

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 :** / NDF15 27K-120V ST2202 VER1.0 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		0.4584 , 0.4058	
Correlated Color Temperature	K	2680	
Ra		92.63	
Power Factor		0.995	
Input Voltage	V	120.35	
Input Current	A	0.130	
Input Watt	W	15.545	
Lamp Flux	lm	1143.7	
Efficient	lm/W	73.57	
luminous Intensity (Max , Center)	cd	362 , 362	
Illuminance	lx	362	1 m
		91	2 m
		40	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 NDF15 27K-120V ST2202 VER1.0 28NS9.jdt

Lamp flux (lm) 1144

Current (A)

0.Operator

YKI

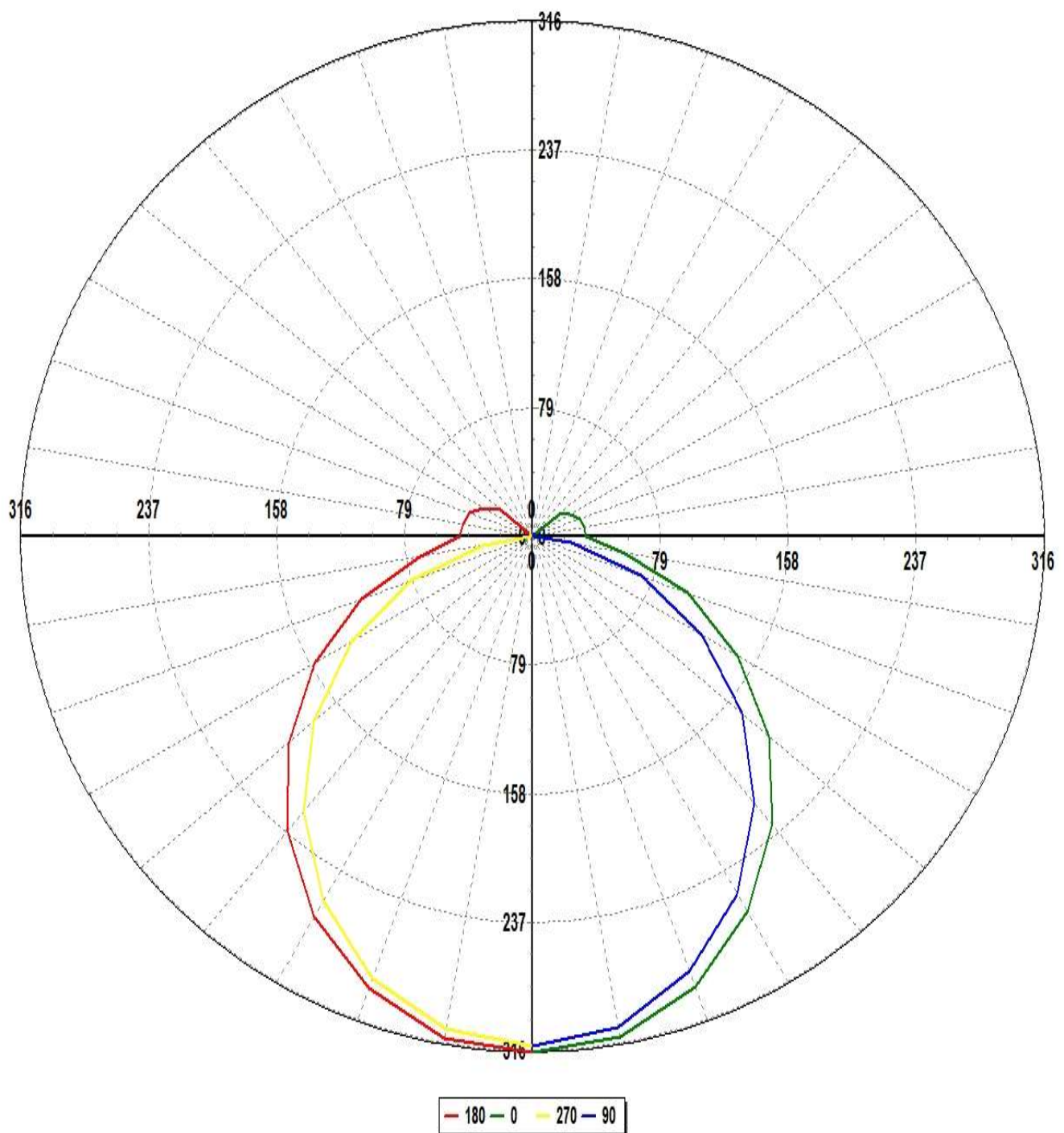
Total flux (lm) 1144

Power Factor

(Date:3

2022-05-24 오후 5:34:23

Luminous Intensity Distribution



Luminaire KHFEELUX

Lamp

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220524

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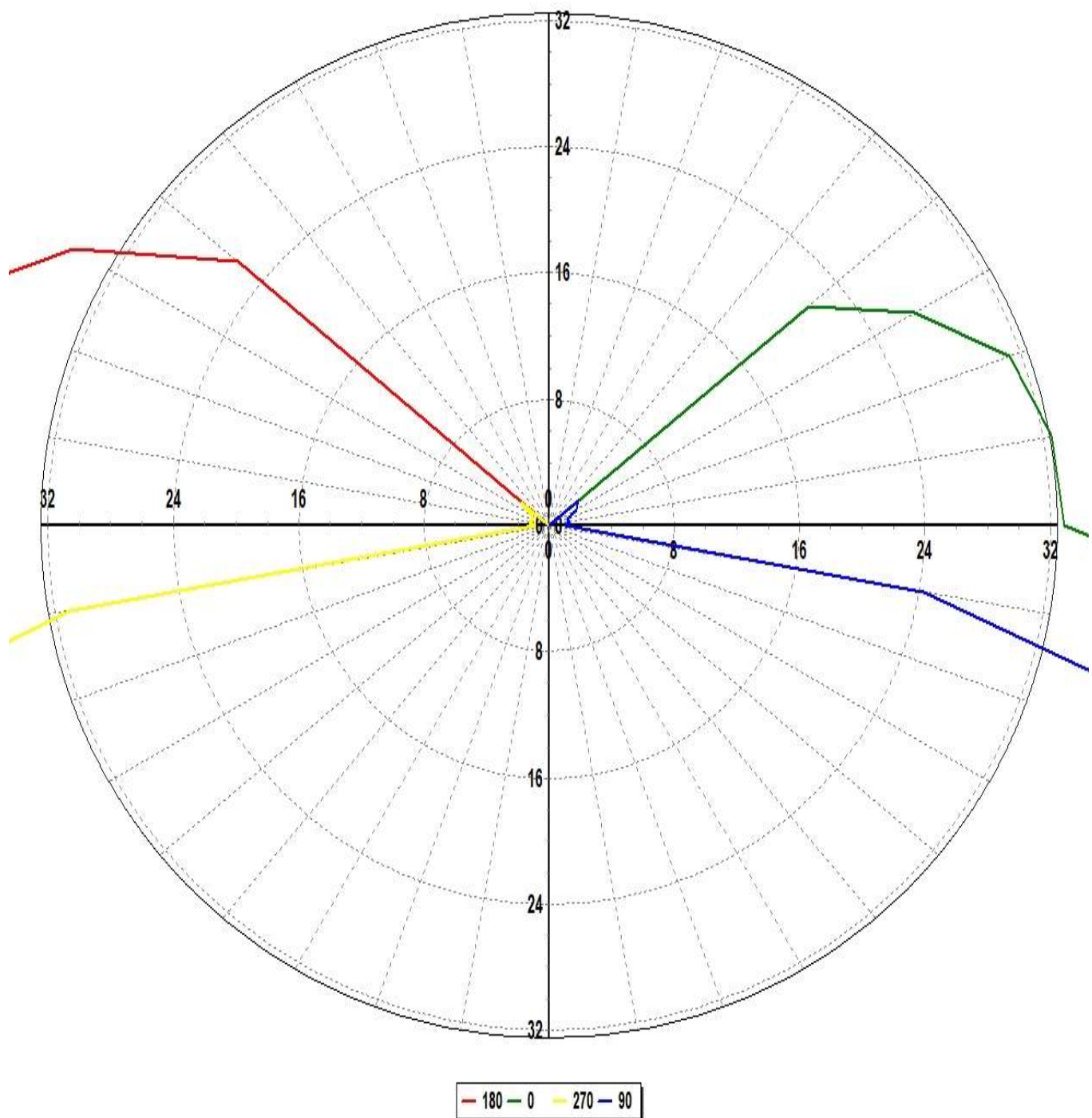
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(Date:3

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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) : 362

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	362.09	361.1	358.84	357.7	357.47	357.2	362.09	361.1	358.84	357.7	357.47
10	356.94	353.27	351.99	349.59	349.37	349.76	357.94	355.91	352.42	351.47	351.1
20	336.55	332.59	329.69	324.92	328.6	329.43	337.47	336.67	331.82	330.23	330.74
30	303.91	299.87	295.81	289.7	294.16	297.84	308.37	305.16	298.86	295.14	298.24
40	264	258.92	252.03	244.33	251.34	257.36	269.89	265.9	256.12	251.7	256
50	218.36	211.97	203.87	193.67	202.79	212.76	224.73	221.75	208.49	201.4	208.31
60	167.96	161.34	150.89	138.39	151.5	162.89	177.57	173.02	157.26	147.34	156.36
70	116.97	108.63	95.91	81.75	98.07	113.53	128.51	121.95	104.59	91.15	102.67
80	66.64	59.26	43.64	27.75	47.14	65.08	80.64	72.07	52.75	35.5	50.15
90	37.64	31.15	16.14	1.18	21.88	41.57	51.04	41.66	21.44	1.01	16.88
100	37.28	31.06	15.95	1.52	21.62	40.8	49.78	42.17	20.91	1.49	16.51
110	35.8	30.72	12.86	1.4	15.45	39.5	47.74	39.52	21.87	1.18	16.53
120	30.81	22.86	1.72	2.31	2.19	27.86	40.1	29.38	2	1.44	2.11
130	24.72	11.66	9.11	2.75	10.39	6.66	29.67	19.39	7.96	2.67	7.04

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Total flux (lm) 1144

Power Factor

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Luminous Intensity Data (Continued)

Maximum (cd) : 362

Minimum (cd) : 1

G/C	330	360
0	357.2	362.09
10	351.68	356.94
20	332.82	336.55
30	301.93	303.91
40	262.51	264
50	216.62	218.36
60	167.4	167.96
70	115.9	116.97
80	64.83	66.64
90	31.05	37.64
100	30.72	37.28
110	29.45	35.8
120	23.03	30.81
130	15.27	24.72

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Luminous Flux Table

Total Lamp Lumens: 1143.7

Luminaire Efficiency (lm/W): 73.57

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	8.58	8.58	0.75	0.75
10	67.06	75.65	6.61	6.61
20	124.29	199.94	17.48	17.48
30	163.78	363.72	31.80	31.80
40	181.29	545.00	47.65	47.65
50	176.52	721.52	63.09	63.09
60	151.12	872.64	76.30	76.30
70	109.75	982.39	85.90	85.90
80	59.81	1042.21	91.13	91.13
90	28.54	1070.74	93.62	93.62
100	27.85	1098.59	96.06	96.06
110	25.04	1123.63	98.25	98.25
120	14.69	1138.32	99.53	99.53
130	5.34	1143.66	100.00	100.00

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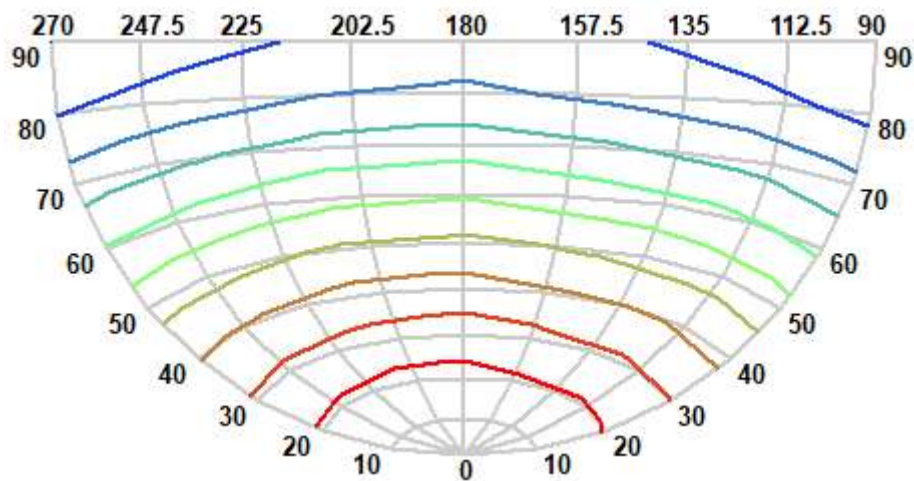
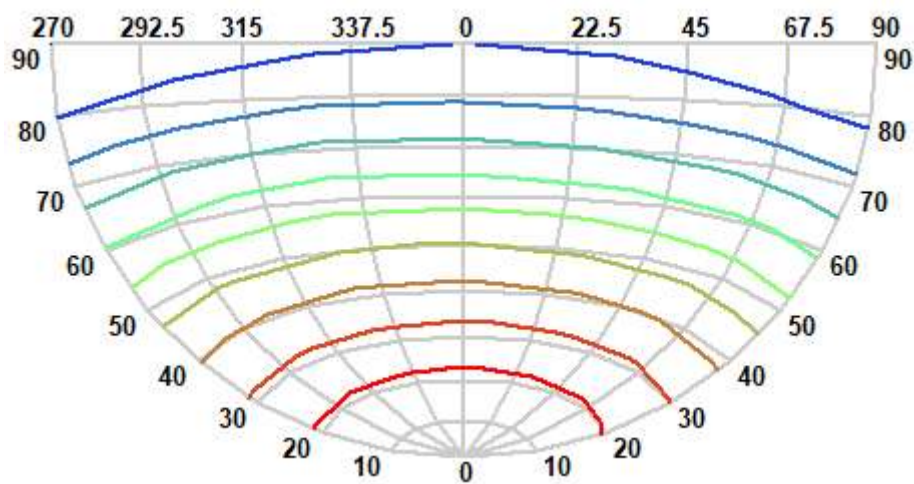
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IsoCandela (Type C)



 1 ~ 37
 37 ~ 73
 73 ~ 109
 109 ~ 145
 145 ~ 182

 182 ~ 218
 218 ~ 254
 254 ~ 290
 290 ~ 326
 326 ~ 362

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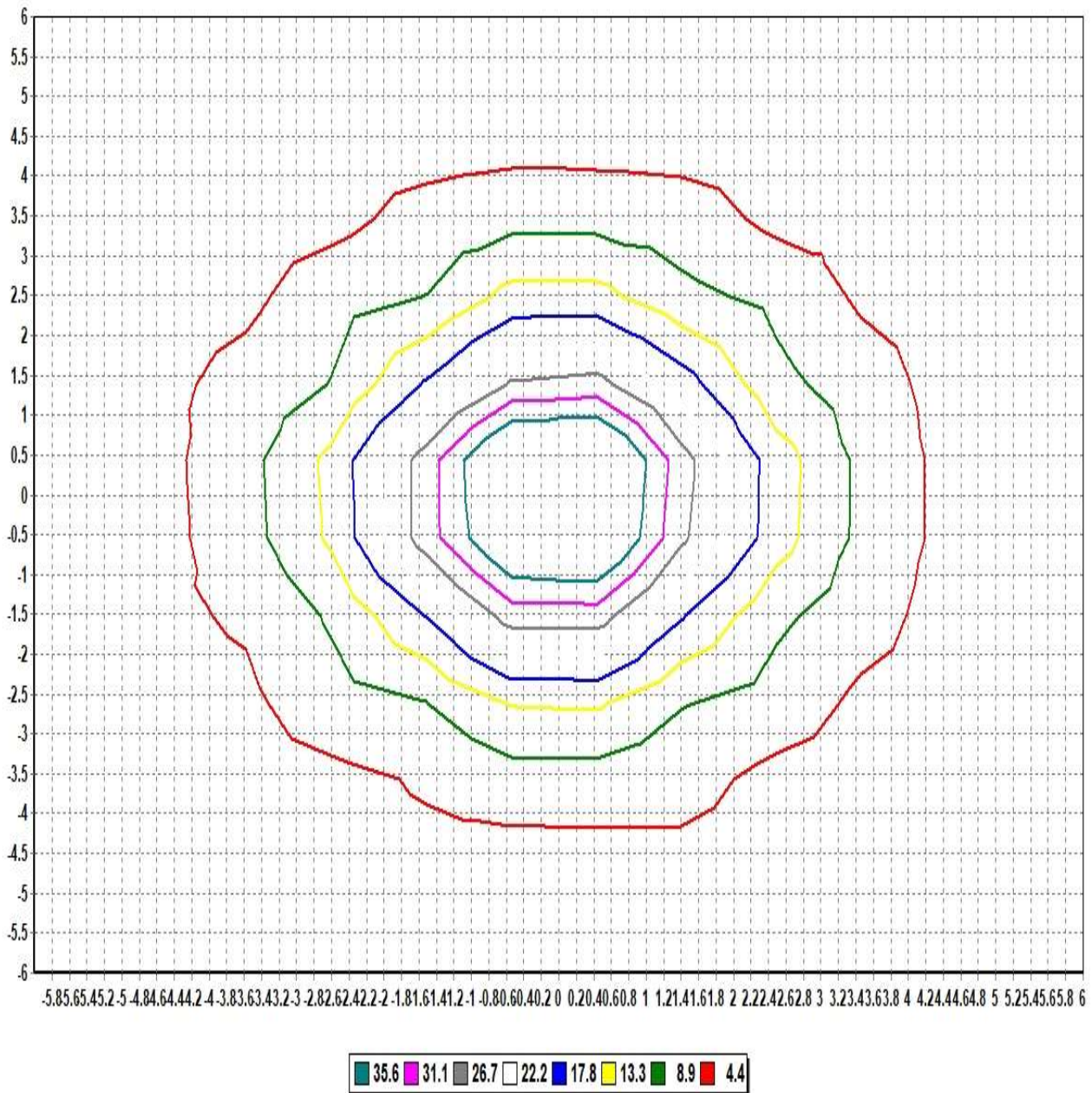
Total flux (lm) 1144

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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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Voltage (V)

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Lamp flux (lm) 1144

Current (A)

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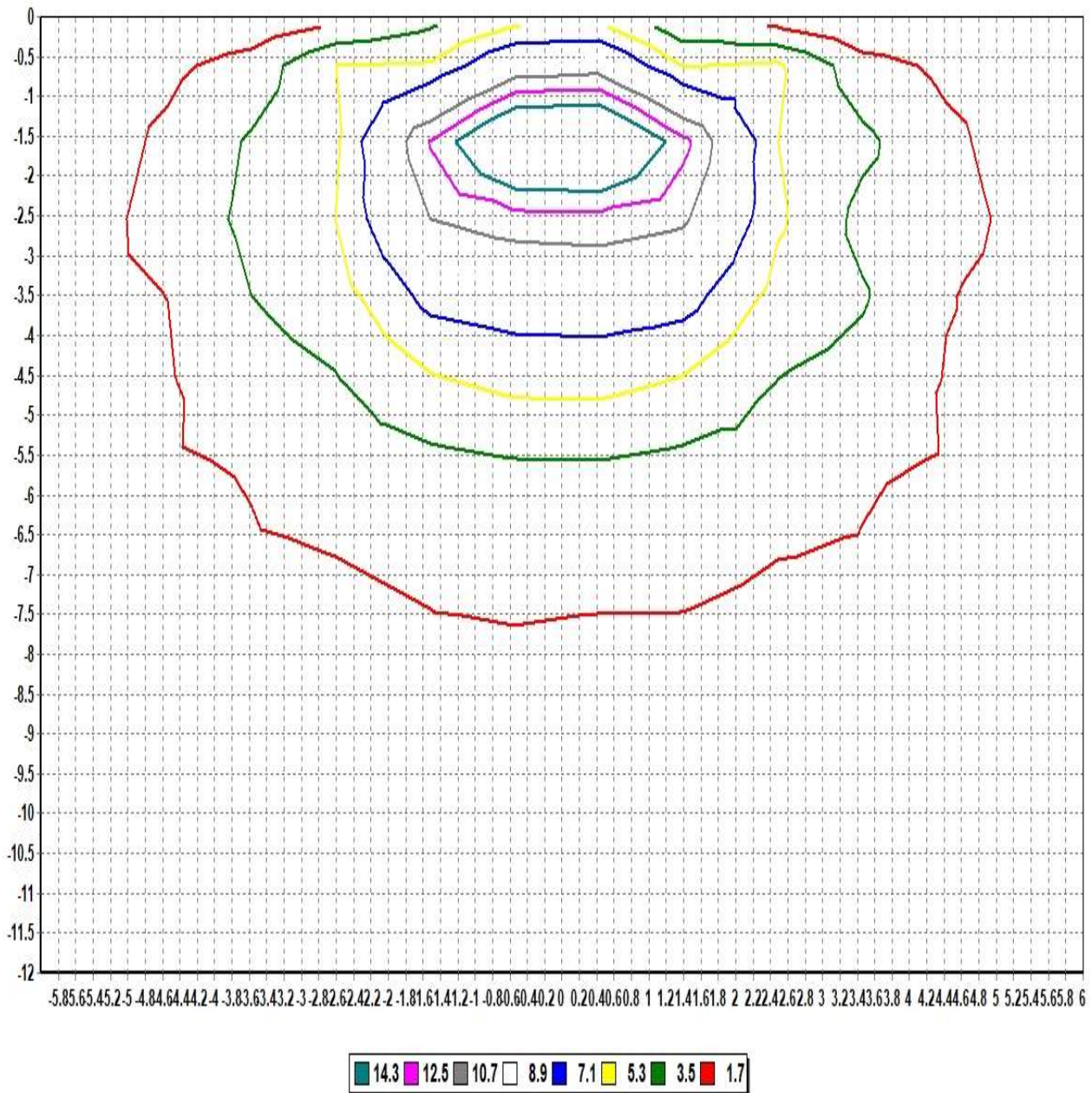
Total flux (lm) 1144

Power Factor

(Date:3

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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)	120.35
Lamp flux (lm)	1144	Current (A)	0.12978
Total flux (lm)	1144	Power Factor	0.9953

Report

220524

Filename NDF15 27K-120V ST2202 VER1.0 28NS9.jdt

Operator

YKI

Date

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Illuminance Levels (Ground)

6.00	0.50	0.66	0.51	0.76	0.90	1.04	1.00	0.99	1.00	0.84	0.59	0.71	0.58
5.00	0.74	0.59	0.82	1.12	2.26	2.65	2.72	2.62	2.38	1.25	0.93	0.73	0.77
4.00	0.68	0.99	1.91	2.75	2.95	3.66	3.86	3.65	3.14	2.90	2.11	1.04	0.70
3.00	0.79	1.39	2.98	3.36	6.77	7.57	8.37	7.93	7.02	3.76	3.07	1.44	0.85
2.00	1.00	2.33	3.00	7.16	9.77	15.80	18.51	16.27	10.48	7.35	3.18	2.43	1.06
1.00	1.31	2.95	4.20	7.85	15.89	28.62	39.45	29.52	16.36	8.14	4.14	2.91	1.25
0.00	1.41	3.19	4.72	9.60	20.16	40.41	49.67	40.30	19.78	9.34	4.52	3.09	1.31
-1.00	1.26	2.91	4.18	8.45	16.78	29.93	39.68	29.05	16.19	8.03	4.14	2.91	1.25
-2.00	1.16	2.55	3.39	7.54	10.82	16.68	18.99	16.11	10.06	7.30	3.09	2.39	1.03
-3.00	0.95	1.55	3.18	3.97	7.16	8.22	8.68	7.81	6.98	3.50	3.04	1.43	0.82
-4.00	0.77	1.13	2.21	2.99	3.35	3.81	4.06	3.82	3.05	2.86	1.99	1.02	0.69
-5.00	0.82	0.81	1.00	1.33	2.49	2.71	2.83	2.74	2.33	1.21	0.89	0.63	0.76
-6.00	0.63	0.75	0.65	0.93	1.09	1.07	1.09	1.11	0.96	0.80	0.56	0.69	0.53
-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.) : 49.669

Illum. (Min.) : 0.5049

Illum. (Avg.) : 5.7405

All illuminance level values are in lux.



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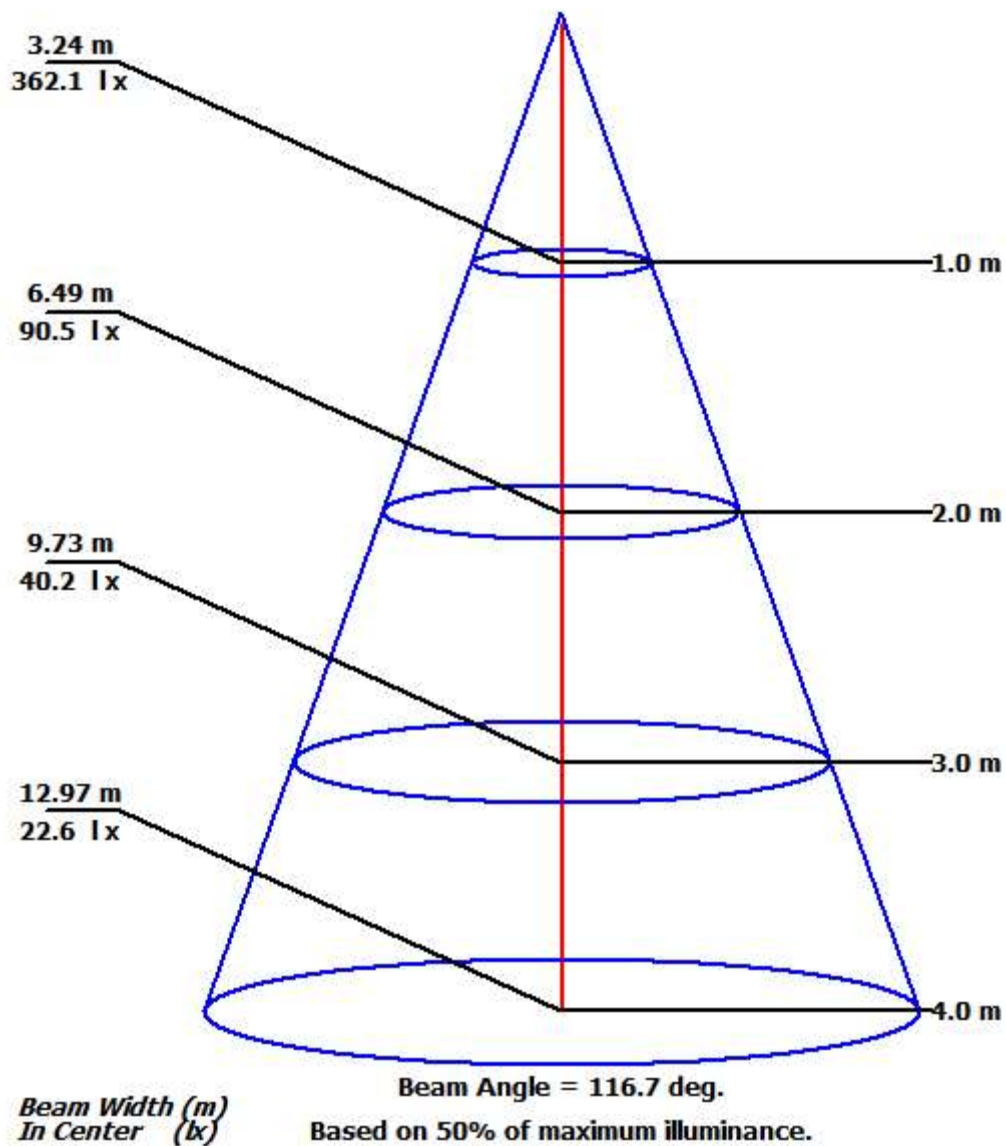
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Illuminance Cone Diagram



Luminaire KHFEELUX

Lamp

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Voltage (V) 120.35

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Current (A) 0.12978

Operator YKI

Total flux (lm) 1144

Power Factor 0.9953

Date 2022-05-24 오후 5:34:23

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