

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84
* Date of Receipt : 230508

2. Purpose of Report :

3. Number of Report : 230509

4. Test Standard / Item : / FNL3D-40K-C90-20도-1m

5. Test Period : 230508 ~ 230508

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 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
230509			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.3799 , 0.3709	
Correlated Color Temperature	K	3974	
Ra		92.23	
Power Factor		1.000	
Input Voltage	V	23.905	
Input Current	A	0.783	
Input Watt	W	18.727	
Lamp Flux	lm	1505.1	
Efficient	lm/W	80.37	
luminous Intensity (Max , Center)	cd	3442 , 3392	
Illuminance	lx	3392	1 m
		848	2 m
		377	3 m

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

* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp

Report

230509

No. of lamps 1

Voltage (V) 23.905

Filename FNL3D-40K-C90-20도-1m.jdt

Lamp flux (lm) 1505

Current (A) 0.7834

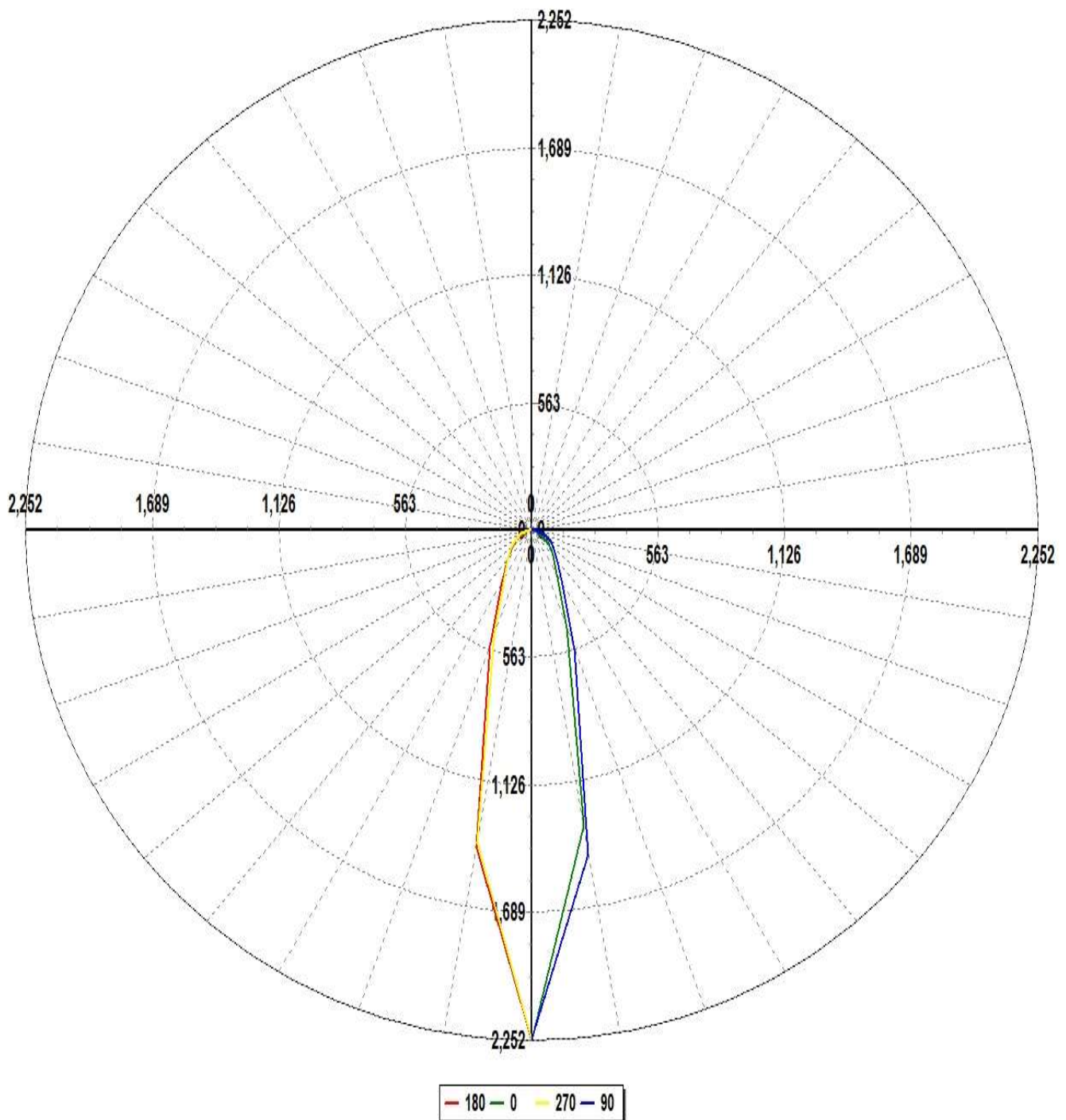
Operator

Total flux (lm) 1505

Power Factor 1

Date 2023-05-09 오후 12:03:58

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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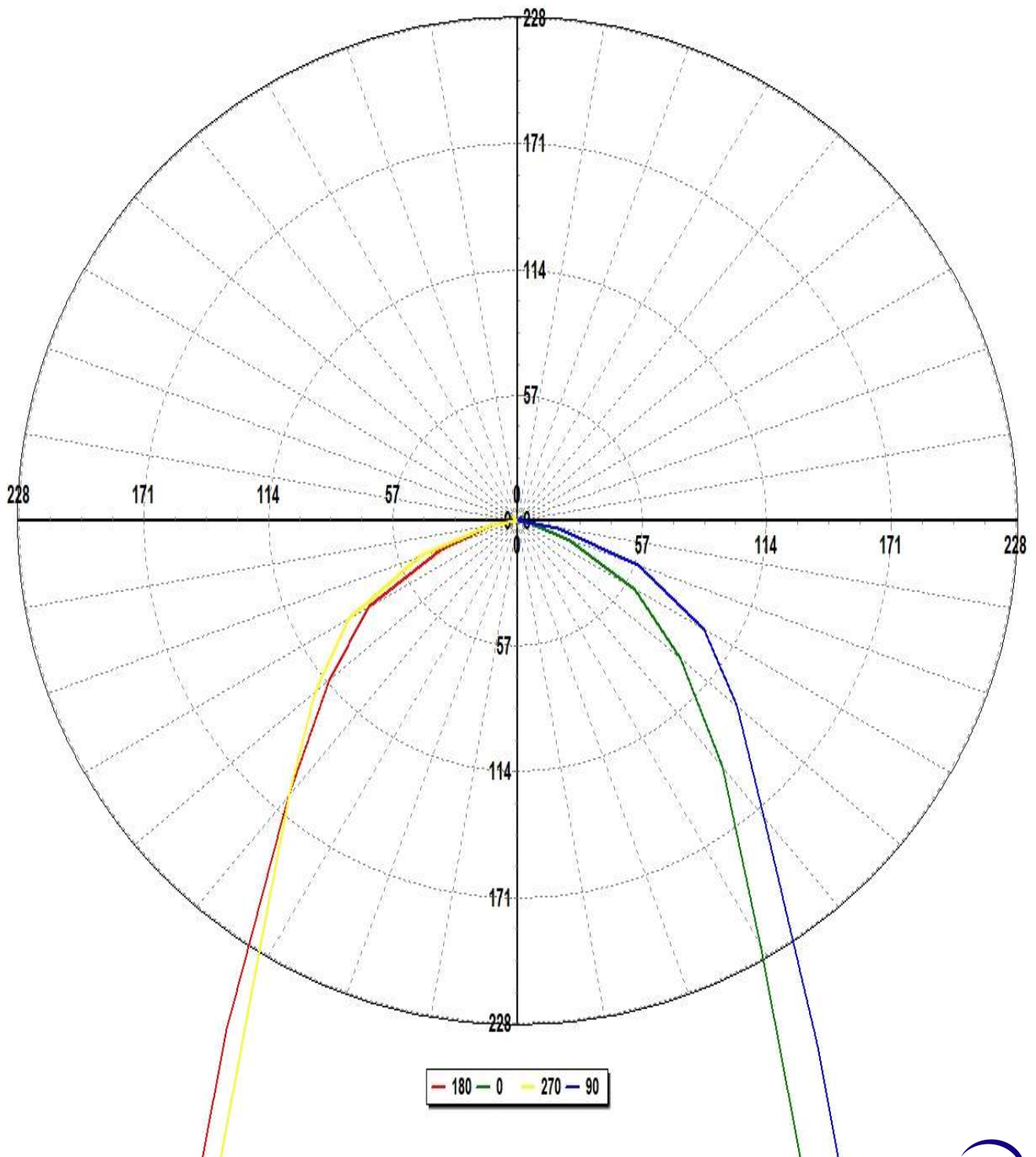
Operator

Total flux (lm) 1505

Power Factor 1

Date 2023-05-09 오후 12:03:58

Luminous Intensity Distribution (Lowest 10%)



Total Optical Solution Provider

Luminaire KH FEELUX

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Operator

Total flux (lm) 1505

Power Factor 1

Date 2023-05-09 오후 12:03:58

Luminous Intensity Data

Maximum (cd) : 3442

Minimum (cd) : 0

G/C	0	30	60	90	120	150	180	210	240	270
0	3392.29	3360.69	3358.97	3382.12	3399.65	3441.74	3392.29	3360.69	3358.97	3382.12
10	1994.08	1769.4	2344.91	2189.69	2658.22	2096.23	2143.63	2411.31	1869.36	2112.31
20	684.26	667.89	843.48	840.41	953.89	801.49	819.95	858.38	718.79	739.95
30	335.11	353.91	391.85	412.74	424.46	397.05	401.12	397.15	378.09	363.38
40	219.28	229.14	256.63	264.29	268.19	248.18	246.2	248.78	252.95	244.93
50	146.7	156.28	187.1	196.78	198.1	170.41	168.77	170.82	185.02	181.78
60	93	103.93	125.48	148.24	136.27	118.09	117.84	117.3	124.28	134.16
70	38.61	47	69.75	88.29	78.12	62.99	56.5	61.91	66.47	71.19
80	10.12	12.1	21.54	28.18	28.16	19.51	18.3	18.53	19.15	19.09
90	0.95	0.81	1.67	1.97	3.63	3.2	2.68	2.91	1.53	0.74
100	1.39	0.89	1.3	0.88	1.06	1.2	0.27	1.41	0.9	1.87
110	0.82	1.5	1.91	1.68	0.97	1.98	0.65	1.58	1.69	2.34
120	2.13	2.27	1.74	1.41	1.95	2.28	1.65	2.48	2.32	1.83
130	4.11	3.61	3.38	3.38	3.05	3.09	3.16	4.01	3.96	4.25

Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.905
Lamp flux (lm)	1505	Current (A)	0.7834
Total flux (lm)	1505	Power Factor	1

Report 230509

Filename FNL3D-40K-C90-20도-1m.jdt

Operator

Date 2023-05-09 오후 12:03:58

Luminous Intensity Data (Continued)

Maximum (cd) : 3442

Minimum (cd) : 0

G/C	300	330	360
0	3399.65	3441.74	3392.29
10	1693.23	2089.12	1994.08
20	642.04	716.24	684.26
30	348.97	349.33	335.11
40	239.54	227.99	219.28
50	172.65	155.43	146.7
60	113.13	103.83	93
70	58.02	45.98	38.61
80	13.46	11.76	10.12
90	0.3	0.76	0.95
100	1.32	0.84	1.39
110	1.17	1.39	0.82
120	2.44	2.15	2.13
130	4.32	3.98	4.11

Luminaire KH FEELUX

Lamp

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Power Factor 1

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Luminous Flux Table

Total Lamp Lumens: 1505.1

Luminaire Efficiency (lm/W): 80.37

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	81.03	81.03	5.38	5.38
10	402.11	483.14	32.10	32.10
20	289.90	773.04	51.36	51.36
30	207.78	980.82	65.17	65.17
40	172.84	1153.66	76.65	76.65
50	146.11	1299.77	86.36	86.36
60	113.47	1413.24	93.90	93.90
70	63.88	1477.12	98.14	98.14
80	19.76	1496.88	99.45	99.46
90	1.93	1498.81	99.58	99.58
100	1.20	1500.01	99.66	99.66
110	1.52	1501.53	99.76	99.76
120	1.95	1503.48	99.89	99.89
130	1.61	1505.08	100.00	100.00

Luminaire KH FEELUX

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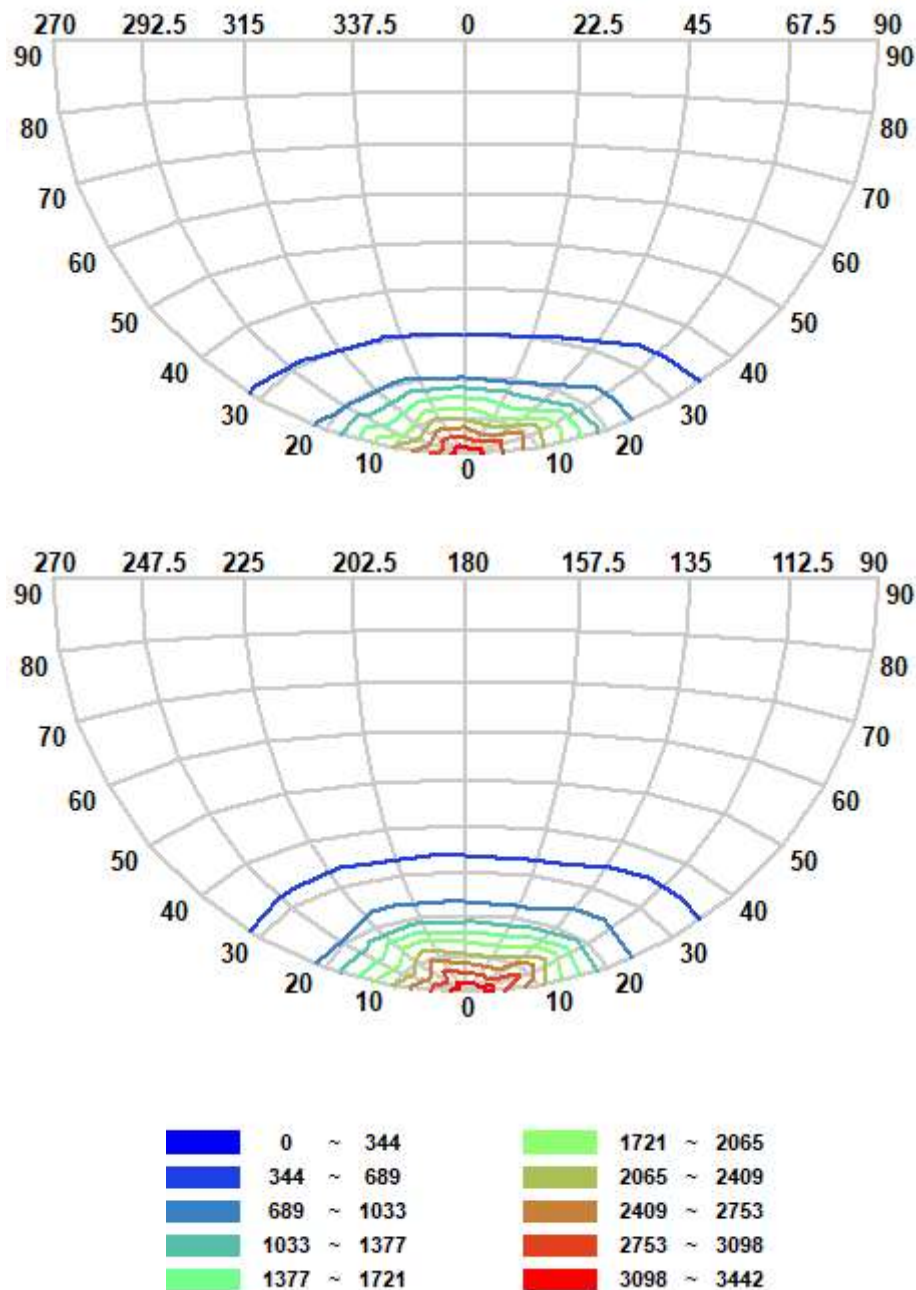
Operator

Total flux (lm) 1505

Power Factor 1

Date 2023-05-09 오후 12:03:58

IsoCandela (Type C)



Luminaire KH FEELUX

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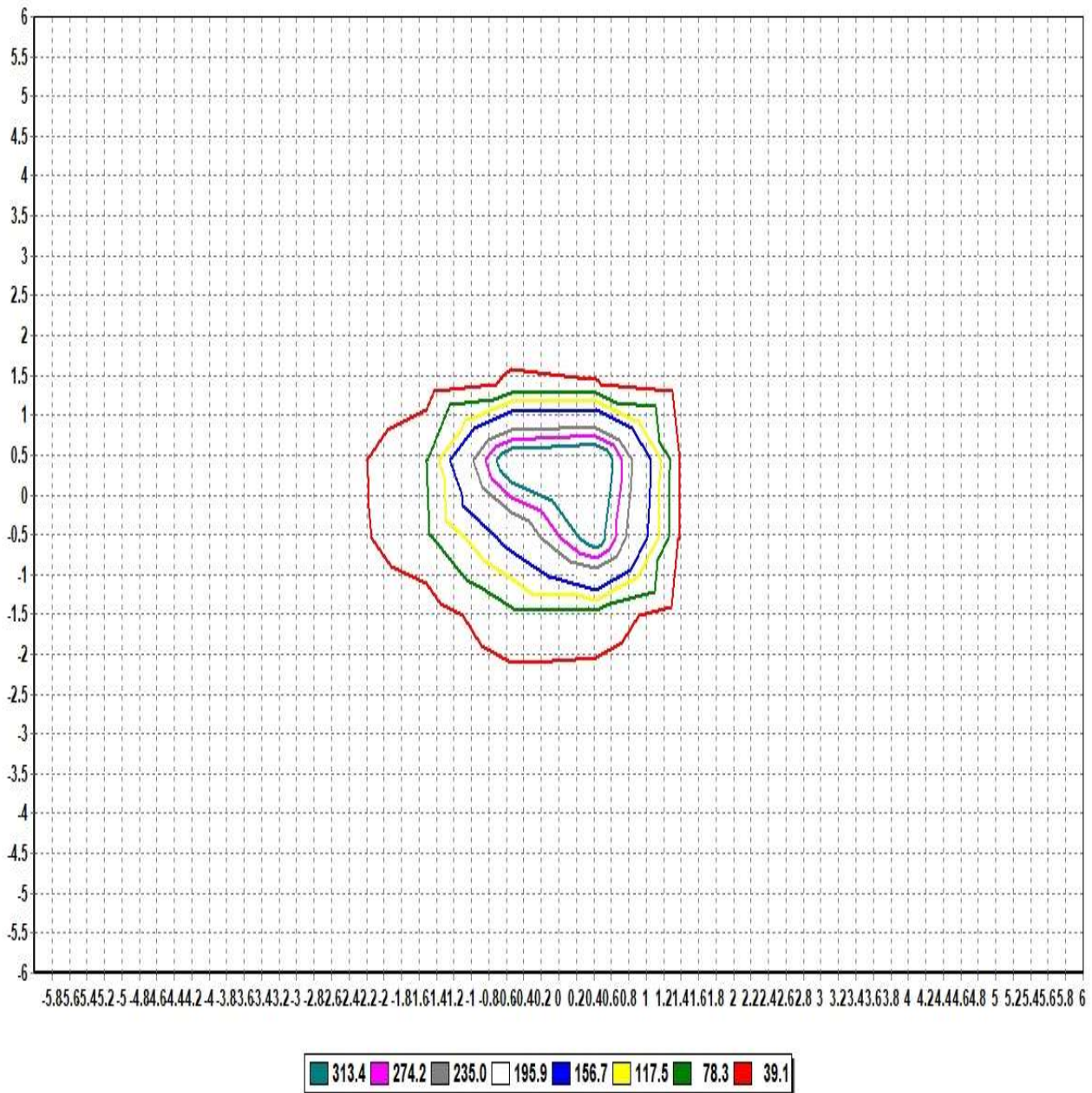
Operator

Total flux (lm) 1505

Power Factor 1

Date 2023-05-09 오후 12:03:58

IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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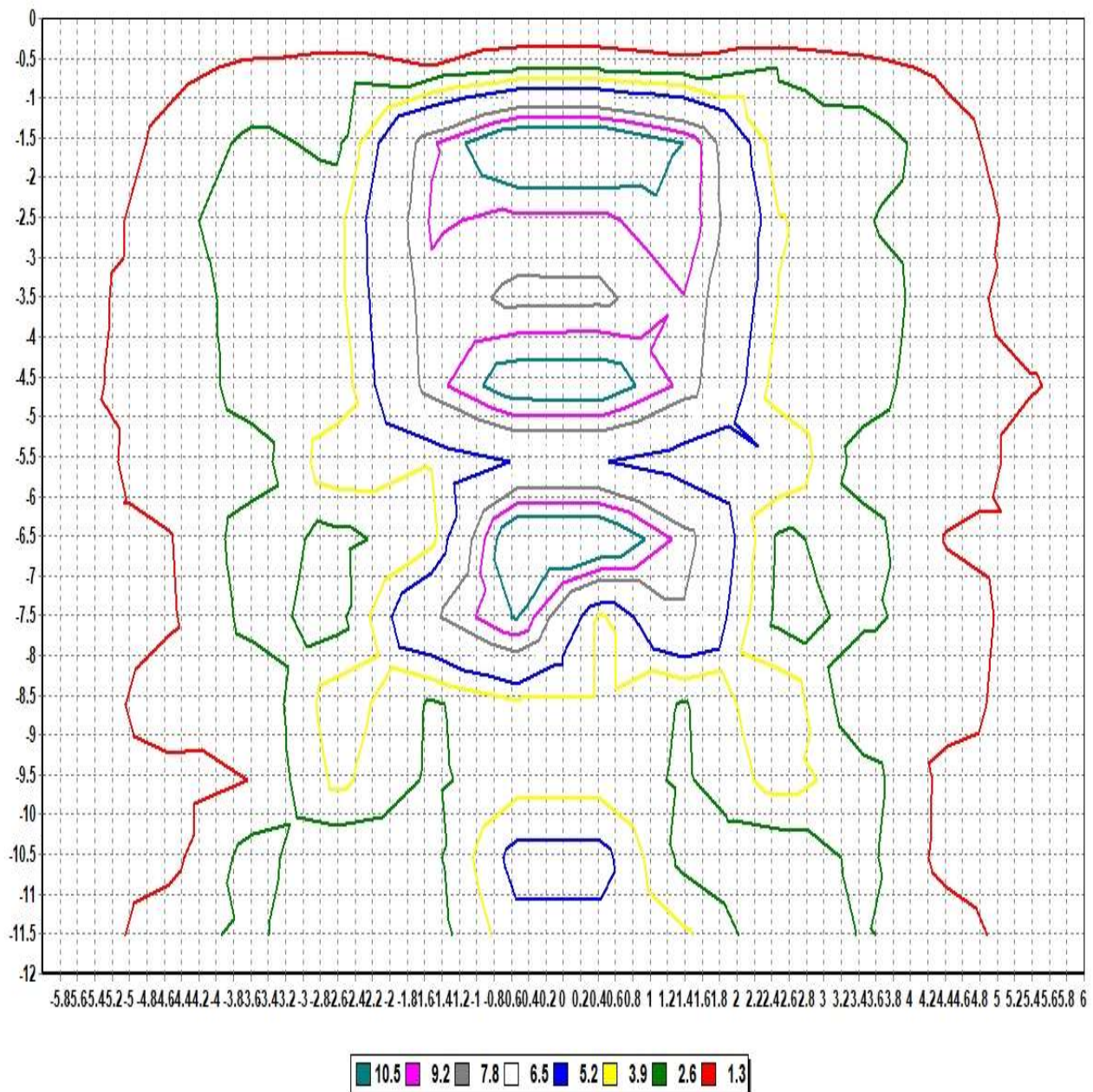
Operator

Total flux (lm) 1505

Power Factor 1

Date 2023-05-09 오후 12:03:58

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

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Lamp flux (lm)	1505	Current (A)	0.7834
Total flux (lm)	1505	Power Factor	1

Report 230509

Filename FNL3D-40K-C90-20도-1m.jdt

Operator

Date 2023-05-09 오후 12:03:58

Illuminance Levels (Ground)

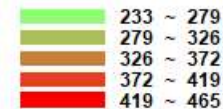
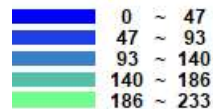
6.00	0.49	0.66	0.53	0.65	0.83	0.90	1.08	0.97	0.61	0.43	0.41	0.54	0.33
5.00	0.57	0.55	0.82	1.19	2.20	2.51	2.78	2.56	1.81	0.98	0.64	0.30	0.44
4.00	0.40	0.67	1.89	2.78	2.73	3.47	4.03	3.50	2.13	2.51	1.40	0.46	0.25
3.00	0.62	0.92	2.47	3.31	7.19	7.55	8.63	6.45	6.83	2.37	2.06	0.66	0.41
2.00	0.75	2.11	2.67	6.68	10.06	17.14	22.48	14.85	8.05	5.83	2.06	1.68	0.51
1.00	0.75	2.23	3.03	7.17	17.02	50.66	242.76	40.30	14.57	5.86	2.61	1.98	0.60
0.00	0.78	2.36	3.32	7.56	21.35	237.65	465.33	220.78	18.47	6.62	2.75	2.03	0.58
-1.00	0.76	2.23	3.04	6.53	15.92	47.94	233.92	41.48	15.18	6.36	2.59	1.95	0.57
-2.00	0.65	1.88	2.34	6.56	8.96	15.96	20.36	15.31	9.08	6.10	2.25	1.84	0.59
-3.00	0.51	0.88	2.37	2.77	6.81	6.76	7.98	6.74	6.62	2.91	2.22	0.76	0.48
-4.00	0.36	0.60	1.60	2.53	2.35	3.31	3.68	3.30	2.31	2.52	1.68	0.53	0.30
-5.00	0.54	0.40	0.66	0.96	1.93	2.42	2.56	2.42	1.93	1.03	0.68	0.44	0.49
-6.00	0.40	0.56	0.41	0.52	0.67	0.86	0.93	0.84	0.67	0.50	0.43	0.58	0.42
-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.) : 465.33

Illum. (Min.) : 0.2515

Illum. (Avg.) : 12.680

All illuminance level values are in lux.



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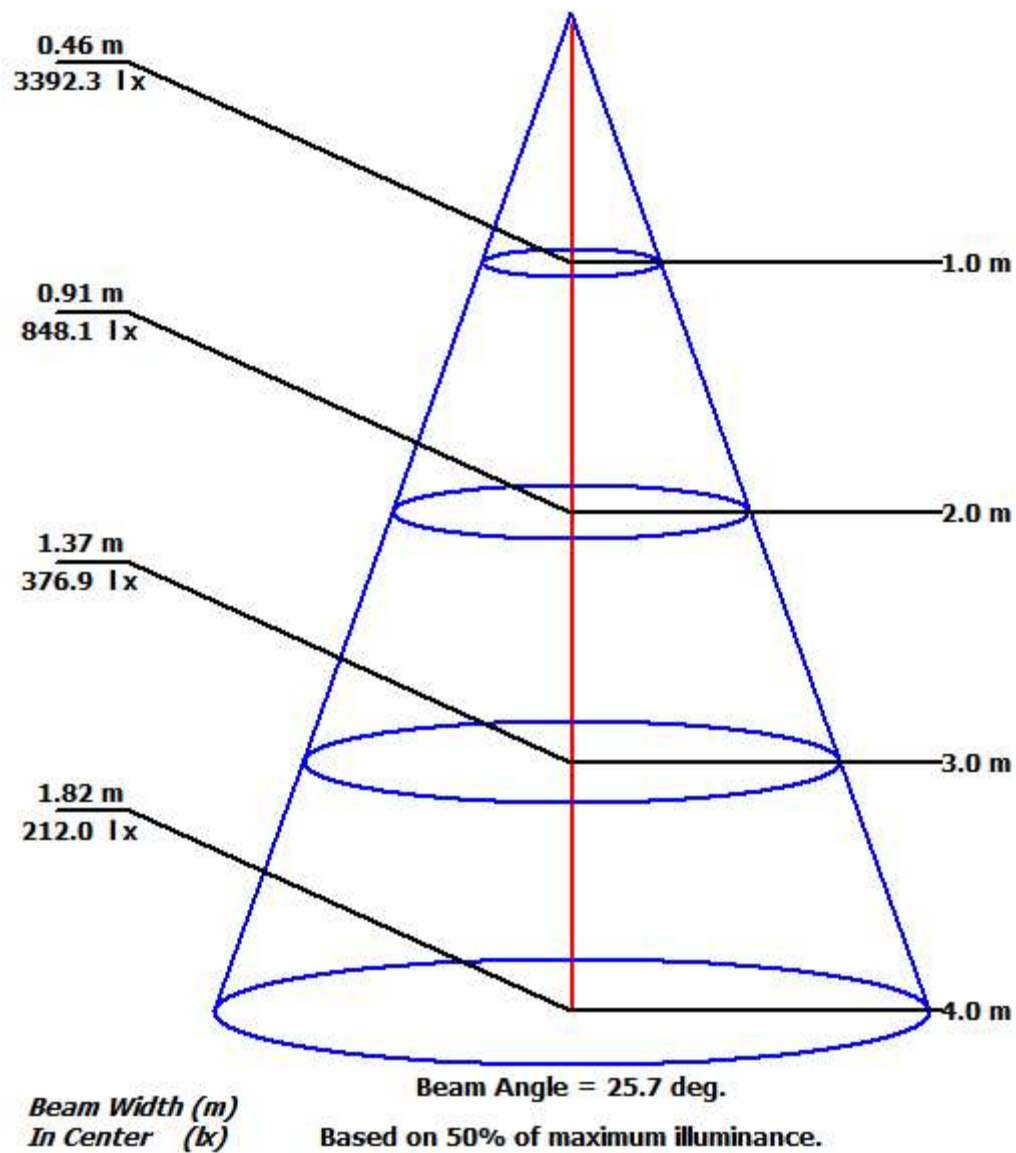
Operator

Total flux (lm) 1505

Power Factor 1

Date 2023-05-09 오후 12:03:58

Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 1505 Current (A) 0.7834

Operator

Total flux (lm) 1505 Power Factor 1

Date 2023-05-09 오후 12:03:58

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