

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 :** / NDF5 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	%	9.7	
CIE 1931 Cx, Cy		0.4619 , 0.4076	
Correlated Color Temperature	K	2645	
Ra		93.01	
Power Factor		0.995	
Input Voltage	V	120.39	
Input Current	A	0.043	
Input Watt	W	5.1814	
Lamp Flux	lm	366.5	
Efficient	lm/W	70.74	
luminous Intensity (Max , Center)	cd	116 , 116	
Illuminance	lx	116	1 m
		29	2 m
		13	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 NDF5 27K-120V F2203 VER1.1 28LM9.jdt

Lamp flux (lm) 367

Current (A)

0.04Operator

YKI

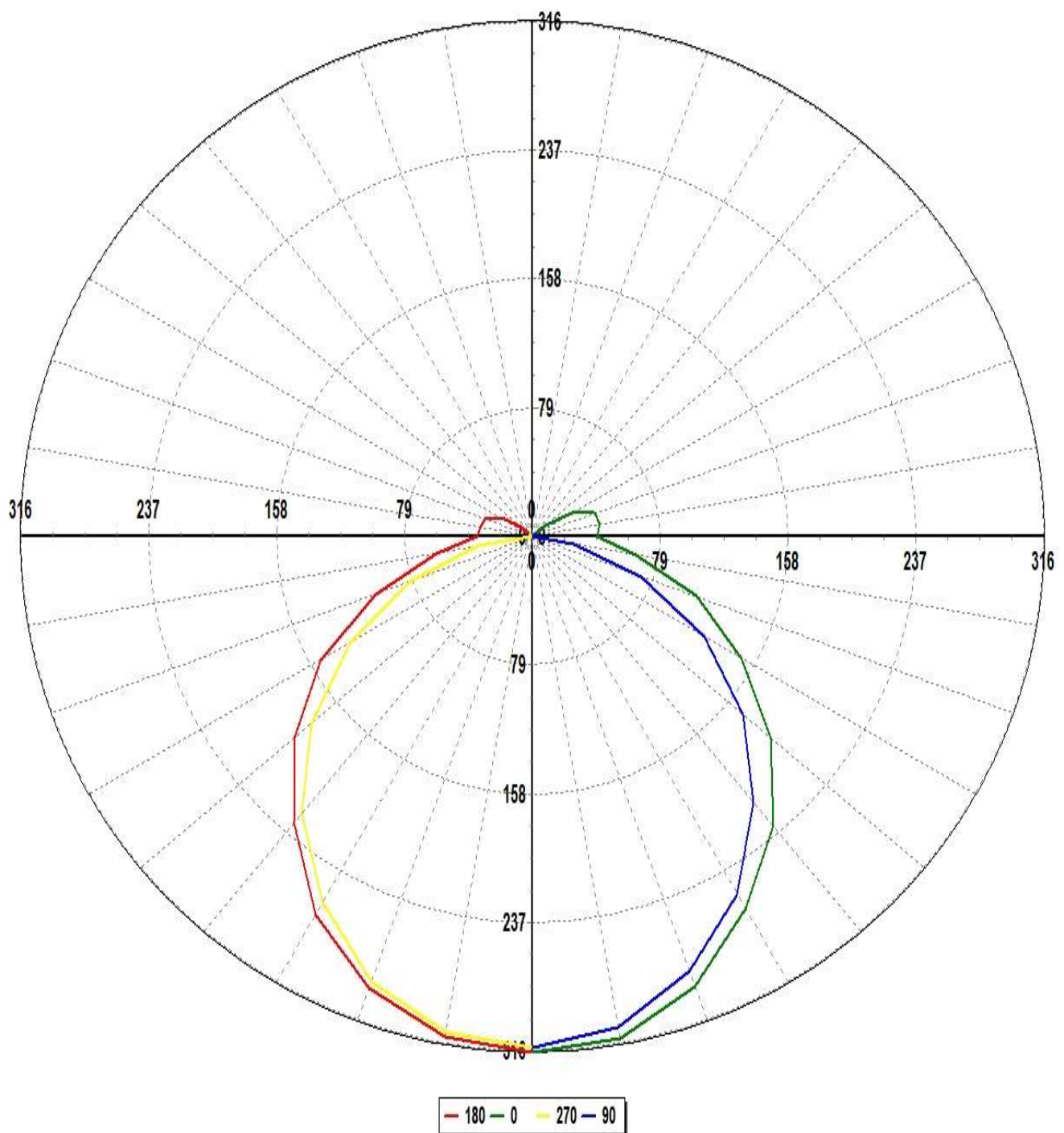
Total flux (lm) 367

Power Factor

0.9Date

2022-05-24 오후 5:17:40

Luminous Intensity Distribution



Luminaire KHFEELUX

Lamp

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220524

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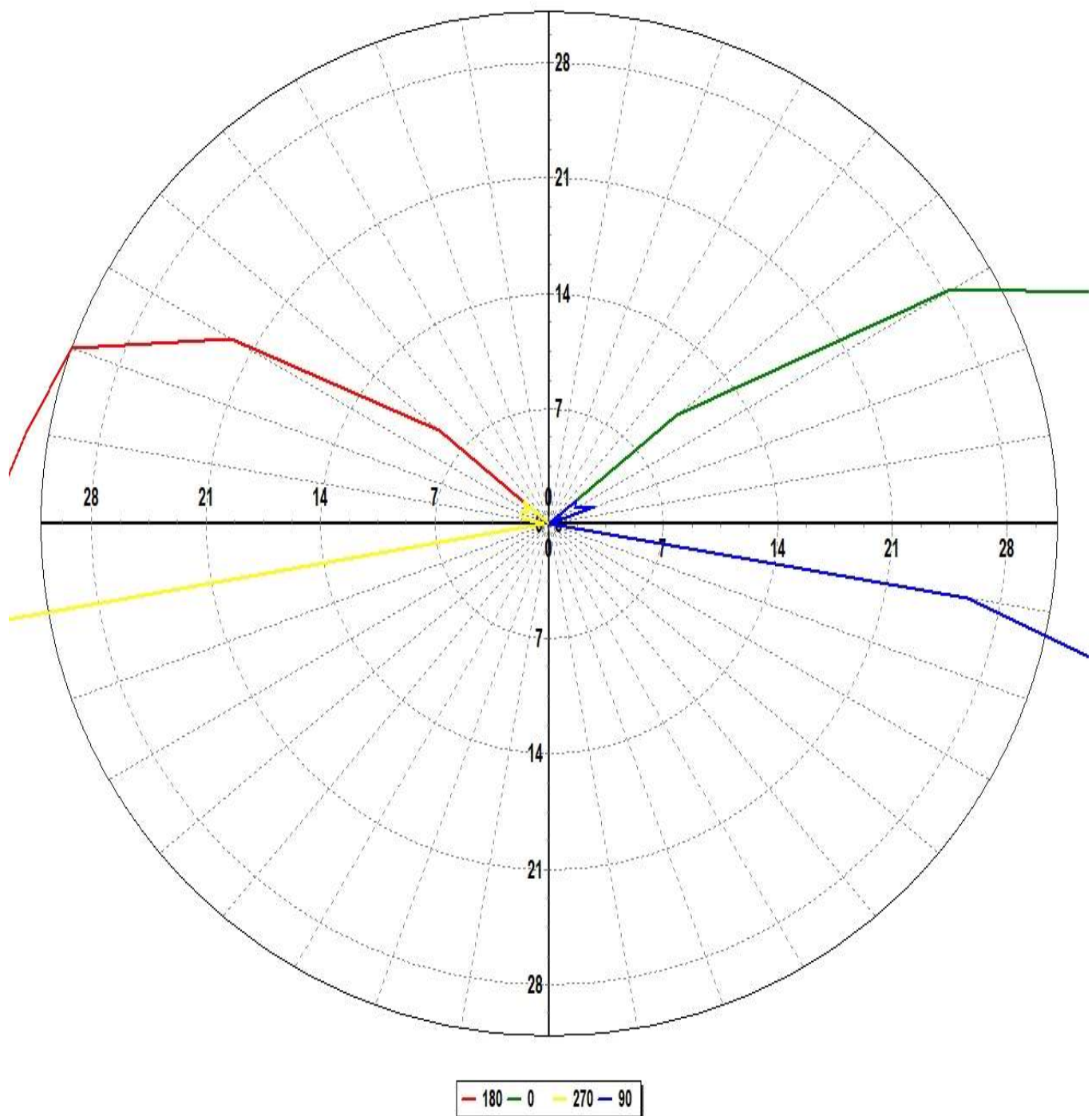
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Luminous Intensity Distribution (Lowest 10%)



Luminaire KHFEELUX

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Luminous Intensity Data

Maximum (cd) : 116

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	116.11	115.61	115.24	114.96	114.73	115.03	116.11	115.61	115.24	114.96	114.73
10	114.54	113.67	112.42	112.17	111.82	112.55	114.29	113.66	113.32	113.09	112.81
20	107.88	107.13	105.5	104.18	105.56	104.62	108.05	107.45	106.32	106.75	106.45
30	96.83	96.31	94.76	92.95	93.62	94.84	98.34	97.71	96.45	95.18	96.27
40	84.94	82.89	81.04	78.06	79.74	81.33	84.09	84.61	81.78	81.37	82.85
50	70.49	69.21	66.02	62.36	64.88	66.09	70.21	70.02	66.46	65.44	67.86
60	54.74	52.63	49.29	45.05	47.86	50.92	55.44	54.32	50.62	47.61	51.47
70	39.55	36.63	32.17	26.28	30.98	34.11	37.8	36.96	33.5	29.61	34.7
80	23.92	21.48	15.9	9.53	14.28	18.41	22.06	20.76	16.06	12.57	16.98
90	14.75	13.15	6.48	-0.23	5.77	10.57	12.58	10.28	5.89	0.11	6.39
100	15.47	12.34	6.9	0.01	5.52	10.78	11.89	10.54	5.27	0.59	6.68
110	14.93	12.13	6.31	1.08	4.8	9.87	11.4	9.89	5.36	0.68	6.61
120	10.41	10.53	0.25	0.68	0.19	9.32	8.23	8.8	0.69	0.53	0.5
130	3.74	2.91	3.64	0.8	3.41	2.06	3.21	2.95	2.18	0.76	3.62

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0.04Operator

YKI

Total flux (lm) 367

Power Factor

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2022-05-24 오후 5:17:40

Luminous Intensity Data (Continued)

Maximum (cd) : 116

Minimum (cd) : 0

G/C	330	360
0	115.03	116.11
10	113.12	114.54
20	106.88	107.88
30	97.4	96.83
40	84.7	84.94
50	70.17	70.49
60	54.94	54.74
70	39.39	39.55
80	23.82	23.92
90	13.02	14.75
100	12.45	15.47
110	12.46	14.93
120	10.89	10.41
130	3.59	3.74

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Luminous Flux Table

Total Lamp Lumens: 366.51

Luminaire Efficiency (lm/W): 70.74

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	2.76	2.76	0.75	0.75
10	21.51	24.27	6.62	6.62
20	39.86	64.13	17.50	17.50
30	52.51	116.64	31.82	31.82
40	57.93	174.56	47.63	47.63
50	56.58	231.14	63.07	63.06
60	48.60	279.74	76.33	76.33
70	35.31	315.05	85.96	85.96
80	19.39	334.45	91.25	91.25
90	9.01	343.46	93.71	93.71
100	8.85	352.31	96.13	96.12
110	8.19	360.50	98.36	98.36
120	4.82	365.32	99.68	99.67
130	1.19	366.51	100.00	100.00

Luminaire KHFEELUX

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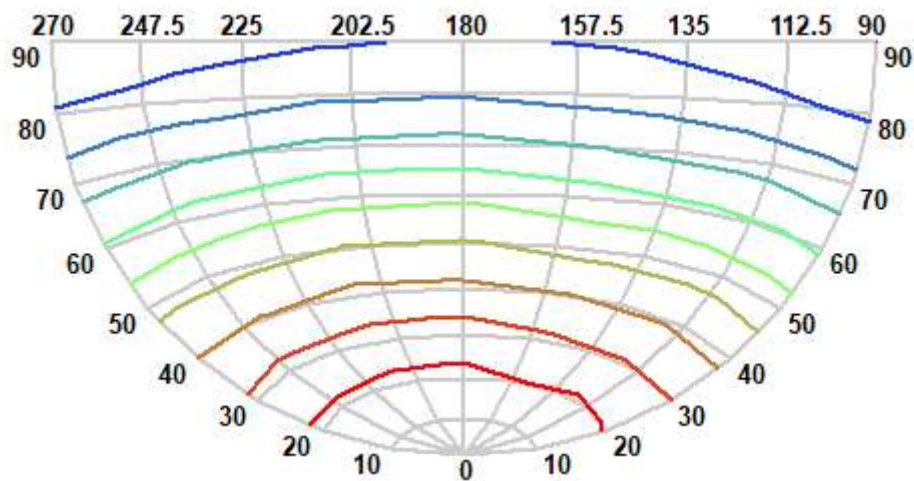
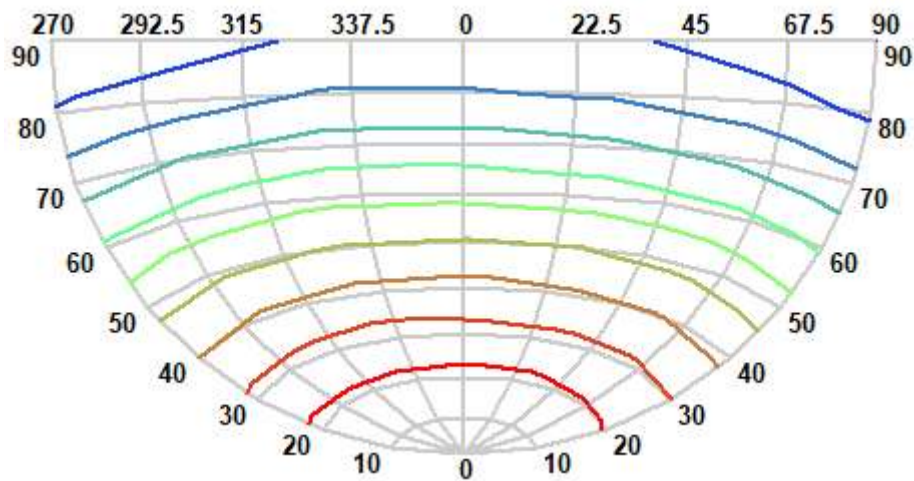
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IsoCandela (Type C)



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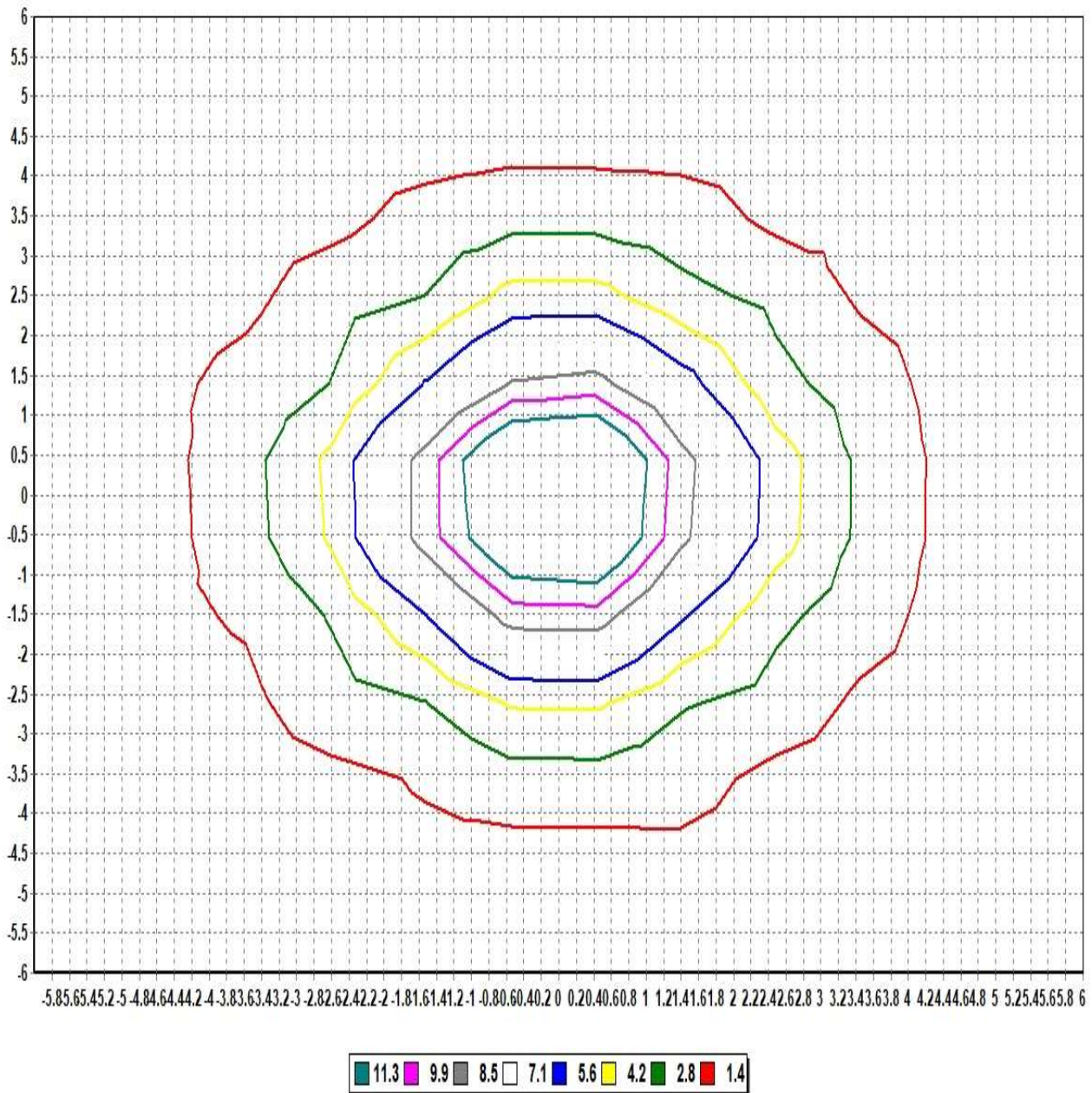
Total flux (lm) 367

Power Factor

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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KHFEELUX

Lamp

Report

220524

No. of lamps 1

Voltage (V)

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Lamp flux (lm) 367

Current (A)

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YKI

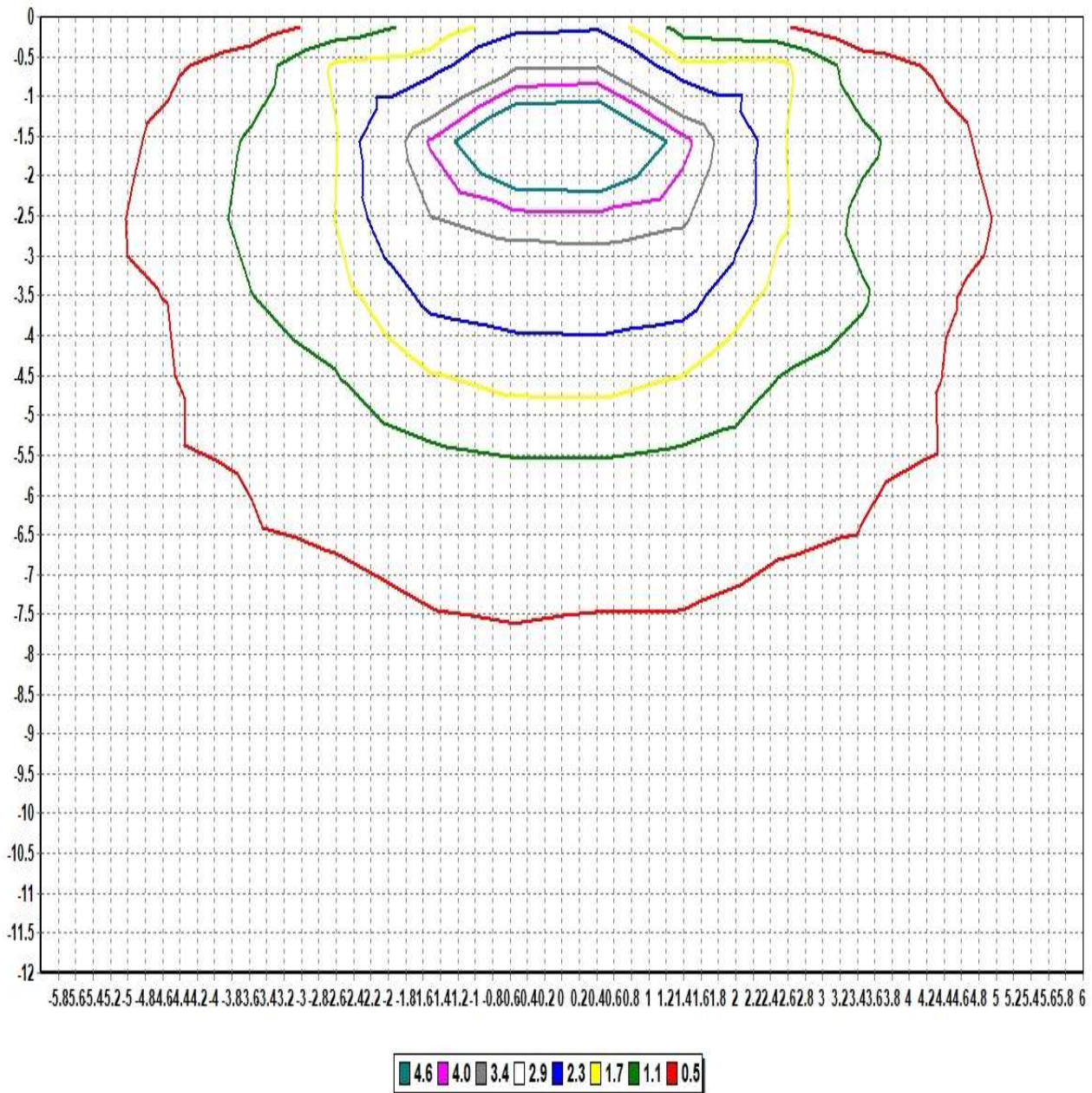
Total flux (lm) 367

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)	120.39
Lamp flux (lm)	367	Current (A)	0.04324
Total flux (lm)	367	Power Factor	0.9953

Report

220524

Filename NDF5 27K-120V F2203 VER1.1 28LM9.jdt

Operator

YKI

Date

2022-05-24 오후 5:17:40

Illuminance Levels (Ground)

6.00	0.16	0.21	0.16	0.24	0.29	0.34	0.32	0.32	0.33	0.28	0.20	0.23	0.19
5.00	0.23	0.19	0.26	0.36	0.72	0.86	0.88	0.85	0.77	0.41	0.31	0.25	0.25
4.00	0.20	0.31	0.61	0.88	0.94	1.19	1.25	1.18	1.02	0.94	0.69	0.35	0.24
3.00	0.25	0.43	0.93	1.08	2.17	2.43	2.69	2.58	2.26	1.22	0.99	0.48	0.29
2.00	0.31	0.74	0.95	2.25	3.13	5.02	5.92	5.21	3.39	2.37	1.04	0.79	0.35
1.00	0.40	0.92	1.31	2.48	5.04	9.16	12.66	9.45	5.24	2.64	1.35	0.94	0.42
0.00	0.43	1.00	1.47	3.00	6.34	12.91	15.93	12.93	6.34	3.01	1.47	1.00	0.44
-1.00	0.38	0.91	1.30	2.66	5.33	9.57	12.77	9.37	5.24	2.61	1.35	0.94	0.42
-2.00	0.35	0.80	1.06	2.36	3.40	5.31	6.13	5.21	3.27	2.36	1.02	0.78	0.35
-3.00	0.29	0.47	1.00	1.25	2.28	2.61	2.82	2.54	2.26	1.14	0.99	0.48	0.27
-4.00	0.23	0.34	0.69	0.95	1.05	1.23	1.32	1.23	1.00	0.93	0.65	0.34	0.23
-5.00	0.26	0.24	0.32	0.43	0.79	0.87	0.92	0.88	0.76	0.39	0.29	0.21	0.25
-6.00	0.19	0.24	0.21	0.28	0.34	0.35	0.35	0.36	0.32	0.27	0.18	0.23	0.17
-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.) : 15.927

Illum. (Min.) : 0.1617

Illum. (Avg.) : 1.8396

All illuminance level values are in lux.



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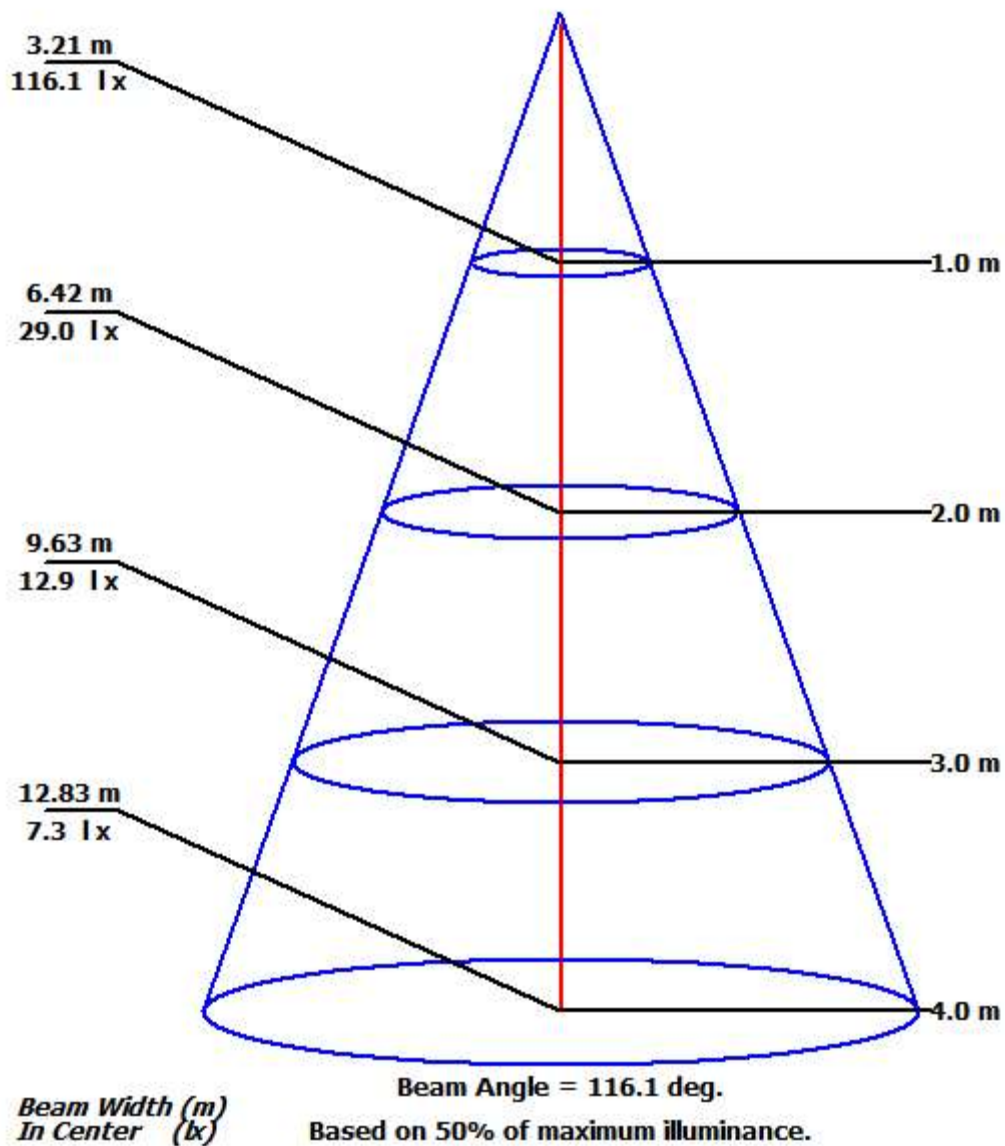
Total flux (lm) 367

Power Factor

0.9 Date

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Illuminance Cone Diagram



Luminaire KHFEELUX

Lamp

Report

220524

No. of lamps 1

Voltage (V) 120.39

Filename NDF5 27K-120V F2203 VER1.1 28LM9.jdt

Lamp flux (lm) 367

Current (A) 0.04324

Operator YKI

Total flux (lm) 367

Power Factor 0.9953

Date 2022-05-24 오후 5:17:40

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