

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 : 220524

2. Purpose of Report :**3. Number of Report :** 220524**4. Test Standard / Item :** / NDF3 27K-120V F2203 VER1.1 28LM9**5. Test Period :** 220524 ~ 220524**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	
	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
220524			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	10.1	
CIE 1931 Cx, Cy		0.4589 , 0.4039	
Correlated Color Temperature	K	2657	
Ra		92.23	
Power Factor		0.995	
Input Voltage	V	120.42	
Input Current	A	0.021	
Input Watt	W	2.5124	
Lamp Flux	lm	171.9	
Efficient	lm/W	68.43	
luminous Intensity (Max , Center)	cd	54 , 54	
Illuminance	lx	54	1 m
		14	2 m
		6	3 m

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

* Sample photo

Click to load image

Luminaire KHFEELUX

Lamp

Report

220524

No. of lamps 1

Voltage (V)

12(Filename NDF3 27K-120V F2203 VER1.1 28LM9.jdt

Lamp flux (lm) 172

Current (A)

0.02Operator

YKI

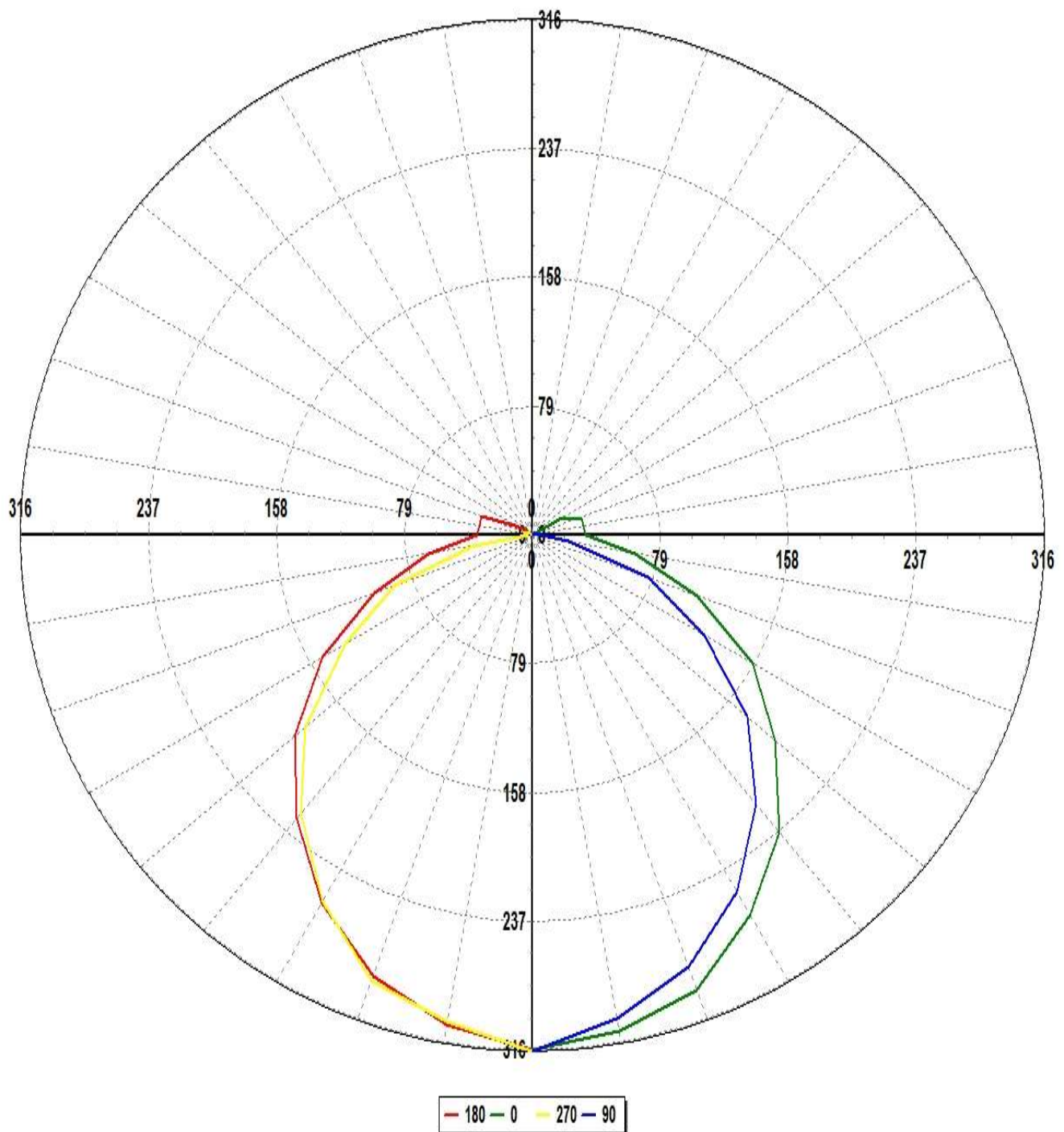
Total flux (lm) 172

Power Factor

0.9Date

2022-05-24 오후 5:05:46

Luminous Intensity Distribution



Luminaire KHFEELUX

Lamp

Report

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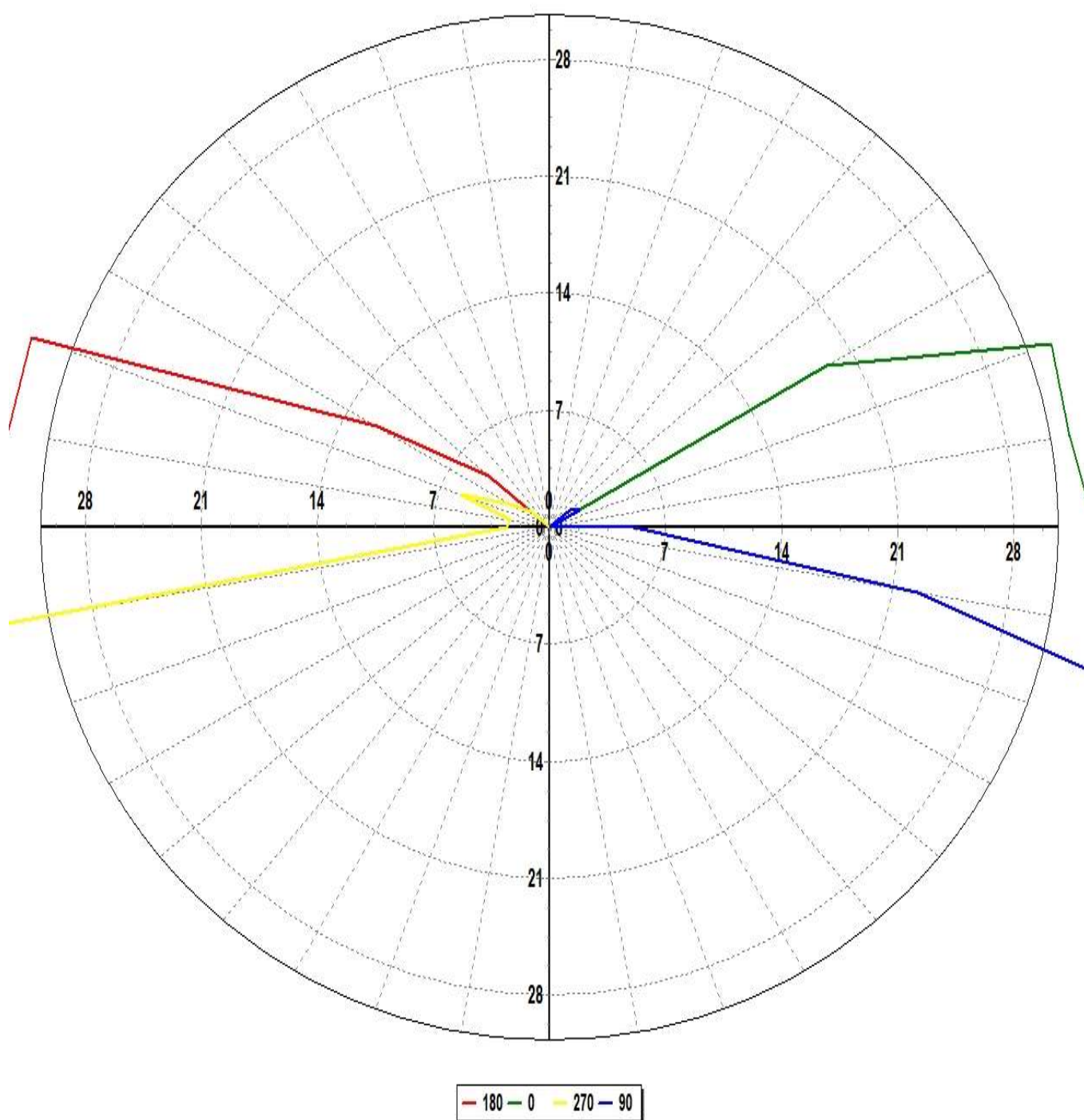
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Luminous Intensity Distribution (Lowest 10%)



Luminaire KHFEELUX

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Luminous Intensity Data

Maximum (cd) : 54

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300	330	360
0	54.33	53.96	52.87	54.42	53.47	53.43	54.33	53.96	52.87	54.42	53.47	53.43	54.33
10	53.15	53.37	53.28	51.77	51.99	52.45	52.47	52.99	52.23	52.06	53.17	53.09	53.15
20	50.98	50.49	49.27	48.49	48.46	48.08	49.48	49.88	50.05	50.01	50.84	50.89	50.98
30	46.31	44.98	45.2	43.48	43.08	44.07	44.8	45.46	45.02	44.56	45.76	46.55	46.31
40	40.9	40.03	38.4	37.01	37.34	37.02	38.93	39.11	38.25	38.21	39.01	40.8	40.9
50	33.64	33.05	31.36	29.79	30.32	31.26	32.92	32.92	31.99	31.51	32.89	34.15	33.64
60	27.06	25.47	23.39	21.13	22.62	23.25	25.78	25.56	24.1	22.86	25.21	26.55	27.06
70	18.66	17.44	14.81	13.09	14.57	16.28	17.91	17.49	15.52	15.55	16.55	18.98	18.66
80	11.09	9.69	7.8	3.87	6.31	8.08	11.19	9.23	8.03	6.31	9.06	10.91	11.09
90	5.66	5.08	2.59	0.88	3.05	5.11	5.87	5.19	3.56	0.45	2.63	4.89	5.66
100	5.47	4.82	2.99	-0.18	2.46	5.13	5.7	4.94	2.89	0.42	3.01	5.3	5.47
110	5.53	4.32	2.7	-0.01	2.47	4.81	5.72	5.1	2.7	0.98	2.31	4.99	5.53
120	3.32	4.18	-0.05	0.36	0.51	5.06	2.07	5.17	0.49	0.48	0.57	4.36	3.32
130	-0.02	0.49	1.74	0.3	1.13	0.1	0.82	0.24	1.9	0.24	1.87	0.25	-0.02

Luminaire KHFEELUX

Lamp

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0.02Operator

YKI

Total flux (lm) 172

Power Factor

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Luminous Flux Table

Total Lamp Lumens: 171.93

Luminaire Efficiency (lm/W): 68.43

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	1.29	1.29	0.75	0.75
10	10.02	11.30	6.57	6.57
20	18.63	29.94	17.41	17.41
30	24.61	54.55	31.73	31.73
40	27.28	81.83	47.60	47.59
50	26.97	108.80	63.29	63.28
60	23.16	131.95	76.76	76.75
70	16.88	148.84	86.58	86.57
80	9.13	157.97	91.90	91.88
90	4.10	162.07	94.28	94.27
100	3.86	165.93	96.53	96.51
110	3.57	169.50	98.60	98.59
120	2.10	171.60	99.82	99.81
130	0.33	171.93	100.02	100.00

Luminaire KHFEELUX

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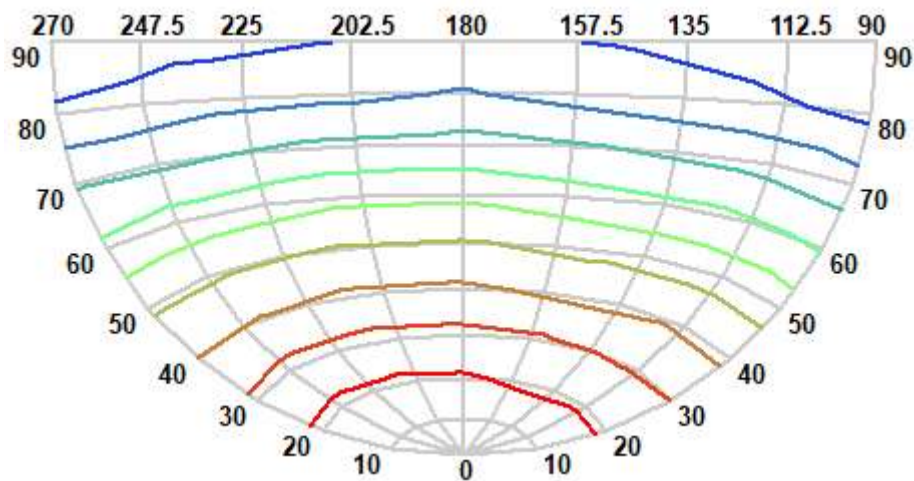
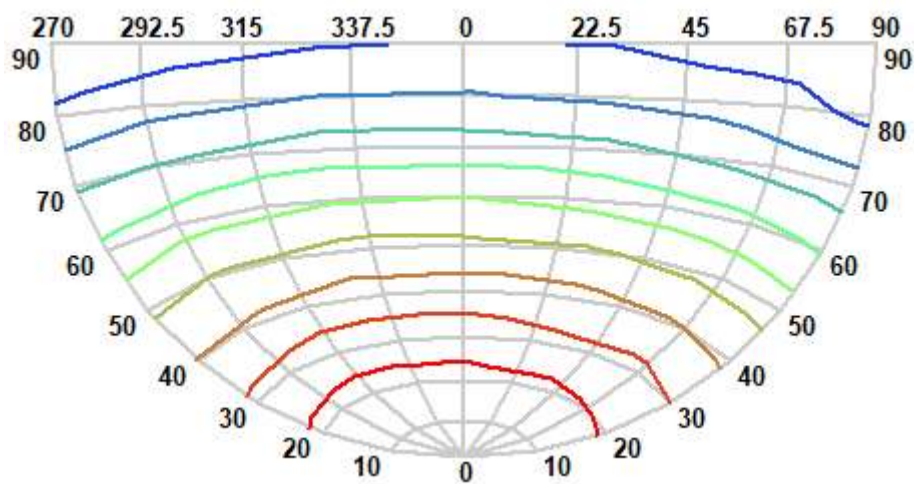
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IsoCandela (Type C)



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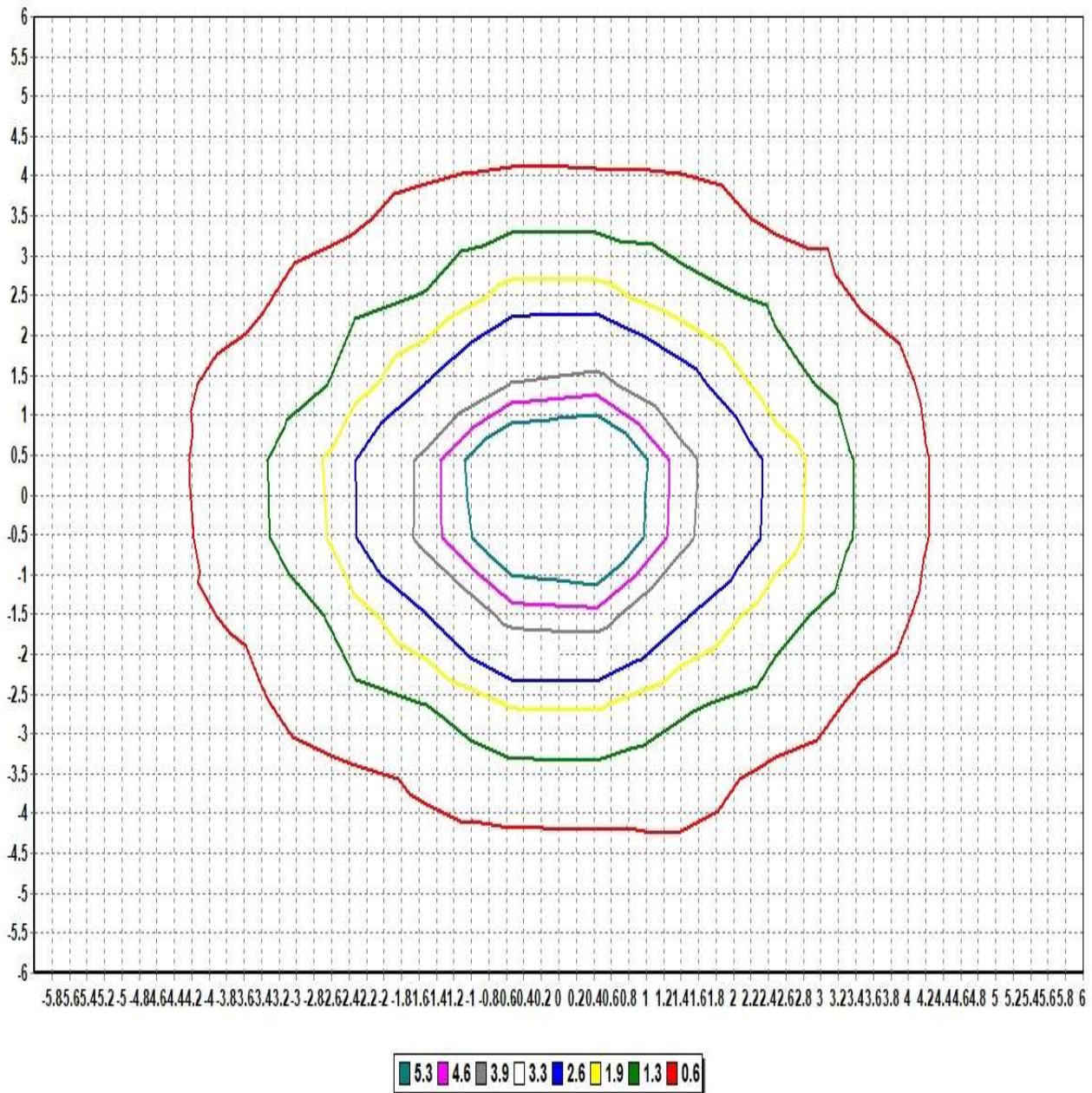
Total flux (lm) 172

Power Factor

0.9Date

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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KHFEELUX

Lamp

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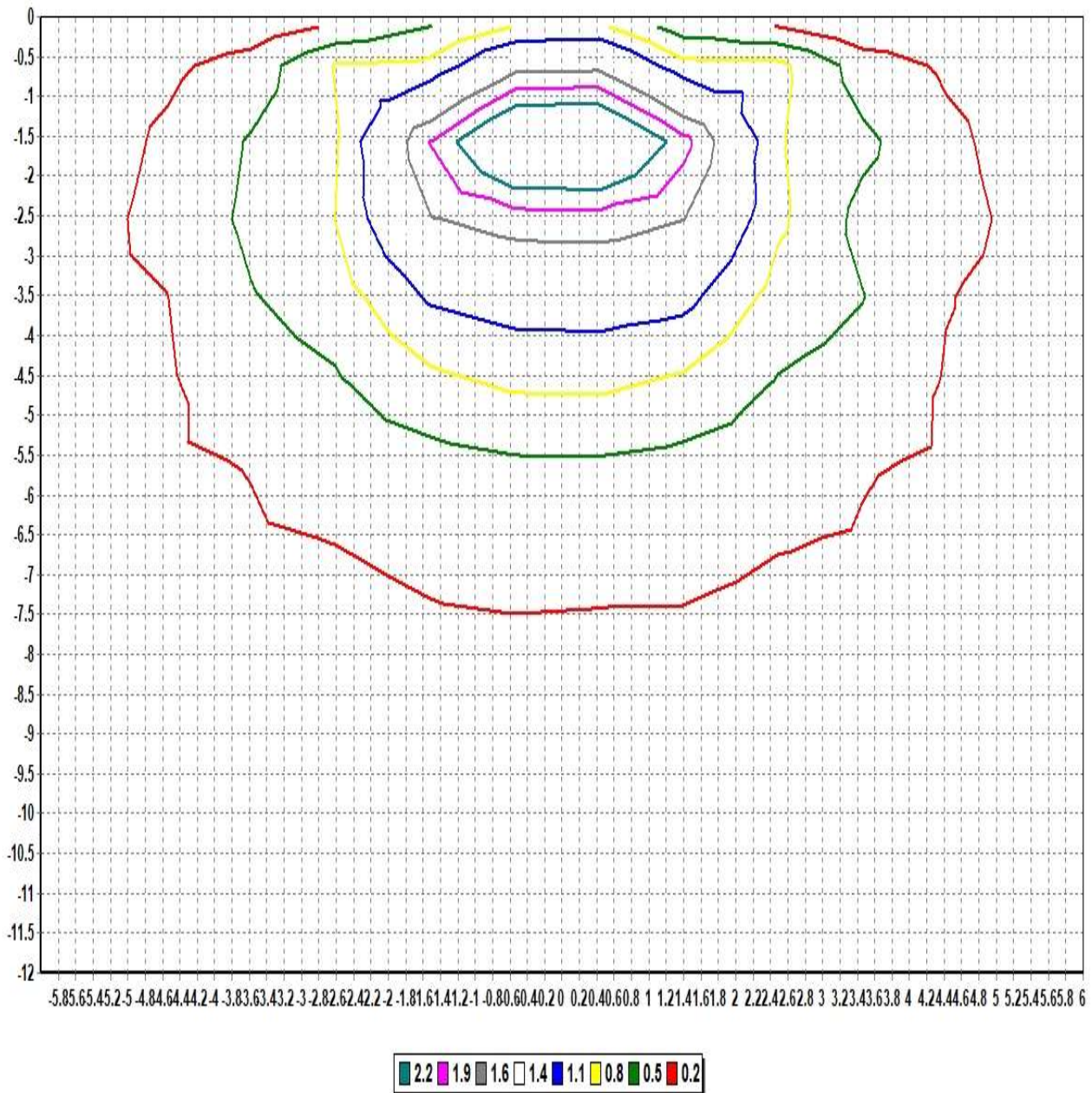
Total flux (lm) 172

Power Factor

0.9Date

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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

Luminaire KHFEELUX

Lamp

No. of lamps	1	Voltage (V)	120.42
Lamp flux (lm)	172	Current (A)	0.02097
Total flux (lm)	172	Power Factor	0.9948

Report	220524
Filename	NDF3 27K-120V F2203 VER1.1 28LM9.jdt
Operator	YKI
Date	2022-05-24 오후 5:05:46

Illuminance Levels (Ground)

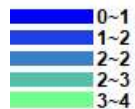
6.00	0.08	0.10	0.08	0.11	0.14	0.16	0.16	0.15	0.16	0.13	0.09	0.11	0.09
5.00	0.11	0.09	0.13	0.17	0.34	0.41	0.42	0.40	0.37	0.19	0.14	0.12	0.12
4.00	0.10	0.14	0.29	0.42	0.44	0.56	0.59	0.56	0.49	0.45	0.33	0.17	0.11
3.00	0.12	0.20	0.44	0.51	1.03	1.14	1.28	1.23	1.07	0.59	0.48	0.23	0.14
2.00	0.15	0.35	0.45	1.04	1.48	2.35	2.79	2.51	1.62	1.14	0.50	0.38	0.17
1.00	0.19	0.43	0.61	1.16	2.35	4.24	5.84	4.47	2.53	1.26	0.66	0.46	0.20
0.00	0.20	0.47	0.69	1.40	2.92	5.92	7.45	6.00	3.04	1.44	0.71	0.48	0.21
-1.00	0.18	0.43	0.61	1.25	2.46	4.41	5.88	4.42	2.47	1.27	0.66	0.46	0.20
-2.00	0.17	0.38	0.50	1.09	1.59	2.46	2.88	2.45	1.56	1.14	0.50	0.38	0.17
-3.00	0.14	0.22	0.47	0.58	1.07	1.23	1.35	1.23	1.07	0.55	0.48	0.23	0.13
-4.00	0.11	0.16	0.33	0.46	0.50	0.59	0.63	0.59	0.49	0.45	0.31	0.17	0.11
-5.00	0.12	0.11	0.15	0.20	0.37	0.42	0.44	0.42	0.37	0.19	0.15	0.10	0.12
-6.00	0.09	0.11	0.10	0.13	0.16	0.17	0.18	0.17	0.16	0.13	0.10	0.11	0.08
-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.) : 7.4533

Illum. (Min.) : 0.0764

Illum. (Avg.) : 0.8663

All illuminance level values are in lux.



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Lamp

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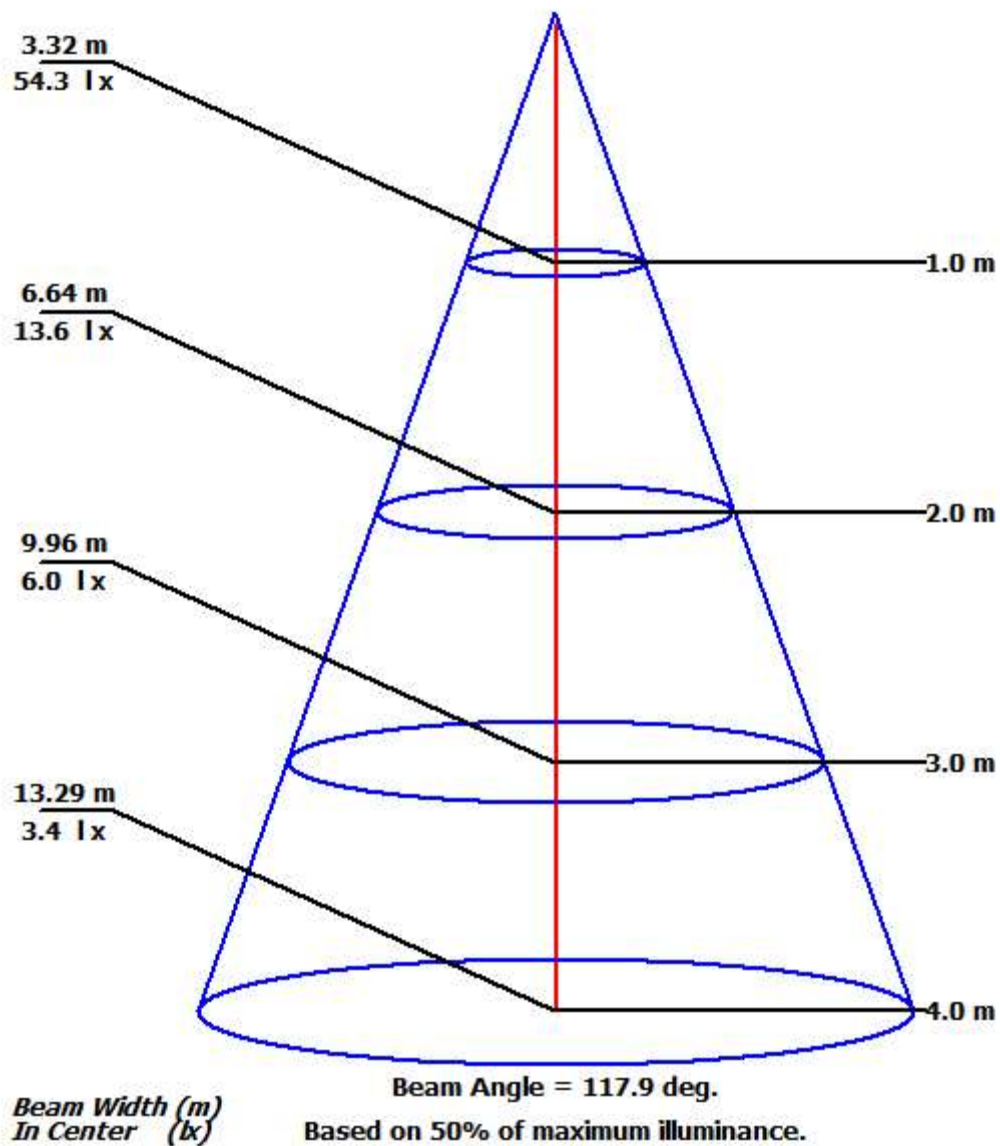
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Illuminance Cone Diagram



Luminaire KHFEELUX

Lamp

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Voltage (V) 120.42

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Lamp flux (lm) 172

Current (A) 0.02097

Operator YKI

Total flux (lm) 172

Power Factor 0.9948

Date 2022-05-24 오후 5:05:46

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