

# TEST REPORT

**1. Applicant**

\* Client Name :  
\* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844  
\* Date of Receipt : 231006

**2. Purpose of Report :****3. Number of Report :** KH FEELUX**4. Test Standard / Item :** / 231004 NDF20 35K-120V FF 28NS9 F2309 VER2.42**5. Test Period :** 231006 ~ 231006**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	
	JSY	Sign	JSY	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
KH FEELUX			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	22.9	
CIE 1931 Cx, Cy		0.4120 , 0.3916	
Correlated Color Temperature	K	3368	
Ra		93.2	
Power Factor		0.975	
Input Voltage	V	120.18	
Input Current	A	0.170	
Input Watt	W	19.881	
Lamp Flux	lm	1648.5	
Efficient	lm/W	82.92	
luminous Intensity (Max , Center)	cd	533 , 533	
Illuminance	lx	533	1 m
		133	2 m
		59	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 lamps 1

Voltage (\Filename 231004 NDF20 35K-120V FF 28NS9 F2309 VER2.42.jdt

Lamp flux (lm) 1649

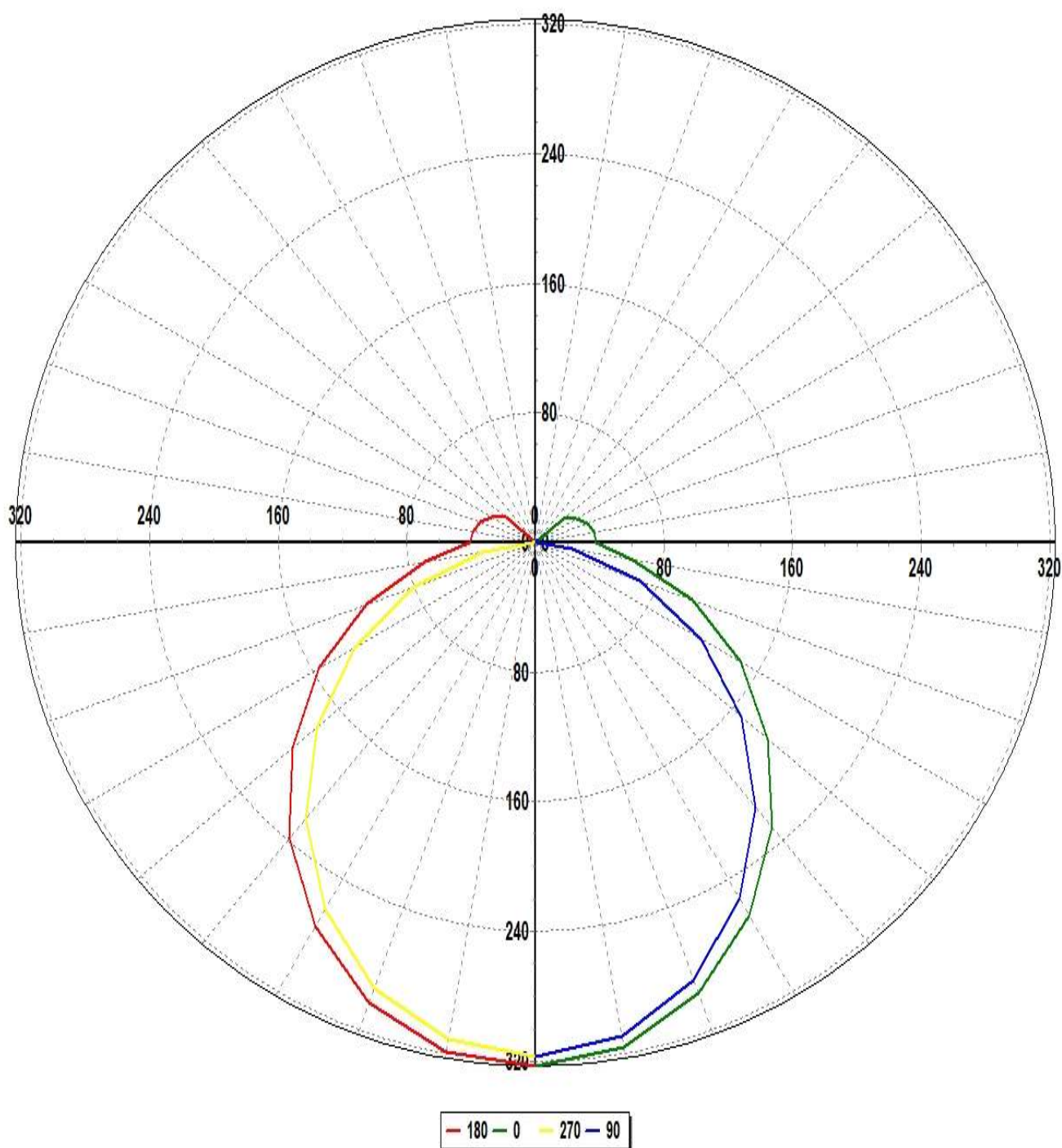
Current (/Operator 0.16975

Total flux (lm) 1649

Power FaDate 0.9745

2023-10-04 오전 11:56:10

## Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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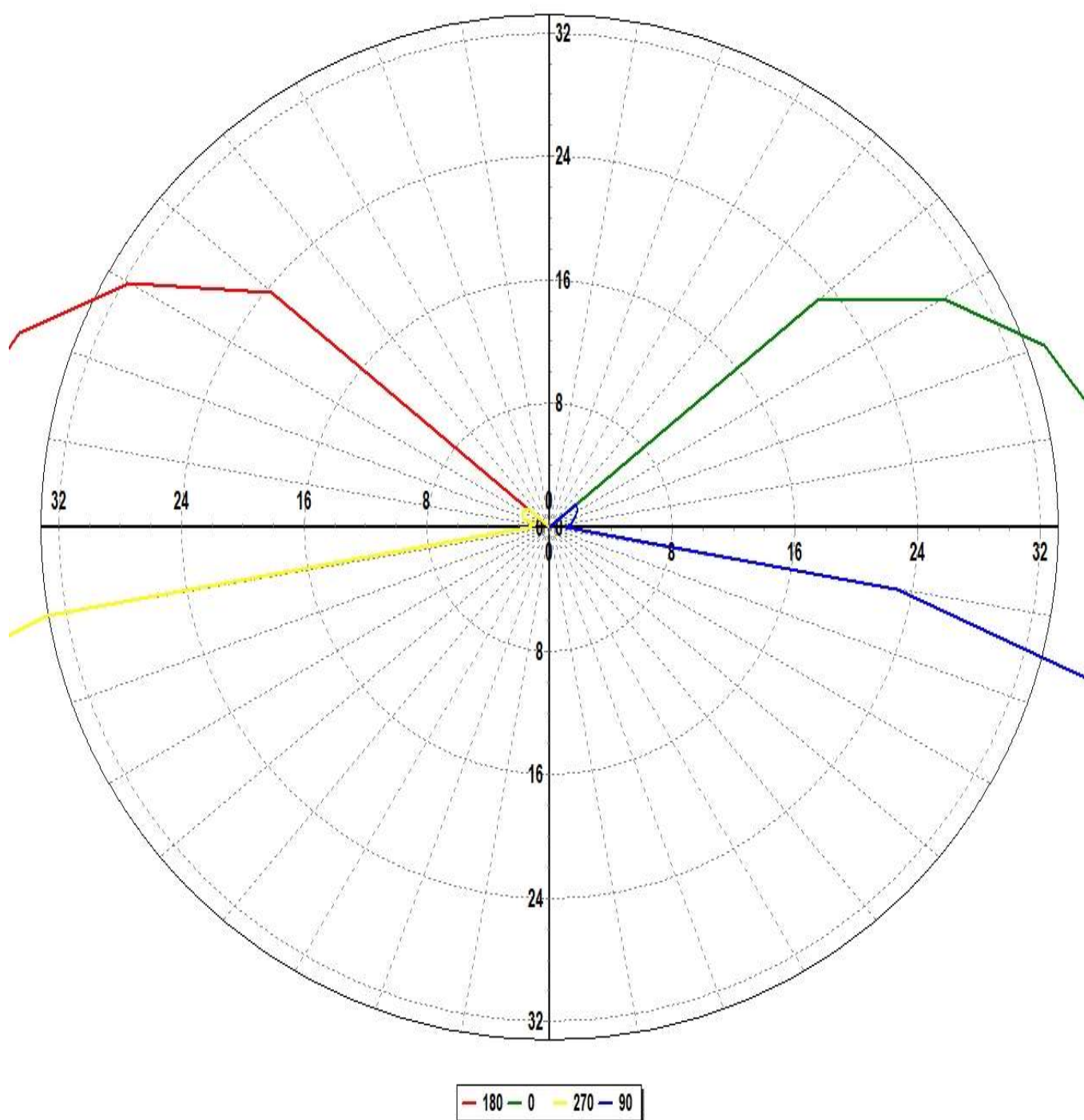
Current (/Operator 0.16975

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Power FaDate 0.9745

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## Luminous Intensity Distribution (Lowest 10%)



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## Luminous Intensity Data

Maximum (cd) : 533

Minimum (cd) : 2

G/C	0	30	60	90	120	150	180	210	240	270	300
0	532.99	529.07	526.17	524	521.84	521.17	532.99	529.07	526.17	524	521.84
10	520.94	516.17	512.22	510.31	509.34	507.55	527.09	521.83	516.7	513.92	511.68
20	487.92	482.62	478.32	473.65	475.43	476.19	498.26	494.14	486.4	482.57	480.77
30	438.88	432.03	426.16	418.58	423.64	426.9	451.48	446.98	437.22	431.11	431.72
40	378.11	370.06	360.89	351.17	358.8	365.94	392.27	386.43	372.91	366.37	369.58
50	311.38	302.49	289.28	276.06	287.7	298.53	325.32	320.1	302.32	292.5	298.22
60	242.44	230.88	213.82	196.56	212.98	227.43	255.88	248.49	228.3	214.12	225.33
70	170.99	157.64	136.97	114.14	136.08	155.25	184.52	175.28	151.4	133.17	150.26
80	101.35	88.61	64.2	37.98	63.58	87.38	115	103.69	77.99	54.88	76.62
90	61.94	51.47	26.5	1.78	27.16	54.04	67.61	55.42	27.6	2.23	26.09
100	60.74	50.01	25.33	2.35	26.79	52.57	64.6	53.62	26.53	1.56	25.5
110	56.63	47.8	18.9	2.87	17.53	49.11	60.65	48.19	23.68	3.05	24.28
120	48.85	37.15	3.71	3.56	3.23	36.43	52.18	41.02	2.84	3.3	3.12
130	37.56	11.63	11.28	3.79	10.85	5.11	38.99	29.07	10.22	2.97	11.18

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## Luminous Intensity Data (Continued)

Maximum (cd) : 533

Minimum (cd) : 2

G/C	330	360
0	521.17	532.99
10	510.93	520.94
20	482.97	487.92
30	436.84	438.88
40	378.01	378.11
50	312.73	311.38
60	243.41	242.44
70	171.5	170.99
80	103.02	101.35
90	51.48	61.94
100	49.19	60.74
110	47.41	56.63
120	38.7	48.85
130	25.67	37.56

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## Luminous Flux Table

Total Lamp Lumens: 1648.5

Luminaire Efficiency (lm/W): 82.92

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	12.57	12.57	0.76	0.76
10	97.92	110.50	6.70	6.70
20	181.03	291.53	17.68	17.68
30	237.37	528.90	32.08	32.08
40	261.10	790.00	47.92	47.92
50	252.86	1042.86	63.26	63.26
60	216.54	1259.40	76.40	76.40
70	157.57	1416.97	85.96	85.95
80	87.57	1504.54	91.27	91.27
90	41.37	1545.92	93.78	93.78
100	39.44	1585.36	96.17	96.17
110	34.31	1619.67	98.25	98.25
120	21.66	1641.34	99.57	99.56
130	7.19	1648.52	100.00	100.00



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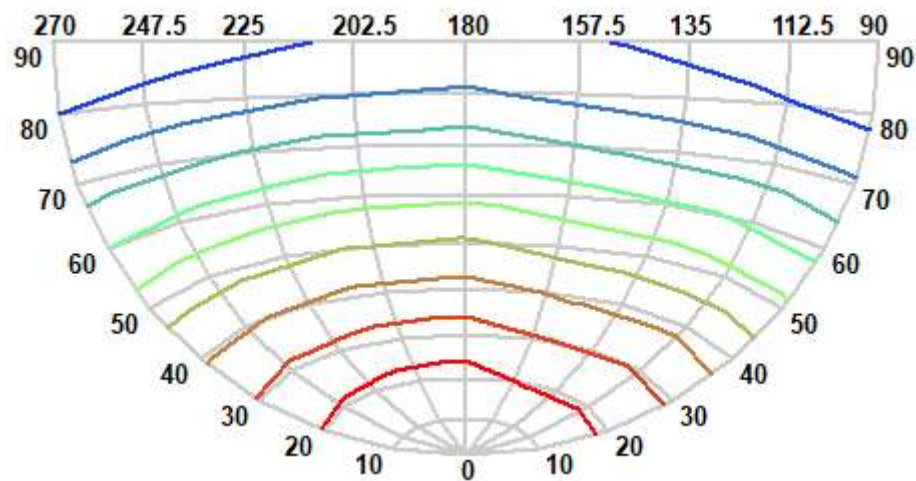
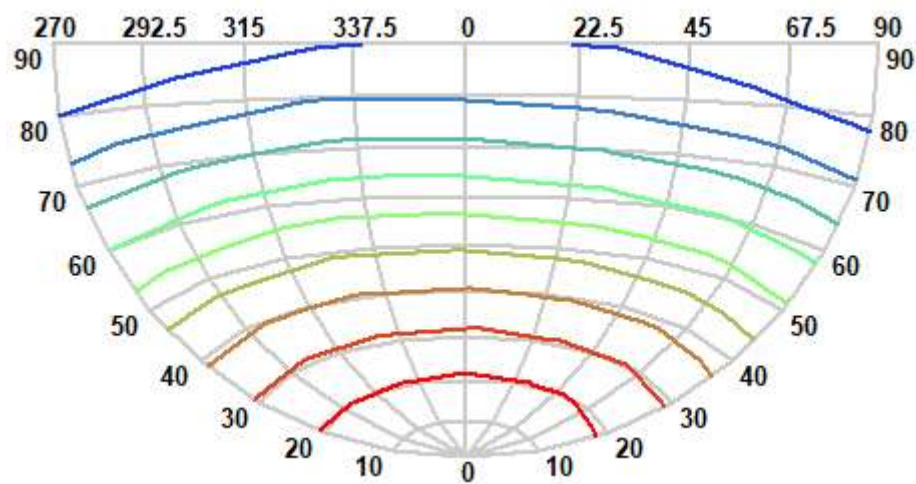
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## IsoCandela (Type C)





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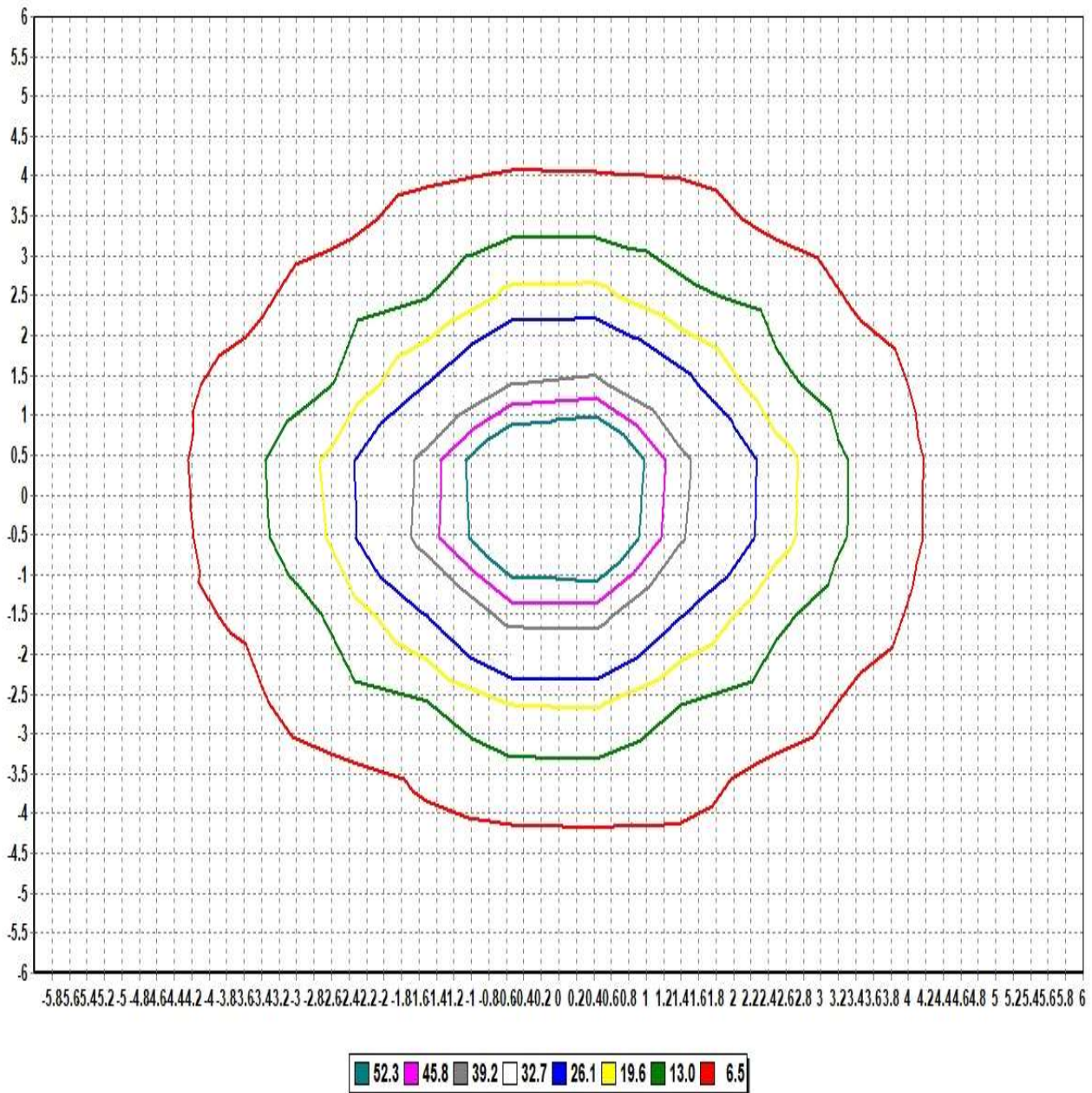
Current (\Operator 0.16975

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## IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

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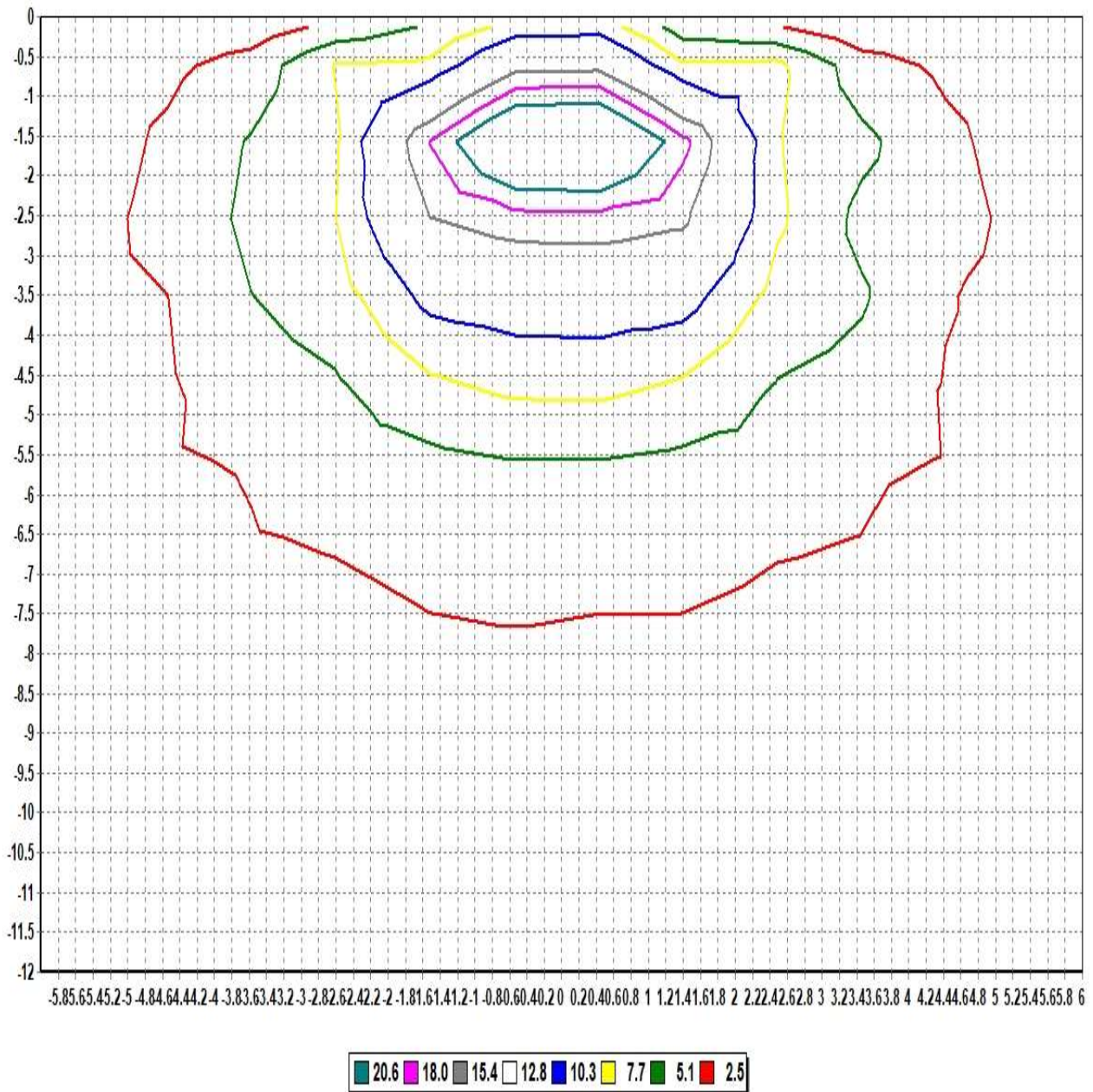
Current (/Operator 0.16975

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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 KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1

Voltage (V) 120.18

Filename 231004 NDF20 35K-120V FF 28NS9 F2309 VER2.42.jdt

Lamp flux (lm) 1649

Current (A) 0.16975

Operator

Total flux (lm) 1649

Power Factor 0.9745

Date

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## Illuminance Levels (Ground)

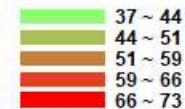
6.00	0.71	0.93	0.72	1.06	1.26	1.47	1.41	1.40	1.44	1.21	0.85	1.02	0.84
5.00	1.03	0.82	1.16	1.57	3.20	3.77	3.87	3.72	3.39	1.78	1.32	1.06	1.11
4.00	0.93	1.37	2.71	3.91	4.16	5.20	5.49	5.18	4.49	4.12	3.02	1.51	1.02
3.00	1.09	1.93	4.18	4.75	9.70	10.77	11.95	11.30	10.03	5.39	4.39	2.09	1.24
2.00	1.39	3.28	4.22	10.15	13.94	22.58	26.66	23.27	14.97	10.51	4.55	3.47	1.54
1.00	1.86	4.22	5.98	11.09	22.68	41.35	57.59	42.64	23.39	11.61	5.98	4.18	1.83
0.00	2.04	4.62	6.82	13.91	29.38	59.52	73.11	58.81	28.41	13.33	6.49	4.42	1.91
-1.00	1.77	4.13	5.94	12.22	24.40	43.89	58.02	42.27	23.36	11.54	5.98	4.18	1.83
-2.00	1.67	3.68	4.87	10.94	15.68	24.26	27.68	23.28	14.54	10.52	4.46	3.43	1.51
-3.00	1.36	2.23	4.60	5.72	10.41	11.89	12.61	11.25	10.15	5.06	4.38	2.09	1.19
-4.00	1.11	1.63	3.19	4.33	4.82	5.53	5.90	5.55	4.40	4.14	2.87	1.50	1.02
-5.00	1.18	1.16	1.45	1.93	3.59	3.94	4.12	3.97	3.35	1.76	1.29	0.93	1.10
-6.00	0.90	1.09	0.94	1.33	1.57	1.56	1.59	1.62	1.39	1.16	0.83	1.01	0.77
-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.) : 73.113

Illum. (Min.) : 0.7115

Illum. (Avg.) : 8.2975

All illuminance level values are in lux.





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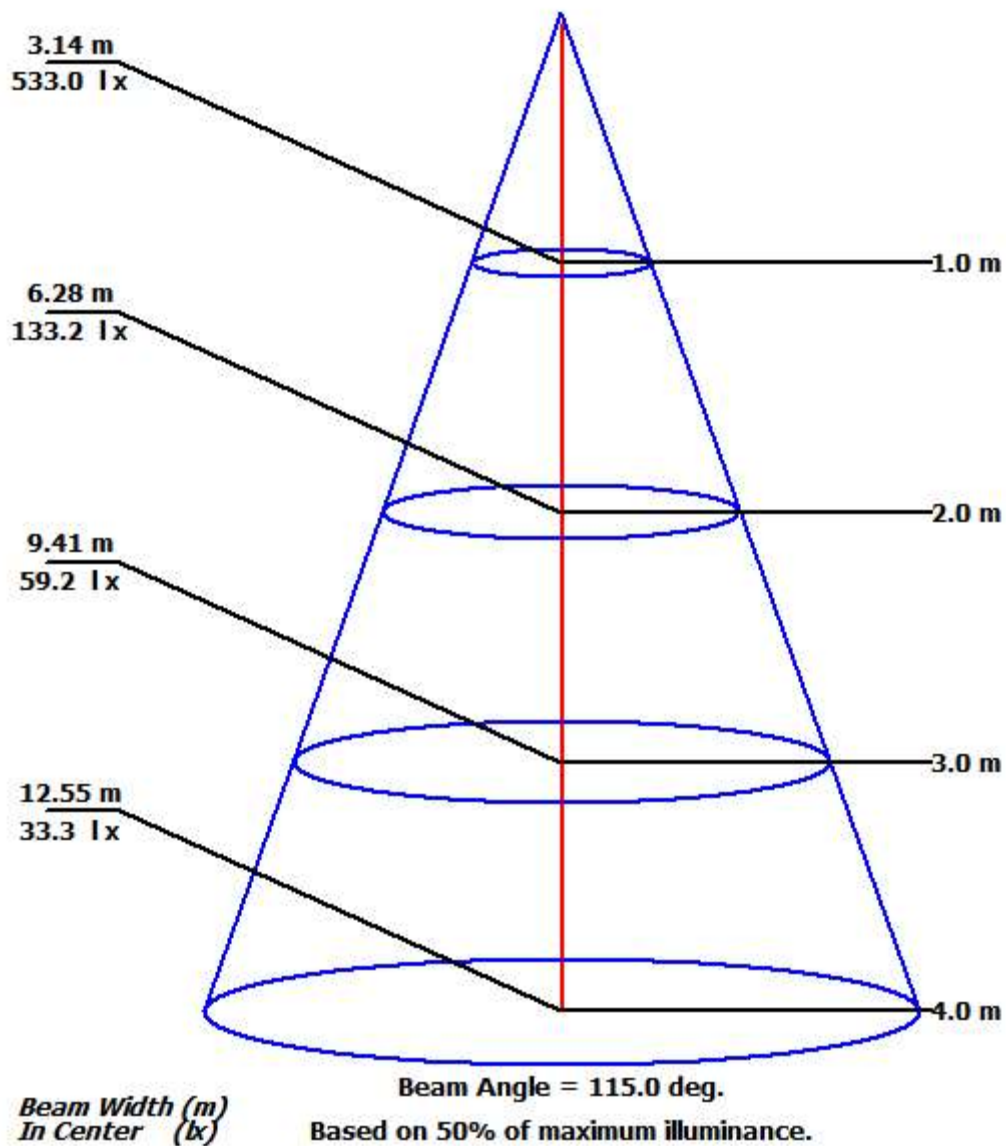
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## Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

Report

KH FEELUX

No. of lamps 1 Voltage (V) 120.18

Filename 231004 NDF20 35K-120V FF 28NS9 F2309 VER2.42.jdt

Lamp flux (lm) 1649 Current (A) 0.16975

Operator

Total flux (lm) 1649 Power Factor 0.9745

Date

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## 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