

TEST REPORT

1. Applicant

* Client Name :
* Address : 235-48 GWANGJEOK-RO GWANGJEOK-MYEON YANGJU-SI GYENGGI-DO 482-84
* Date of Receipt : 230804

2. Purpose of Report :

3. Number of Report : 230804

4. Test Standard / Item : / 230804 CDV20 40K-24V F2207 VER2.02 28SS9

5. Test Period : 230804 ~ 230804

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 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
230804			

Test Item	Unit	Result	Notice
Beam Distribution Test		See Attachement	
ATHD	%	0.0	
CIE 1931 Cx, Cy		0.3837 , 0.3804	
Correlated Color Temperature	K	3939	
Ra		93.56	
Power Factor		1.000	
Input Voltage	V	23.892	
Input Current	A	0.873	
Input Watt	W	20.847	
Lamp Flux	lm	2432.1	
Efficient	lm/W	116.66	
luminous Intensity (Max , Center)	cd	1041 , 1041	
Illuminance	lx	1041	1 m
		260	2 m
		116	3 m

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

* Sample photo

[Click to load image](#)

Luminaire KH FEELUX

Lamp

Report

230804

No. of lamps 1

Voltage (V) Filename: 230804 CDV20 40K-24V F2207 VER2.02 28SS9.jdt

Lamp flux (lm) 2432

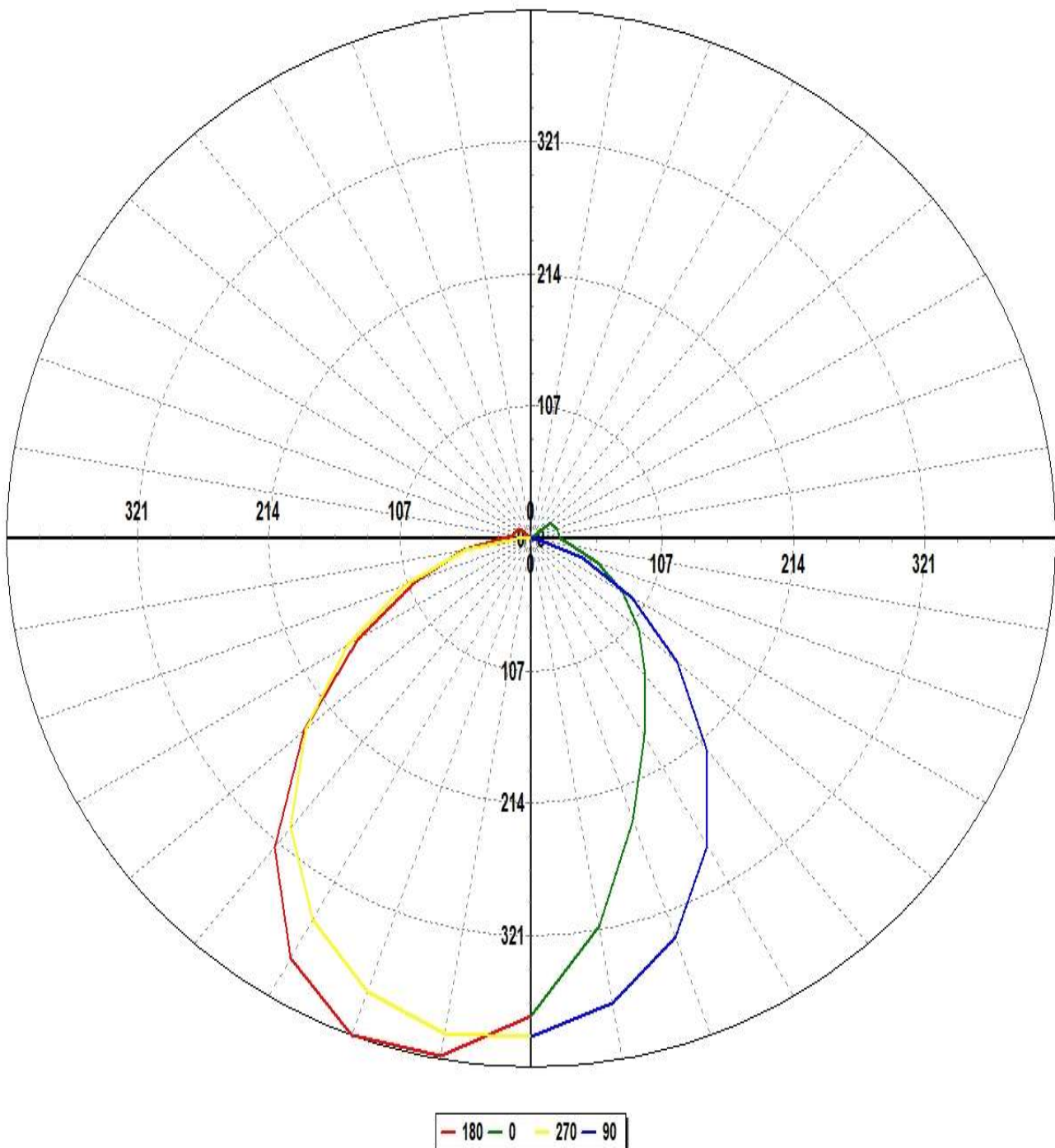
Current (A) Operator: 26

Total flux (lm) 2432

Power Factor Date 1

2023-08-04 오전 10:08:38

Luminous Intensity Distribution



Luminaire KH FEELUX

Lamp

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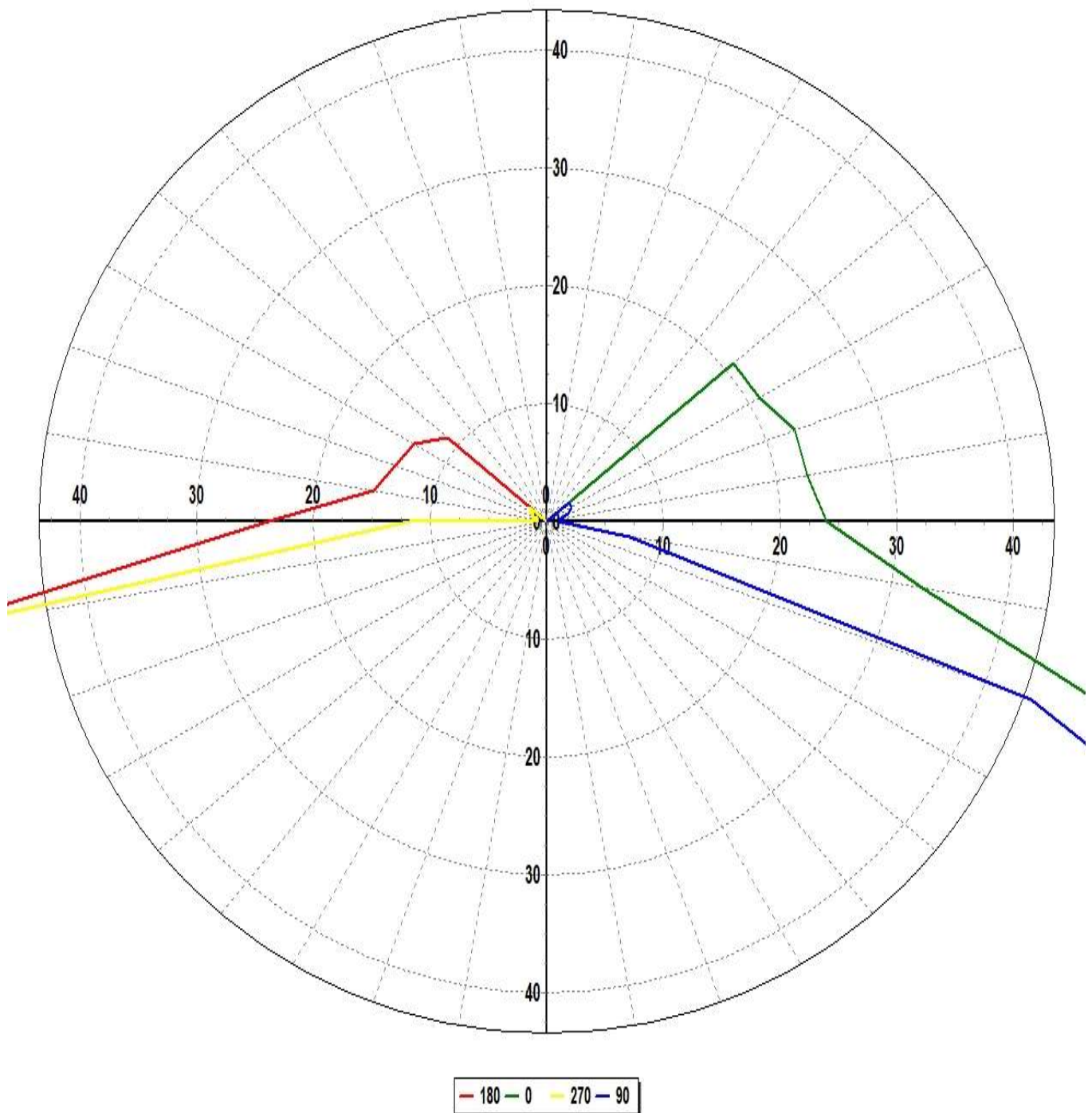
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Luminous Intensity Distribution (Lowest 10%)



Luminaire KH FEELUX

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Luminous Intensity Data

Maximum (cd) : 1041

Minimum (cd) : 2

G/C	0	30	60	90	120	150	180	210	240	270
0	940.8	940.24	958.42	981.95	1003.65	1019.11	940.8	940.24	958.42	981.95
10	773.94	791.56	855.78	929.11	986.98	1012.58	1035.18	1027.19	1010.41	988.56
20	590.13	615.84	713.13	834.94	909.33	924.98	1040.59	1034.3	1004.81	949.81
30	447.84	463.38	559.31	699.35	778.93	769.44	954.67	960.01	939.13	866.77
40	351.26	352.26	414.32	540.49	609.43	578.51	792.46	812.53	816.6	741.26
50	278.64	266.68	292.84	378.65	430.56	395.11	589.11	623.04	649.39	585.25
60	209.55	192.5	192.45	231.99	270.61	244.13	396.23	431.64	468.04	419.08
70	140.37	123.77	107.58	107.52	136.93	128.56	244.56	271.48	298.94	265.51
80	79.52	65.97	42.69	17.55	41	50.74	134.73	148.06	157.42	131.31
90	58.24	49.7	29.39	2.45	21.69	33.48	58.02	60.06	51.23	28.62
100	55.01	47.95	29.55	2.75	19.52	30.45	36.58	34.65	22.09	1.9
110	55.03	47.94	21.04	4.73	13.01	27.41	33.62	31.45	19.7	2.88
120	51.17	39.2	9.85	5.89	7.16	21.68	32.02	28.83	12.92	3.99
130	50.73	11.14	20.65	6.08	11.57	7.94	27.11	24.57	6.48	4.7

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Total flux (lm) 2432

Power Factor Date 1

2023-08-04 오전 10:08:38

Luminous Intensity Data (Continued)

Maximum (cd) : 1041

Minimum (cd) : 2

G/C	300	330	360
0	1003.65	1019.11	940.8
10	964.95	948.03	773.94
20	872.33	810.81	590.13
30	740.55	639.42	447.84
40	586.39	482.59	351.26
50	438.45	367.49	278.64
60	312.28	280.17	209.55
70	207.69	204.97	140.37
80	120.32	134.15	79.52
90	50.86	74.09	58.24
100	29.67	50.32	55.01
110	29.17	48.54	55.03
120	19.56	47.77	51.17
130	8.06	43.73	50.73

Luminaire KH FEELUX

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Luminous Flux Table

Total Lamp Lumens: 2432.1

Luminaire Efficiency (lm/W): 116.66

CIE Classification: Direct

Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	23.29	23.29	0.96	0.96
10	179.48	202.76	8.34	8.34
20	321.56	524.32	21.56	21.56
30	402.44	926.76	38.11	38.11
40	415.25	1342.01	55.18	55.18
50	370.22	1712.23	70.40	70.40
60	288.40	2000.63	82.26	82.26
70	191.93	2192.56	90.15	90.15
80	100.98	2293.54	94.30	94.30
90	47.26	2340.80	96.25	96.25
100	32.40	2373.20	97.58	97.58
110	28.69	2401.89	98.76	98.76
120	22.13	2424.03	99.67	99.67
130	8.07	2432.10	100.00	100.00

Luminaire KH FEELUX

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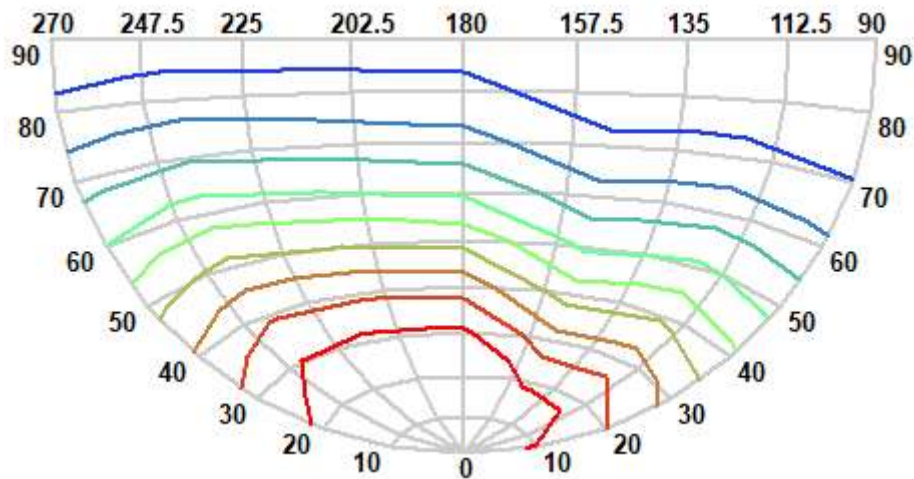
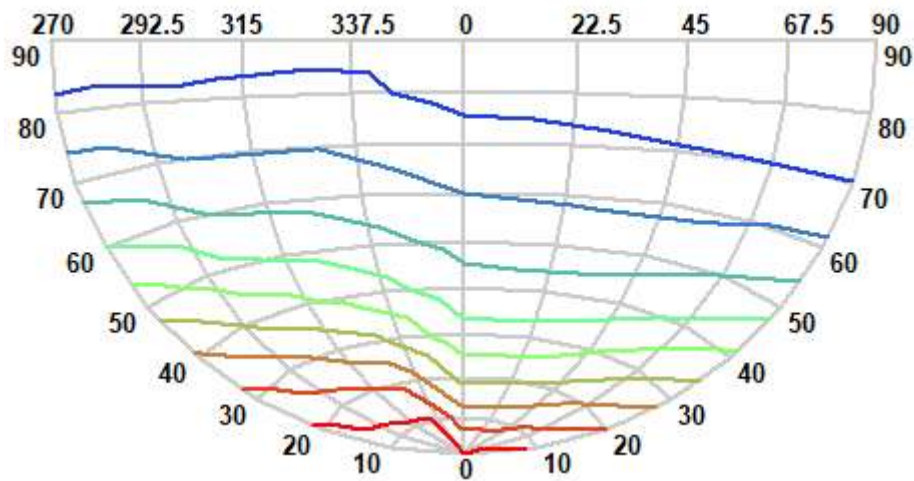
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IsoCandela (Type C)



■	2 ~ 106	■	521 ~ 625
■	106 ~ 210	■	625 ~ 729
■	210 ~ 314	■	729 ~ 833
■	314 ~ 417	■	833 ~ 937
■	417 ~ 521	■	937 ~ 1041

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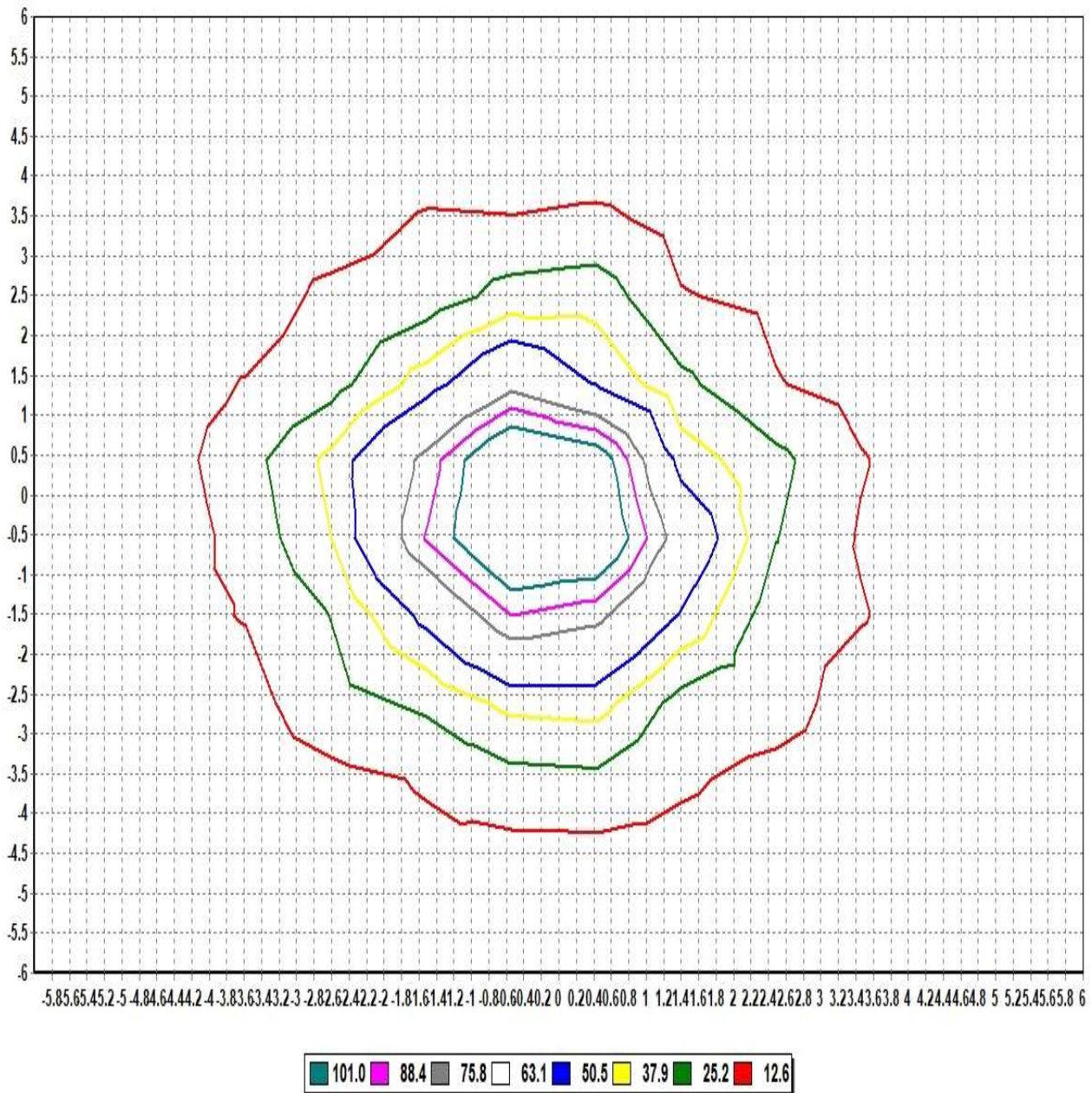
Current (A) Operator: 26

Total flux (lm) 2432

Power Factor Date 1

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IsoLux Diagram (Ground)



Pole Height (m): 2.7

Area Width (m): 12

Total Optical Solution Provider

Luminaire KH FEELUX

Lamp

Report

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Lamp flux (lm) 2432

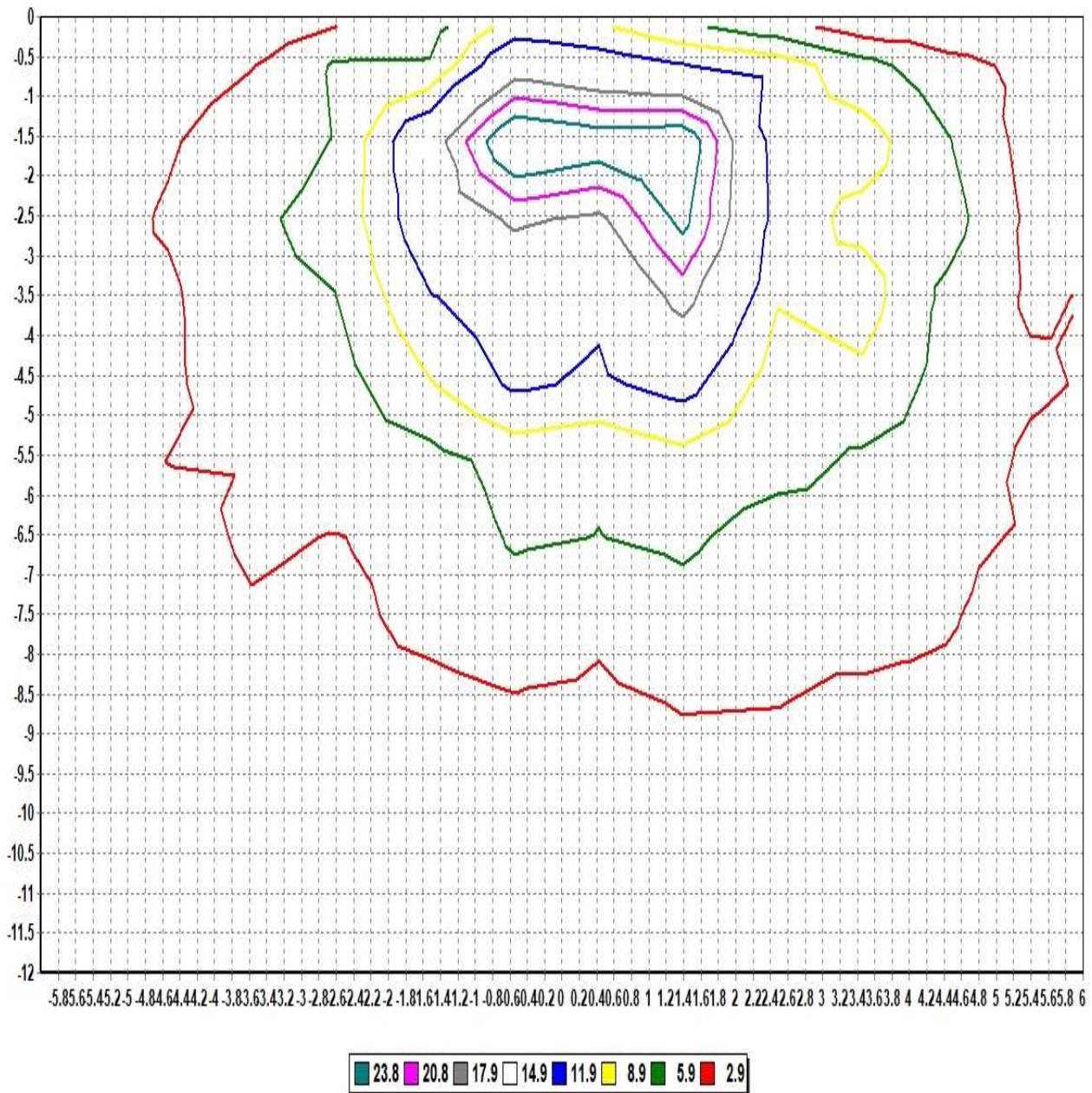
Current (A) Operator: 26

Total flux (lm) 2432

Power Factor Date 1

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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

230804

No. of lamps 1

Voltage (V) 23.892

Filename 230804 CDV20 40K-24V F2207 VER2.02 28SS9.jdt

Lamp flux (lm) 2432

Current (A) 0.8726

Operator

Total flux (lm) 2432

Power Factor 1

Date

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Illuminance Levels (Ground)

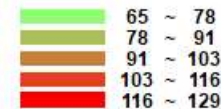
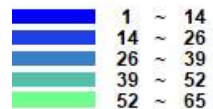
6.00	0.85	1.11	0.70	1.14	1.38	1.34	1.52	1.39	1.17	0.97	0.67	0.89	0.71
5.00	1.16	0.83	1.23	1.72	4.49	4.22	5.22	4.49	3.04	1.52	1.09	0.86	0.95
4.00	0.80	1.33	3.68	5.39	5.38	5.64	6.99	5.72	3.81	3.99	2.64	1.25	0.84
3.00	1.15	1.88	5.57	6.14	14.68	15.74	16.87	10.58	10.92	4.64	3.89	1.76	0.99
2.00	1.44	4.54	5.41	15.49	21.09	38.09	42.39	22.79	13.62	9.68	3.84	3.03	1.26
1.00	2.41	6.73	8.59	15.99	38.37	73.47	104.75	46.75	22.32	10.34	6.15	4.46	1.96
0.00	2.93	8.21	11.38	25.85	60.41	117.12	129.05	86.87	27.39	12.04	5.70	3.93	1.61
-1.00	1.97	6.09	8.35	23.27	51.12	93.09	111.68	79.04	36.36	15.69	6.03	4.16	1.73
-2.00	2.57	6.78	8.50	21.59	30.63	51.28	55.86	38.21	25.63	13.52	6.10	4.69	1.96
-3.00	2.14	3.25	8.32	9.80	22.52	24.11	25.31	18.87	19.88	8.53	5.42	2.46	1.62
-4.00	1.51	2.39	5.70	9.03	8.66	11.23	11.67	11.30	6.42	7.74	4.89	1.85	1.24
-5.00	1.88	1.69	2.73	3.87	7.00	8.06	8.21	8.27	5.34	3.43	2.32	1.55	1.35
-6.00	1.44	2.11	1.80	2.18	2.77	3.10	3.13	3.23	2.23	1.68	1.57	1.78	1.28
-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.) : 129.05

Illum. (Min.) : 0.6738

Illum. (Avg.) : 13.196

All illuminance level values are in lux.



Luminaire KH FEELUX

Lamp

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Lamp flux (lm) 2432

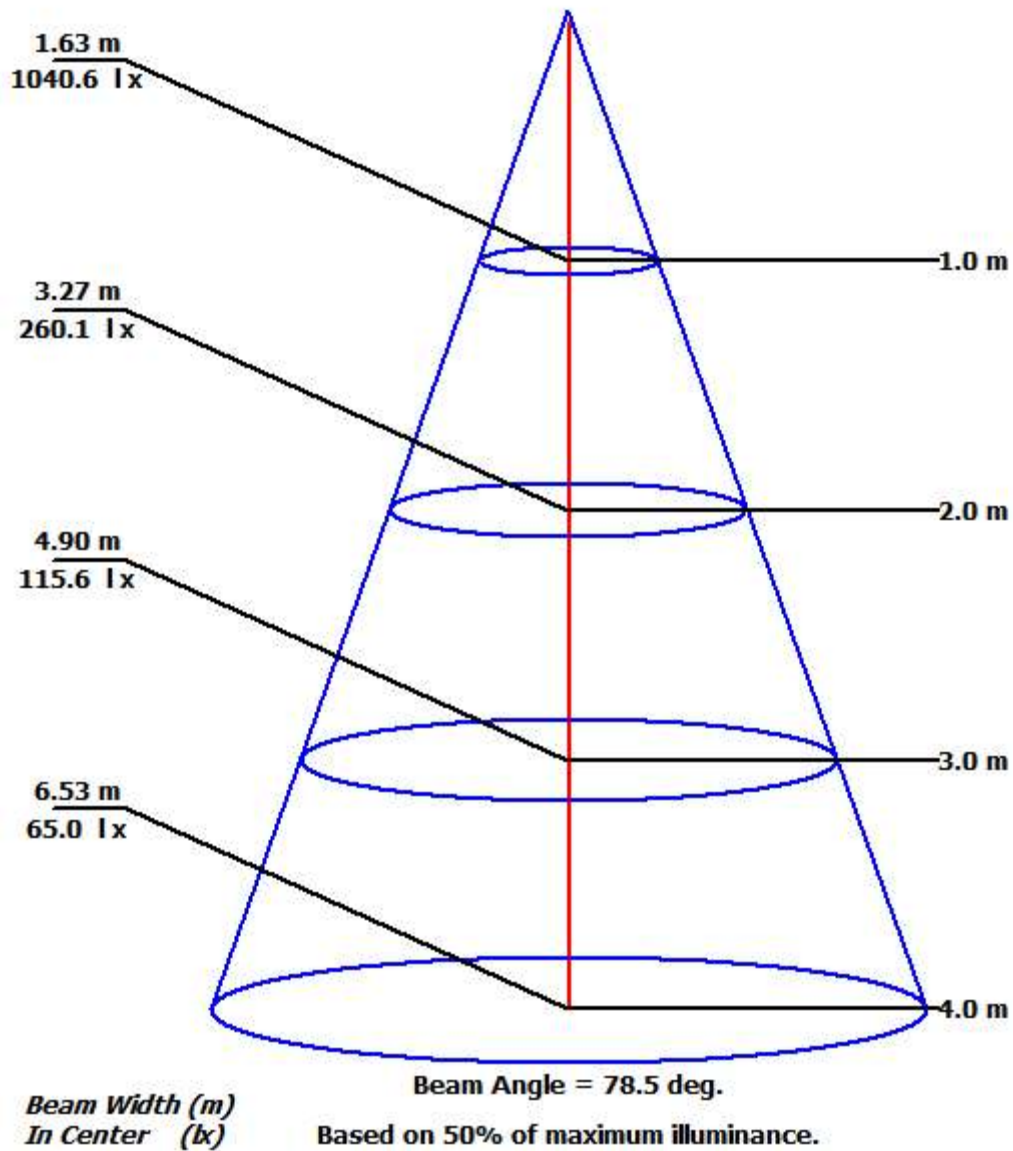
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Illuminance Cone Diagram



Luminaire KH FEELUX

Lamp

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No. of lamps 1 Voltage (V) 23.892

Filename 230804 CDV20 40K-24V F2207 VER2.02 28SS9.jdt

Lamp flux (lm) 2432 Current (A) 0.8726

Operator

Total flux (lm) 2432 Power Factor 1

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