

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 30K-120V FLICKERFREE 28NS9**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	%	23.3	
CIE 1931 Cx, Cy		0.4358 , 0.3938	
Correlated Color Temperature	K	2934	
Ra		93.53	
Power Factor		0.974	
Input Voltage	V	120.30	
Input Current	A	0.171	
Input Watt	W	20.05	
Lamp Flux	lm	1466.1	
Efficient	lm/W	73.13	
luminous Intensity (Max , Center)	cd	446 , 446	
Illuminance	lx	446	1 m
		111	2 m
		50	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)

Filename NDF20 30K-120V FLICKERFREE 28NS9.jdt

Lamp flux (lm) 1466

Current (A)

Operator

YKI

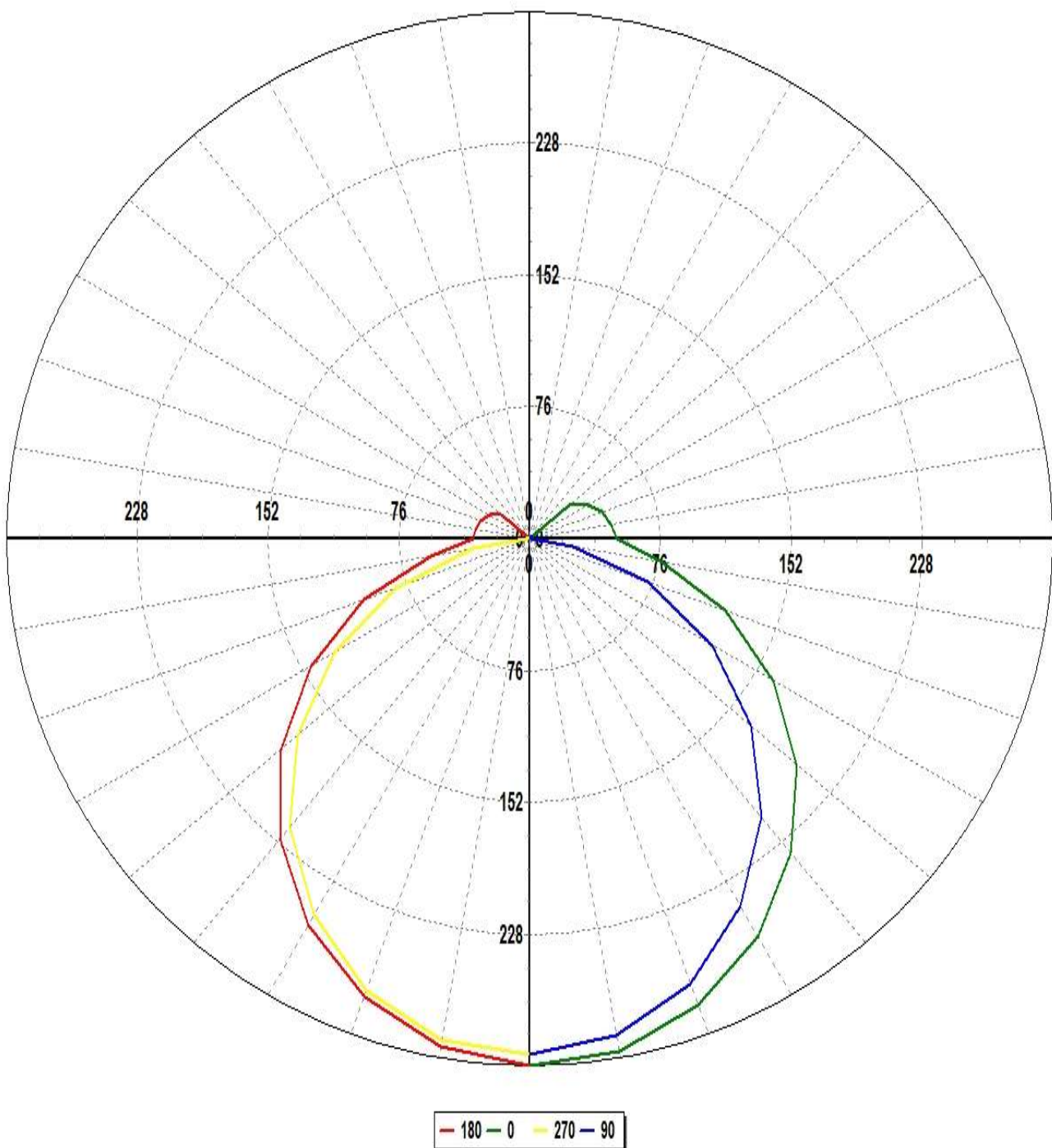
Total flux (lm) 1466

Power Factor

Date

2022-03-11 오전 11:08:01

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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Current (A)

Operator

YKI

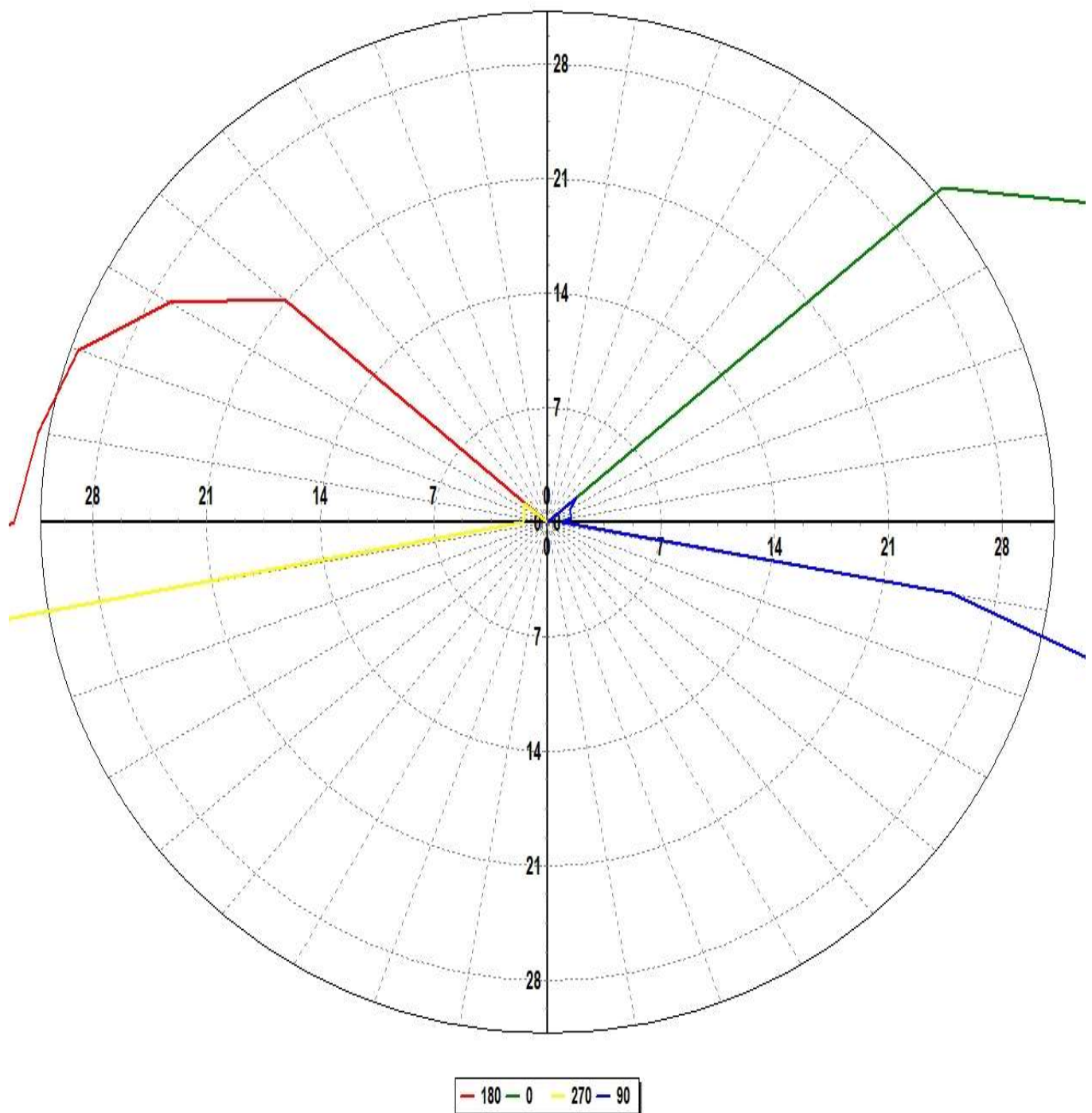
Total flux (lm) 1466

Power Factor

Date

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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

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Current (A)

Operator

YKI

Total flux (lm) 1466

Power Factor

Date

2022-03-11 오전 11:08:01

Luminous Intensity Data

Maximum (cd) : 446

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	445.52	441.97	439.91	436.23	434.98	433.19	445.52	441.97	439.91	436.23	434.98
10	440.56	435.15	429.33	425.79	425.9	423.23	435.65	434.21	430.3	430.67	429.33
20	419.77	413.77	406.43	400.51	402.1	398.6	411.63	410.93	406.12	406.03	407.39
30	388.63	379.04	368.97	359.15	361.34	362.14	376.97	374.66	368.79	367.19	370.45
40	346.36	335.09	320.42	306.93	310.74	314.37	331.12	329.28	319.89	317.97	325.52
50	297.2	282.48	263.57	246.47	254.11	261.27	276.23	274.42	262.97	258.3	270.58
60	239.8	224.08	200.32	179.99	189.46	199.51	215.54	212.49	199.99	191.65	209.62
70	177.51	161.12	132.89	107.05	122.34	134.45	150.47	147.17	132.12	121.24	142.99
80	115.1	97.9	67.37	37.08	55.7	71.29	85.77	81.8	64.73	49.2	76.35
90	74.22	60.83	30.76	1.32	21.36	40.16	48.11	40.3	20.93	2.26	31.74
100	70.35	58.11	29.49	2.16	21.75	39.88	46.67	39.2	20.83	2.01	30.42
110	65.35	54.71	20.37	2.25	17.72	37.87	45.07	38.26	18.99	2.17	29.35
120	57.02	40.98	2.6	2.43	3.39	29.13	39.4	31.84	2.62	2.51	2.89
130	46.51	20.39	11.79	3.4	9.4	10.25	31.03	22.31	9.43	2.68	12.16

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Lamp

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Current (A)

Operator

YKI

Total flux (lm) 1466

Power Factor

Date

2022-03-11 오전 11:08:01

Luminous Intensity Data (Continued)

Maximum (cd) : 446

Minimum (cd) : 1

G/C	330	360
0	433.19	445.52
10	430.7	440.56
20	411.05	419.77
30	379.39	388.63
40	337.13	346.36
50	288.47	297.2
60	231.2	239.8
70	168.51	177.51
80	106.41	115.1
90	62.06	74.22
100	58.42	70.35
110	54.5	65.35
120	42.15	57.02
130	29.74	46.51

Luminaire KH FEELUX

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Operator

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Power Factor

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Luminous Flux Table

Total Lamp Lumens: 1466.1

Luminaire Efficiency (lm/W): 73.12

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	10.49	10.49	0.72	0.72
10	81.95	92.44	6.31	6.31
20	152.78	245.22	16.73	16.73
30	203.38	448.60	30.60	30.60
40	228.50	677.10	46.18	46.18
50	226.25	903.35	61.62	61.62
60	197.10	1100.45	75.06	75.06
70	145.62	1246.07	84.99	84.99
80	81.68	1327.75	90.56	90.56
90	39.61	1367.36	93.27	93.27
100	37.69	1405.05	95.84	95.84
110	33.16	1438.21	98.10	98.10
120	20.31	1458.52	99.48	99.48
130	7.58	1466.09	100.00	100.00

Luminaire KH FEELUX

Lamp

Report

220311

No. of lamps 1

Voltage (V)

Filename NDF20 30K-120V FLICKERFREE 28NS9.jdt

Lamp flux (lm) 1466

Current (A)

0.1 Operator

YKI

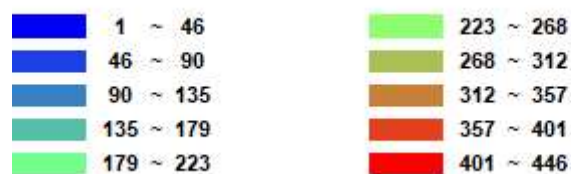
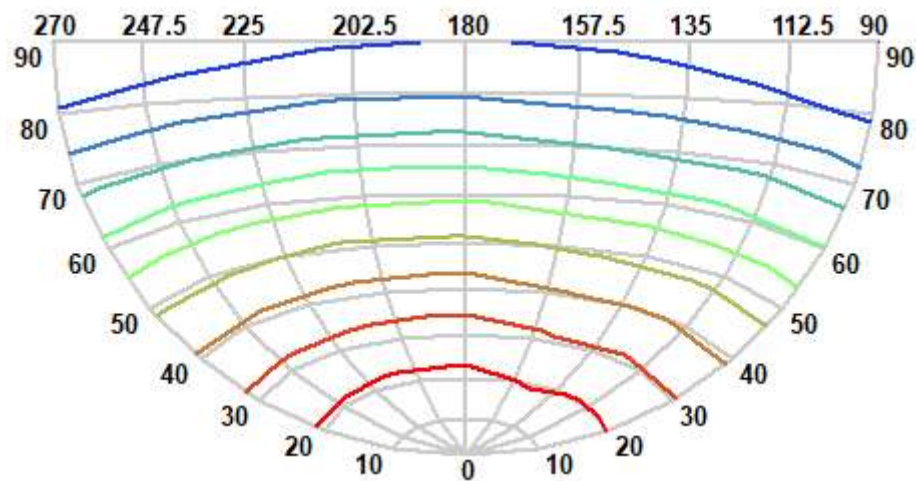
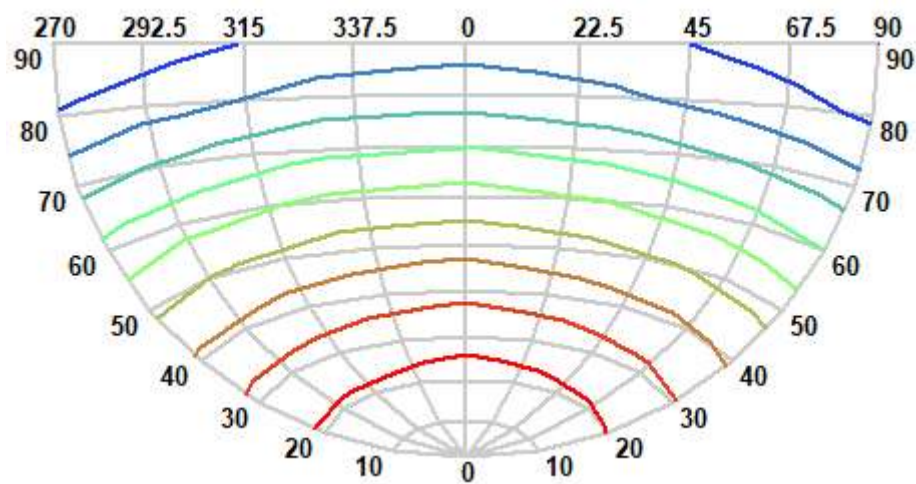
Total flux (lm) 1466

Power Factor

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IsoCandela (Type C)



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Lamp flux (lm) 1466

Current (A)

0.1 Operator

YKI

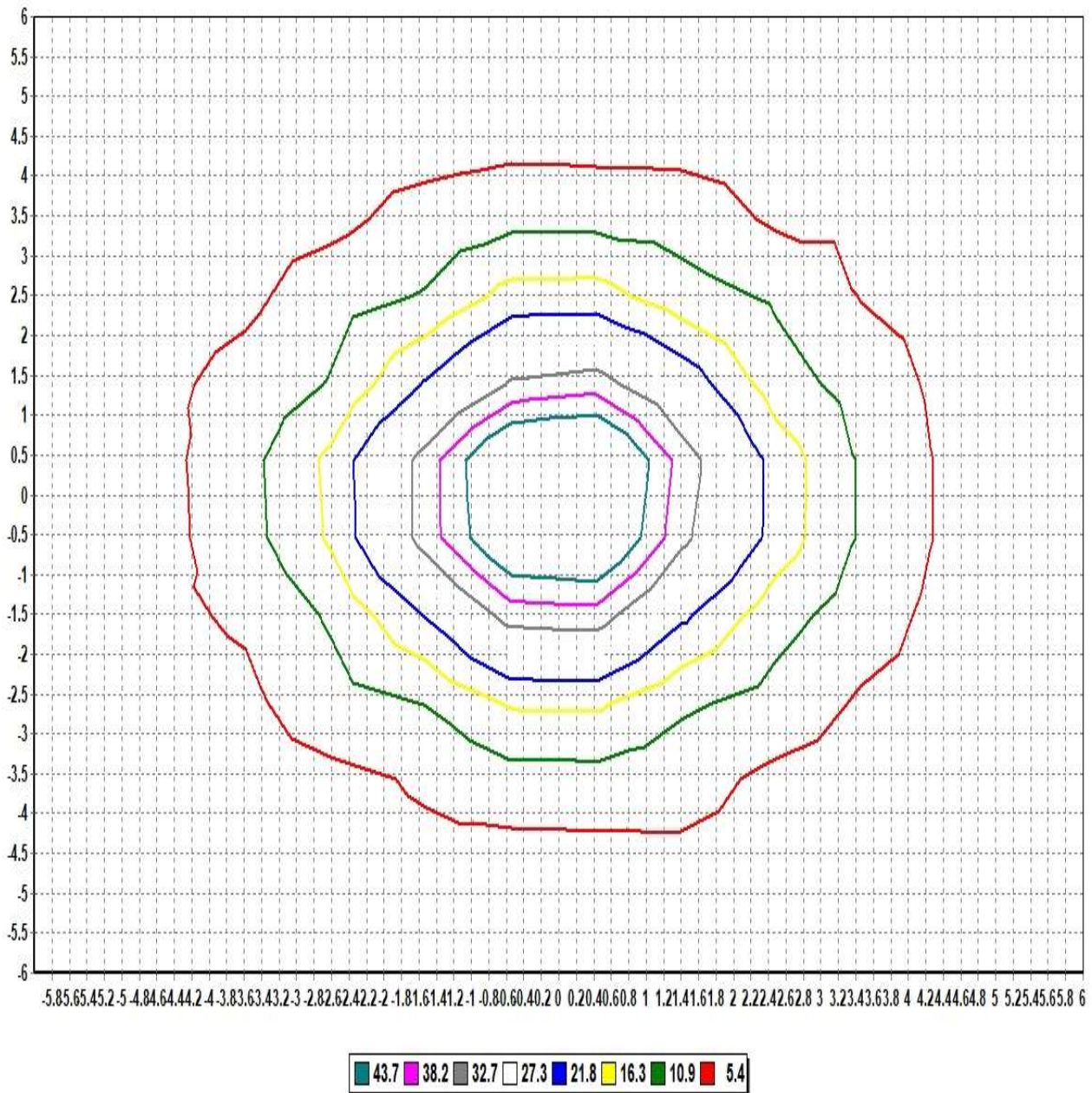
Total flux (lm) 1466

Power Factor

0 Date

2022-03-11 오전 11:08:01

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

220311

No. of lamps 1

Voltage (V)

Filename NDF20 30K-120V FLICKERFREE 28NS9.jdt

Lamp flux (lm) 1466

Current (A)

0.1 Operator

YKI

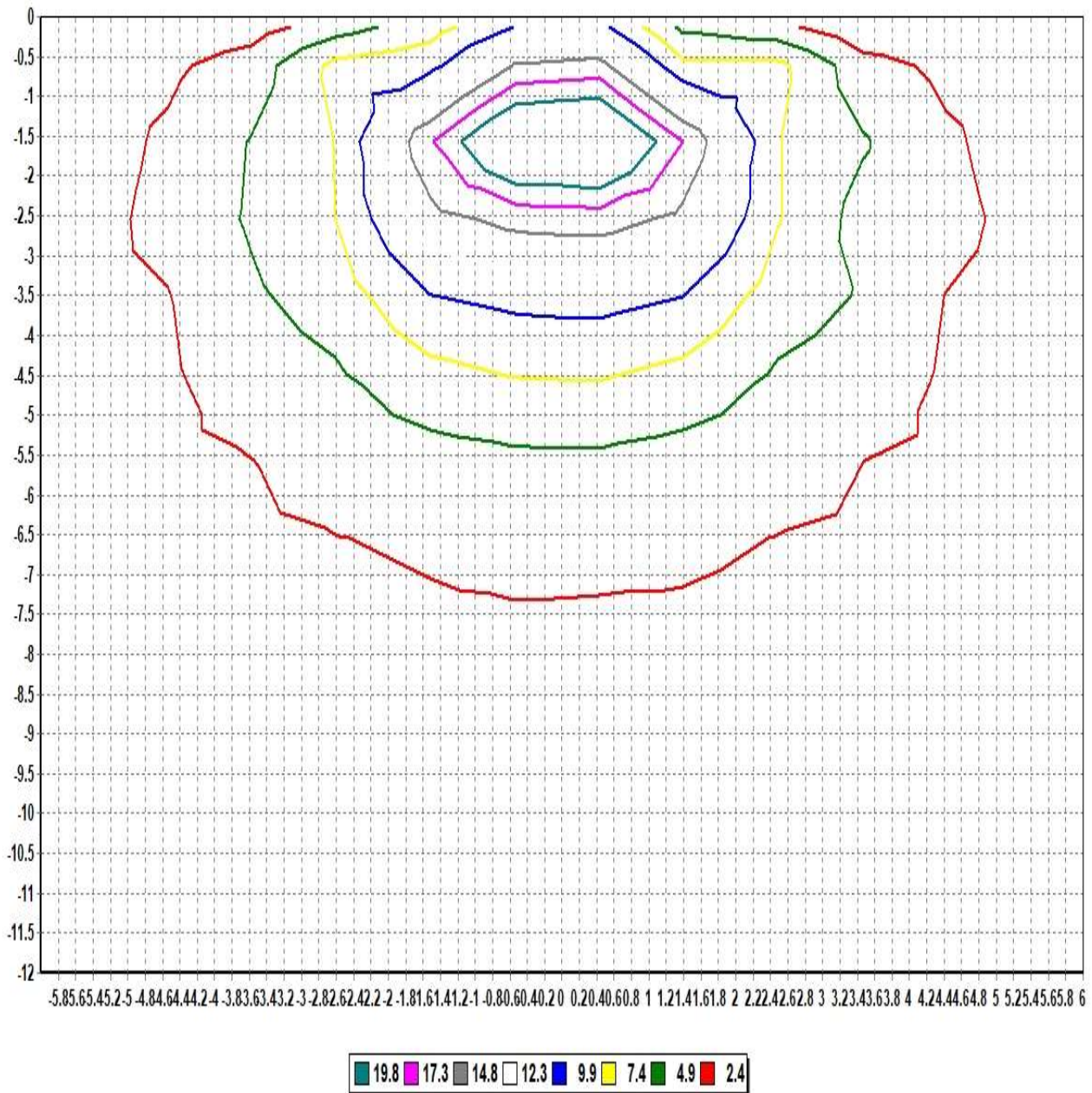
Total flux (lm) 1466

Power Factor

0 Date

2022-03-11 오전 11:08:01

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)	120.3
Lamp flux (lm)	1466	Current (A)	0.17116
Total flux (lm)	1466	Power Factor	0.9737

Report	220311
Filename	NDF20 30K-120V FLICKERFREE 28NS9.jdt
Operator	YKI
Date	2022-03-11 오전 11:08:01

Illuminance Levels (Ground)

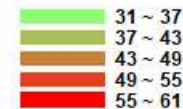
6.00	0.64	0.84	0.67	0.95	1.15	1.39	1.31	1.31	1.41	1.21	0.83	0.97	0.83
5.00	0.91	0.75	1.06	1.45	2.84	3.42	3.47	3.36	3.18	1.69	1.29	1.09	1.09
4.00	0.81	1.20	2.42	3.49	3.71	4.77	4.97	4.75	4.32	3.79	2.89	1.53	1.06
3.00	0.98	1.69	3.67	4.27	8.52	9.54	10.62	10.43	8.99	5.23	4.19	2.11	1.25
2.00	1.23	2.90	3.75	8.77	12.27	19.56	23.14	21.00	13.93	9.73	4.40	3.30	1.55
1.00	1.57	3.62	5.14	9.75	19.62	35.27	48.07	37.34	21.18	10.92	5.72	3.93	1.80
0.00	1.69	3.92	5.76	11.79	24.70	49.19	61.11	49.76	25.70	12.61	6.31	4.24	1.93
-1.00	1.51	3.57	5.11	10.43	20.75	36.63	48.63	36.02	20.59	10.52	5.73	3.96	1.83
-2.00	1.40	3.14	4.16	9.26	13.34	20.67	23.85	20.45	12.89	9.45	4.15	3.15	1.44
-3.00	1.14	1.85	3.91	4.87	8.95	10.24	11.09	10.09	8.87	4.59	4.05	2.02	1.13
-4.00	0.91	1.35	2.72	3.76	4.13	4.88	5.25	4.89	4.06	3.69	2.59	1.44	1.00
-5.00	1.00	0.96	1.25	1.68	3.09	3.46	3.64	3.48	3.04	1.59	1.19	0.86	1.04
-6.00	0.76	0.95	0.81	1.13	1.35	1.39	1.43	1.43	1.29	1.10	0.75	0.91	0.71
-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.) : 61.114

Illum. (Min.) : 0.6435

Illum. (Avg.) : 7.2478

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 1466

Current (A)

Operator

YKI

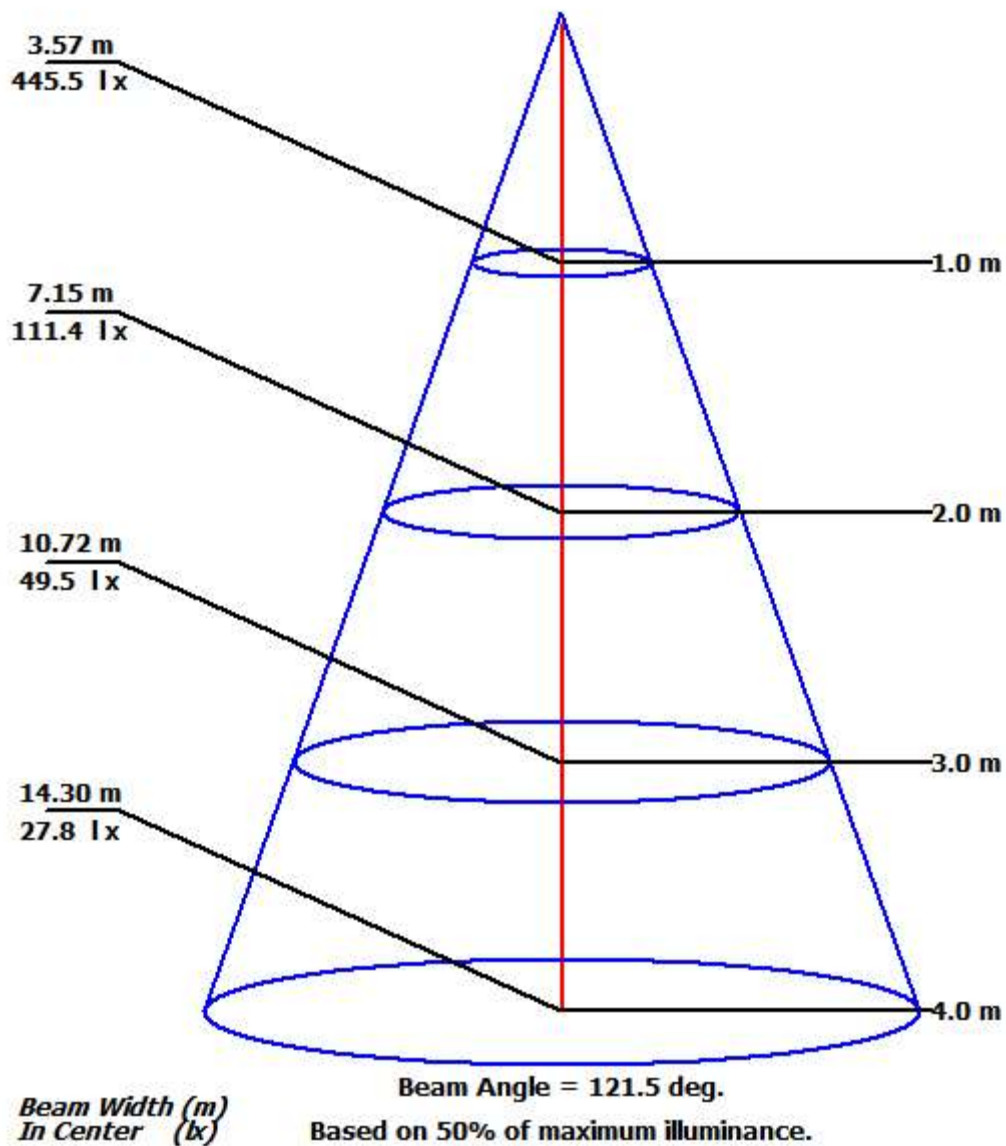
Total flux (lm) 1466

Power Factor

Date

2022-03-11 오전 11:08:01

Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report 220311

No. of lamps 1 Voltage (V) 120.3

Filename NDF20 30K-120V FLICKERFREE 28NS9.jdt

Lamp flux (lm) 1466 Current (A) 0.17116

Operator YKI

Total flux (lm) 1466 Power Factor 0.9737

Date 2022-03-11 오전 11:08:01

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