

TEST REPORT

1. Applicant

* Client Name : KH FEELUX Co. Ltd.
* Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-Si Gyeonggi-do South Korea
* Date of Receipt : 240403

2. Purpose of Report :

3. Number of Report : KH FEELUX

4. Test Standard / Item : / 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_4

5. Test Period : 240409 ~ 240409

6. Test Environment

* Ambient Temp. : 25.0 +- 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	
	장상윤	Sign	장상윤	Sign

- * The result shown in this test report refer only to the sample(s) tested unless otherwise stated.
- * This report cannot be reporduced, 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
KH FEELUX			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.3822 , 0.3777	
Correlated Color Temperature	K	3961	
Ra		93.57	
Power Factor		1.000	
Input Voltage	V	23.948	
Input Current	A	0.417	
Input Watt	W	9.992	
Lamp Flux	lm	802.5	
Efficient	lm/W	80.32	
luminous Intensity (Max , Center)	cd	1473 , 1442	
Illuminance	lx	1442	1 m
		361	2 m
		160	3 m

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

* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp Report

KH FEELUX

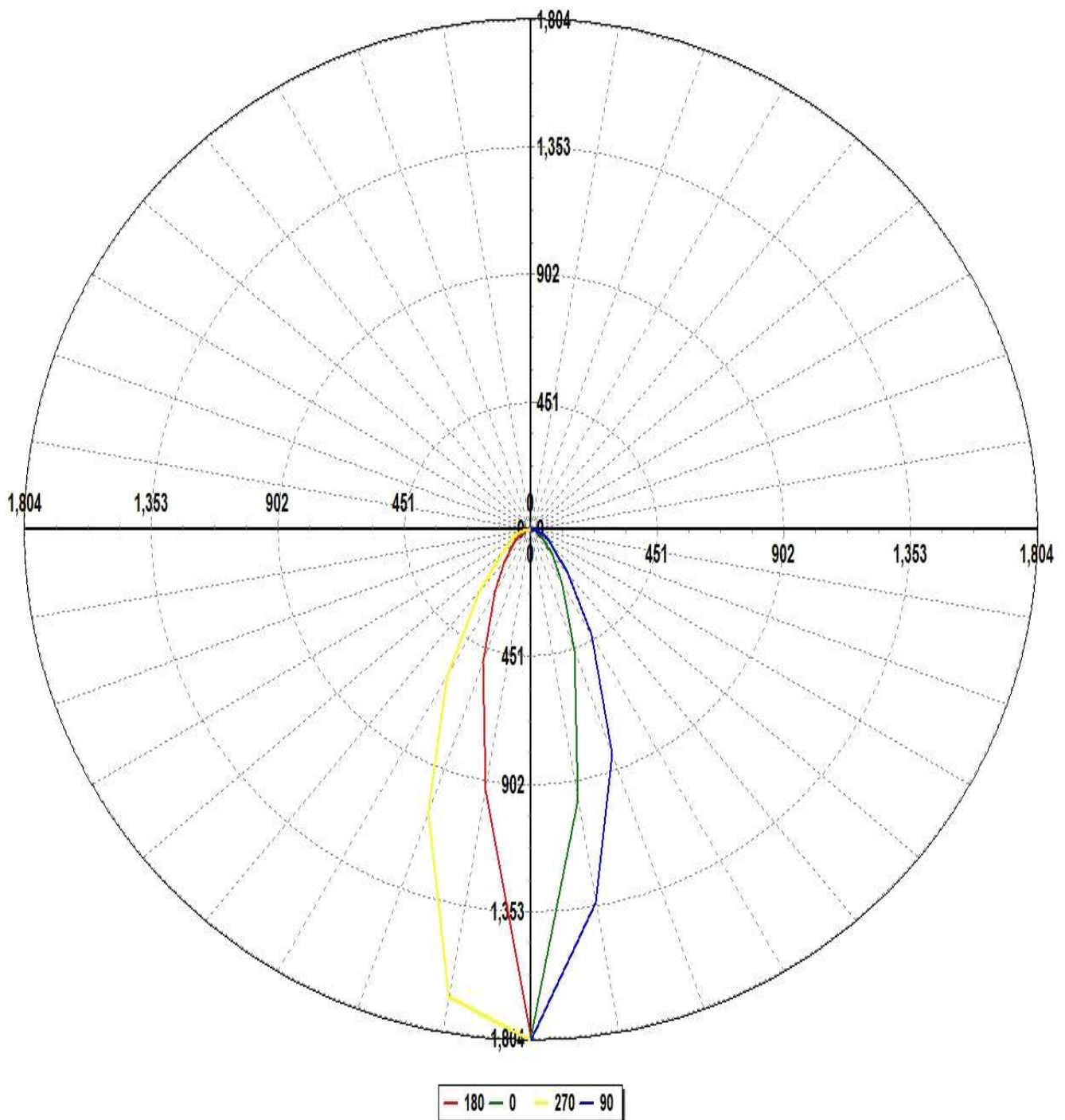
No. of lanFilename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp fluxOperator 803 Current (A) 0.41722

Total flux Date 803 Power Factor 1

2024-04-09 오후 5:01:45

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp Report

KH FEELUX

No. of lanFilename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp fluxOperator 803

Current (A)

0.41722

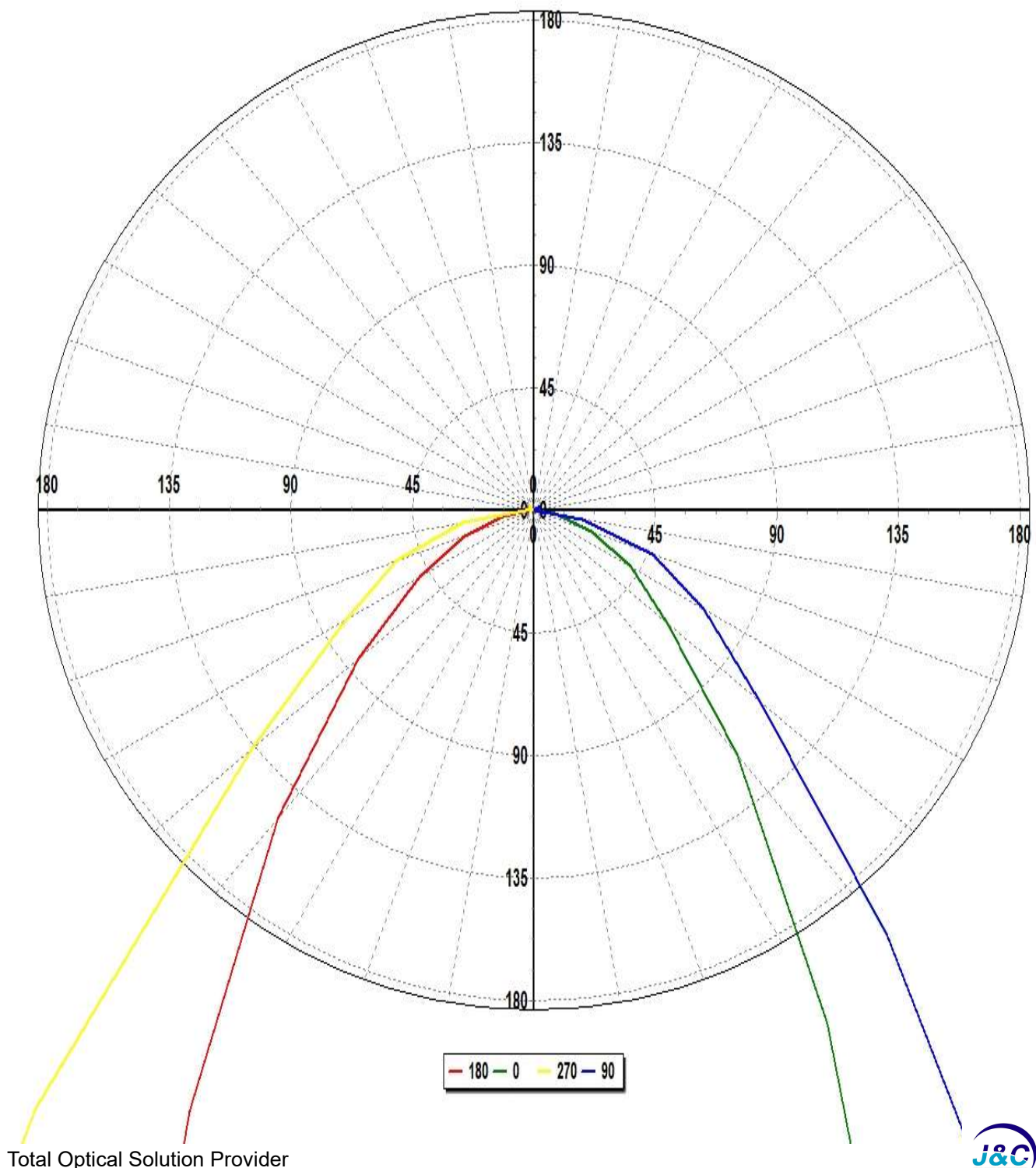
Total flux Date 803

Power Factor

1

2024-04-09 오후 5:01:45

Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

Lamp Report

KH FEELUX

No. of lanFilename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp fluxOperator 803 Current (A) 0.41722

Total flux Date 803 Power Factor 1 2024-04-09 오후 5:01:45

Luminous Intensity Data

Maximum (cd) : 1473

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	1442.2	1430.25	1457.25	1450.38	1472.54	1240.78	1442.2	1430.25	1457.25	1450.38
10	780.05	768.27	1047.43	1074.4	861.15	631.31	749.21	897.34	1029.8	1347.18
20	364.32	398.13	533.32	678.78	445.69	345	399.9	455	604.81	854.86
30	174.36	191.51	261.25	346.93	232.43	181.08	204.71	234.18	315.6	480.77
40	93.64	101.38	131.21	163.12	127.35	106.26	118.31	129.68	164.68	230.02
50	51.84	59.82	75.84	87.03	78.29	62.54	68.17	76.67	92.44	109.13
60	33.31	37.19	46.53	58.14	47.68	37.68	39.32	45.77	56.44	64.7
70	18.32	18.49	27.38	37.53	26.39	19.52	22.05	24.81	32.11	43.34
80	6.31	6.66	8.05	14.74	8.26	6.44	9.29	9.64	13.29	21.5
90	0.1	0.87	0.96	0.32	1.19	1.03	1.4	1.11	2.19	2.56
100	0.63	0.24	0.66	0.76	0.29	0.6	0.44	0.3	-0.07	0
110	0.88	1.23	0.67	1.29	1.4	0.35	0.75	1.08	1.09	1.22
120	1.95	1.19	1.4	1.65	2.12	2.16	0.64	1.2	1.91	1.06
130	1.55	2.4	2.77	2.33	2.71	2.4	1.72	1.87	1.86	1.84

Luminaire KH FEELUX

Lamp Report

KH FEELUX

No. of lanFilename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp fluxOperator 803 Current (A) 0.41722

Total flux Date 803 Power Factor 1 2024-04-09 오후 5:01:45

Luminous Intensity Data (Continued)

Maximum (cd) : 1473

Minimum (cd) : 0

G/C	300	330	360
0	1472.54	1240.78	1442.2
10	1208.7	1081.3	780.05
20	581.7	498.12	364.32
30	310.41	237.55	174.36
40	156.65	122.17	93.64
50	86.86	70.79	51.84
60	53.59	43.27	33.31
70	32.21	25.16	18.32
80	12.58	10.06	6.31
90	1.36	1.02	0.1
100	0.75	0.18	0.63
110	1.14	0.52	0.88
120	1.23	0.85	1.95
130	2.44	1.61	1.55

Luminaire KH FEELUX

Lamp Report

KH FEELUX

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Lamp fluxOperator 803 Current (A) 0.41722

Total flux Date 803 Power Factor 1 2024-04-09 오후 5:01:45

Luminous Flux Table

Total Lamp Lumens: 802.49

Luminaire Efficiency (lm/W): 80.31

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	33.85	33.85	4.22	4.22
10	181.88	215.73	26.88	26.88
20	192.28	408.01	50.84	50.84
30	144.70	552.70	68.87	68.87
40	96.48	649.18	80.89	80.90
50	64.28	713.46	88.90	88.91
60	44.55	758.01	94.46	94.46
70	28.07	786.08	97.95	97.96
80	11.40	797.48	99.37	99.38
90	1.29	798.77	99.54	99.54
100	0.43	799.20	99.59	99.59
110	1.00	800.20	99.71	99.71
120	1.37	801.57	99.88	99.88
130	0.92	802.49	100.00	100.00

Luminaire KH FEELUX

Lamp Report

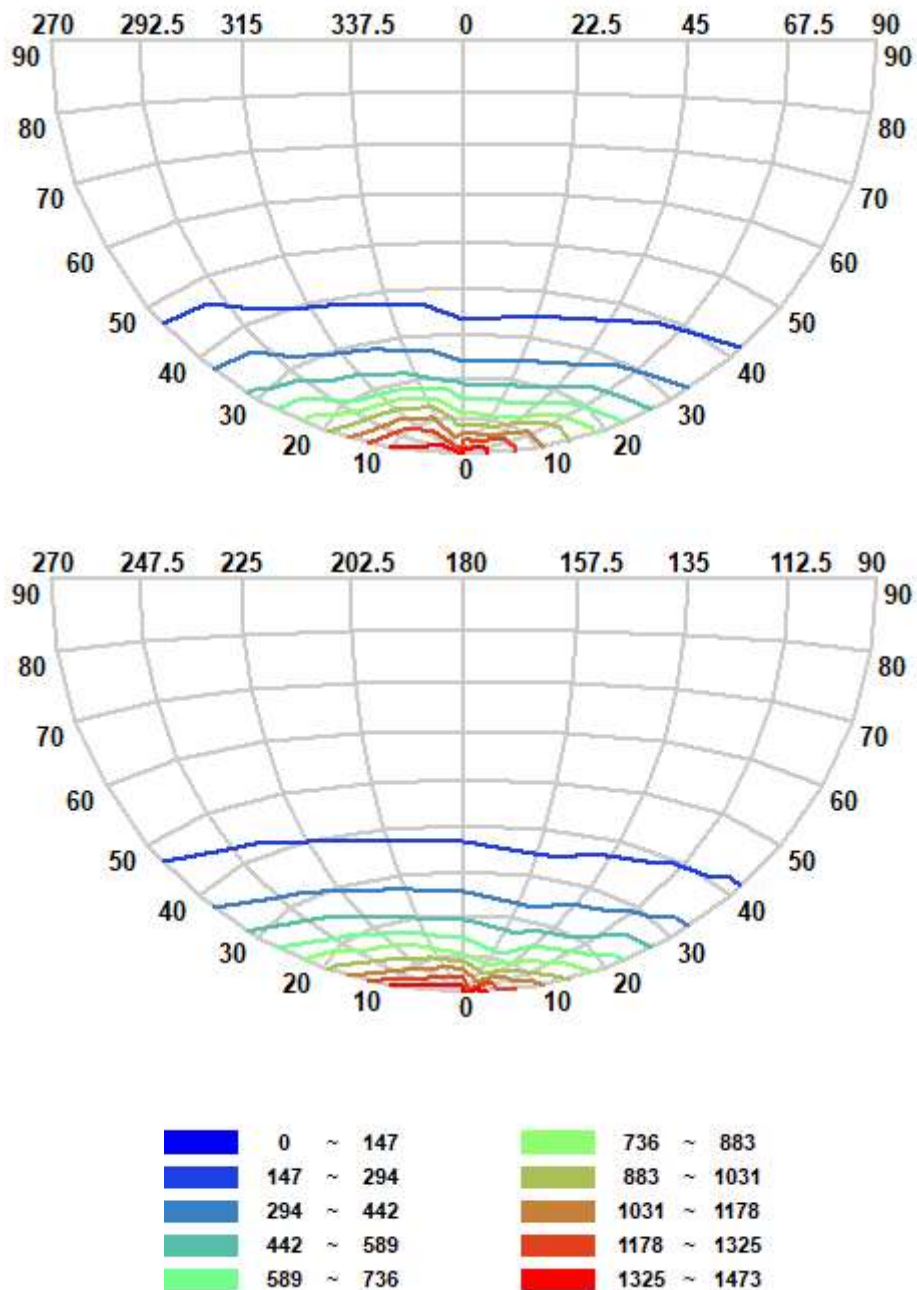
KH FEELUX

No. of lanFilename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp fluxOperator 803 Current (A) 0.41722

Total flux Date 803 Power Factor 1 2024-04-09 오후 5:01:45

IsoCandela (Type C)



Luminaire KH FEELUX

Lamp Report

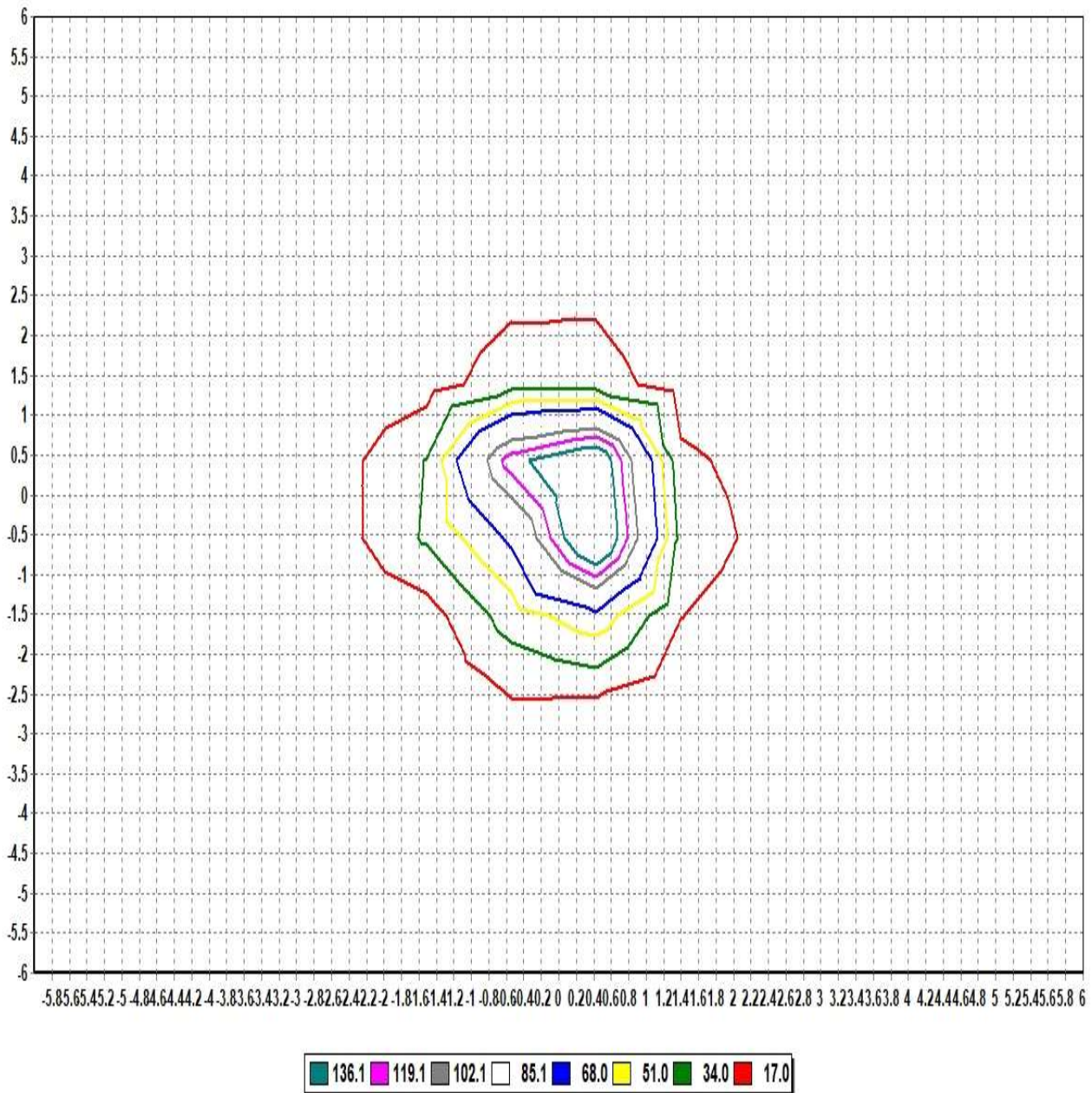
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No. of lanFilename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp fluxOperator 803 Current (A) 0.41722

Total flux Date 803 Power Factor 1 2024-04-09 오후 5:01:45

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp Report

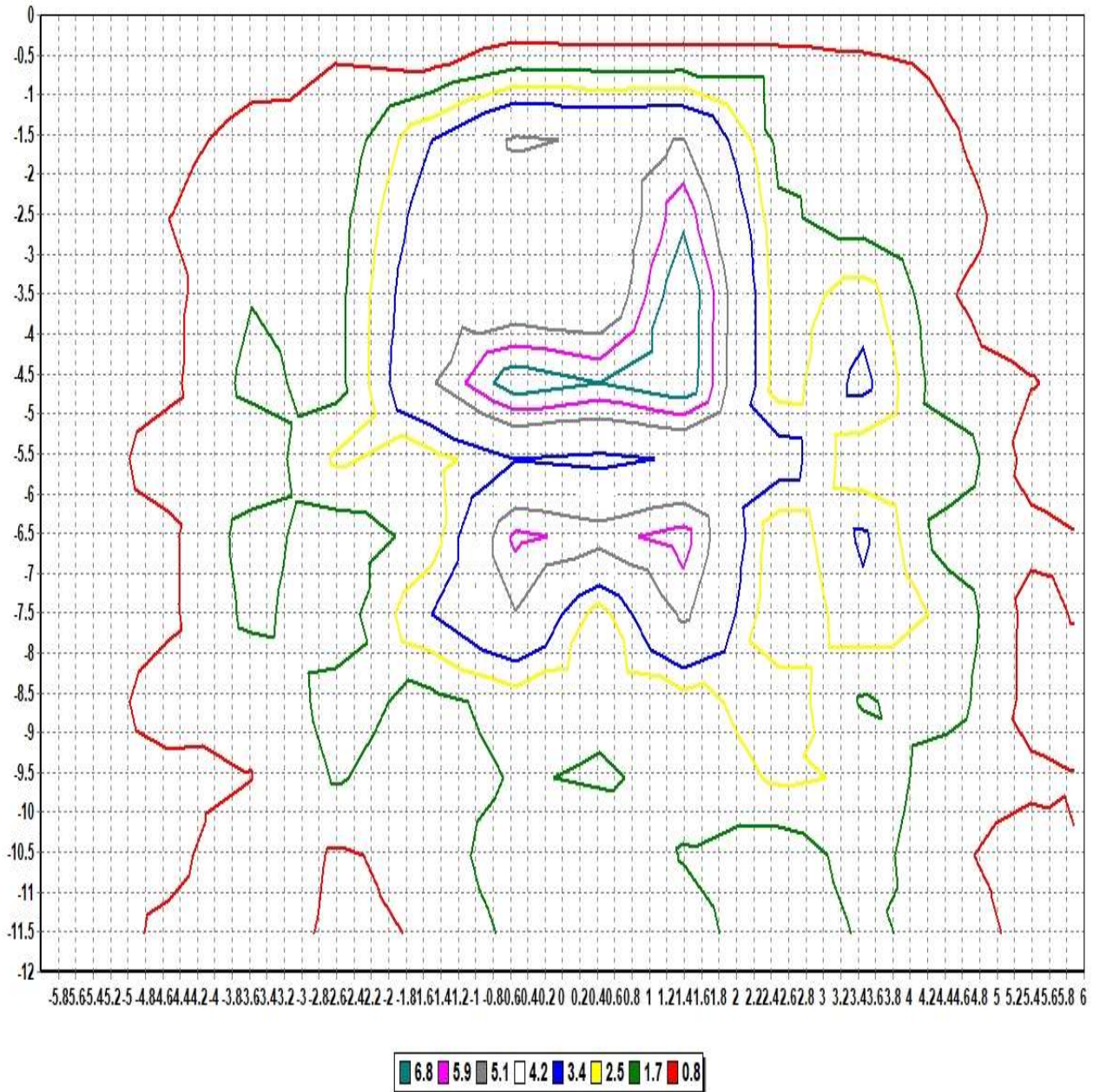
KH FEELUX

No. of lanFilename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp fluxOperator 803 Current (A) 0.41722

Total flux Date 803 Power Factor 1 2024-04-09 오후 5:01:45

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

Report

KH FEELUX

No. of lamps 1

Voltage (V)

23.94Filename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) 803

Current (A)

0.4172Operator

Total flux (lm) 803

Power Factor

1Date

2024-04-09 오후 5:01:45

Illuminance Levels (Ground)

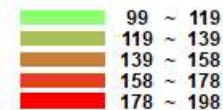
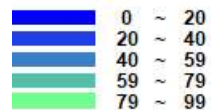
6.00	0.18	0.25	0.22	0.23	0.31	0.35	0.44	0.39	0.23	0.17	0.16	0.20	0.12
5.00	0.19	0.21	0.32	0.48	0.87	1.04	1.21	1.08	0.69	0.37	0.24	0.12	0.16
4.00	0.13	0.22	0.76	1.18	0.99	1.38	1.68	1.40	0.77	1.00	0.51	0.18	0.11
3.00	0.21	0.29	0.91	1.28	4.01	3.18	4.19	2.57	3.26	0.86	0.74	0.26	0.16
2.00	0.25	0.79	0.94	2.80	4.77	8.50	16.15	6.79	3.21	2.40	0.74	0.62	0.20
1.00	0.26	0.85	1.07	2.80	8.06	33.74	120.09	21.90	6.50	2.21	1.04	0.82	0.27
0.00	0.28	0.93	1.22	3.21	10.56	83.47	197.83	86.72	8.66	2.47	0.98	0.72	0.23
-1.00	0.25	0.83	1.06	2.85	8.28	25.60	150.59	44.97	9.92	3.14	1.02	0.76	0.25
-2.00	0.25	0.79	0.92	3.06	4.13	8.63	22.57	10.72	6.01	3.23	1.06	0.89	0.30
-3.00	0.20	0.31	0.96	1.06	4.08	3.22	5.47	3.75	5.45	1.46	1.03	0.35	0.25
-4.00	0.14	0.23	0.65	1.22	0.96	1.67	1.98	1.65	1.11	1.43	0.88	0.26	0.16
-5.00	0.19	0.16	0.30	0.44	0.87	1.32	1.50	1.27	1.00	0.54	0.37	0.25	0.21
-6.00	0.15	0.24	0.19	0.21	0.29	0.44	0.50	0.41	0.36	0.27	0.25	0.28	0.21
-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.) : 197.83

Illum. (Min.) : 0.1133

Illum. (Avg.) : 6.2235

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp Report

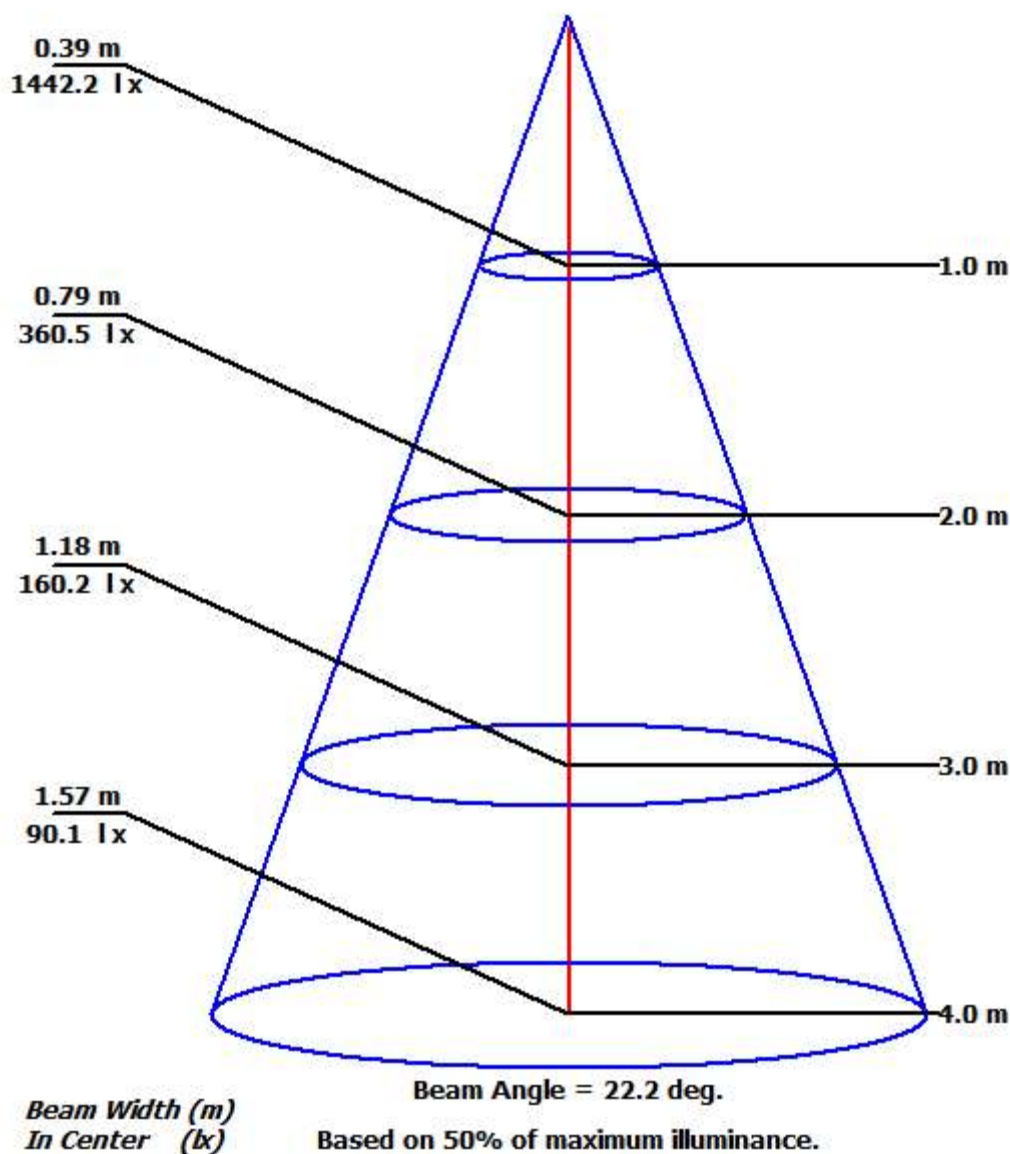
KH FEELUX

No. of lanFilename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp fluxOperator 803 Current (A) 0.41722

Total flux Date 803 Power Factor 1 2024-04-09 오후 5:01:45

Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1 Voltage (V) 23.94Filename 240409 FNL3D SC(22K+40K)-24V-C90-20Dx40D-1M_MASS PRODUCTION VER_40K ON.jdt

Lamp flux (lm) 803 Current (A) 0.4172Operator

Total flux (lm) 803 Power Factor 1Date 2024-04-09 오후 5:01:45

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