

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 : 220311

2. Purpose of Report :**3. Number of Report :** 220311**4. Test Standard / Item :** / NDF20 40K-120V FLICKERFREE 28LM9**5. Test Period :** 220311 ~ 220311**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
220311			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	23.5	
CIE 1931 Cx, Cy		0.3852 , 0.3745	
Correlated Color Temperature	K	3857	
Ra		94.61	
Power Factor		0.973	
Input Voltage	V	120.31	
Input Current	A	0.175	
Input Watt	W	20.45	
Lamp Flux	lm	1521.3	
Efficient	lm/W	74.39	
luminous Intensity (Max , Center)	cd	460 , 460	
Illuminance	lx	460	1 m
		115	2 m
		51	3 m

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

220311

No. of lamps 1

Voltage (V)

1Filename NDF20 40K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 1521

Current (A)

0.1Operator

YKI

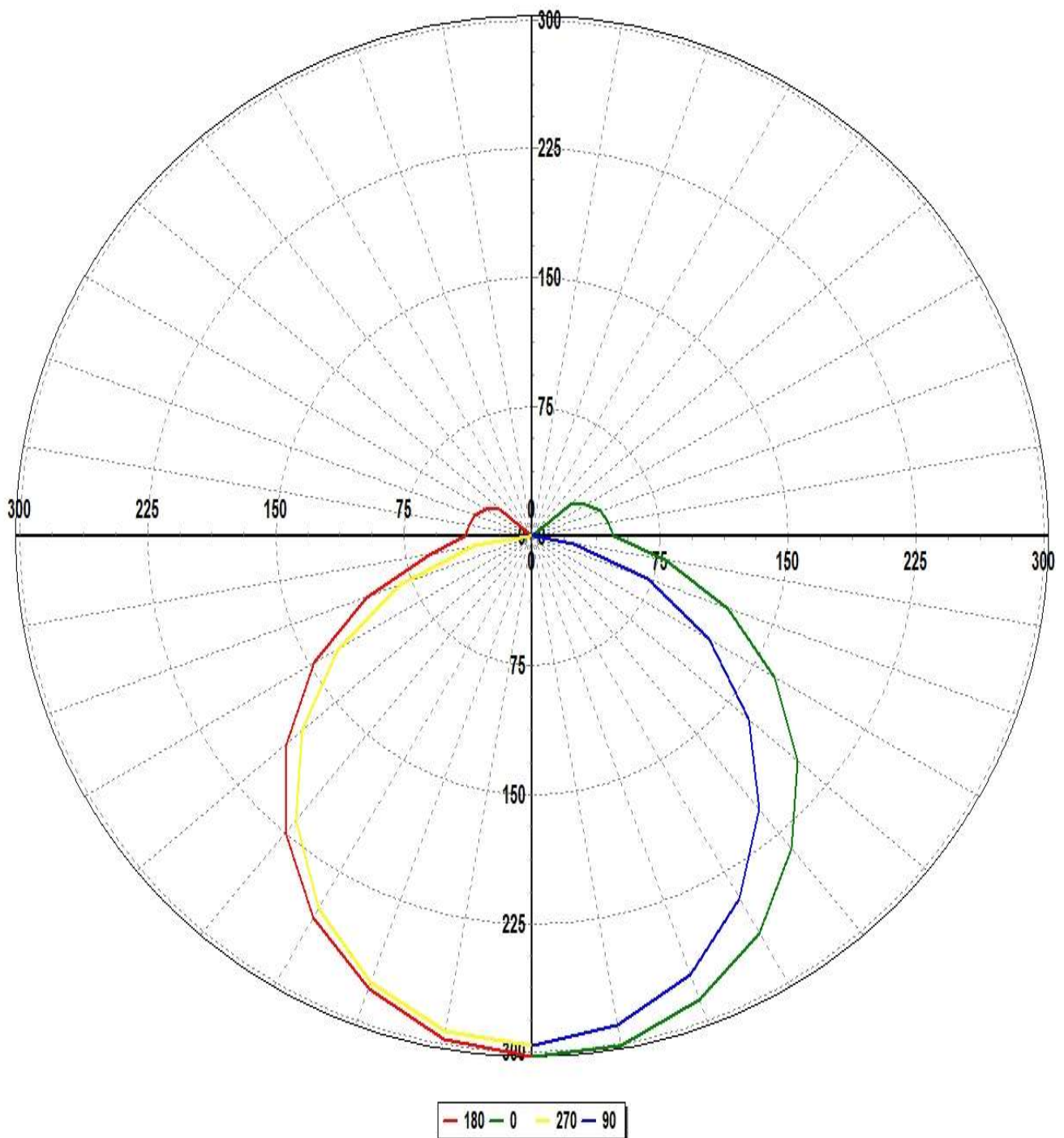
Total flux (lm) 1521

Power Factor

0Date2

2022-03-11 오전 11:19:18

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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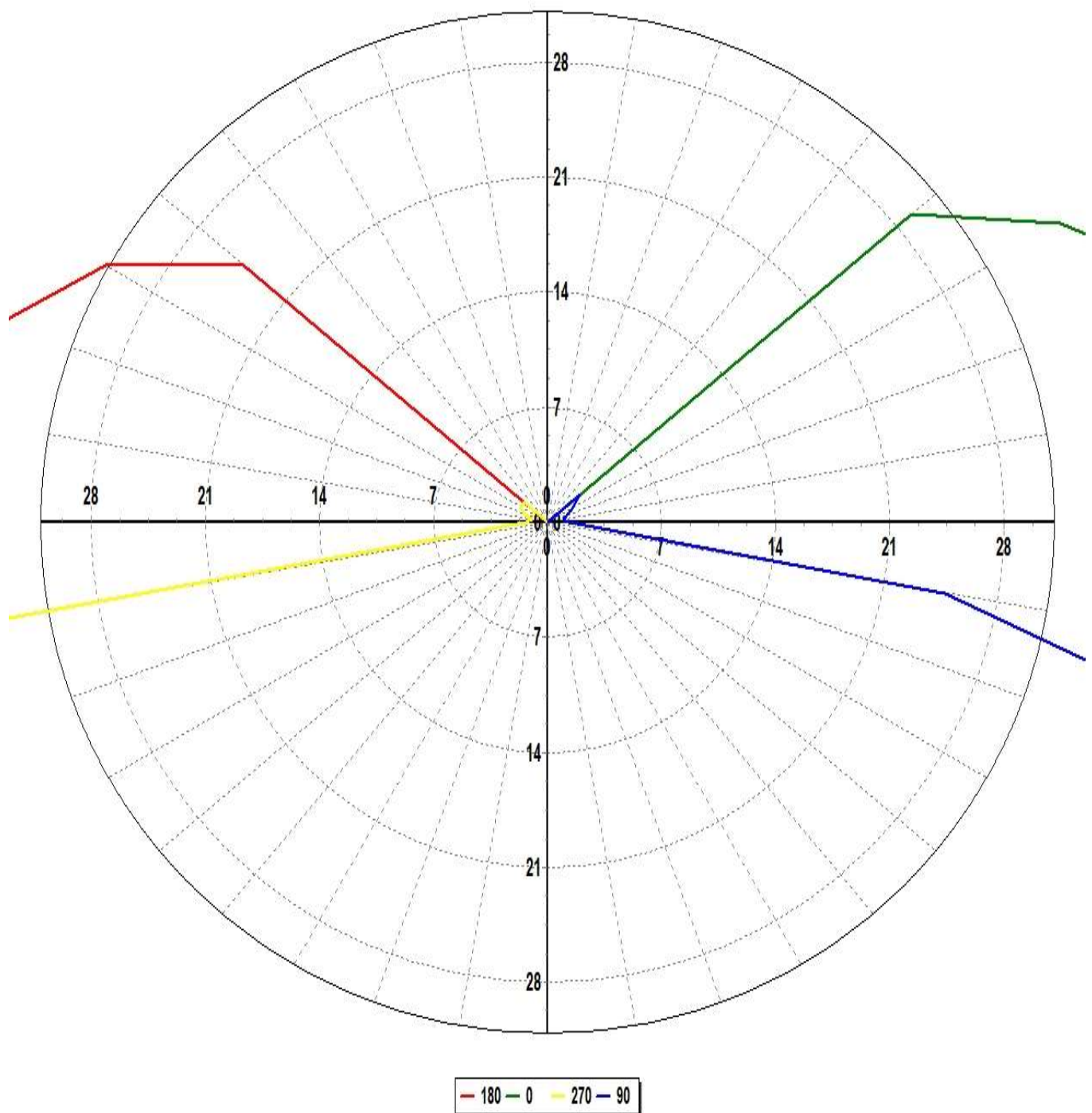
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Power Factor

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Luminous Intensity Distribution (Lowest 10%)



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Power Factor

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Luminous Intensity Data

Maximum (cd) : 460

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	460	457.42	454.22	450.38	447.34	447.97	460	457.42	454.22	450.38	447.34
10	456.52	451.03	444.4	438.37	436.19	434.39	450.85	447.3	443.94	444.47	444.19
20	436.36	427.96	420.58	411.67	410.71	408.99	425.19	423.73	420.97	420.1	421.49
30	404.96	392.71	380.75	369.92	370.05	369.17	388.84	387.4	380.92	380.54	384.55
40	360.18	347.64	330.06	314.4	318.63	322.77	341.85	339.25	330.61	327.23	336.95
50	309.19	294.41	272.11	252.36	258.72	266.04	285.74	283.5	272.69	266.89	280.65
60	250.2	233.17	206.34	182.06	192.92	204.92	223.81	221.84	207.44	199.37	217.74
70	185.45	166.73	136.92	109.4	125.01	138.34	157.08	152.56	137.08	125.15	149.42
80	120.83	102.13	68.99	37.67	56.73	76.02	92.89	87.32	67.29	51.93	80.85
90	73.3	59.08	29.8	1.98	26.12	48.88	59.63	49.35	24.95	1.99	32.29
100	68.66	56.04	29.52	1.45	25.6	47.69	56.64	47.46	25.25	1.49	29.88
110	65.01	53.84	19.06	1.87	20.69	44.61	54.27	45.14	23.4	2.37	27.18
120	55.24	40.77	3.6	2.66	2.92	33.71	47.64	37.48	2.51	2.92	2.88
130	44.38	21.59	12.59	3.91	10.1	13.47	37.32	27.11	10.45	2.82	11.51

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0.1Operator

YKI

Total flux (lm) 1521

Power Factor

0Date2

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Luminous Intensity Data (Continued)

Maximum (cd) : 460

Minimum (cd) : 1

G/C	330	360
0	447.97	460
10	443.58	456.52
20	425.81	436.36
30	393.05	404.96
40	350.25	360.18
50	299.71	309.19
60	241.36	250.2
70	177.17	185.45
80	111.8	120.83
90	62.29	73.3
100	56.06	68.66
110	53.27	65.01
120	41.23	55.24
130	26.84	44.38

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Luminous Flux Table

Total Lamp Lumens: 1521.3

Luminaire Efficiency (lm/W): 74.39

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	10.83	10.83	0.71	0.71
10	84.56	95.39	6.27	6.27
20	157.75	253.14	16.64	16.64
30	210.05	463.19	30.45	30.45
40	235.83	699.01	45.95	45.95
50	233.66	932.68	61.31	61.31
60	204.02	1136.70	74.72	74.72
70	150.97	1287.67	84.64	84.64
80	85.79	1373.46	90.28	90.28
90	42.86	1416.32	93.10	93.10
100	40.07	1456.39	95.73	95.73
110	35.22	1491.62	98.05	98.05
120	21.62	1513.24	99.47	99.47
130	8.05	1521.29	100.00	100.00

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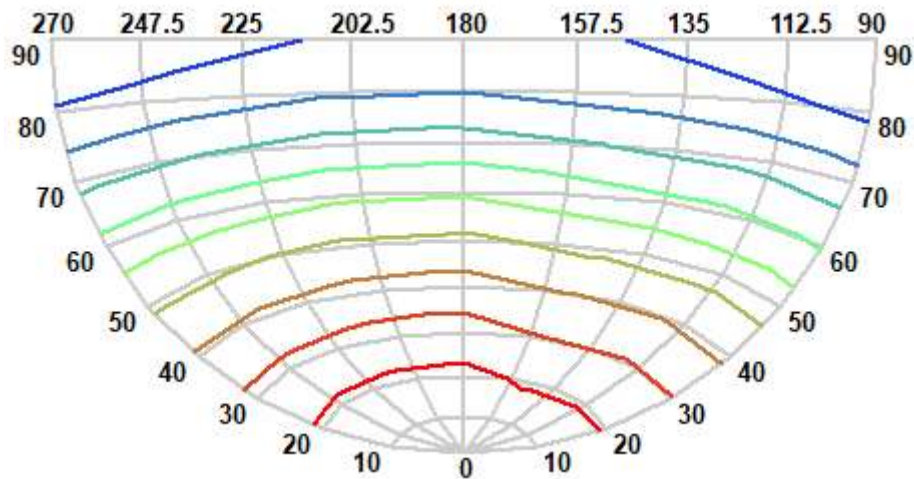
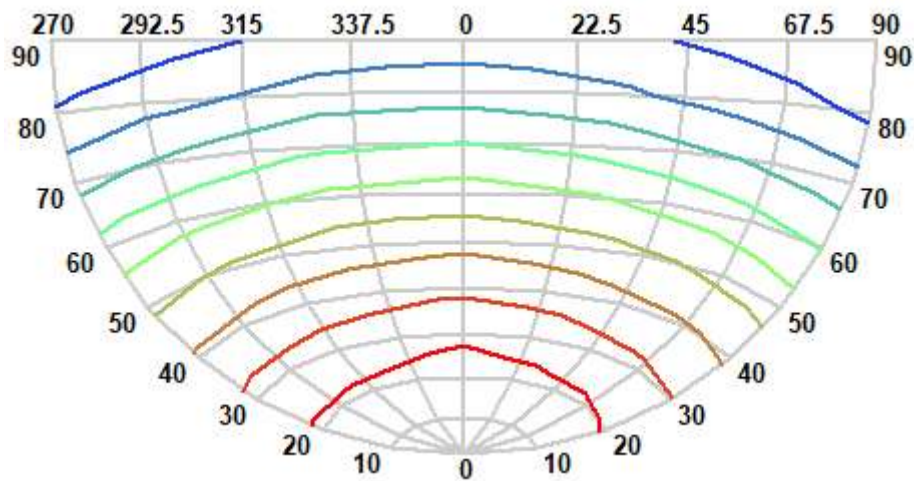
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IsoCandela (Type C)



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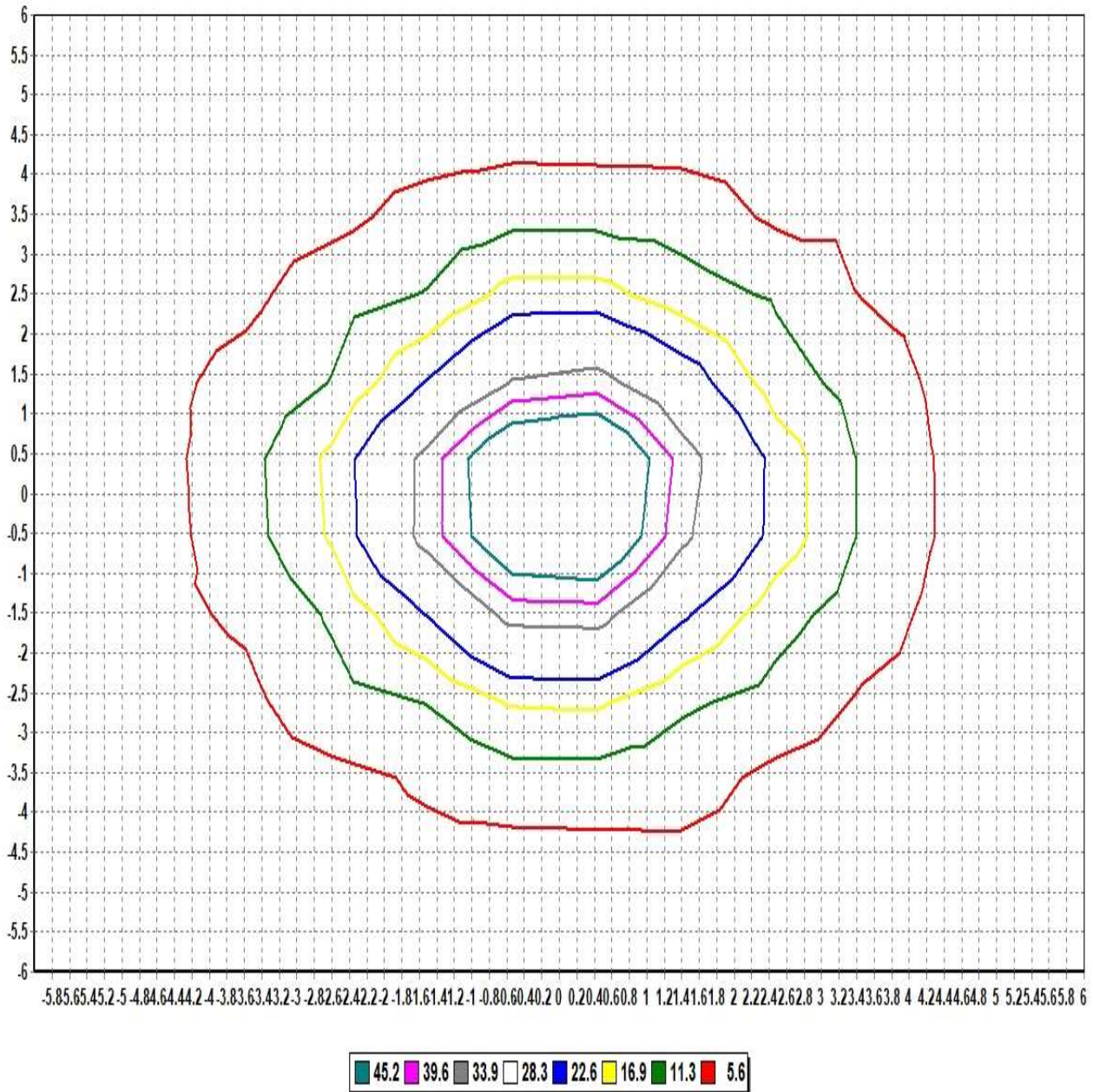
Total flux (lm) 1521

Power Factor

0Date2

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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 1521

Current (A)

0.1Operator

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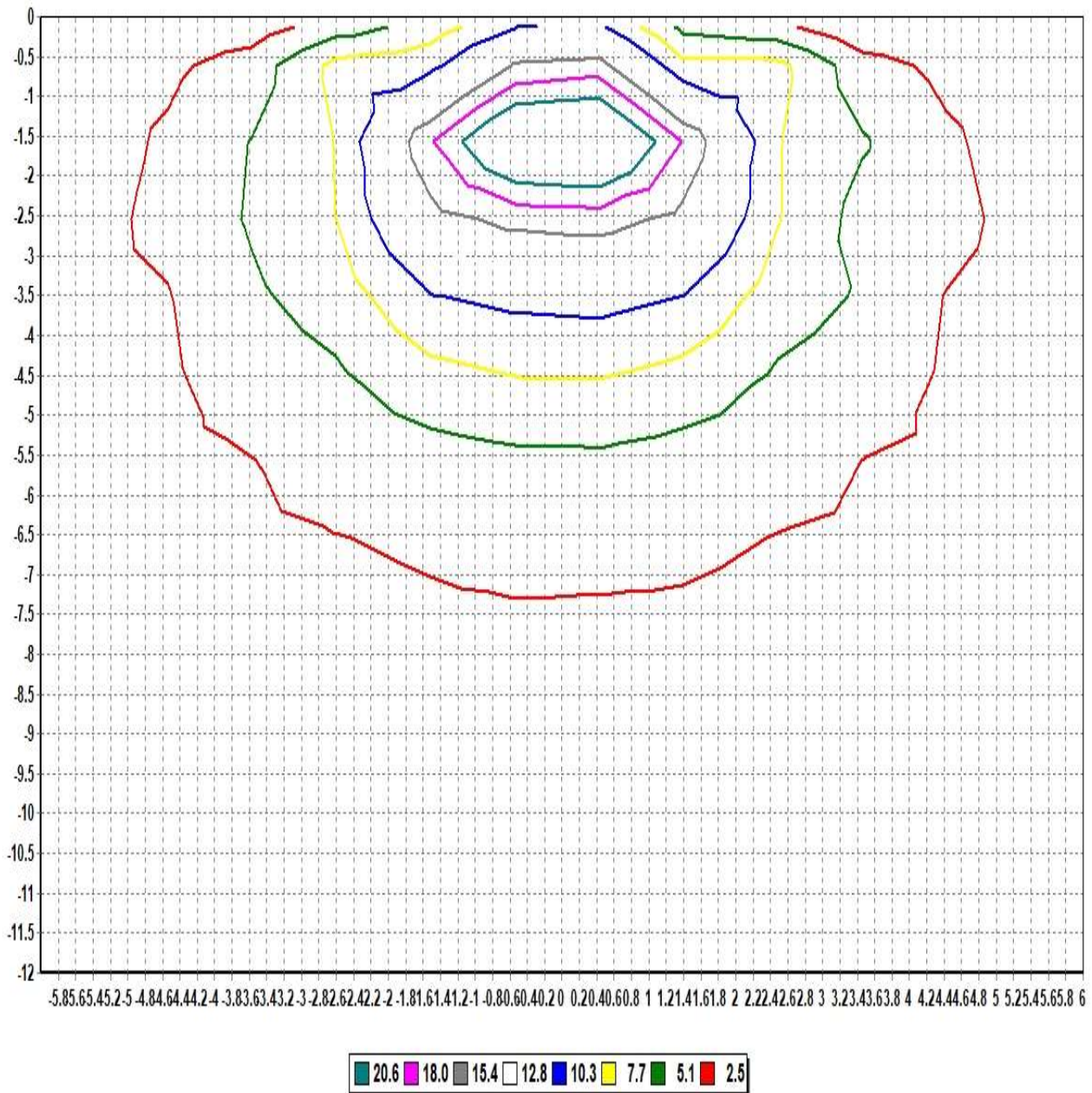
Total flux (lm) 1521

Power Factor

0Date2

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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 KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	120.31
Lamp flux (lm)	1521	Current (A)	0.17466
Total flux (lm)	1521	Power Factor	0.9732

Report	220311
Filename	NDF20 40K-120V FLICKERFREE 28LM9.jdt
Operator	YKI
Date	2022-03-11 오전 11:19:18

Illuminance Levels (Ground)

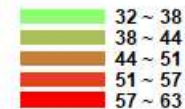
6.00	0.65	0.86	0.68	0.97	1.17	1.43	1.33	1.34	1.46	1.26	0.85	1.00	0.87
5.00	0.93	0.77	1.08	1.48	2.89	3.52	3.54	3.45	3.30	1.75	1.33	1.13	1.14
4.00	0.83	1.24	2.47	3.57	3.77	4.89	5.05	4.86	4.49	3.92	3.01	1.60	1.10
3.00	1.00	1.73	3.74	4.34	8.72	9.74	10.87	10.84	9.28	5.45	4.36	2.20	1.30
2.00	1.26	2.95	3.82	8.98	12.55	20.06	23.75	21.76	14.49	10.11	4.58	3.43	1.61
1.00	1.63	3.73	5.30	9.93	20.11	36.21	49.49	38.78	21.98	11.37	5.96	4.09	1.88
0.00	1.76	4.06	5.97	12.19	25.49	50.90	63.10	51.57	26.74	13.11	6.58	4.41	2.02
-1.00	1.56	3.66	5.27	10.78	21.39	37.83	50.19	37.34	21.32	10.92	5.98	4.12	1.91
-2.00	1.46	3.25	4.34	9.56	13.78	21.31	24.61	21.16	13.33	9.82	4.31	3.27	1.50
-3.00	1.19	1.93	4.05	5.05	9.26	10.59	11.45	10.45	9.14	4.77	4.20	2.11	1.18
-4.00	0.95	1.41	2.82	3.89	4.30	5.06	5.44	5.07	4.22	3.81	2.68	1.51	1.05
-5.00	1.04	1.00	1.30	1.75	3.20	3.59	3.77	3.61	3.15	1.65	1.23	0.89	1.09
-6.00	0.79	0.98	0.84	1.17	1.40	1.44	1.48	1.48	1.35	1.14	0.78	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.) : 63.101

Illum. (Min.) : 0.6539

Illum. (Avg.) : 7.4889

All illuminance level values are in lux.



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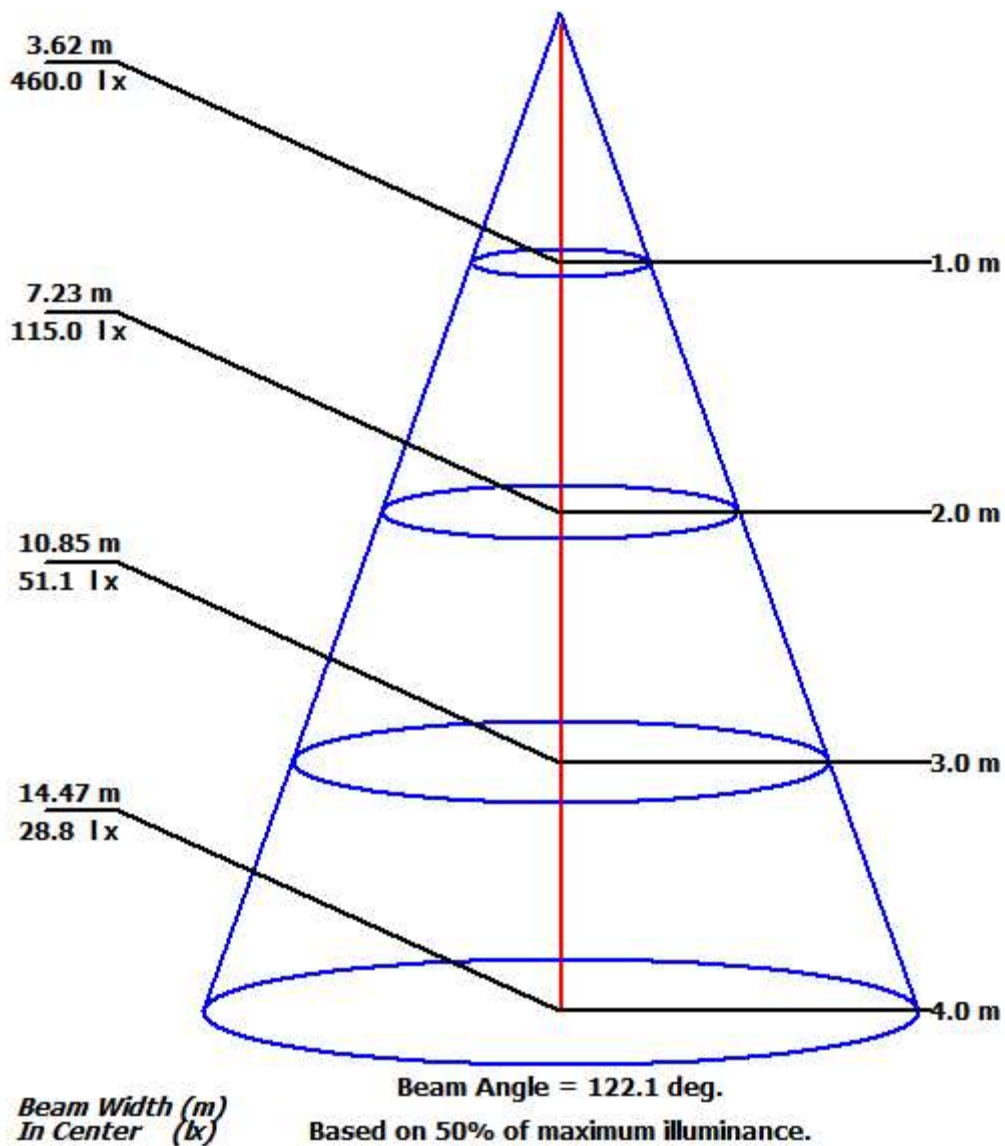
Total flux (lm) 1521

Power Factor

0Date2

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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

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No. of lamps 1

Voltage (V) 120.31

Filename NDF20 40K-120V FLICKERFREE 28LM9.jdt

Lamp flux (lm) 1521

Current (A) 0.17466

Operator YKI

Total flux (lm) 1521

Power Factor 0.9732

Date 2022-03-11 오전 11:19:18

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