

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84
* Date of Receipt : 230512

2. Purpose of Report :

3. Number of Report : 230511

4. Test Standard / Item : / NDF15 F.F 120V 27K

5. Test Period : 230512 ~ 230512

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
230511			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	24.5	
CIE 1931 Cx, Cy		0.4598 , 0.4070	
Correlated Color Temperature	K	2669	
Ra		93.24	
Power Factor		0.971	
Input Voltage	V	120.29	
Input Current	A	0.132	
Input Watt	W	15.427	
Lamp Flux	lm	1114.4	
Efficient	lm/W	72.24	
luminous Intensity (Max , Center)	cd	357 , 357	
Illuminance	lx	357	1 m
		89	2 m
		40	3 m

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

* Sample photo

[Click to load image](#)

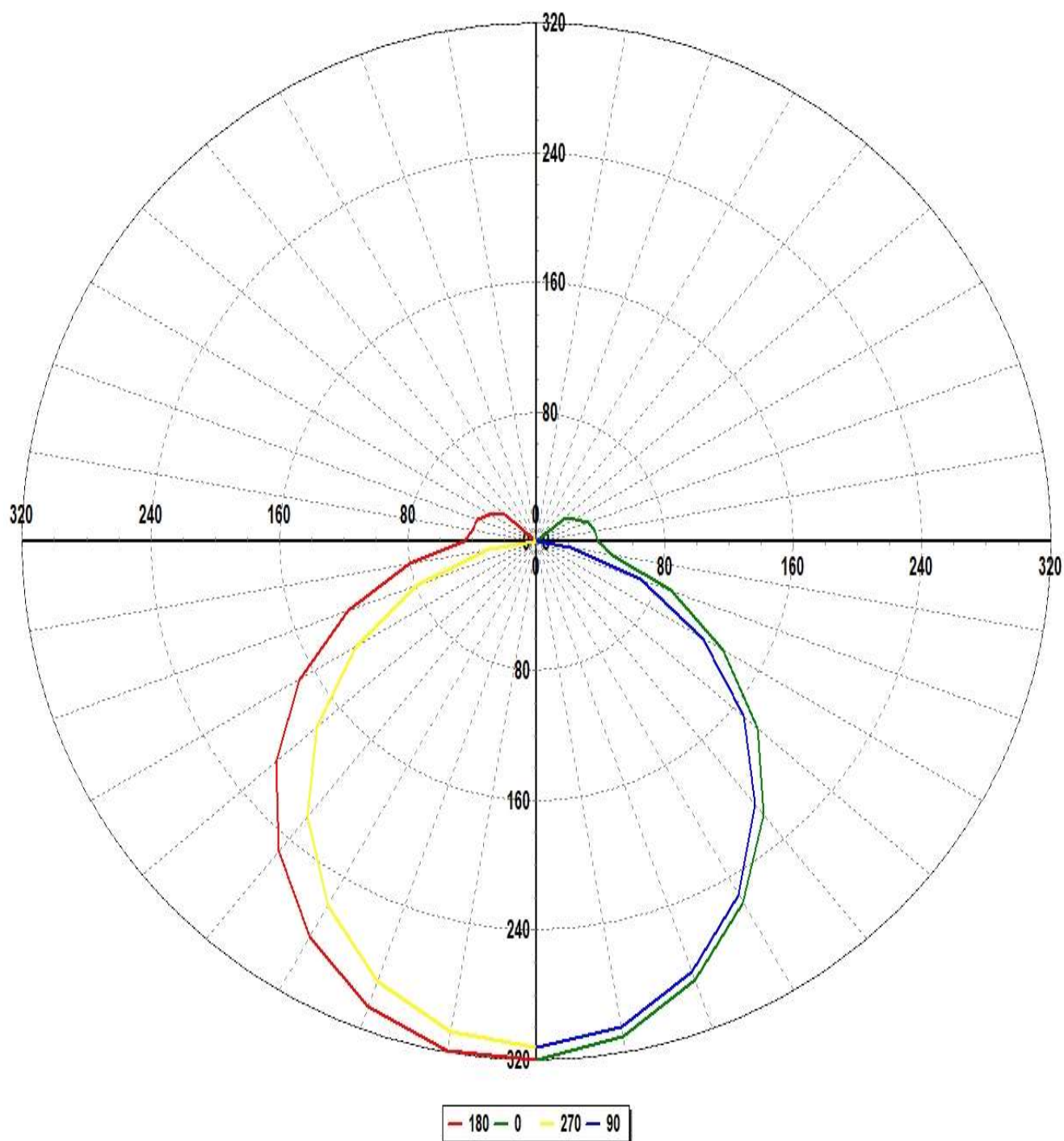
Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	120.29
Lamp flux (lm)	1114	Current (A)	0.13205
Total flux (lm)	1114	Power Factor	0.9712

Report	230511
Filename	NDF15 F.F 120V 27K.jdt
Operator	
Date	2023-05-11 오후 7:36:13

Luminous Intensity Distribution



Luminaire KH FEELUX

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Voltage (V) 120.29

Lamp flux (lm) 1114

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Total flux (lm) 1114

Power Factor 0.9712

Report

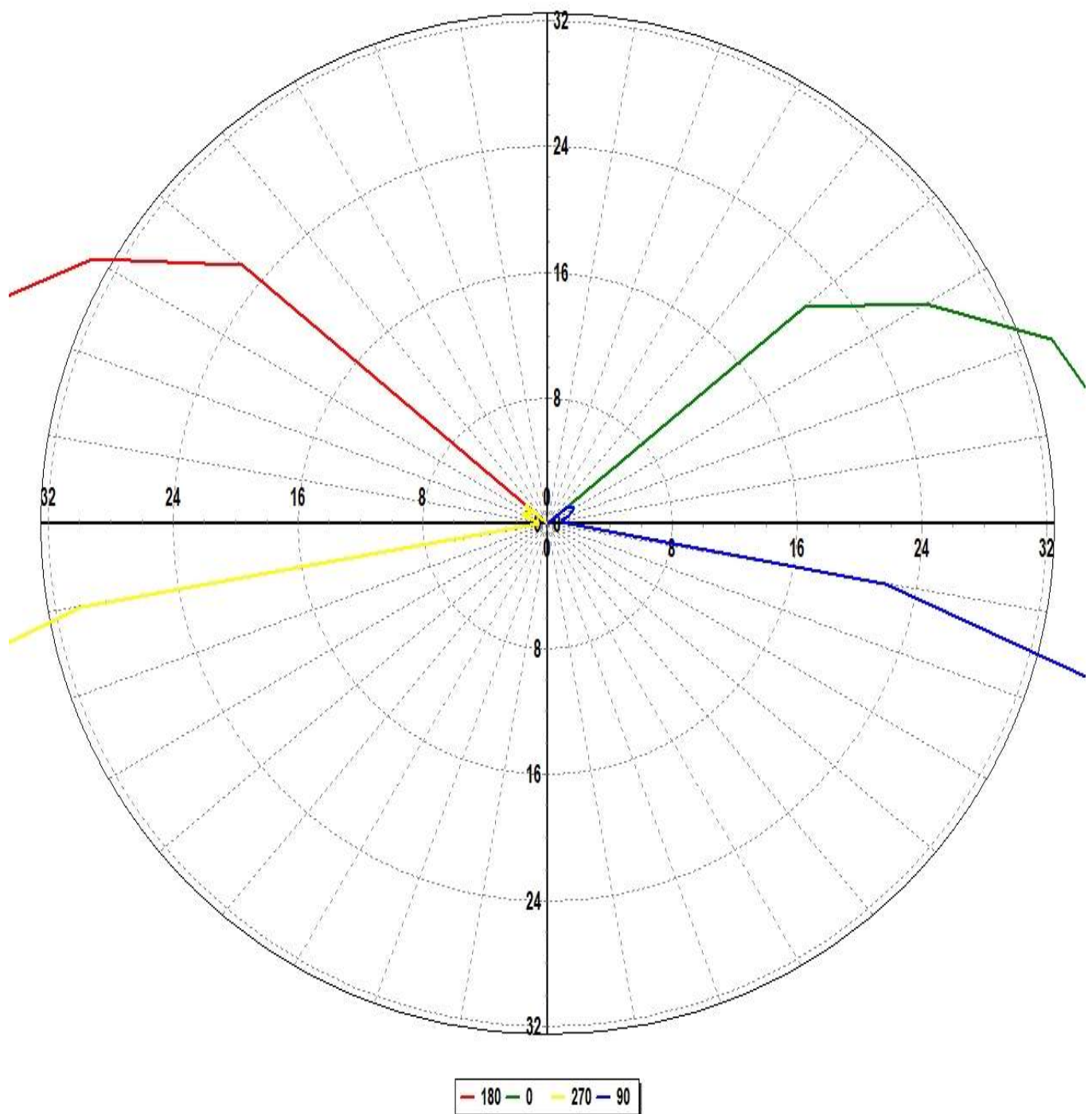
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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Power Factor 0.9712

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Luminous Intensity Data

Maximum (cd) : 357

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	356.82	353.42	350.67	348.5	346.51	346.95	356.82	353.42	350.67	348.5	346.51
10	345.73	341.93	340.38	339.64	341.58	342.46	355.42	351.65	346.82	342.38	339.63
20	321.25	316.7	315.95	315.48	320.89	326.14	340.55	336.73	328.42	322.01	318.26
30	286.84	281.83	281.23	280.3	290.35	296.73	314.21	310.04	298.49	289.22	284.57
40	245.59	240.58	238	236.01	249.68	259.25	277.95	272.75	258.73	247.37	243.4
50	199.93	193.32	189.88	187.45	202.82	216.2	235.61	230.37	213.44	198.35	196.96
60	149.26	143.74	137.86	133.2	153.24	169.09	189.54	182.66	162.95	144.64	144.78
70	99.28	92.54	84.84	76.67	101.31	120.01	139.26	132.6	110.11	88.38	92.1
80	53.61	47.7	35.33	24.52	49.94	71.3	89.19	80.92	57.44	33.87	41.95
90	42.62	34.84	17.51	1.46	19.67	37.86	50.22	40.37	19.46	0.61	18.32
100	40.87	33.71	18.46	1.01	20.61	37.46	45.28	37.86	19.71	0.73	18.54
110	38.34	31.33	10.97	1.64	13.5	35.92	43.82	35.87	19.7	1.93	16.81
120	31.2	21.62	1.83	2.18	2.38	26.91	37.52	27.29	2	1.34	1.82
130	23.98	8.56	7.76	1.9	10.37	12.17	28.5	18.36	8.69	2.07	8.72

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Luminous Intensity Data (Continued)

Maximum (cd) : 357

Minimum (cd) : 1

G/C	330	360
0	346.95	356.82
10	337.73	345.73
20	316.37	321.25
30	283.27	286.84
40	243.58	245.59
50	199.11	199.93
60	150.33	149.26
70	99.41	99.28
80	53.05	53.61
90	34.73	42.62
100	34.41	40.87
110	32.08	38.34
120	23.79	31.2
130	14.98	23.98

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Luminous Flux Table

Total Lamp Lumens: 1114.4

Luminaire Efficiency (lm/W): 72.24

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	8.38	8.38	0.75	0.75
10	65.38	73.76	6.62	6.62
20	121.08	194.84	17.48	17.48
30	159.59	354.43	31.80	31.80
40	176.76	531.19	47.67	47.66
50	172.23	703.42	63.12	63.12
60	147.12	850.54	76.32	76.32
70	106.05	956.59	85.84	85.84
80	57.42	1014.01	90.99	90.99
90	28.99	1043.00	93.59	93.59
100	27.74	1070.74	96.08	96.08
110	24.18	1094.92	98.25	98.25
120	14.22	1109.14	99.53	99.53
130	5.29	1114.43	100.00	100.00

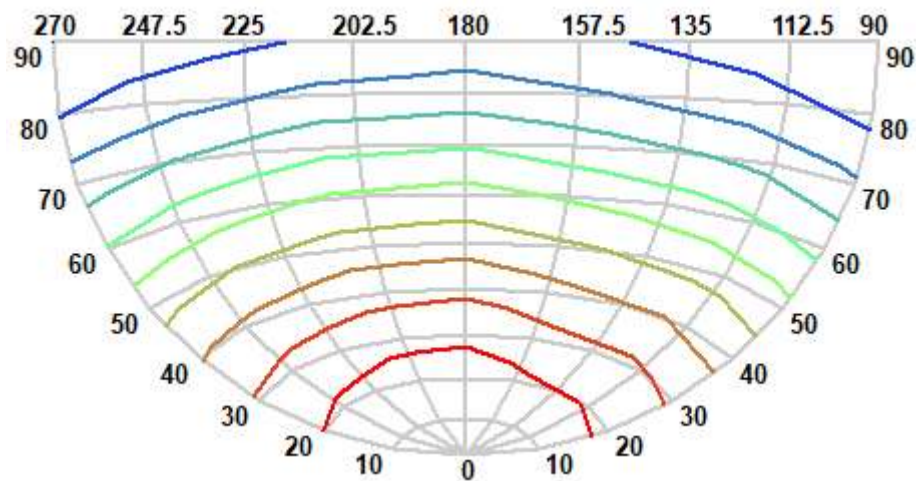
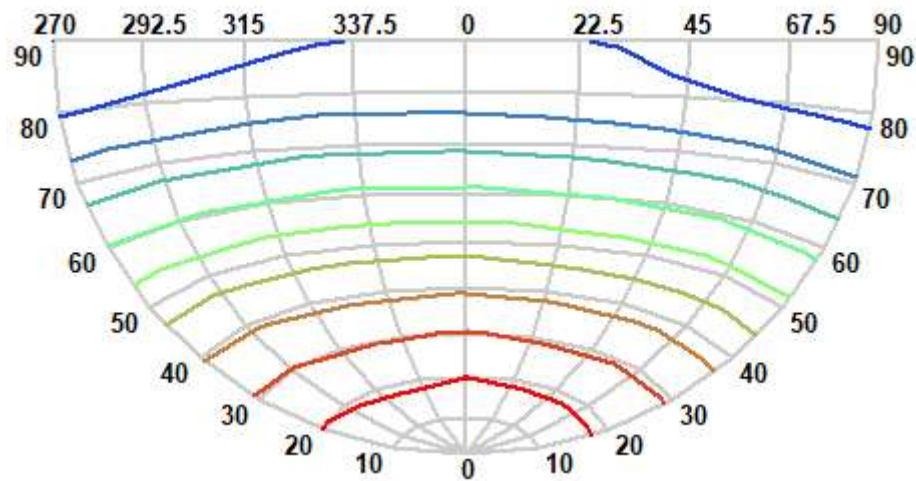
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IsoCandela (Type C)



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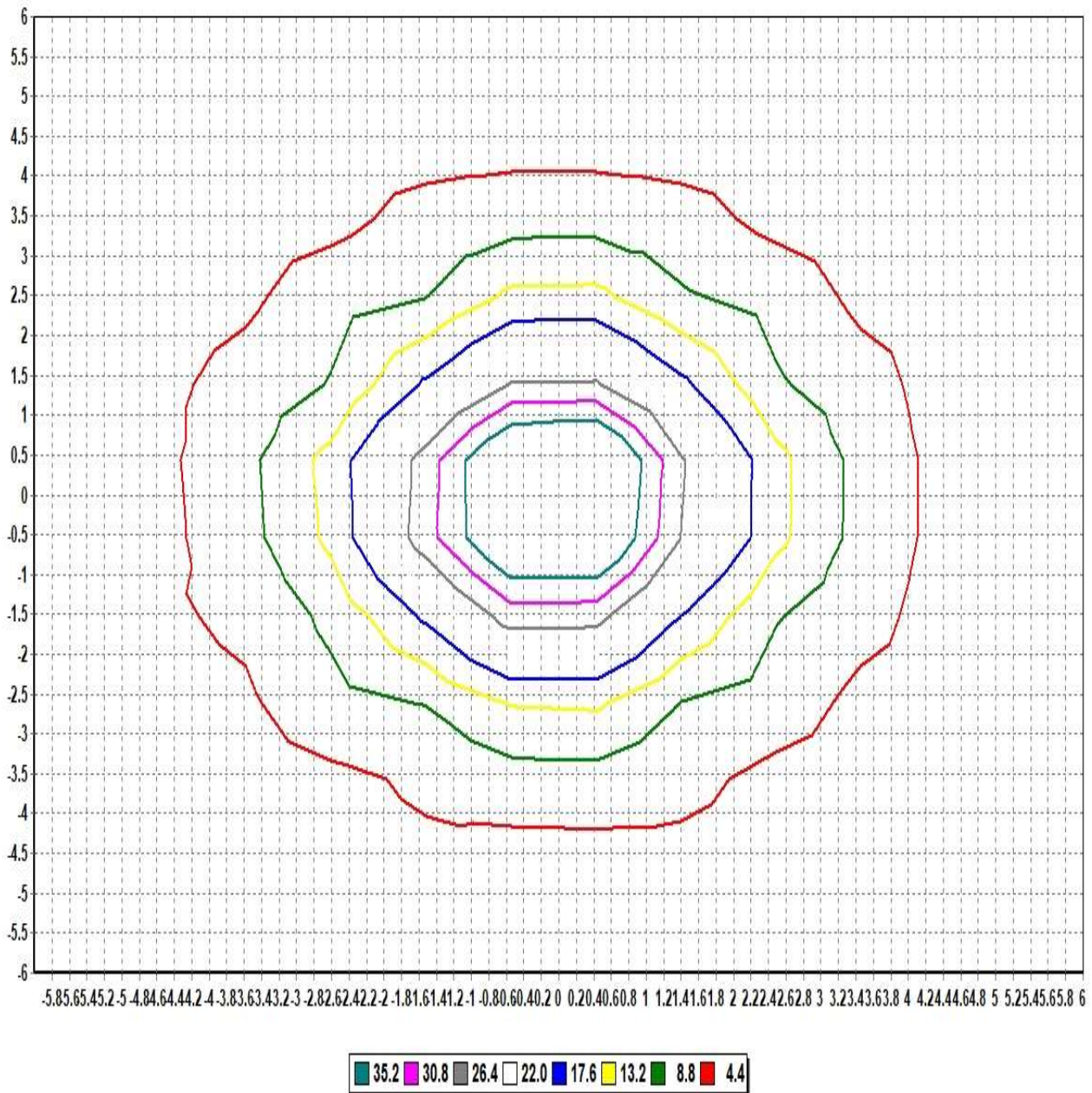
Operator

Total flux (lm) 1114

Power Factor 0.9712

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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

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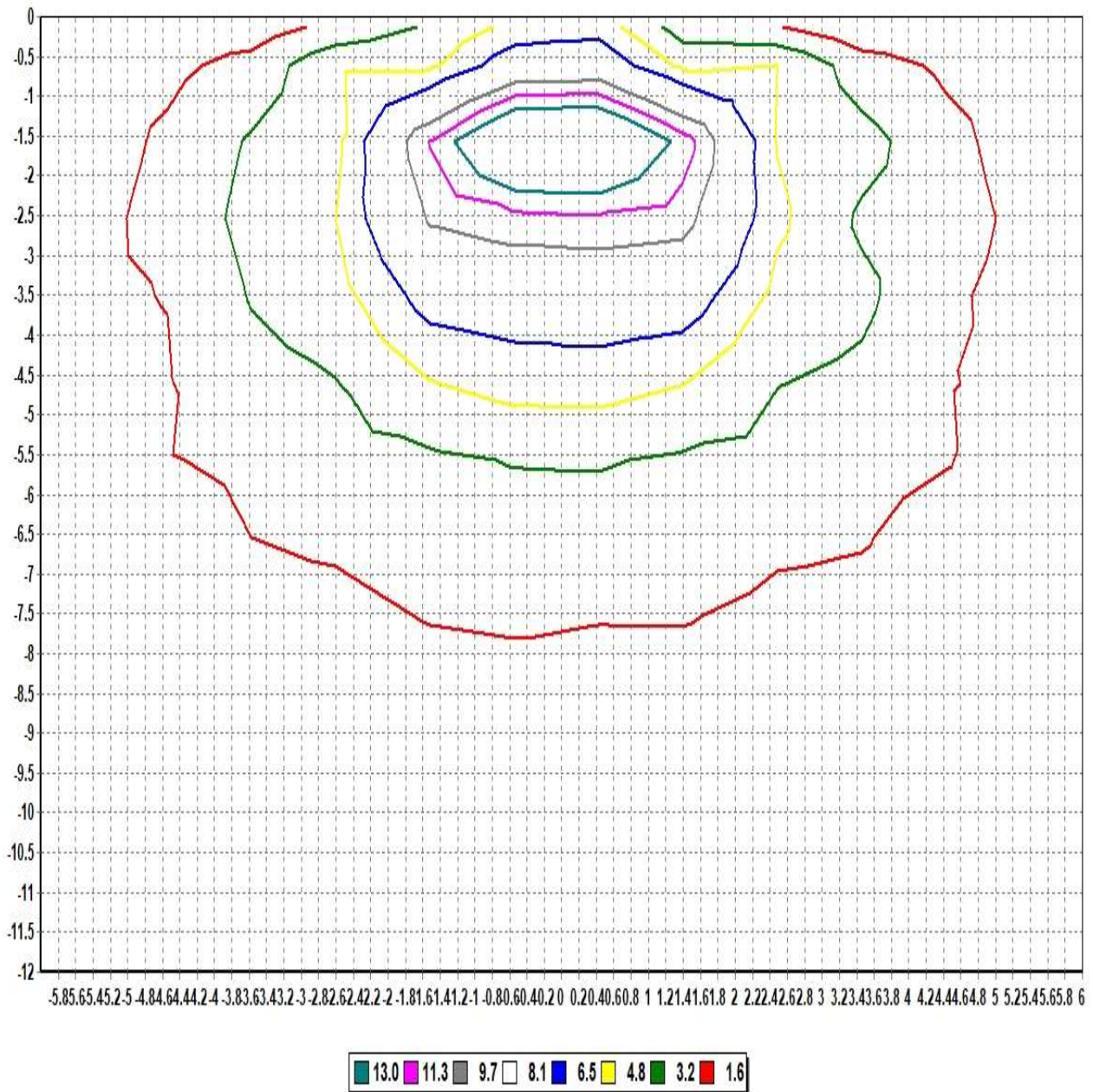
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IsoLux Diagram (Wall)



Pole Height (m): 2.7

Wall Distance (m): 2.7

Aiming Plane: 0

Wall Height (m): 12

Total Optical Solution Provider

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Illuminance Levels (Ground)

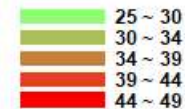
6.00	0.50	0.64	0.49	0.78	0.90	0.95	0.95	0.93	0.88	0.73	0.52	0.65	0.51
5.00	0.76	0.58	0.80	1.07	2.24	2.50	2.63	2.49	2.17	1.13	0.82	0.63	0.68
4.00	0.71	1.04	1.88	2.68	2.97	3.45	3.72	3.44	2.82	2.68	1.91	0.90	0.60
3.00	0.81	1.46	3.02	3.31	6.57	7.48	8.09	7.30	6.59	3.37	2.80	1.25	0.74
2.00	1.03	2.35	3.04	7.22	9.60	15.64	17.89	15.15	9.65	6.81	2.84	2.20	0.92
1.00	1.40	3.07	4.40	7.89	15.81	27.95	38.33	27.89	15.21	7.44	3.74	2.66	1.09
0.00	1.52	3.36	5.00	10.02	20.68	40.15	48.95	39.02	18.50	8.58	4.07	2.82	1.14
-1.00	1.33	3.00	4.37	8.81	17.22	30.36	38.66	28.10	15.35	7.51	3.74	2.66	1.09
-2.00	1.25	2.67	3.58	7.80	11.22	17.08	18.64	15.38	9.72	6.78	2.86	2.23	0.92
-3.00	1.02	1.66	3.34	4.20	7.27	8.49	8.55	7.50	6.84	3.35	2.80	1.26	0.74
-4.00	0.83	1.22	2.32	3.08	3.52	3.83	3.99	3.86	2.85	2.79	1.91	0.90	0.60
-5.00	0.87	0.87	1.06	1.39	2.59	2.71	2.79	2.77	2.22	1.18	0.85	0.59	0.69
-6.00	0.67	0.79	0.68	1.00	1.16	1.07	1.06	1.14	0.89	0.73	0.54	0.67	0.50
-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.) : 48.947

Illum. (Min.) : 0.4888

Illum. (Avg.) : 5.6039

All illuminance level values are in lux.



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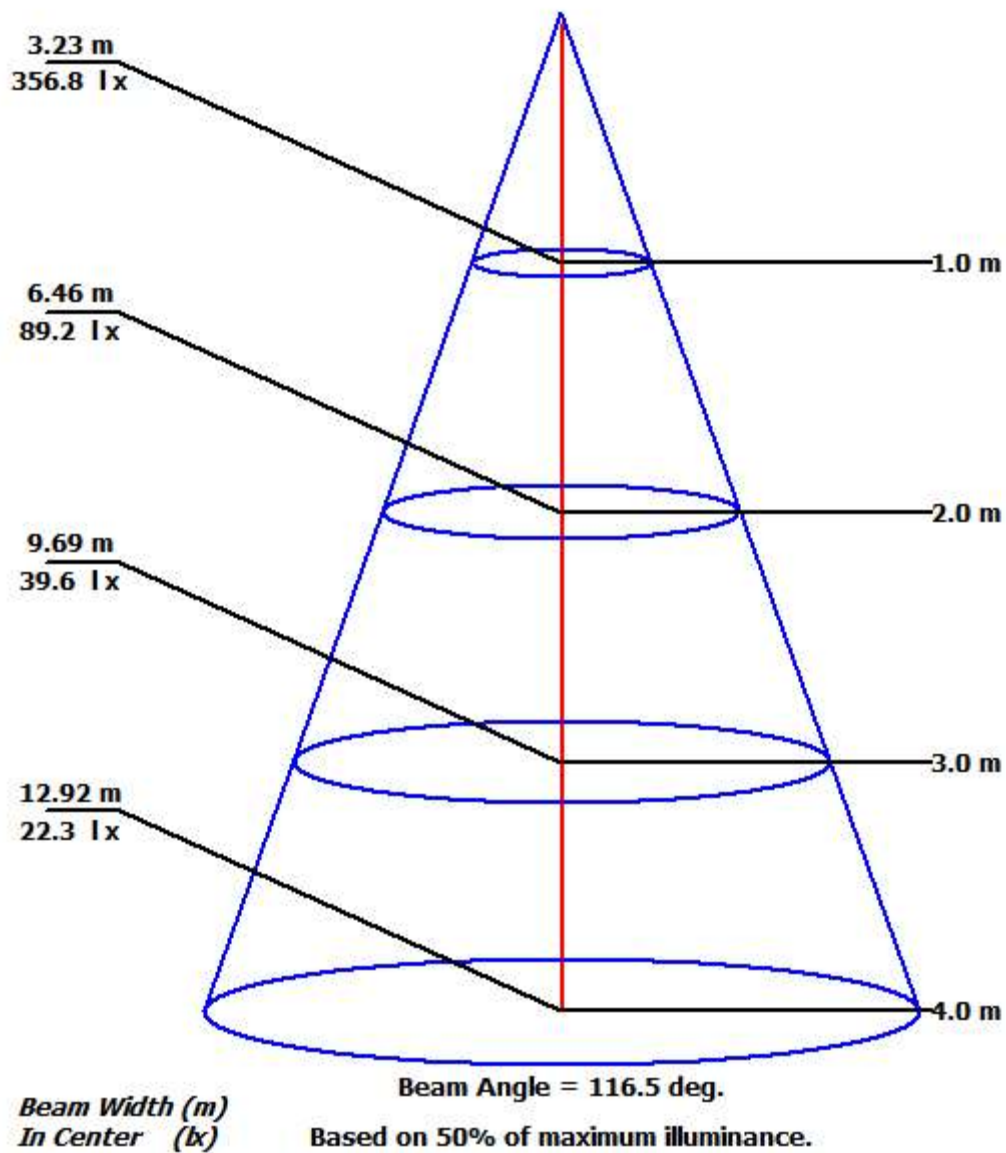
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Illuminance Cone Diagram



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Total flux (lm) 1114 Power Factor 0.9712

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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