

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 : / NDF20 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	%	23.7	
CIE 1931 Cx, Cy		0.4581 , 0.4029	
Correlated Color Temperature	K	2660	
Ra		92.44	
Power Factor		0.973	
Input Voltage	V	120.27	
Input Current	A	0.175	
Input Watt	W	20.442	
Lamp Flux	lm	1478.2	
Efficient	lm/W	72.31	
luminous Intensity (Max , Center)	cd	473 , 473	
Illuminance	lx	473	1 m
		118	2 m
		53	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) 120.27

Lamp flux (lm) 1478

Current (A) 0.17471

Total flux (lm) 1478

Power Factor 0.9729

Report

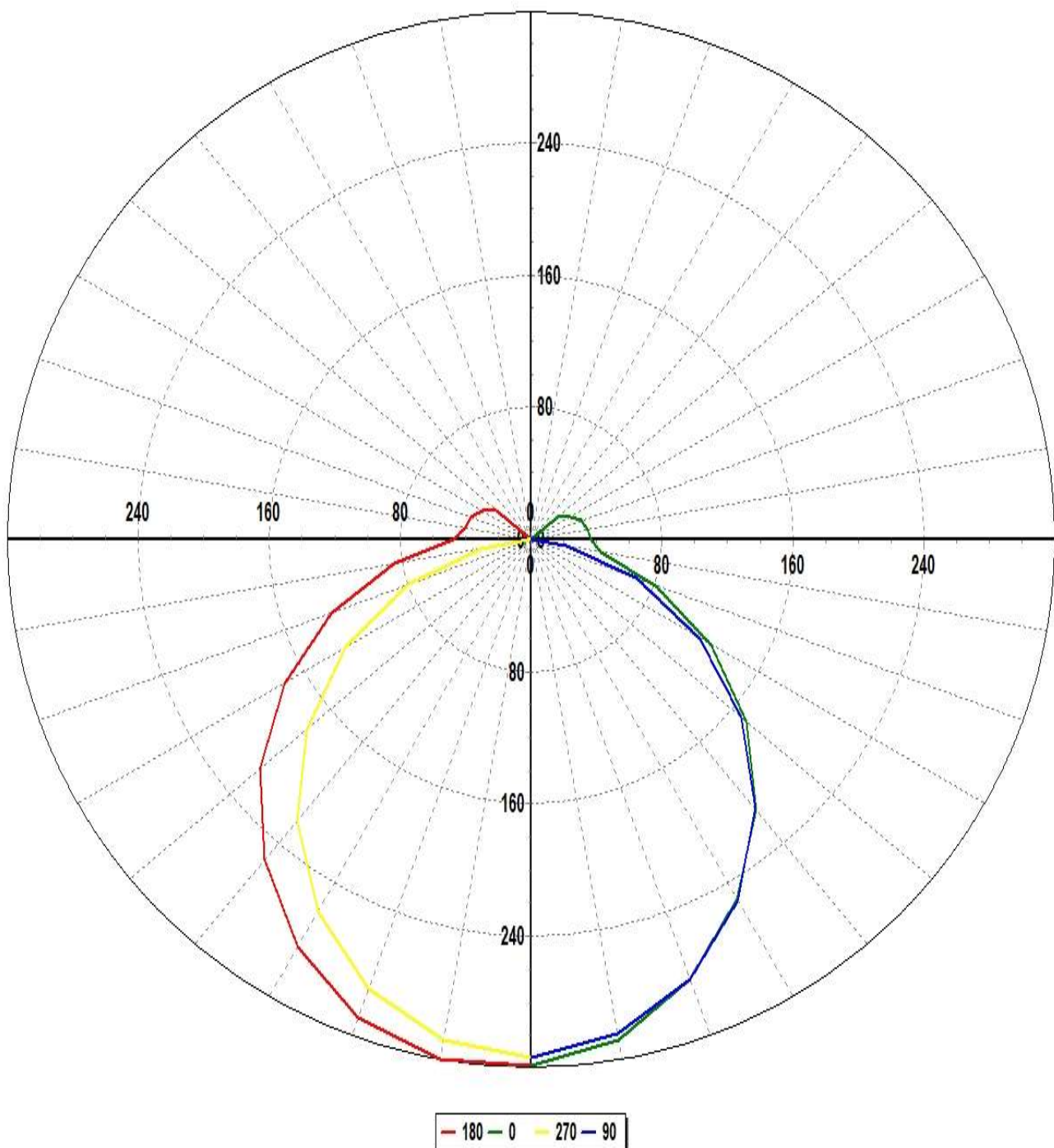
230511

Filename NDF20 F.F 120V 27K.jdt

Operator

Date 2023-05-11 오후 8:00:02

Luminous Intensity Distribution



Luminaire KH FEELUX

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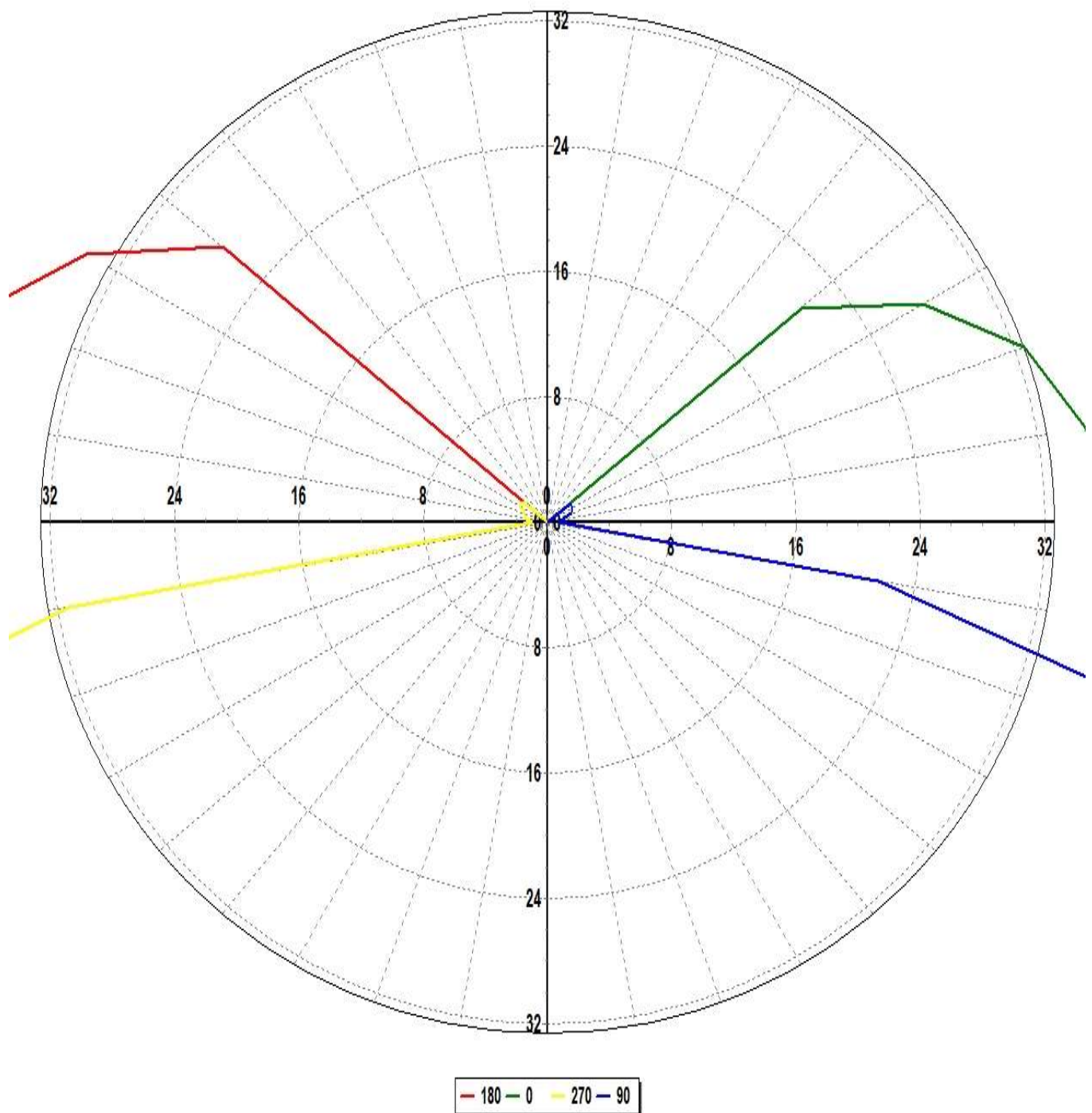
230511

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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Date 2023-05-11 오후 8:00:02

Luminous Intensity Data

Maximum (cd) : 473

Minimum (cd) : 1

G/C	0	30	60	90	120	150	180	210	240	270	300
0	471.06	469.03	465.31	463.77	462.69	460.97	471.06	469.03	465.31	463.77	462.69
10	455.26	449.83	449.69	449.82	455.53	458.68	472.55	467.87	461.49	455.76	449.99
20	419.37	414.75	417.34	418.83	430.52	438.1	455.68	450.32	439.79	428.59	420.52
30	371.71	366.45	368.78	373.25	389.39	401.62	421.46	416.01	400.45	384.89	374.63
40	316.28	310.62	311.29	314.49	335.41	353.09	374.52	368.73	348.52	328.99	319
50	253.88	247.57	246.3	247.78	274.46	296.11	319.44	312.96	288.23	264.09	255.99
60	187.86	179.71	177.04	176.15	208.54	234.5	257.1	249.92	222.09	192.84	188.39
70	119.72	111.81	104.62	101.18	138.48	168.71	191.52	183.42	151.96	118.12	117.06
80	64.18	54.85	41.64	31.96	71.46	102.74	125.06	111	82.89	46.23	51.39
90	53.94	44.98	23.31	1.05	27.59	54.35	70.15	59.54	28.8	1.5	23.74
100	51.8	42.71	22.6	1.21	27.32	50.79	60.66	50.4	26.73	2.09	22.9
110	48.26	40.02	15.02	2.42	18.88	48.48	57.87	48.85	26.46	2.35	21.66
120	41.17	31.61	3.4	2.71	3.04	36.92	50.68	39.79	2.15	3.11	3.1
130	31.47	15.19	8.61	2.81	11.91	24.27	40.34	30.13	11.7	2.98	8.69

Luminaire KH FEELUX

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Filename NDF20 F.F 120V 27K.jdt

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Date 2023-05-11 오후 8:00:02

Luminous Intensity Data (Continued)

Maximum (cd) : 473

Minimum (cd) : 1

G/C	330	360
0	460.97	471.06
10	445.67	455.26
20	415.27	419.37
30	370.59	371.71
40	316.11	316.28
50	255.11	253.88
60	190.12	187.86
70	122.18	119.72
80	61.65	64.18
90	43.91	53.94
100	43.57	51.8
110	40.97	48.26
120	31.77	41.17
130	22.71	31.47

Luminaire KH FEELUX

Lamp

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Operator

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Luminous Flux Table

Total Lamp Lumens: 1478.2

Luminaire Efficiency (lm/W): 72.31

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	11.13	11.13	0.75	0.75
10	86.73	97.86	6.62	6.62
20	160.73	258.59	17.49	17.49
30	211.71	470.30	31.82	31.82
40	234.49	704.79	47.68	47.68
50	228.06	932.86	63.11	63.11
60	194.78	1127.63	76.28	76.28
70	139.69	1267.33	85.73	85.74
80	75.96	1343.28	90.87	90.87
90	39.51	1382.79	93.55	93.55
100	36.20	1418.99	95.99	96.00
110	31.84	1450.83	98.15	98.15
120	19.72	1470.55	99.48	99.48
130	7.64	1478.19	100.00	100.00

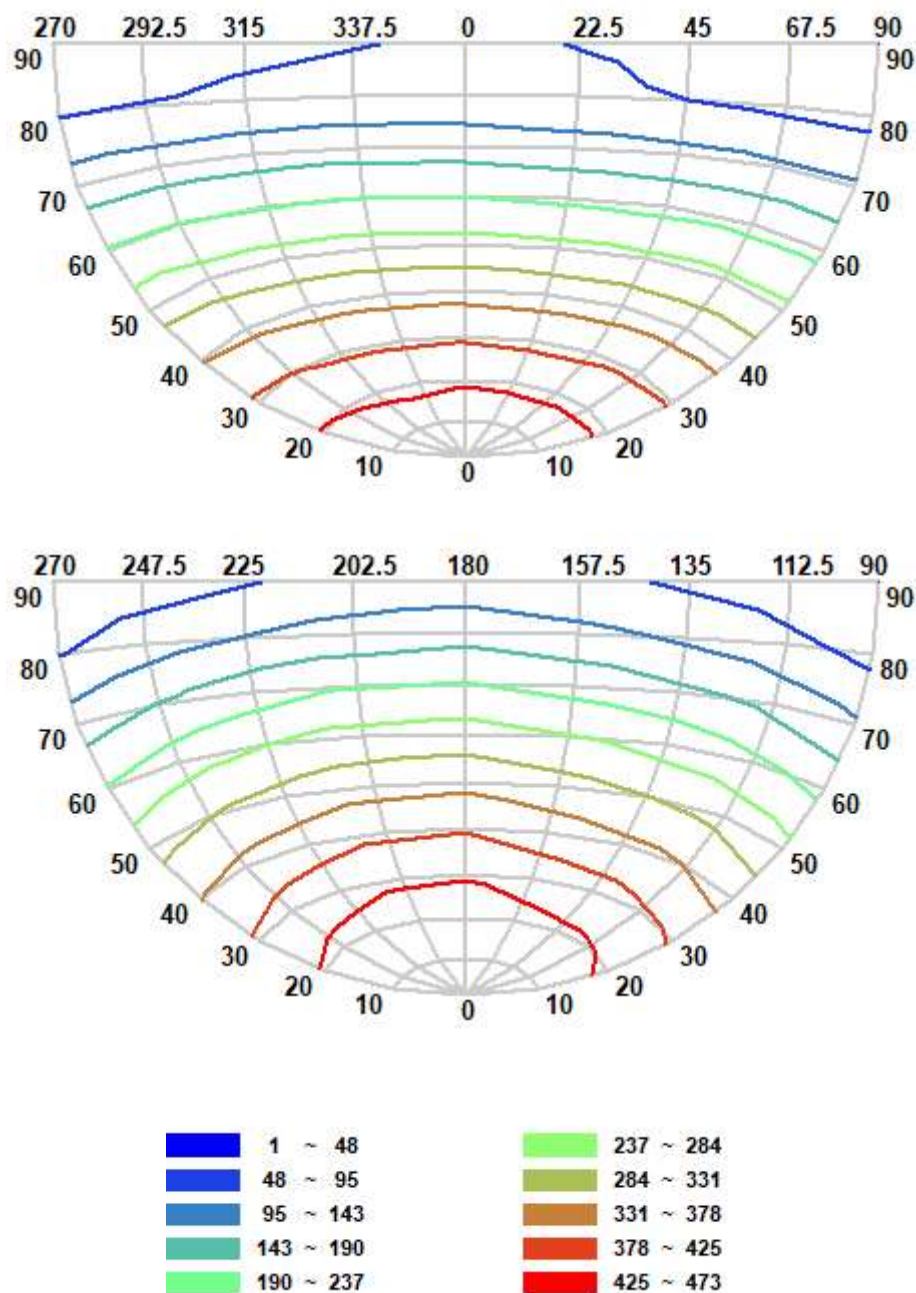
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IsoCandela (Type C)



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Lamp

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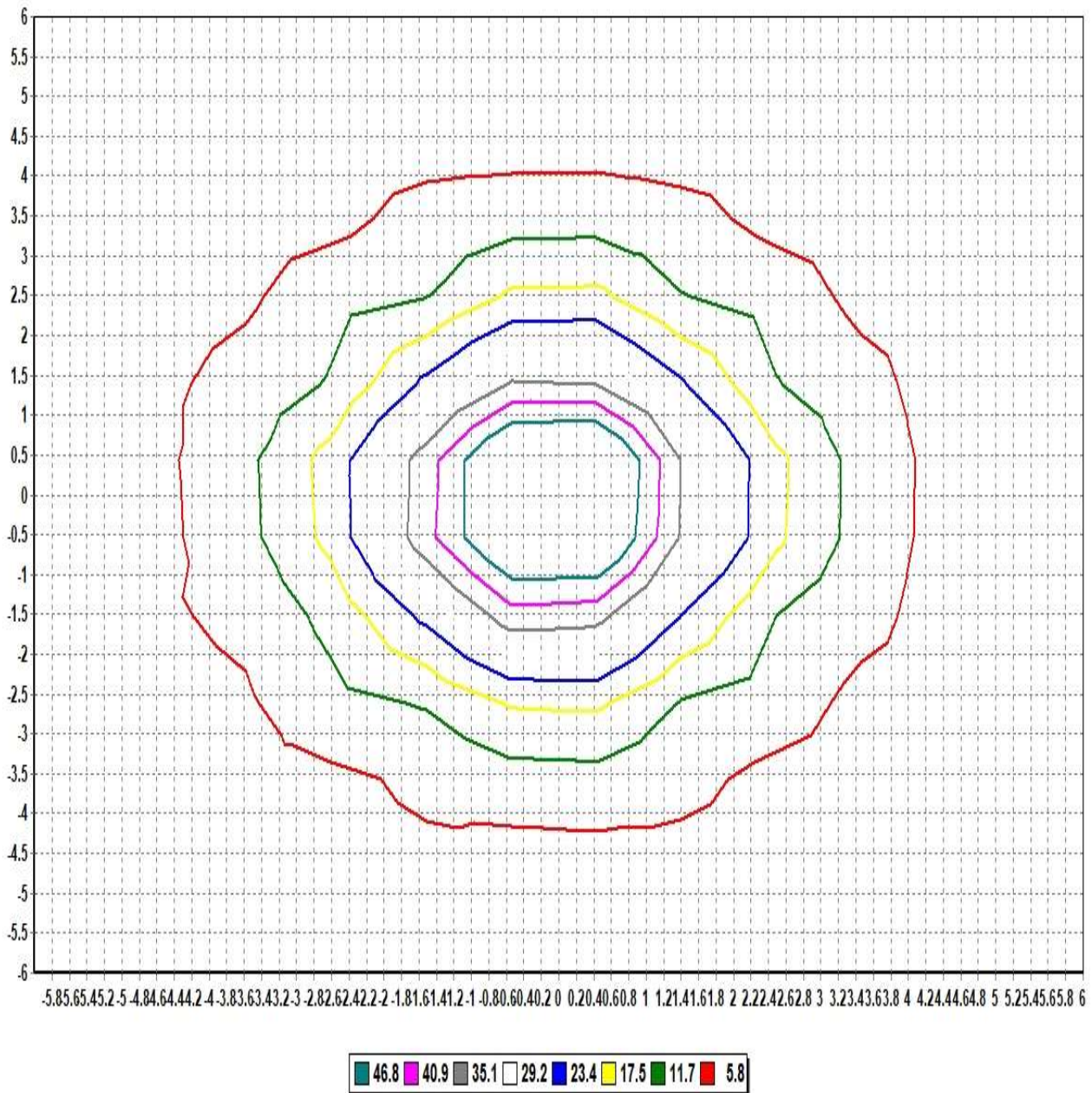
Operator

Total flux (lm) 1478

Power Factor 0.9729

Date 2023-05-11 오후 8:00:02

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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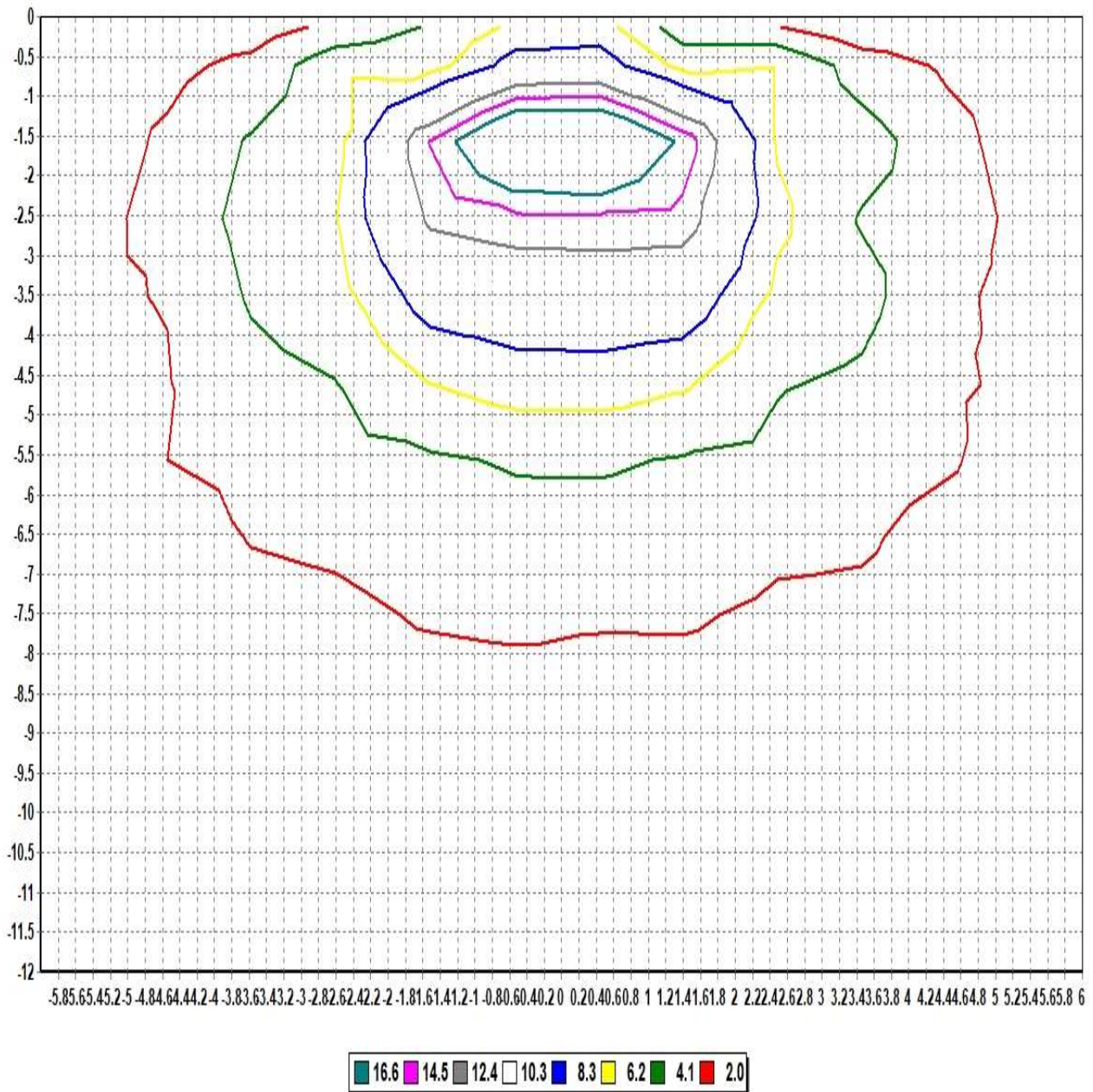
Operator

Total flux (lm) 1478

Power Factor 0.9729

Date 2023-05-11 오후 8:00:02

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

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Operator

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Illuminance Levels (Ground)

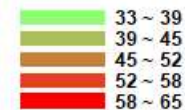
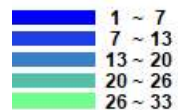
6.00	0.67	0.86	0.65	1.06	1.22	1.21	1.26	1.20	1.09	0.89	0.65	0.82	0.64
5.00	1.05	0.79	1.07	1.41	3.02	3.26	3.47	3.27	2.77	1.42	1.02	0.76	0.86
4.00	1.00	1.44	2.52	3.57	4.02	4.49	4.92	4.49	3.54	3.46	2.42	1.10	0.72
3.00	1.11	2.03	4.13	4.44	8.75	10.04	10.72	9.40	8.59	4.25	3.56	1.55	0.90
2.00	1.42	3.19	4.14	9.83	12.85	20.99	23.84	19.60	12.36	8.74	3.56	2.80	1.13
1.00	1.93	4.18	6.01	10.73	21.27	37.33	50.77	36.27	19.64	9.50	4.74	3.39	1.36
0.00	2.08	4.55	6.78	13.57	27.82	53.39	64.62	51.37	23.88	10.94	5.15	3.58	1.41
-1.00	1.85	4.10	5.98	11.95	23.26	40.70	51.46	37.22	20.10	9.72	4.74	3.38	1.35
-2.00	1.72	3.63	4.88	10.53	15.20	23.07	24.80	20.19	12.80	8.77	3.71	2.88	1.17
-3.00	1.41	2.27	4.53	5.71	9.81	11.50	11.37	9.85	9.08	4.41	3.60	1.58	0.94
-4.00	1.15	1.67	3.16	4.17	4.81	5.16	5.32	5.20	3.72	3.69	2.51	1.13	0.74
-5.00	1.19	1.20	1.45	1.90	3.52	3.64	3.72	3.72	2.90	1.57	1.12	0.77	0.88
-6.00	0.91	1.08	0.94	1.38	1.60	1.44	1.42	1.55	1.16	0.94	0.72	0.88	0.66
-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.) : 64.618

Illum. (Min.) : 0.6417

Illum. (Avg.) : 7.4210

All illuminance level values are in lux.



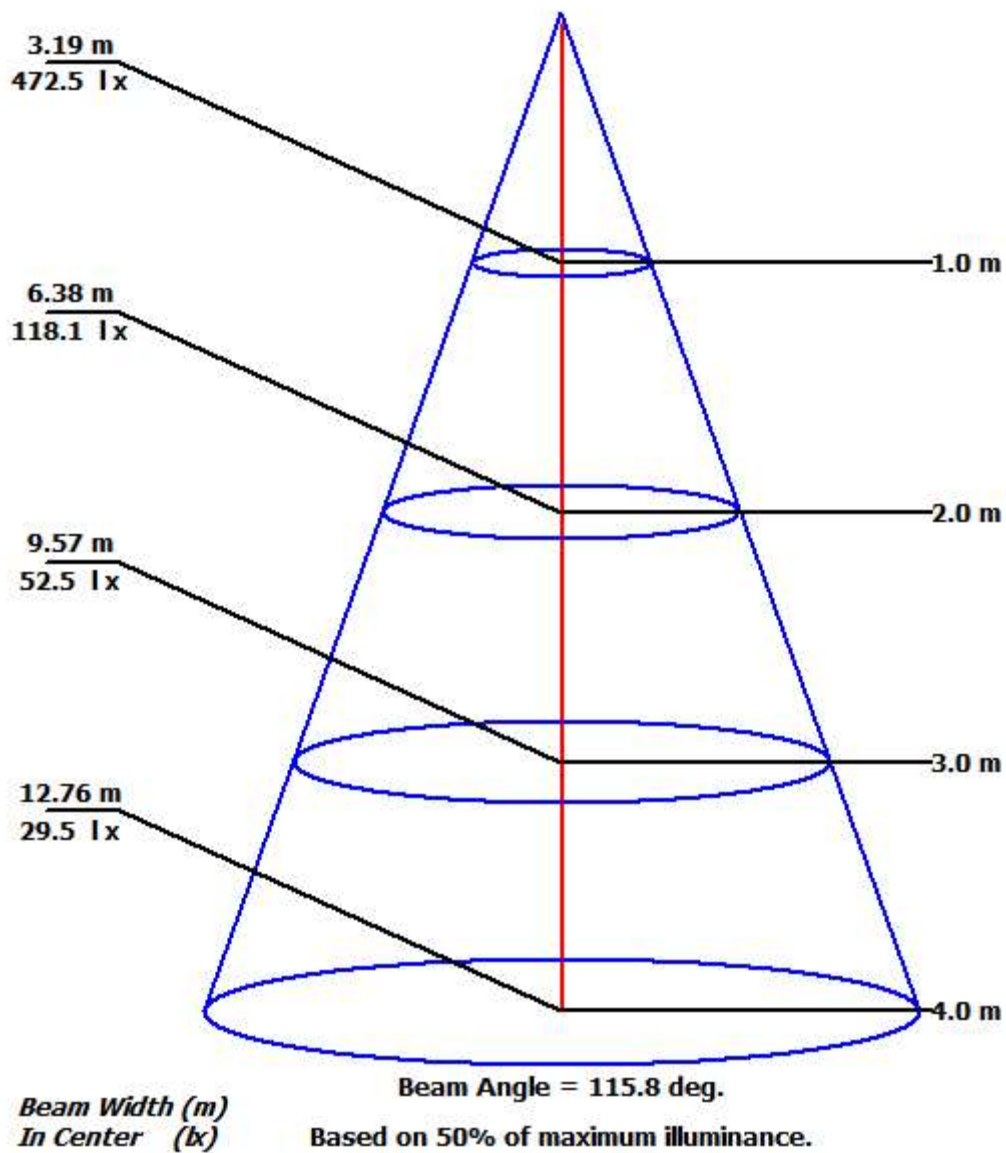
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Illuminance Cone Diagram



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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