

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 :** / NDF20 27K-120V ST2204 VER1.1 28NS9**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	%	9.8	
CIE 1931 Cx, Cy		0.4587 , 0.4060	
Correlated Color Temperature	K	2677	
Ra		92.82	
Power Factor		0.995	
Input Voltage	V	120.32	
Input Current	A	0.171	
Input Watt	W	20.471	
Lamp Flux	lm	1518.5	
Efficient	lm/W	74.18	
luminous Intensity (Max , Center)	cd	488 , 488	
Illuminance	lx	488	1 m
		122	2 m
		54	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)

Filename NDF20 27K-120V ST2204 VER1.1 28NS9.jdt

Lamp flux (lm) 1519

Current (A)

0.Operator

YKI

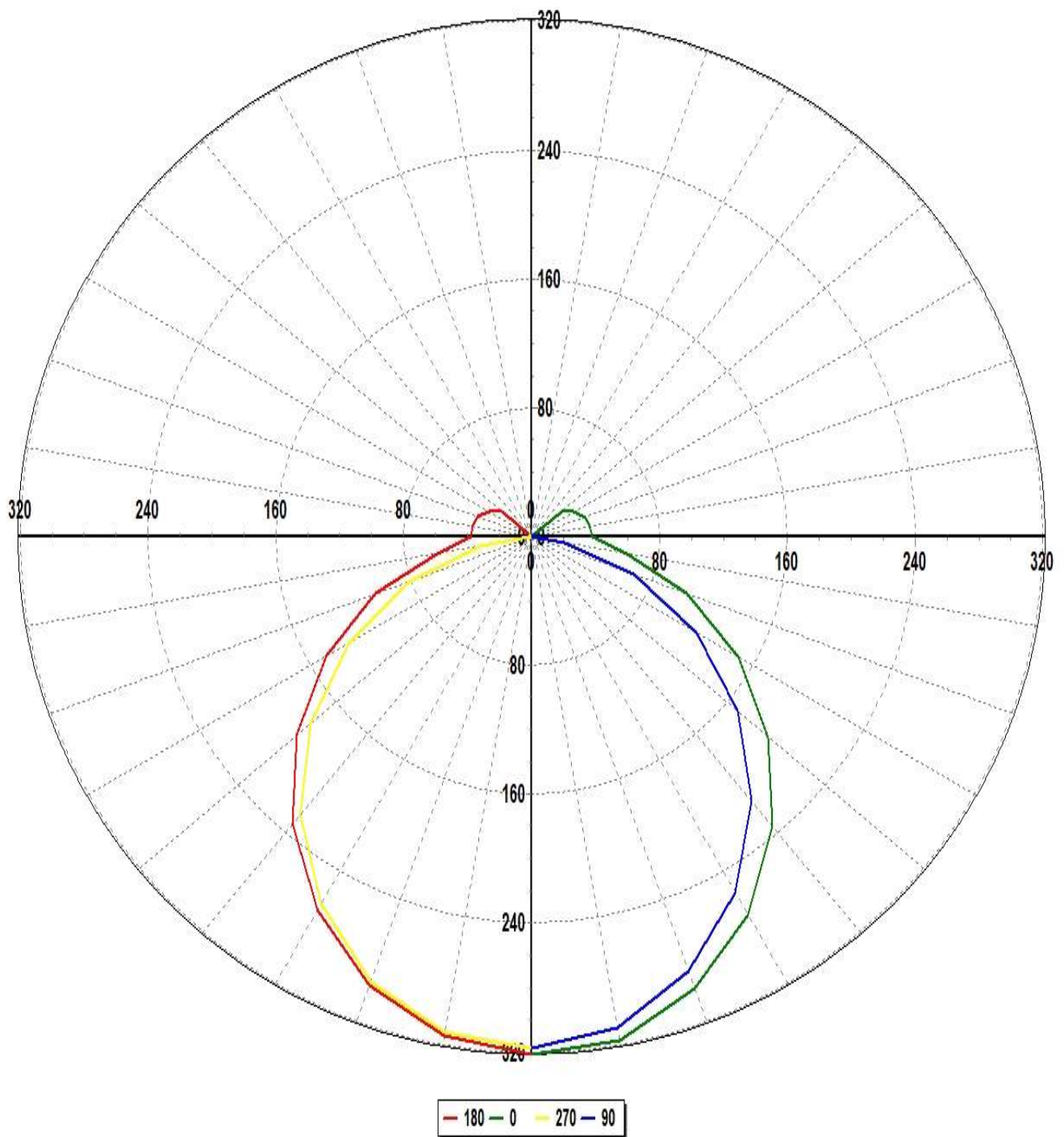
Total flux (lm) 1519

Power Factor

(Date:2

2022-05-24 오후 5:54:46

Luminous Intensity Distribution



Luminaire KHFEELUX

Lamp

Report

220524

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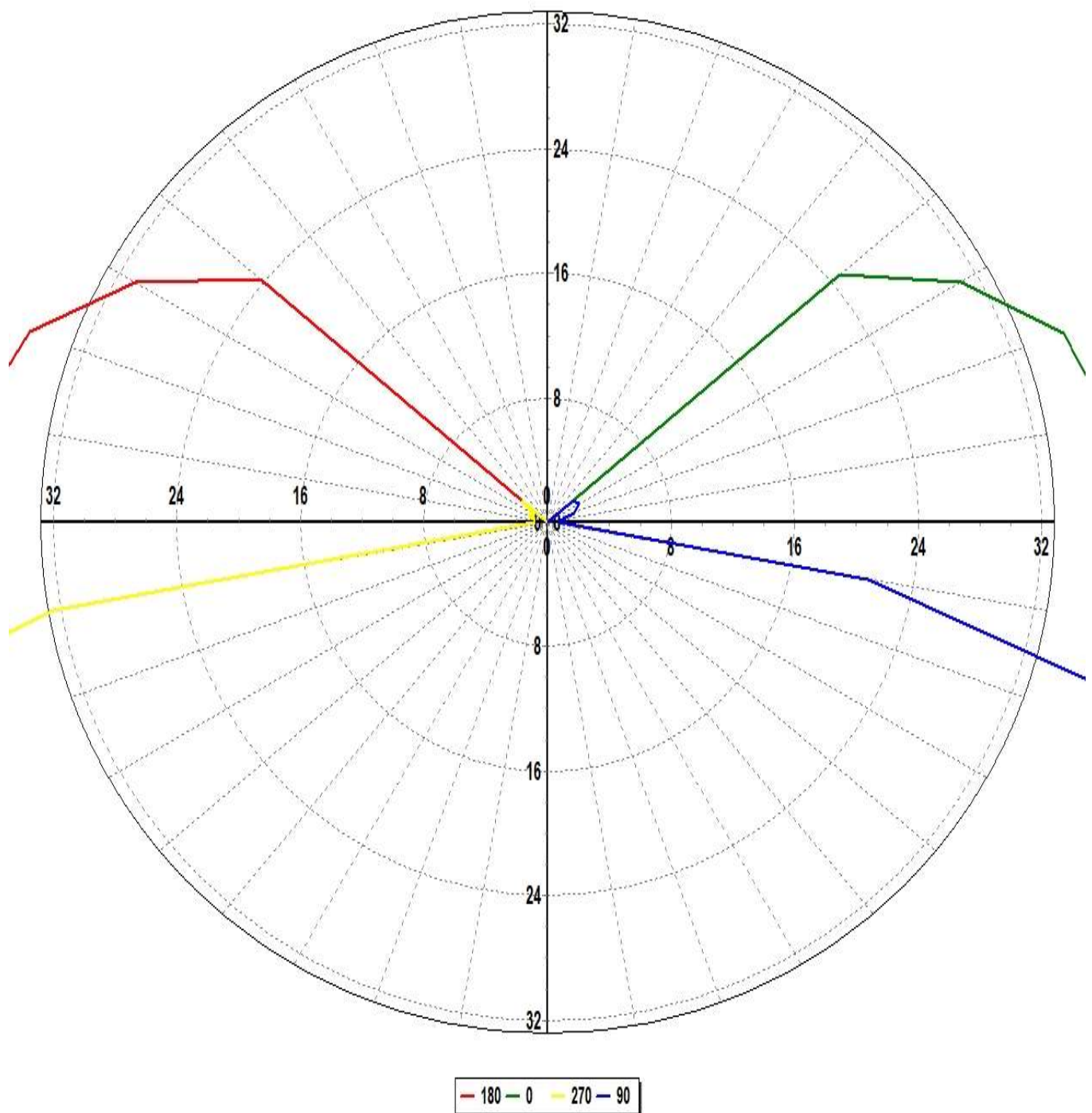
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Luminous Intensity Distribution (Lowest 10%)



Luminaire KHFEELUX

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YKI

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Luminous Intensity Data

Maximum (cd) : 488

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	488.12	484.83	483.82	482.24	481.74	481.25	488.12	484.83	483.82	482.24	481.74
10	482.31	477.22	473.06	469.5	468.33	469.37	478.27	477.27	475.65	474.22	475.42
20	453.64	448.53	442.91	436.08	437.44	438.54	450.59	449.32	446.82	446.31	449.19
30	411.18	403.02	396.22	387.06	388.69	392.32	407.12	405.94	401.72	400.42	405.62
40	355.79	347.35	337.77	325.23	330.92	336.76	352.86	352	344.43	342.33	348.08
50	293.7	284.26	270.85	255.44	265.71	274.64	290.81	290.56	280.77	273.79	283.66
60	227.51	216.16	199.17	180.64	195.48	207.2	225.52	223.79	210.69	200.37	214.96
70	157.02	145.41	125.57	103.4	121.59	139.11	157.3	153.4	137.44	124.13	142.24
80	91.65	79.45	56.31	32.01	54.51	75.11	91.51	86.73	67.05	49.39	70.4
90	57.56	48.26	24.68	1.11	25.07	48.68	57.61	48.12	25.7	1.23	25.53
100	56.1	47.35	25.22	1.55	25.82	47.84	57.15	47.88	25.23	1.31	25.07
110	54.01	44.74	16.72	2.8	17.72	45.67	54.15	46.01	23.01	1.93	24.67
120	46.93	35.15	3.56	3.57	3.39	35.33	46.76	36.06	3.02	1.65	2.74
130	37.49	17.9	10.37	3.34	11.23	17.11	36.89	25.58	9.44	3.29	11.82

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0.Operator

YKI

Total flux (lm) 1519

Power Factor

(Date)2

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Luminous Intensity Data (Continued)

Maximum (cd) : 488

Minimum (cd) : 1

G/C	330	360
0	481.25	488.12
10	476.86	482.31
20	452.09	453.64
30	409.52	411.18
40	356.81	355.79
50	295.29	293.7
60	229.13	227.51
70	158.92	157.02
80	90.83	91.65
90	47.39	57.56
100	47.17	56.1
110	44.87	54.01
120	35.85	46.93
130	26.13	37.49

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Luminous Flux Table

Total Lamp Lumens: 1518.5

Luminaire Efficiency (lm/W): 74.18

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	11.56	11.56	0.76	0.76
10	90.30	101.86	6.71	6.71
20	167.05	268.91	17.71	17.71
30	219.45	488.36	32.16	32.16
40	242.31	730.68	48.12	48.12
50	234.88	965.56	63.59	63.59
60	200.02	1165.58	76.76	76.76
70	142.84	1308.43	86.17	86.17
80	75.95	1384.37	91.17	91.17
90	37.51	1421.88	93.64	93.64
100	36.64	1458.52	96.05	96.05
110	32.27	1490.79	98.18	98.18
120	20.08	1510.87	99.50	99.50
130	7.63	1518.50	100.00	100.00

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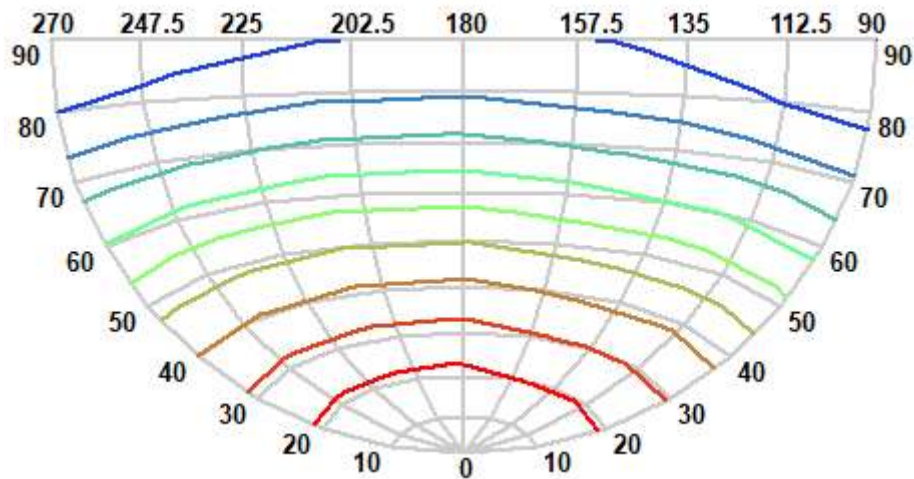
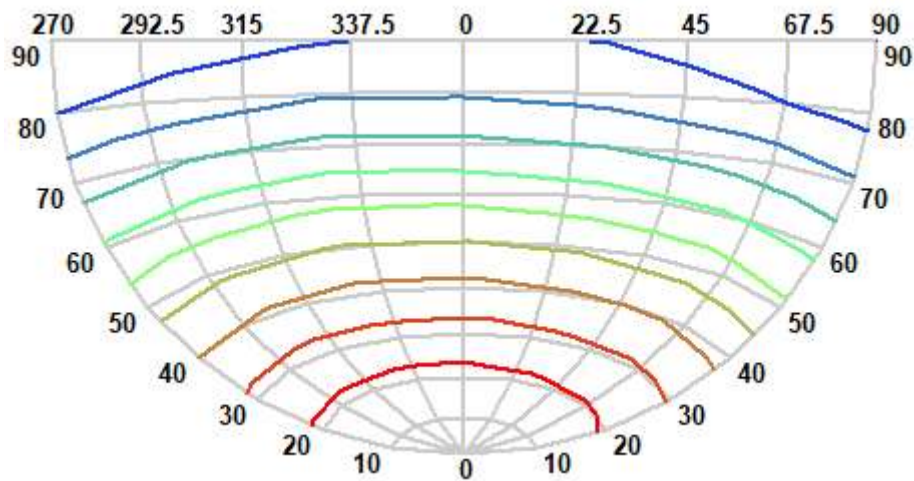
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IsoCandela (Type C)



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Current (A)

0.Operator

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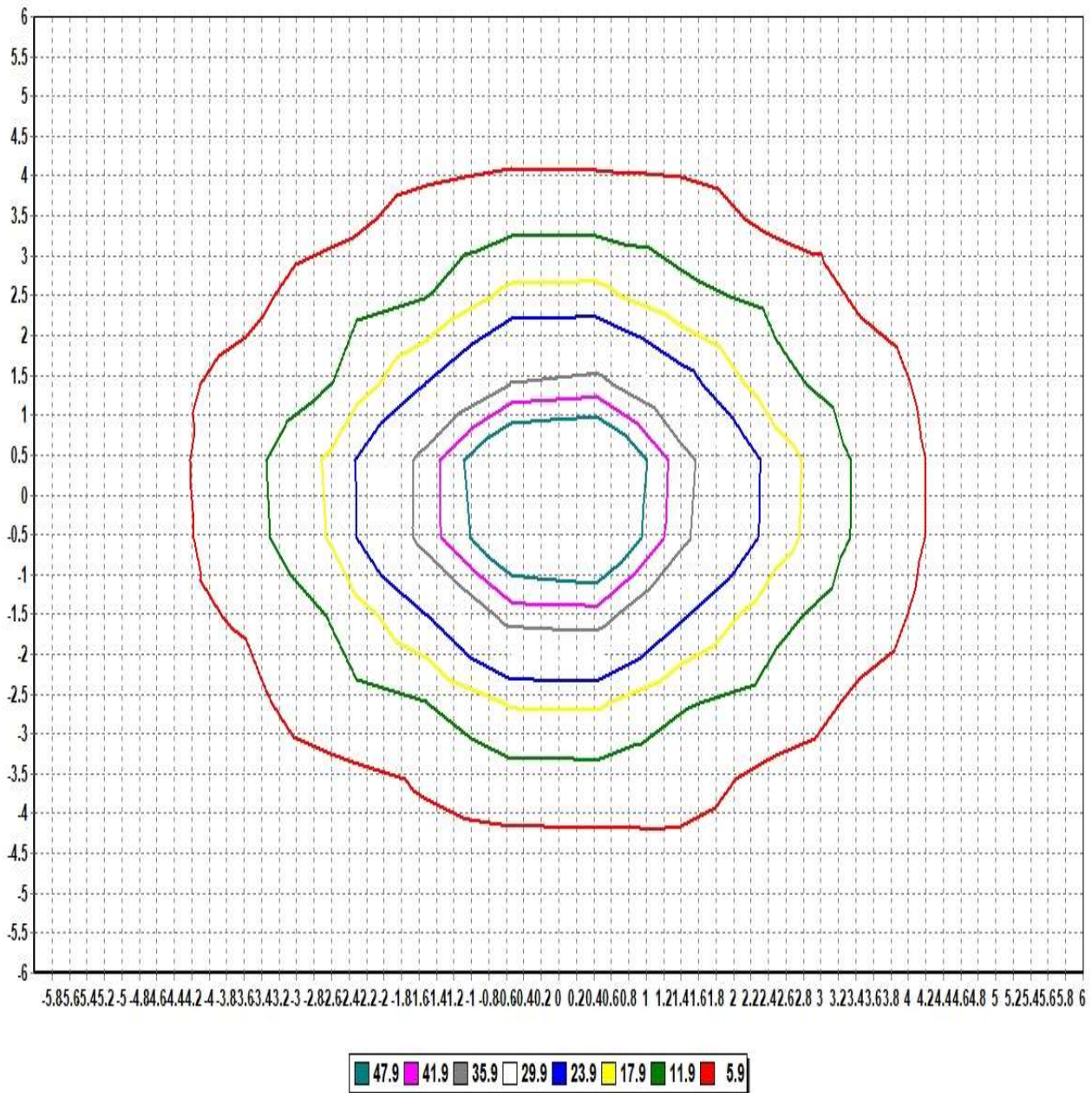
Total flux (lm) 1519

Power Factor

(Date:2

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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) 1519

Current (A)

0.Operator

YKI

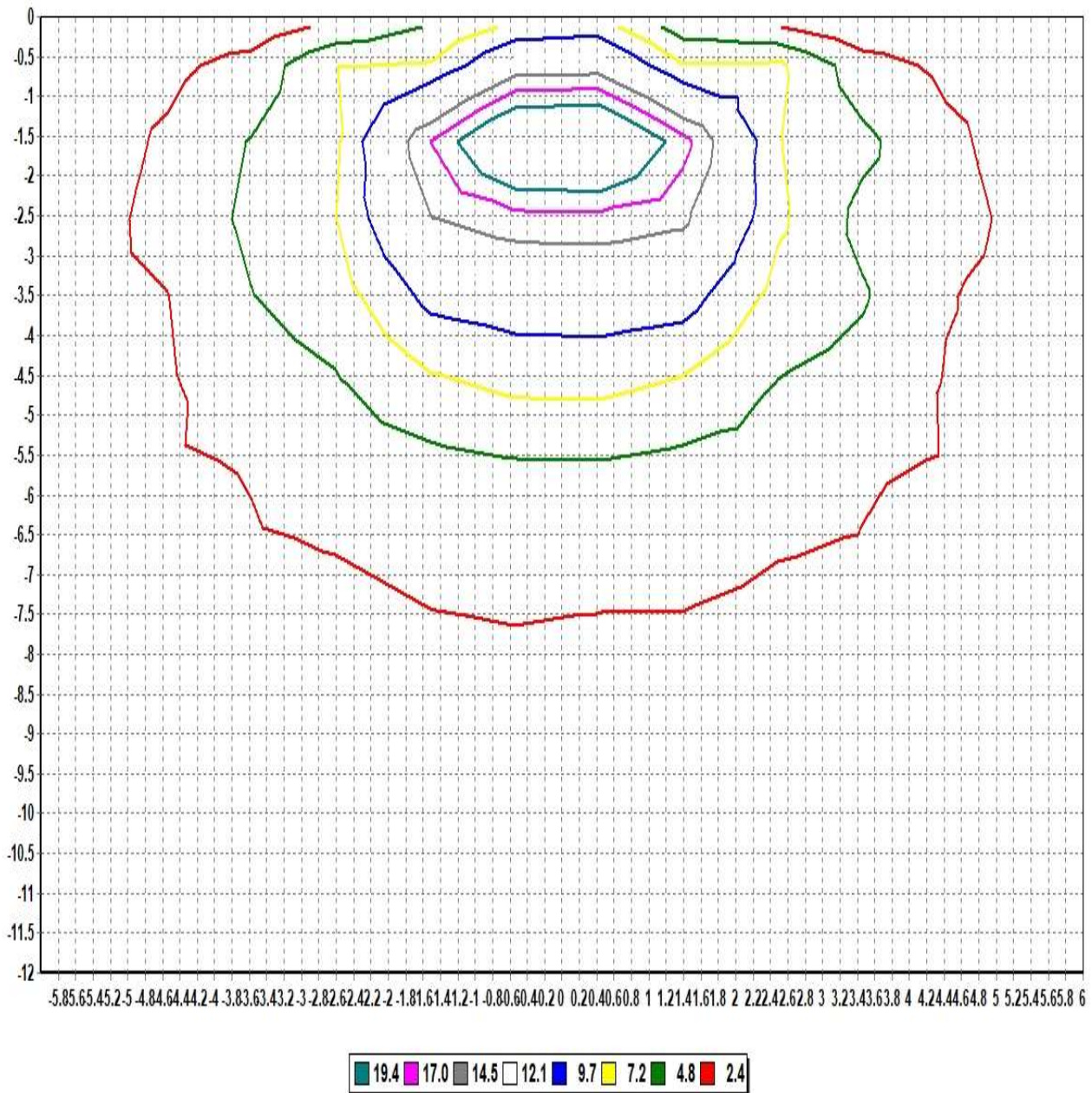
Total flux (lm) 1519

Power Factor

(Date)2

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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)	120.32
Lamp flux (lm)	1519	Current (A)	0.17095
Total flux (lm)	1519	Power Factor	0.9952

Report

220524

Filename NDF20 27K-120V ST2204 VER1.1 28NS9.jdt

Operator

YKI

Date

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Illuminance Levels (Ground)

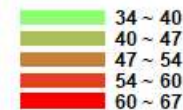
6.00	0.65	0.85	0.65	0.96	1.15	1.36	1.29	1.29	1.33	1.12	0.78	0.95	0.78
5.00	0.94	0.74	1.05	1.44	2.95	3.51	3.58	3.46	3.18	1.65	1.22	0.98	1.04
4.00	0.83	1.24	2.50	3.62	3.82	4.83	5.06	4.80	4.20	3.86	2.84	1.40	0.94
3.00	0.98	1.75	3.85	4.37	8.98	9.95	11.06	10.60	9.39	5.06	4.13	1.94	1.15
2.00	1.25	3.02	3.88	9.34	12.89	20.83	24.68	21.83	14.09	9.90	4.26	3.26	1.43
1.00	1.63	3.81	5.37	10.23	20.91	38.08	52.99	39.81	21.96	10.93	5.63	3.95	1.70
0.00	1.76	4.12	6.05	12.45	26.46	54.00	66.96	54.45	26.69	12.57	6.10	4.16	1.77
-1.00	1.57	3.75	5.35	11.03	22.19	39.74	53.54	39.43	22.01	10.94	5.63	3.94	1.70
-2.00	1.47	3.31	4.38	9.84	14.15	22.13	25.80	21.91	13.69	9.93	4.25	3.26	1.42
-3.00	1.19	1.94	4.12	5.12	9.61	10.89	11.80	10.63	9.50	4.78	4.15	1.96	1.13
-4.00	0.95	1.42	2.86	4.00	4.35	5.15	5.52	5.16	4.19	3.89	2.71	1.40	0.95
-5.00	1.05	1.01	1.31	1.76	3.27	3.67	3.85	3.70	3.18	1.64	1.21	0.87	1.04
-6.00	0.80	1.00	0.85	1.18	1.41	1.45	1.48	1.49	1.31	1.10	0.77	0.95	0.73
-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.) : 66.958

Illum. (Min.) : 0.6487

Illum. (Avg.) : 7.6628

All illuminance level values are in lux.



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Lamp

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Current (A)

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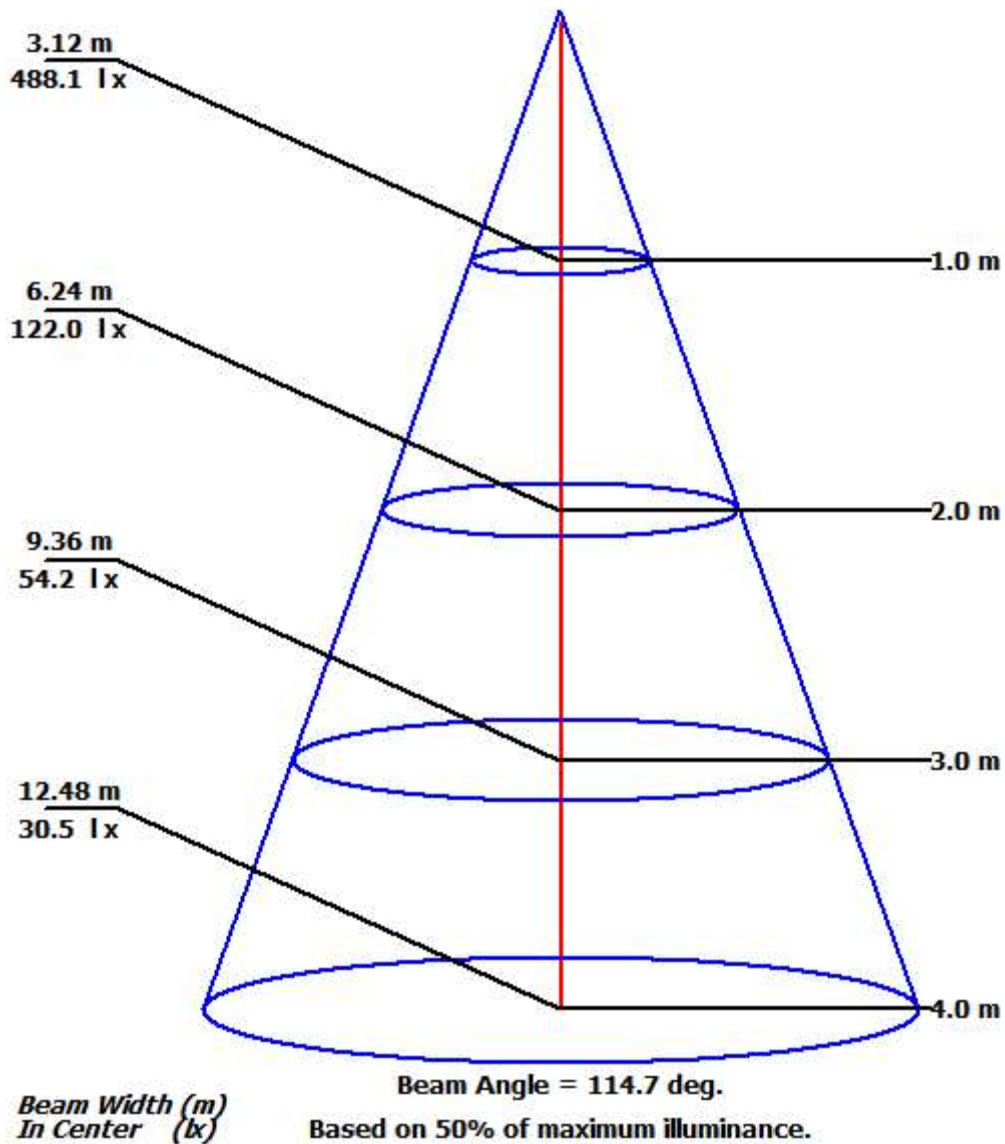
Total flux (lm) 1519

Power Factor

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Illuminance Cone Diagram



Luminaire KHFEELUX

Lamp

Report

220524

No. of lamps 1

Voltage (V) 120.32

Filename NDF20 27K-120V ST2204 VER1.1 28NS9.jdt

Lamp flux (lm) 1519

Current (A) 0.17095

Operator YKI

Total flux (lm) 1519

Power Factor 0.9952

Date 2022-05-24 오후 5:54:46

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