

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844
* Date of Receipt : 230630

2. Purpose of Report :**3. Number of Report :** 230704**4. Test Standard / Item :** / 230704 FNL 3D 30K-24V-C90 #1**5. Test Period :** 230630 ~ 230630**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	
	PKW	Sign	PKW	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
230704			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4473 , 0.4011	
Correlated Color Temperature	K	2806	
Ra		91.05	
Power Factor		1.000	
Input Voltage	V	23.949	
Input Current	A	0.387	
Input Watt	W	9.26	
Lamp Flux	lm	655.3	
Efficient	lm/W	70.77	
luminous Intensity (Max , Center)	cd	821 , 821	
Illuminance	lx	821	1 m
		205	2 m
		91	3 m

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

* Sample photo

Click to load image

Luminaire KH FEELUX

Lamp

Report

230704

No. of lamps 1

Voltage (V)

23.949

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Lamp flux (lm) 655

Current (A)

0.38665

Operator

Total flux (lm) 655

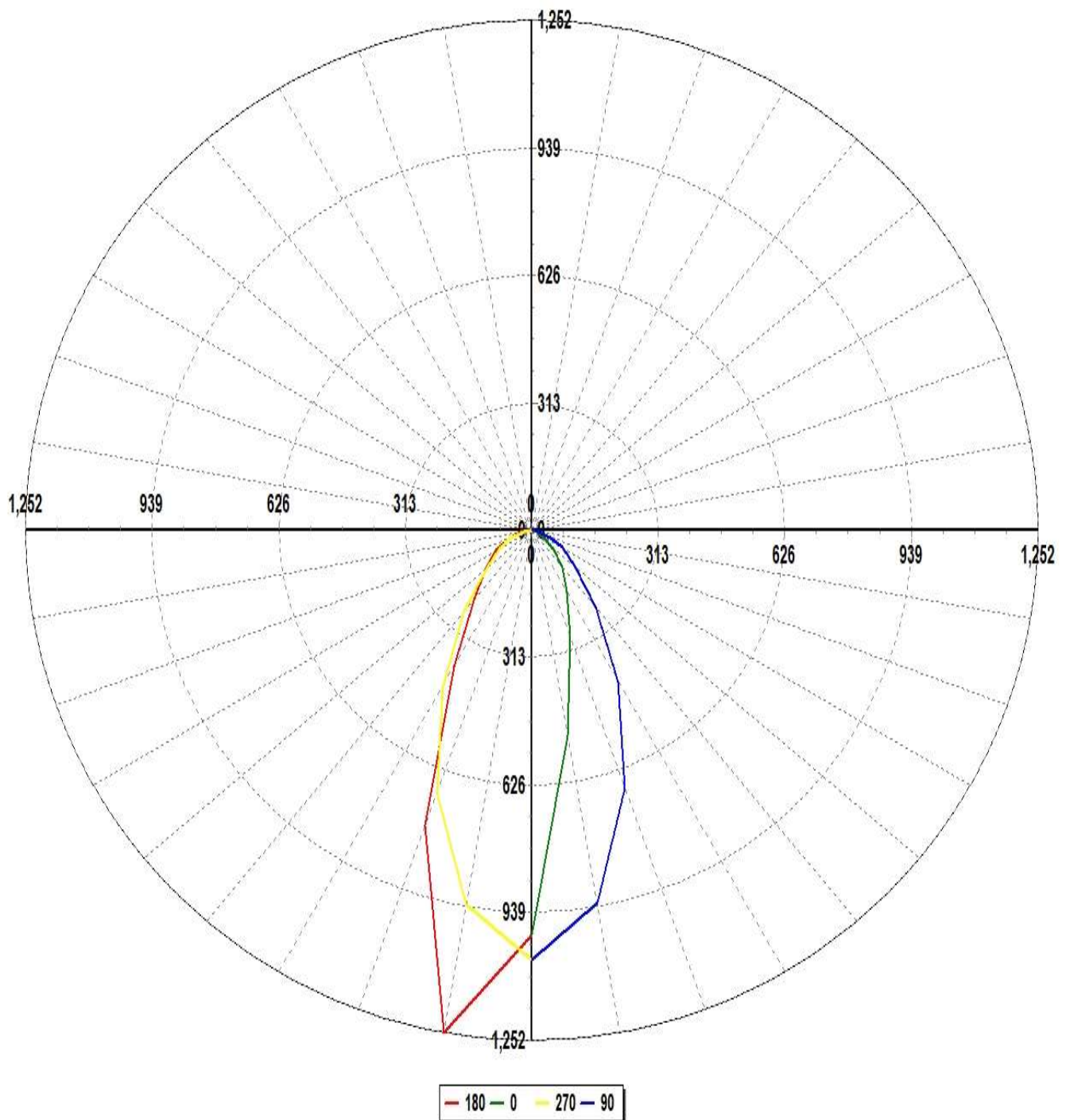
Power Factor

1

Date

2023-07-04 오후 2:39:49

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

Report

230704

No. of lamps 1

Voltage (V)

23.949

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Lamp flux (lm) 655

Current (A)

0.38665

Operator

Total flux (lm) 655

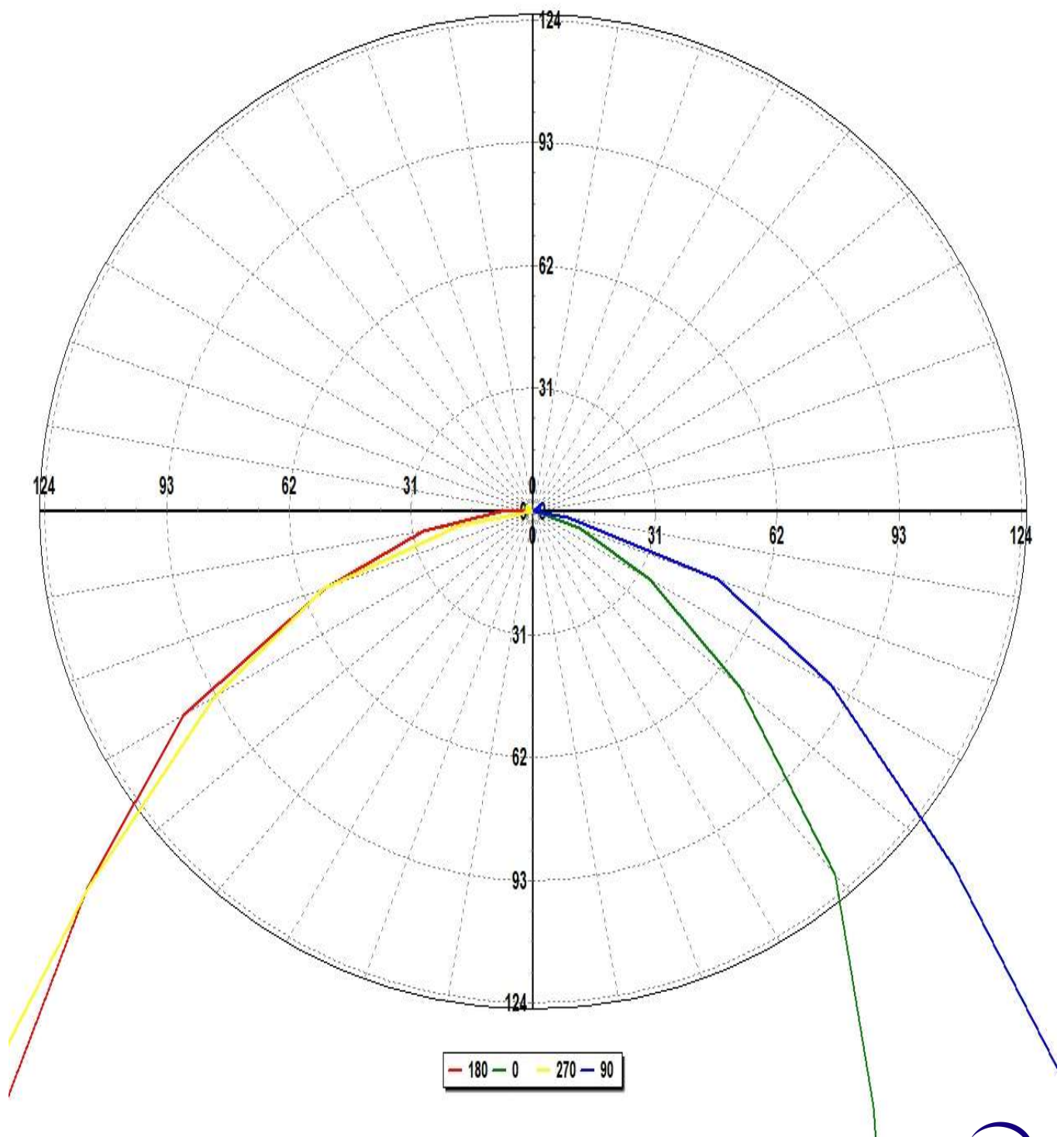
Power Factor

1

Date

2023-07-04 오후 2:39:49

Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

Report

230704

No. of lamps 1

Voltage (V)

23.949

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Lamp flux (lm) 655

Current (A)

0.38665

Operator

Total flux (lm) 655

Power Factor

1

Date

2023-07-04 오후 2:39:49

Luminous Intensity Data

Maximum (cd) : 821

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270	300
0	652.1	649.17	673.01	690.22	711.61	722.89	652.1	649.17	673.01	690.22	711.61
10	336.53	362.16	460.51	609.69	751.78	778.09	820.59	803.08	739.19	611.75	493.99
20	181.05	201.2	279.11	441.49	548.34	465.13	506.67	542.29	575.13	450.52	296
30	113.42	124.21	171.41	280.17	309.31	237.95	253.18	276.88	338.76	288.84	177.71
40	78.3	84.28	109.82	161.09	169.38	140.26	144.42	156.01	183.17	169.73	113.75
50	44.92	54.12	67.35	91.41	102.19	94.05	96.82	101.54	107.65	96.57	72.96
60	22.4	25.8	39.03	57.19	62.57	61.19	67.11	68.14	66.15	61.28	42.6
70	8.26	10.23	17.64	32.79	35.09	33.02	36.82	38.61	38.32	36.98	21.36
80	1.16	1.35	3.9	5.93	13.13	15.36	18.61	17.84	17.28	12.19	5.71
90	0.37	0.44	0.75	0.35	1.48	3.38	5.37	4.91	4.05	0.14	0.72
100	0.52	0.23	0.27	0.81	0.72	0.22	0.48	0.26	0.59	1.09	0.79
110	0.85	1.77	1.18	0.65	0.47	0.75	0.83	1.31	0.08	1.3	0.76
120	1.06	1.25	1.49	1.03	1.02	1.26	1.08	1.14	0.95	0.94	0.77
130	2.22	2.35	1.29	2.17	1.4	1.83	1.29	0.92	0.89	1.4	1.27

Luminaire KH FEELUX

Lamp

Report

230704

No. of lamps 1

Voltage (V) 23.949

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Lamp flux (lm) 655

Current (A) 0.38665

Operator

Total flux (lm) 655

Power Factor 1

Date 2023-07-04 오후 2:39:49

Luminous Intensity Data (Continued)

Maximum (cd) : 821

Minimum (cd) : 0

G/C	330	360
0	722.89	652.1
10	416.6	336.53
20	222.75	181.05
30	135.77	113.42
40	90.96	78.3
50	62.38	44.92
60	31.08	22.4
70	14.42	8.26
80	2.55	1.16
90	1.01	0.37
100	0.55	0.52
110	1.21	0.85
120	0.91	1.06
130	1.71	2.22

Luminaire KH FEELUX

Lamp

Report

230704

No. of lamps 1

Voltage (V)

23.949

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Lamp flux (lm) 655

Current (A)

0.38665

Operator

Total flux (lm) 655

Power Factor

1

Date

2023-07-04 오후 2:39:49

Luminous Flux Table

Total Lamp Lumens: 655.27

Luminaire Efficiency (lm/W): 70.76

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	16.33	16.33	2.49	2.49
10	113.86	130.19	19.87	19.87
20	147.02	277.21	42.30	42.30
30	123.56	400.77	61.16	61.16
40	93.94	494.71	75.49	75.50
50	69.35	564.06	86.08	86.08
60	47.78	611.84	93.37	93.37
70	27.75	639.59	97.60	97.61
80	10.34	649.93	99.18	99.19
90	2.10	652.03	99.50	99.51
100	0.59	652.61	99.59	99.59
110	0.96	653.57	99.74	99.74
120	1.02	654.59	99.89	99.90
130	0.68	655.27	100.00	100.00

Luminaire KH FEELUX

Lamp

Report

230704

No. of lamps 1

Voltage (V)

23.949

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Lamp flux (lm) 655

Current (A)

0.38665

Operator

Total flux (lm) 655

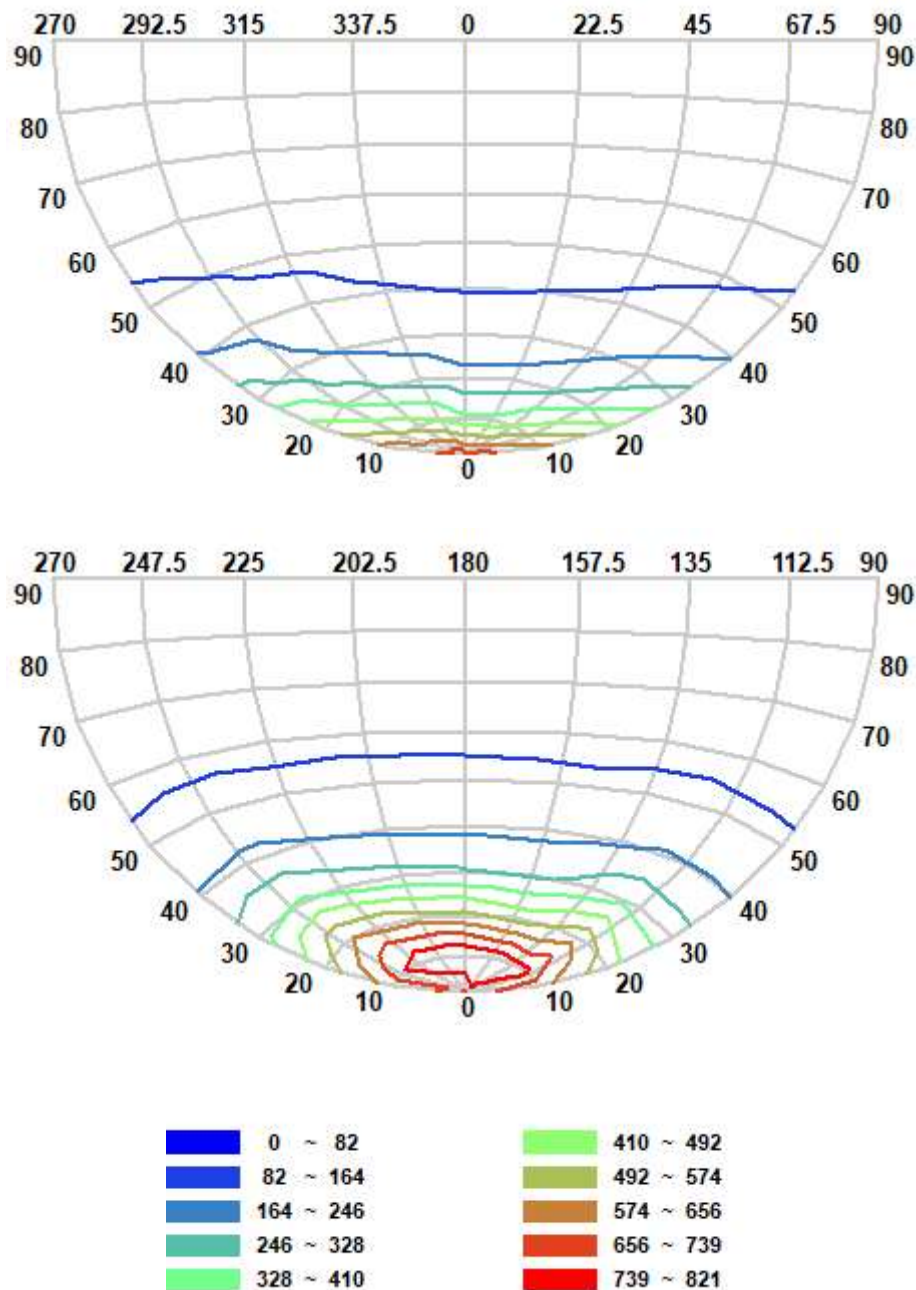
Power Factor

1

Date

2023-07-04 오후 2:39:49

IsoCandela (Type C)



Luminaire KH FEELUX

Lamp

Report

230704

No. of lamps 1

Voltage (V)

23.949

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Lamp flux (lm) 655

Current (A)

0.38665

Operator

Total flux (lm) 655

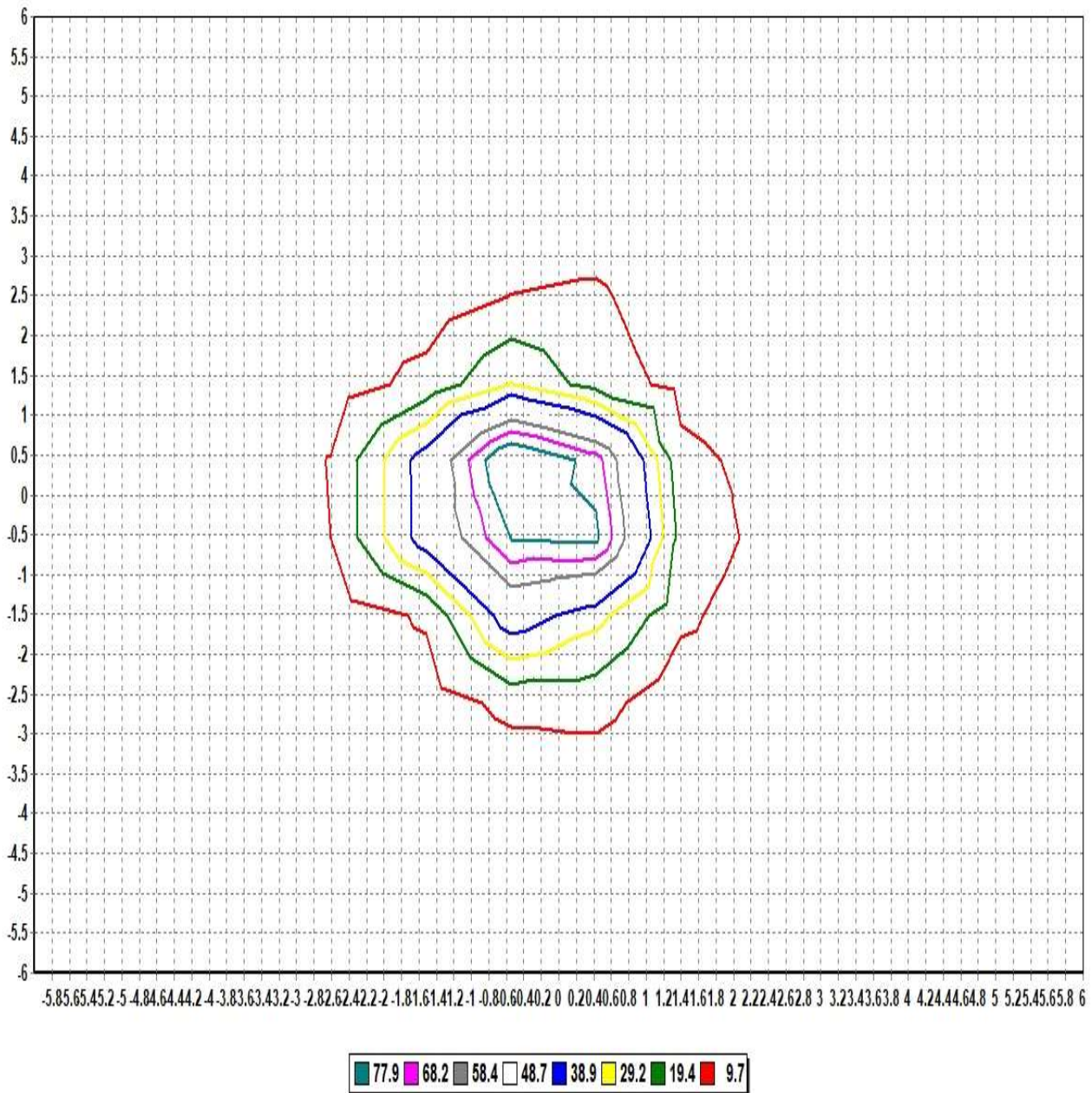
Power Factor

1

Date

2023-07-04 오후 2:39:49

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

230704

No. of lamps 1

Voltage (V)

23.949

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Lamp flux (lm) 655

Current (A)

0.38665

Operator

Total flux (lm) 655

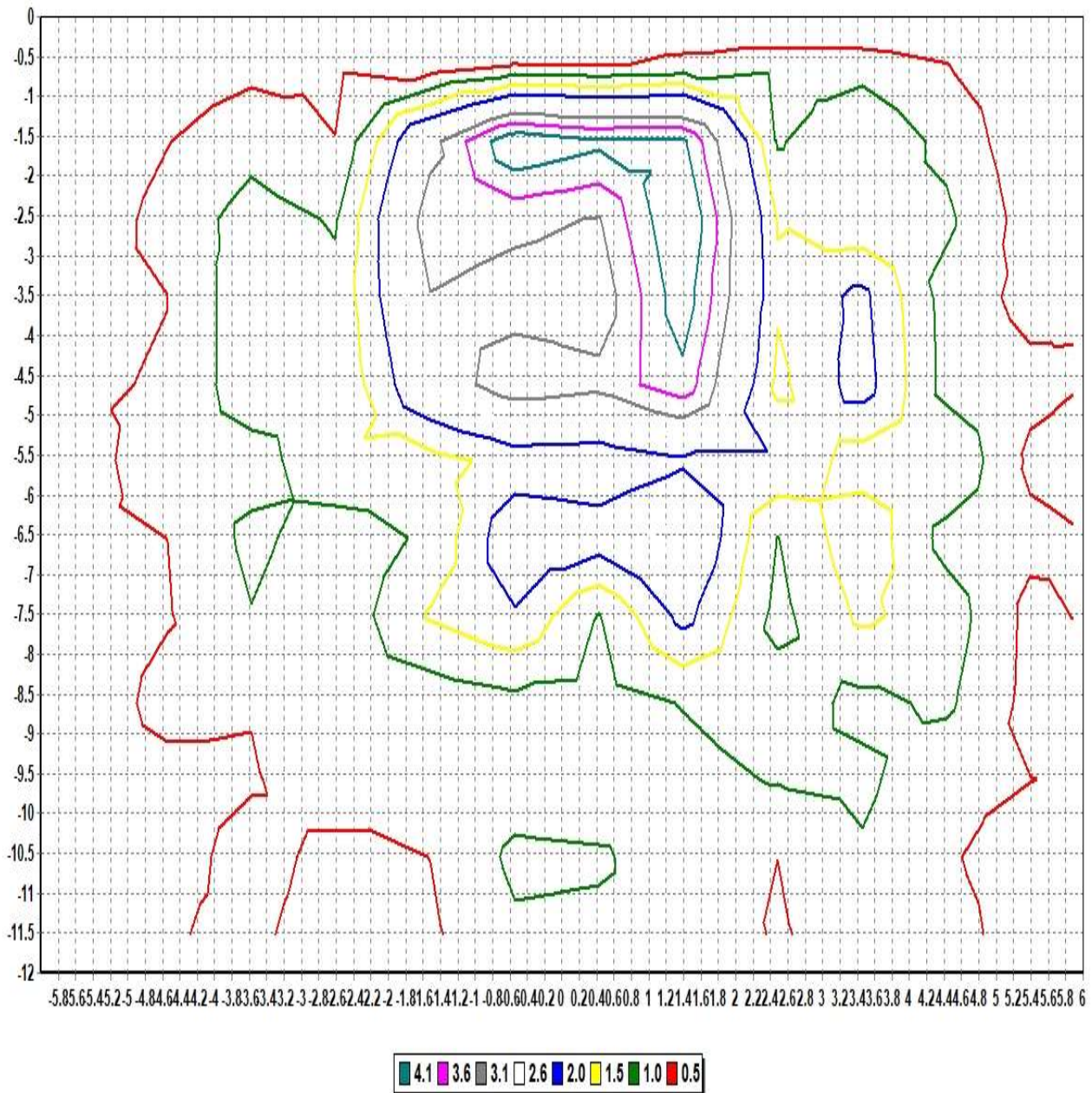
Power Factor

1

Date

2023-07-04 오후 2:39:49

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)	23.949
Lamp flux (lm)	655	Current (A)	0.38665
Total flux (lm)	655	Power Factor	1

Report

230704

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Operator

Date

2023-07-04 오후 2:39:49

Illuminance Levels (Ground)

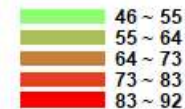
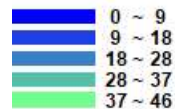
6.00	0.21	0.27	0.20	0.29	0.35	0.29	0.41	0.34	0.15	0.10	0.11	0.16	0.08
5.00	0.28	0.23	0.33	0.46	1.07	0.98	1.26	1.06	0.60	0.28	0.17	0.07	0.11
4.00	0.21	0.33	0.88	1.30	1.26	1.30	1.70	1.33	0.58	0.88	0.42	0.10	0.05
3.00	0.29	0.48	1.33	1.46	4.14	3.81	4.32	2.29	2.77	0.65	0.63	0.15	0.09
2.00	0.36	1.08	1.26	3.79	5.51	10.87	14.41	5.56	2.76	2.03	0.54	0.53	0.12
1.00	0.43	1.26	1.68	3.83	10.72	32.60	68.35	12.95	5.33	1.96	0.81	0.70	0.17
0.00	0.47	1.35	1.90	4.36	12.97	91.68	89.45	37.50	6.44	2.12	0.76	0.61	0.13
-1.00	0.42	1.24	1.67	3.84	9.97	31.10	68.61	25.39	7.11	2.65	0.79	0.65	0.15
-2.00	0.39	1.10	1.36	3.85	5.32	10.26	15.02	7.69	4.77	2.49	0.85	0.74	0.21
-3.00	0.31	0.52	1.37	1.60	4.63	4.02	4.56	3.18	4.16	1.27	0.88	0.23	0.18
-4.00	0.23	0.37	0.93	1.47	1.36	1.71	1.81	1.72	0.91	1.26	0.77	0.17	0.10
-5.00	0.31	0.25	0.37	0.53	1.13	1.31	1.34	1.34	0.85	0.49	0.32	0.19	0.16
-6.00	0.23	0.31	0.24	0.32	0.39	0.43	0.45	0.44	0.29	0.19	0.21	0.25	0.18
-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.) : 91.676

Illum. (Min.) : 0.0547

Illum. (Avg.) : 4.3894

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp

Report

230704

No. of lamps 1

Voltage (V)

23.949

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Lamp flux (lm) 655

Current (A)

0.38665

Operator

Total flux (lm) 655

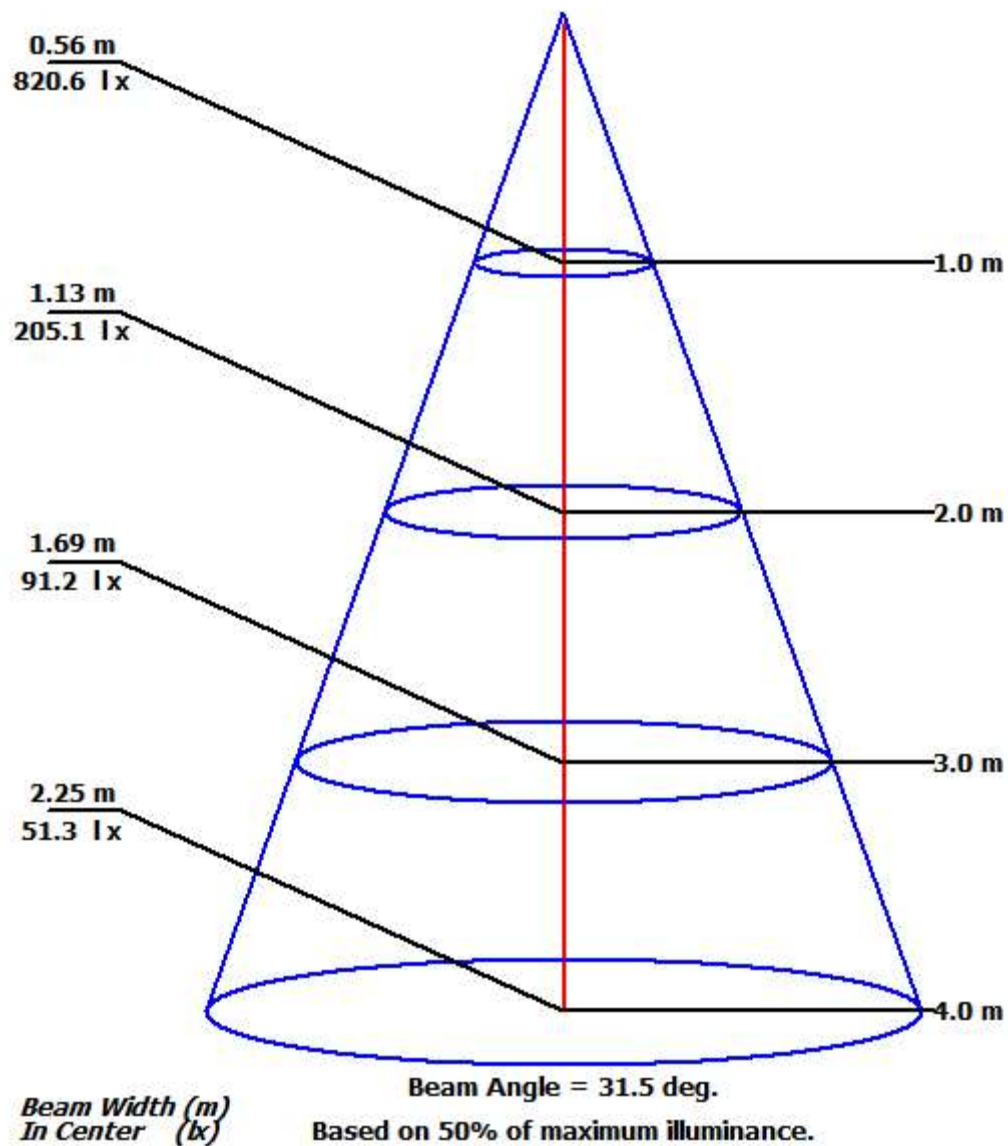
Power Factor

1

Date

2023-07-04 오후 2:39:49

Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

230704

No. of lamps 1

Voltage (V) 23.949

Filename 230704 FNL 3D 30K-24V-C90 #1.jdt

Lamp flux (lm) 655

Current (A) 0.38665

Operator

Total flux (lm) 655

Power Factor 1

Date 2023-07-04 오후 2:39:49

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