

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-844
* Date of Receipt : 230508

2. Purpose of Report :**3. Number of Report :** 230508**4. Test Standard / Item :** / FN3D-C80-30K**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 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
230508			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.4503 , 0.4102	
Correlated Color Temperature	K	2835	
Ra		84.3	
Power Factor		1.000	
Input Voltage	V	23.927	
Input Current	A	0.603	
Input Watt	W	14.425	
Lamp Flux	lm	974.9	
Efficient	lm/W	67.59	
luminous Intensity (Max , Center)	cd	329 , 329	
Illuminance	lx	329	1 m
		82	2 m
		37	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) 23.927

Lamp flux (lm) 975

Current (A) 0.60286

Total flux (lm) 975

Power Factor 1

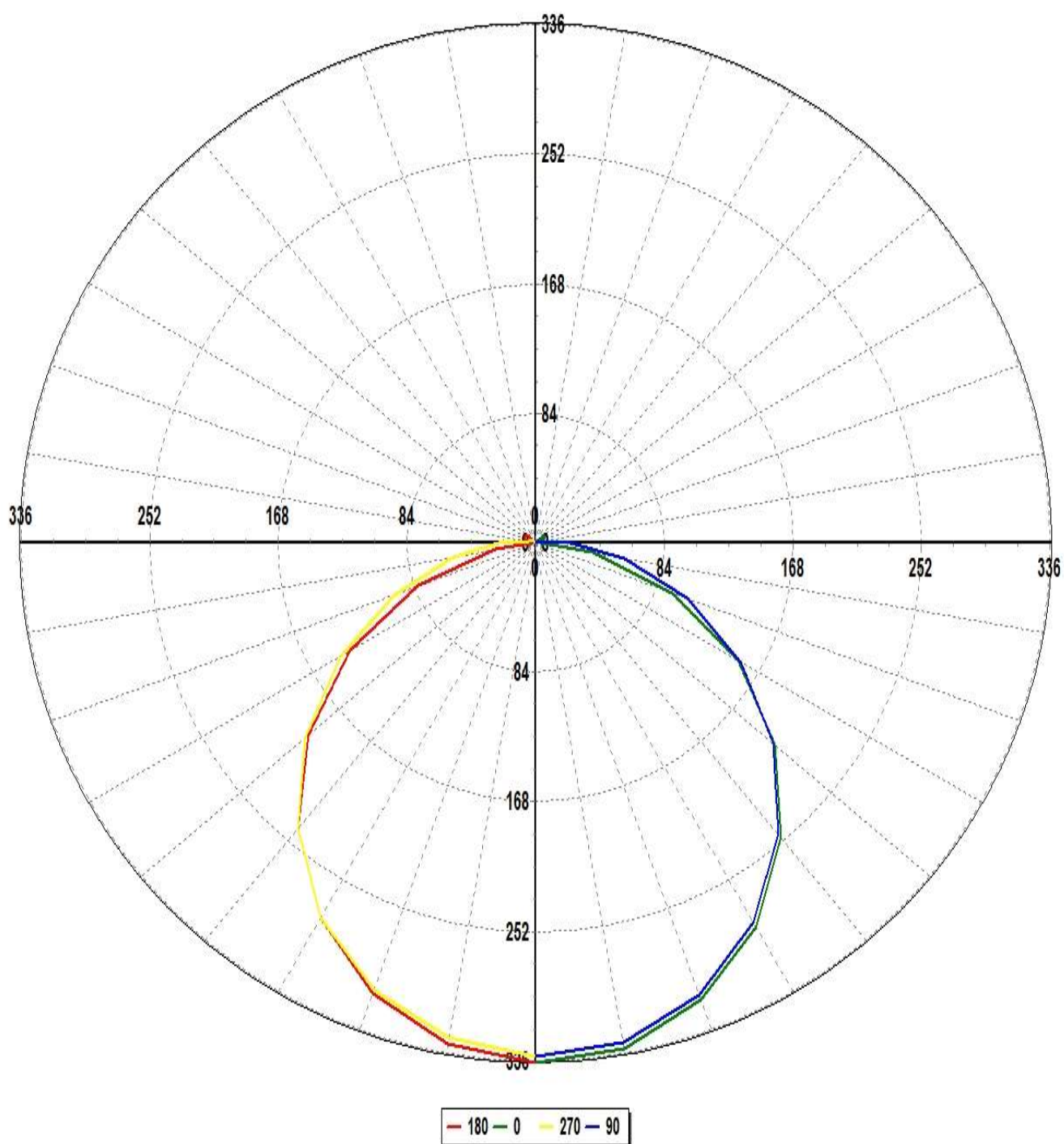
Report 230508

Filename FN3D-C80-30K.jdt

Operator

Date 2023-05-08 오후 2:51:36

Luminous Intensity Distribution



Luminaire KH FEELUX

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Power Factor 1

Report

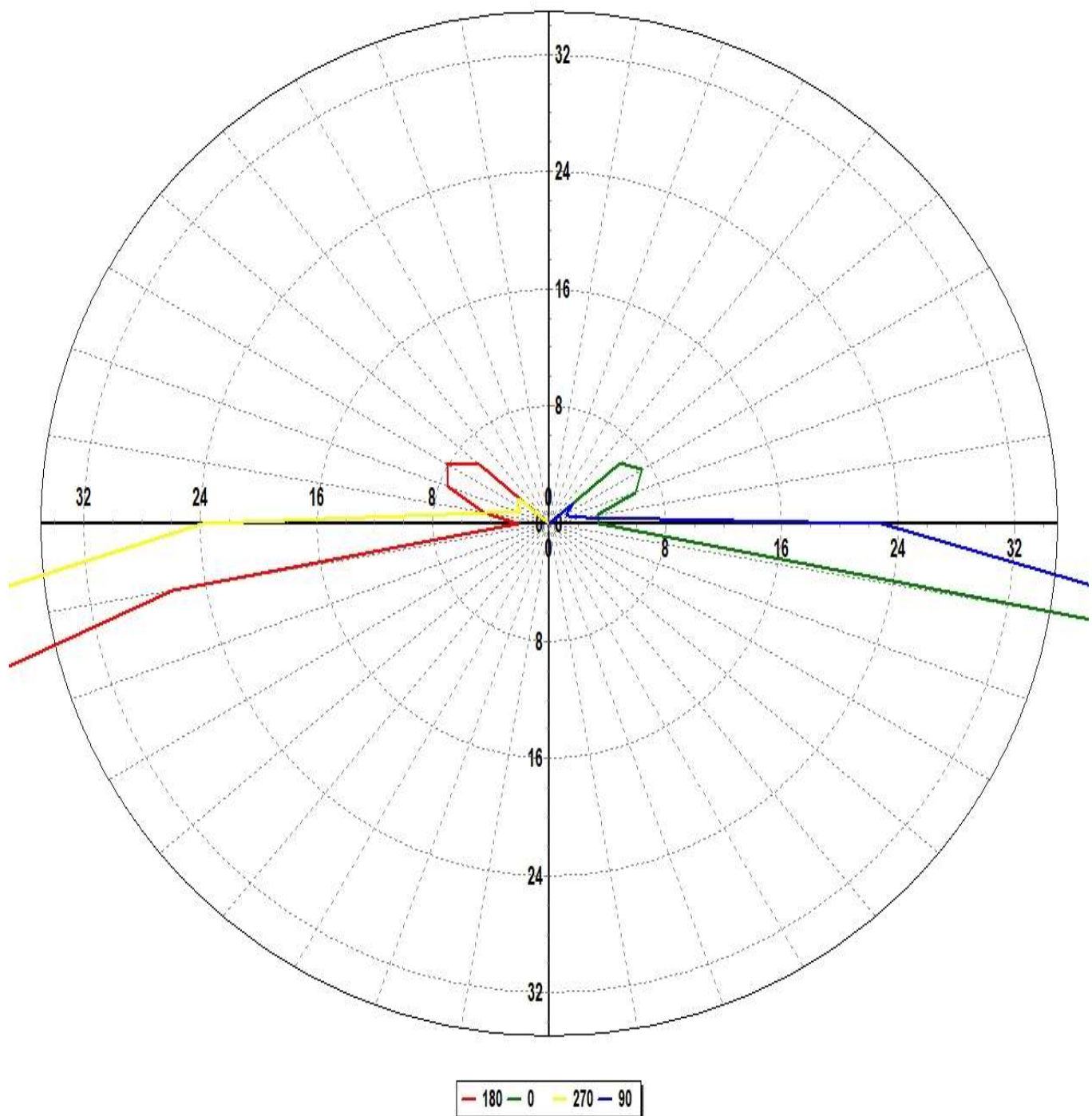
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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

Lamp

No. of lamps	1	Voltage (V)	23.927
Lamp flux (lm)	975	Current (A)	0.60286
Total flux (lm)	975	Power Factor	1

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Luminous Intensity Data

Maximum (cd) : 329

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	328.66	328.22	326.28	325.02	323.48	323.51	328.66	328.22	326.28	325.02	323.48
10	324.58	323.69	322.46	320.86	318.22	316.22	321.69	320.78	318.33	317.84	317.77
20	307.57	308.42	307.12	304.37	301.6	297.05	303.35	301.85	300.07	300.56	299.09
30	280.75	280.62	280.26	276.82	273.84	267.73	273.86	272.45	270.43	273.37	272.38
40	243.43	244.29	244.72	240.37	236.54	228.78	235.31	233.8	232.32	235.48	236.17
50	199	200.02	200.16	197.39	192.38	184.07	188.64	187.79	188.35	191.78	191.53
60	148.35	148.87	152.3	150.76	144.32	133.23	136.28	135.81	137.07	143.39	143.92
70	92.61	96.21	103.29	102.71	95.43	79.34	79.9	80.9	88.1	95.6	96.65
80	36.97	46.01	56.36	57.16	50.17	32.72	25.62	33.22	45.19	52.85	51.94
90	3.34	11.25	20.7	22.31	21.63	8.81	2.05	9.9	19.75	23.22	21.02
100	3.32	4.11	6.2	2.53	8.97	5.47	4.42	6.48	10.15	4.28	9.67
110	6.19	6.6	2.13	1.41	5.73	7.49	7.22	6.83	3.33	2.03	3.17
120	7.19	5.3	3.77	1.34	4.26	6.27	7.89	5.38	2.57	2.49	1.74
130	6.21	3.33	4.32	2.06	6.26	5.94	6.1	4.21	4.72	2.62	4.74

Luminaire KH FEELUX

Lamp

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Total flux (lm)	975	Power Factor	1

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Luminous Intensity Data (Continued)

Maximum (cd) : 329

Minimum (cd) : 1

G/C	330	360
0	323.51	328.66
10	319.02	324.58
20	302.61	307.57
30	276.11	280.75
40	240.81	243.43
50	197.87	199
60	148.33	148.35
70	96.05	92.61
80	47.23	36.97
90	13.14	3.34
100	4.89	3.32
110	6.2	6.19
120	4.49	7.19
130	2.75	6.21

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Luminous Flux Table

Total Lamp Lumens: 974.90

Luminaire Efficiency (lm/W): 67.58

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	7.79	7.79	0.80	0.80
10	60.88	68.67	7.04	7.04
20	113.43	182.10	18.68	18.68
30	150.53	332.63	34.12	34.12
40	167.32	499.95	51.28	51.28
50	162.13	662.09	67.91	67.91
60	136.16	798.25	81.88	81.88
70	94.92	893.17	91.62	91.62
80	48.13	941.30	96.55	96.55
90	16.17	957.46	98.21	98.21
100	6.34	963.80	98.86	98.86
110	5.00	968.80	99.37	99.37
120	4.17	972.97	99.80	99.80
130	1.93	974.90	100.00	100.00

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Total flux (lm)	975	Power Factor	1

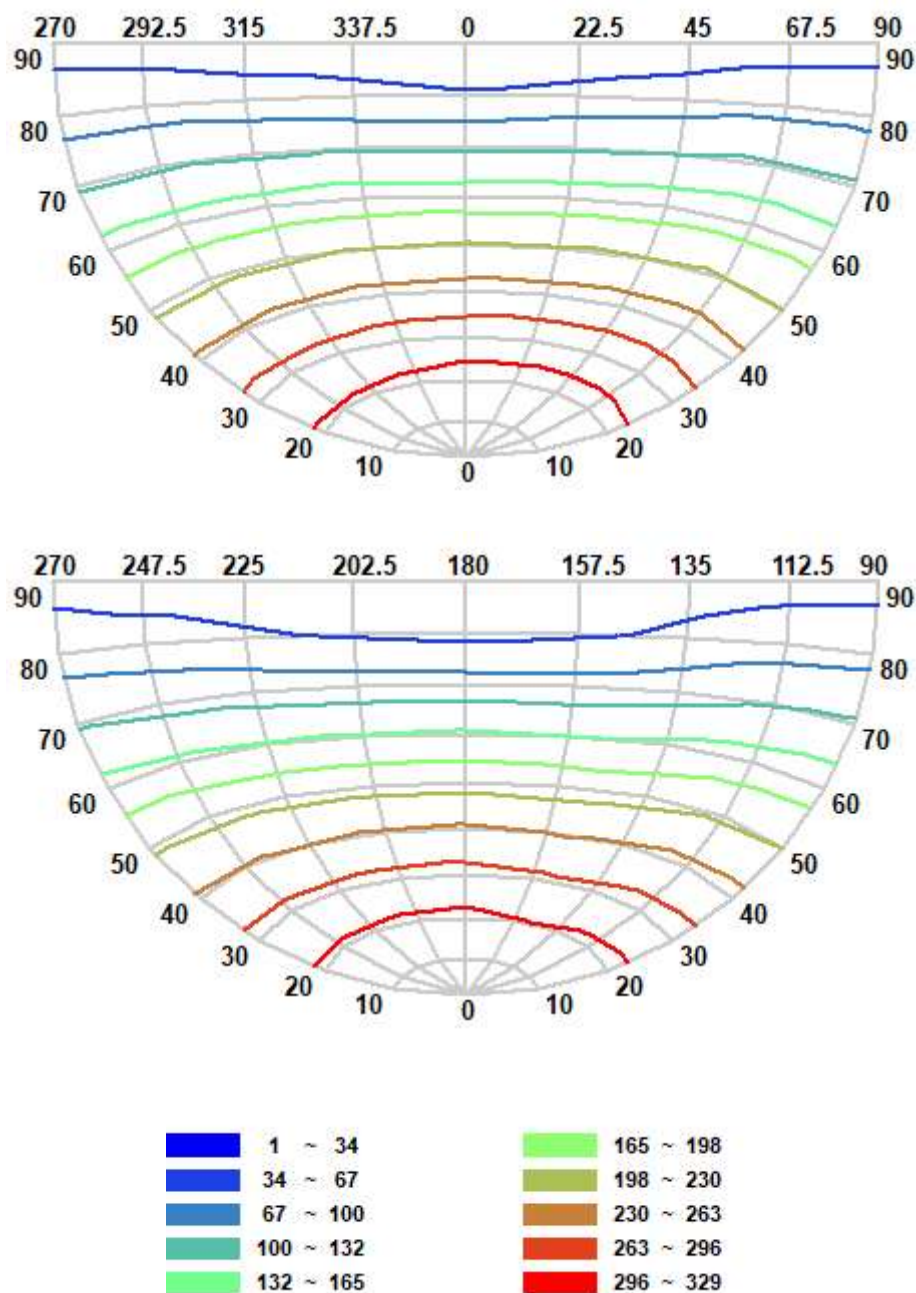
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IsoCandela (Type C)



Luminaire KH FEELUX

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Lamp flux (lm) 975

Current (A) 0.60286

Total flux (lm) 975

Power Factor 1

Report

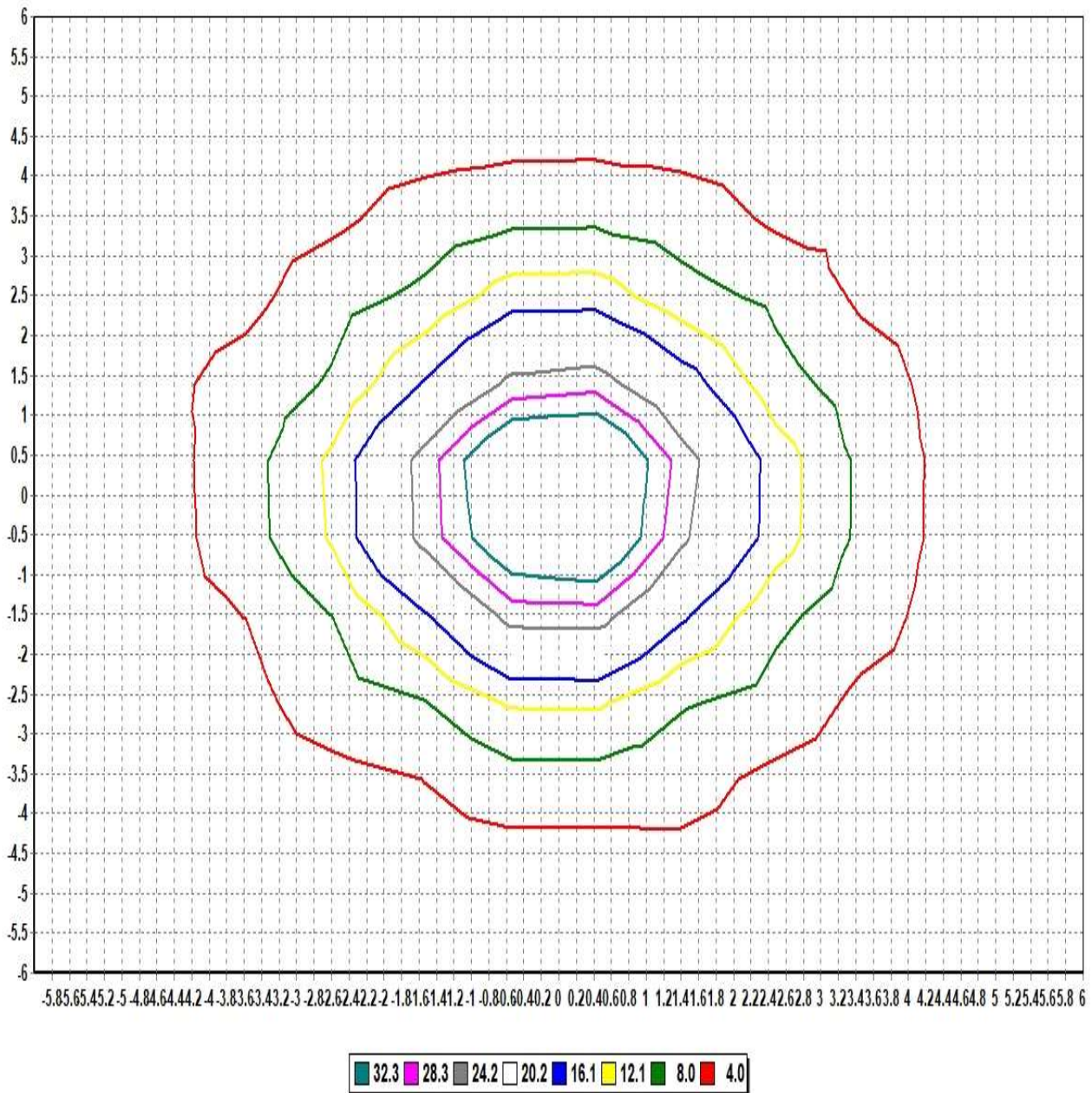
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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

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Lamp

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Lamp flux (lm) 975

Current (A) 0.60286

Total flux (lm) 975

Power Factor 1

Report

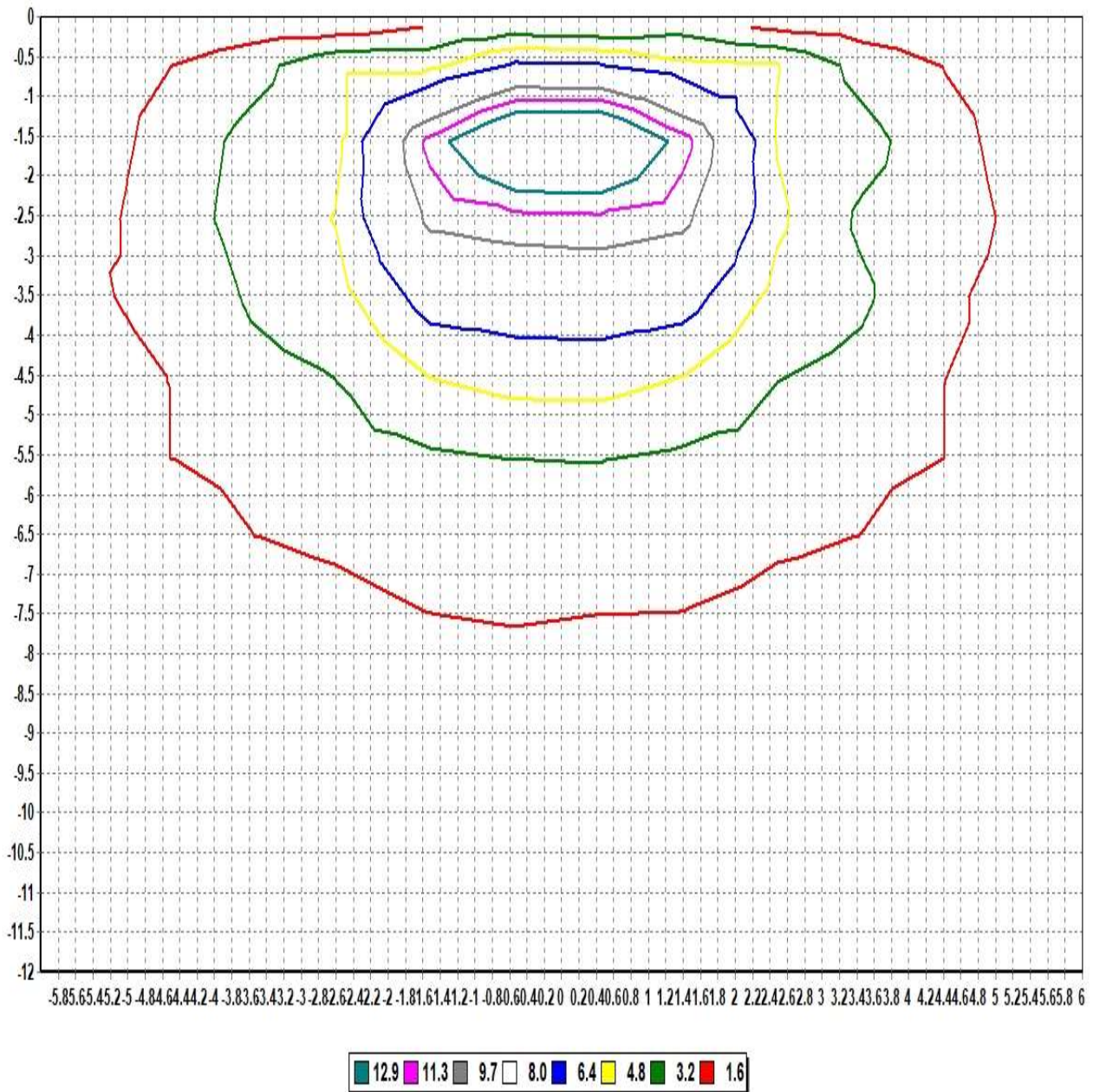
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IsoLux Diagram (Wall)



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

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Illuminance Levels (Ground)

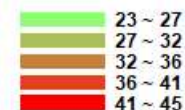
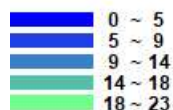
6.00	0.52	0.69	0.62	0.75	0.94	1.12	1.17	1.12	0.95	0.76	0.62	0.70	0.52
5.00	0.63	0.64	0.92	1.28	2.19	2.66	2.79	2.65	2.26	1.29	0.93	0.62	0.69
4.00	0.50	0.80	1.90	2.78	2.85	3.76	4.07	3.76	2.93	2.83	1.94	0.88	0.57
3.00	0.74	1.08	2.62	3.38	6.68	7.38	8.46	7.60	6.81	3.42	2.81	1.22	0.76
2.00	0.87	2.14	2.81	6.37	9.52	14.94	18.01	15.40	9.74	6.78	2.93	2.25	0.93
1.00	0.93	2.47	3.42	7.19	14.85	26.87	36.24	27.38	15.39	7.58	3.71	2.64	1.06
0.00	0.98	2.65	3.78	8.13	17.70	36.32	45.08	36.65	18.25	8.53	4.05	2.81	1.10
-1.00	0.93	2.46	3.41	7.15	14.75	26.71	35.89	26.63	14.92	7.37	3.71	2.64	1.06
-2.00	0.81	2.11	2.68	6.51	9.27	14.73	17.70	14.88	9.39	6.69	2.84	2.19	0.93
-3.00	0.65	1.09	2.65	3.16	6.45	7.14	8.23	7.28	6.55	3.30	2.77	1.23	0.76
-4.00	0.49	0.77	1.81	2.65	2.69	3.53	3.91	3.52	2.83	2.71	1.87	0.89	0.58
-5.00	0.63	0.53	0.81	1.14	2.11	2.53	2.71	2.52	2.17	1.21	0.88	0.63	0.68
-6.00	0.47	0.63	0.53	0.66	0.83	1.03	1.10	1.00	0.92	0.75	0.58	0.67	0.51
-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.) : 45.084

Illum. (Min.) : 0.4703

Illum. (Avg.) : 5.2489

All illuminance level values are in lux.



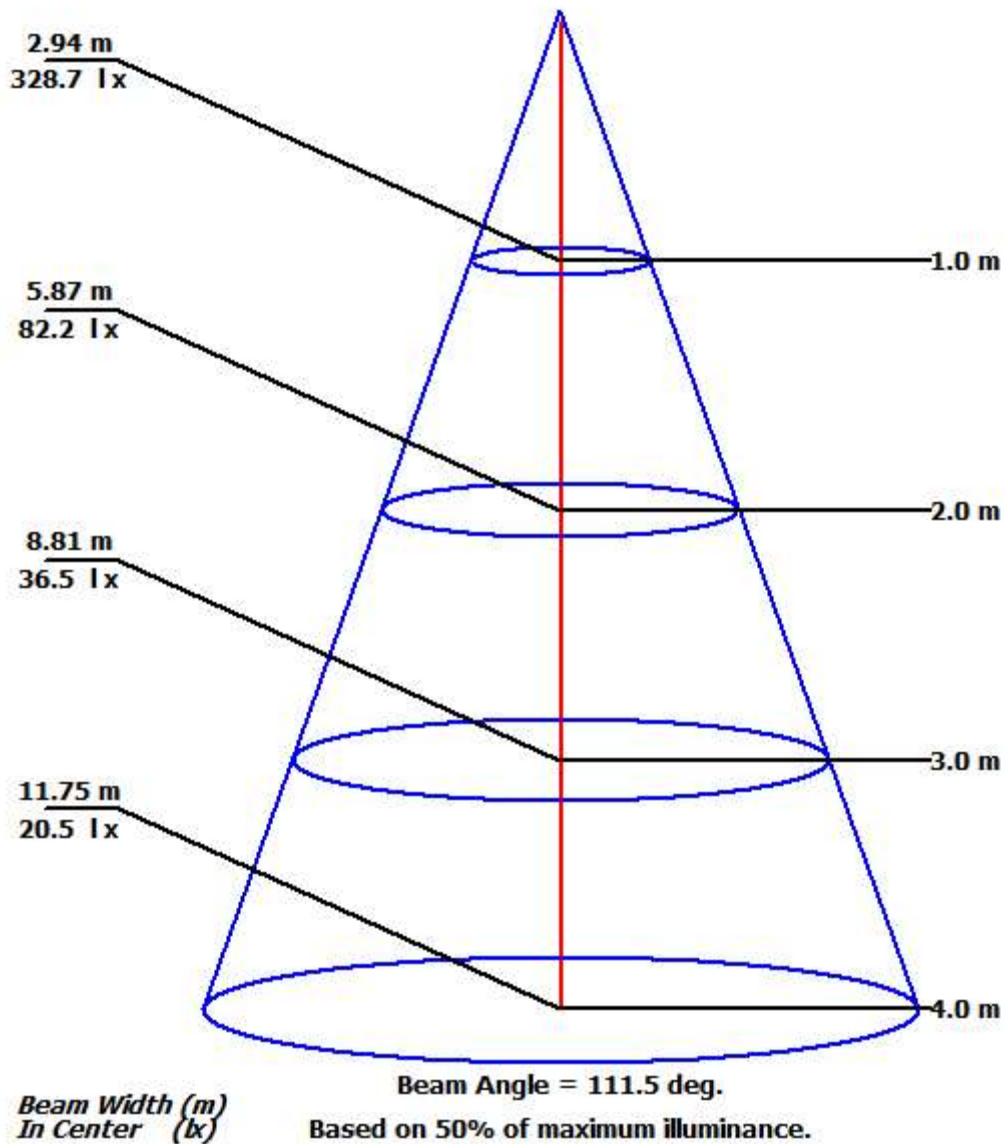
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Illuminance Cone Diagram



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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