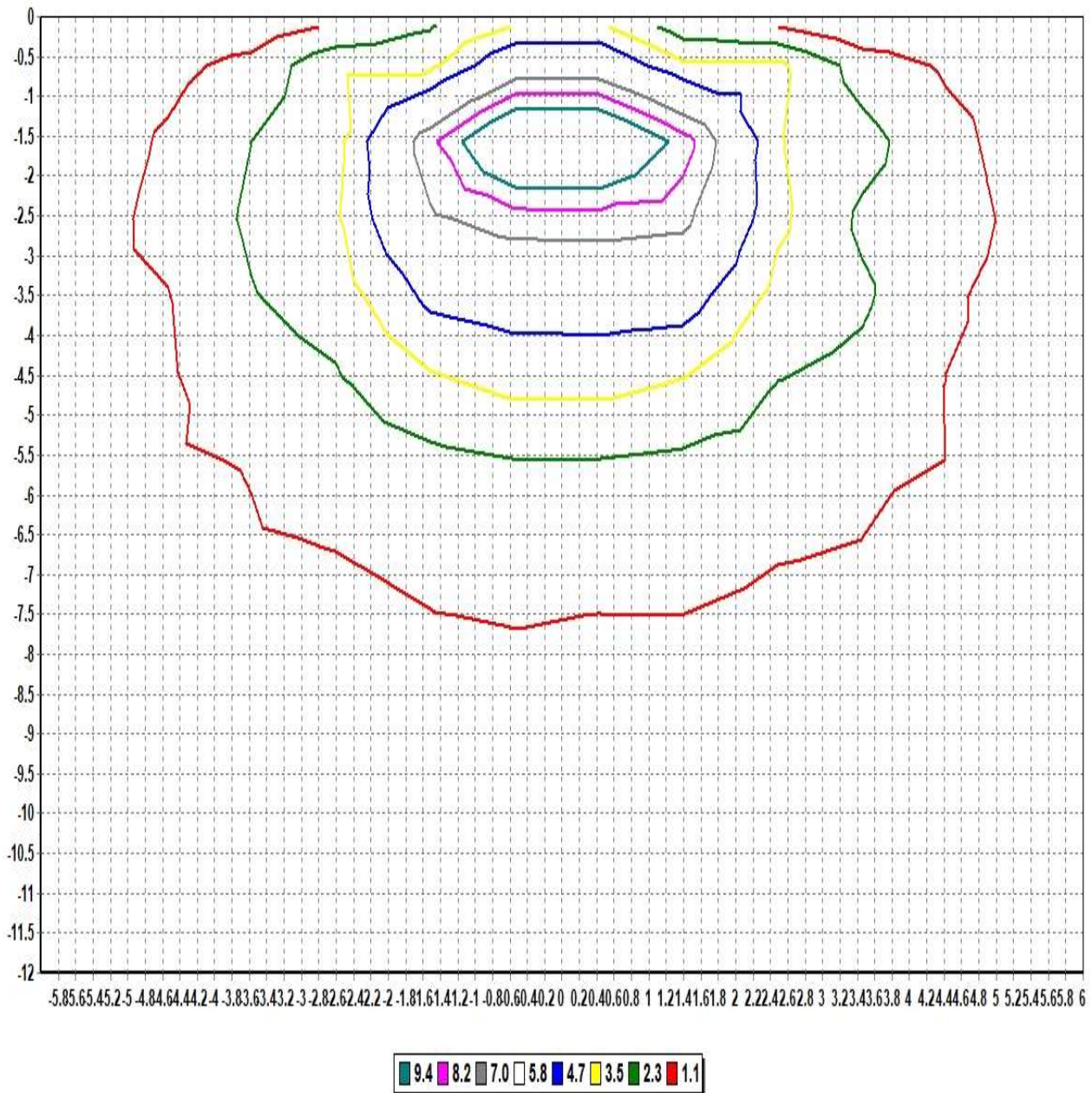
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0.9739

Date

2023-09-20 오후 1:30:41

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

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Lamp flux (lm)	755	Current (A)	0.08602
Total flux (lm)	755	Power Factor	0.9739

Report

KH FEELUX

Filename 230920 NDF10 27K-120V-C90-F.F.jdt

Operator

Date 2023-09-20 오후 1:30:41

Illuminance Levels (Ground)

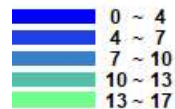
6.00	0.32	0.42	0.32	0.49	0.57	0.64	0.62	0.62	0.61	0.51	0.37	0.44	0.36
5.00	0.48	0.37	0.52	0.70	1.46	1.68	1.73	1.66	1.49	0.78	0.57	0.45	0.48
4.00	0.44	0.65	1.23	1.76	1.90	2.31	2.45	2.30	1.95	1.83	1.32	0.64	0.43
3.00	0.51	0.91	1.94	2.15	4.36	4.89	5.35	4.99	4.48	2.34	1.94	0.89	0.52
2.00	0.65	1.51	1.94	4.69	6.31	10.27	11.98	10.34	6.63	4.68	1.97	1.52	0.65
1.00	0.87	1.96	2.78	5.11	10.35	18.68	25.97	19.11	10.39	5.12	2.67	1.89	0.81
0.00	0.95	2.14	3.16	6.41	13.42	26.82	32.98	26.51	12.69	5.92	2.84	1.95	0.81
-1.00	0.83	1.91	2.76	5.71	11.29	20.05	26.52	19.53	10.81	5.37	2.66	1.87	0.79
-2.00	0.80	1.73	2.31	5.03	7.28	11.26	12.87	10.79	6.81	4.82	2.08	1.60	0.69
-3.00	0.65	1.04	2.14	2.69	4.91	5.63	5.92	5.30	4.74	2.39	2.02	0.94	0.56
-4.00	0.52	0.77	1.50	2.06	2.30	2.65	2.81	2.66	2.07	1.95	1.35	0.68	0.46
-5.00	0.55	0.55	0.71	0.94	1.70	1.87	1.94	1.89	1.58	0.85	0.62	0.44	0.51
-6.00	0.42	0.53	0.46	0.65	0.76	0.76	0.77	0.79	0.66	0.55	0.40	0.48	0.37
-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.) : 32.979

Illum. (Min.) : 0.3166

Illum. (Avg.) : 3.7823

All illuminance level values are in lux.



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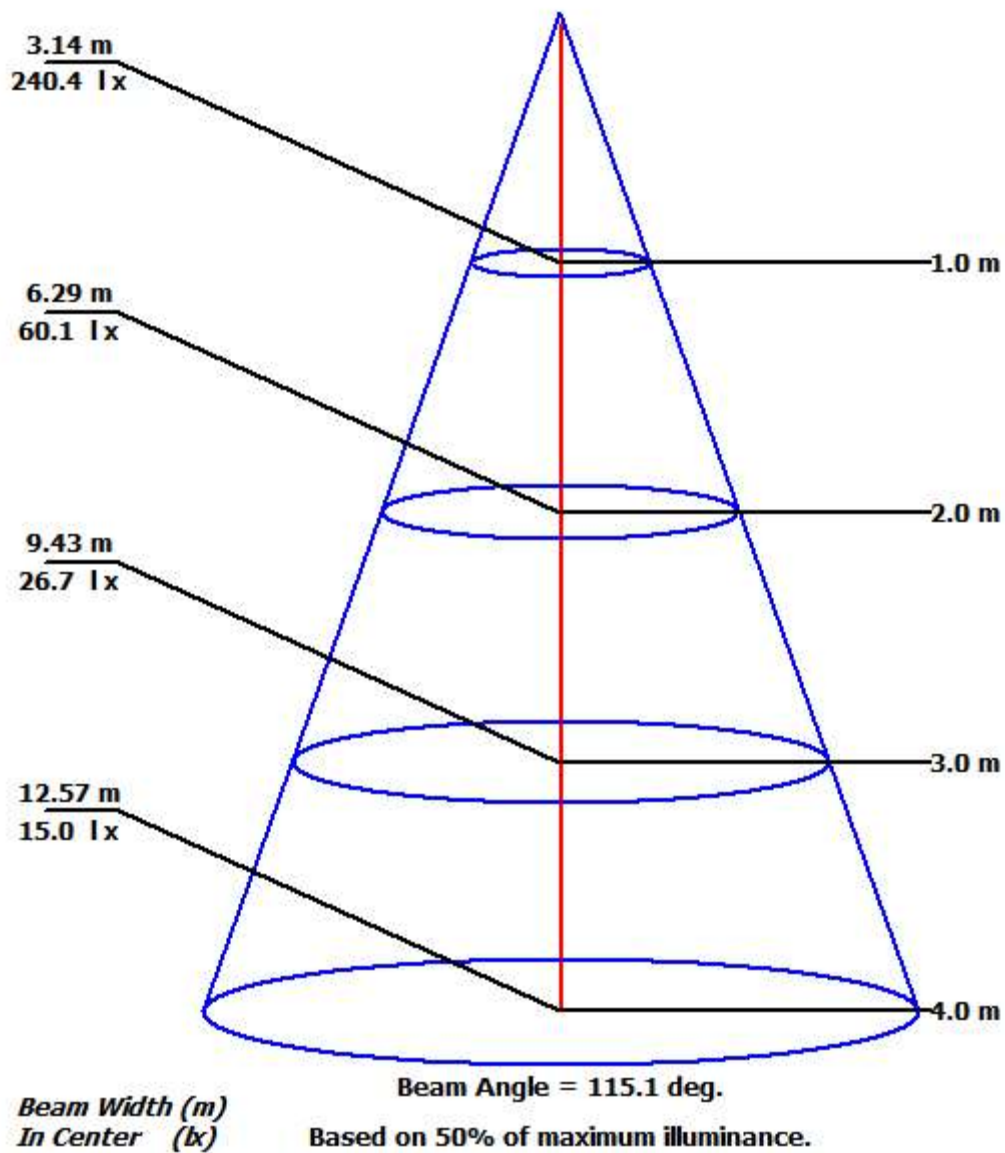
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Illuminance Cone Diagram



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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