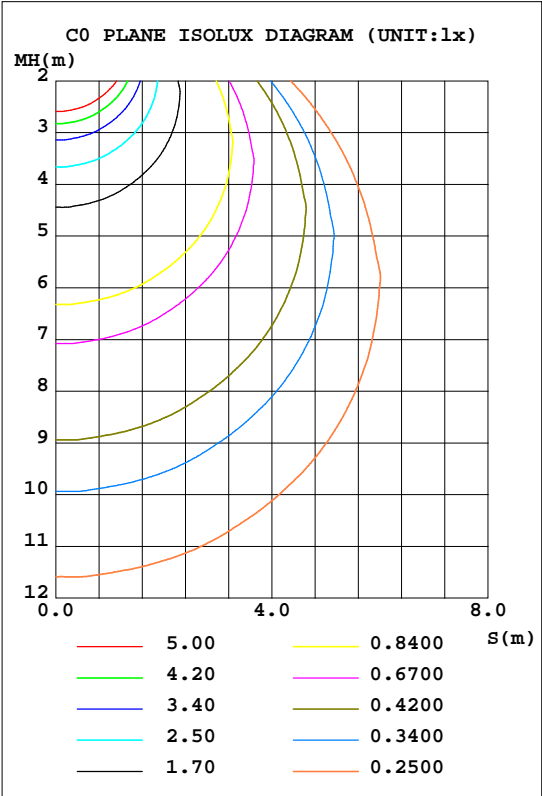
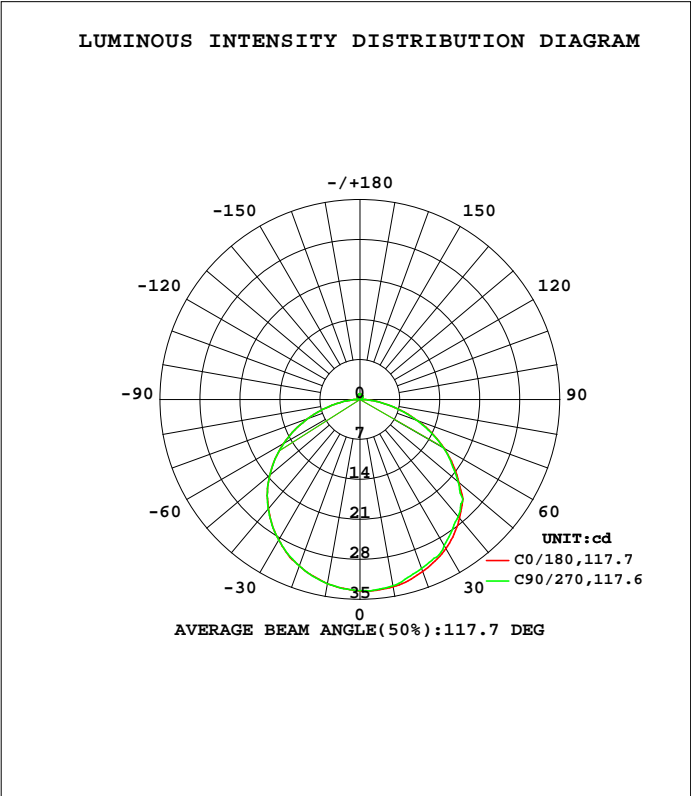


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.1817A P:4.360W PF:1.000 Freq:0Hz Lamp Flux:105.289x1 lm		
NAME: DJ602410NO	TYPE:	WEIGHT:
SPEC.:DJ602410NO-0RGBCSA012WC0100	DIM.: 1000*10*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA      Eff: 24.15 lm/W			
MODEL	DJ602410NO	I <sub>max</sub> (cd)	33.64	S/MH(C0/180)	1.33
NOMINAL POWER(W)	14.4	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	105.29	h UP,DN(C0-180)	1.7,49.9
NOMINAL FLUX(lm)	105.289	CIE CLASS	DIRECT	h UP,DN(C180-360)	1.6,46.8
LAMPS INSIDE	1	h up(%)	3.3	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	h down(%)	96.7	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

ZONAL FLUX DIAGRAM

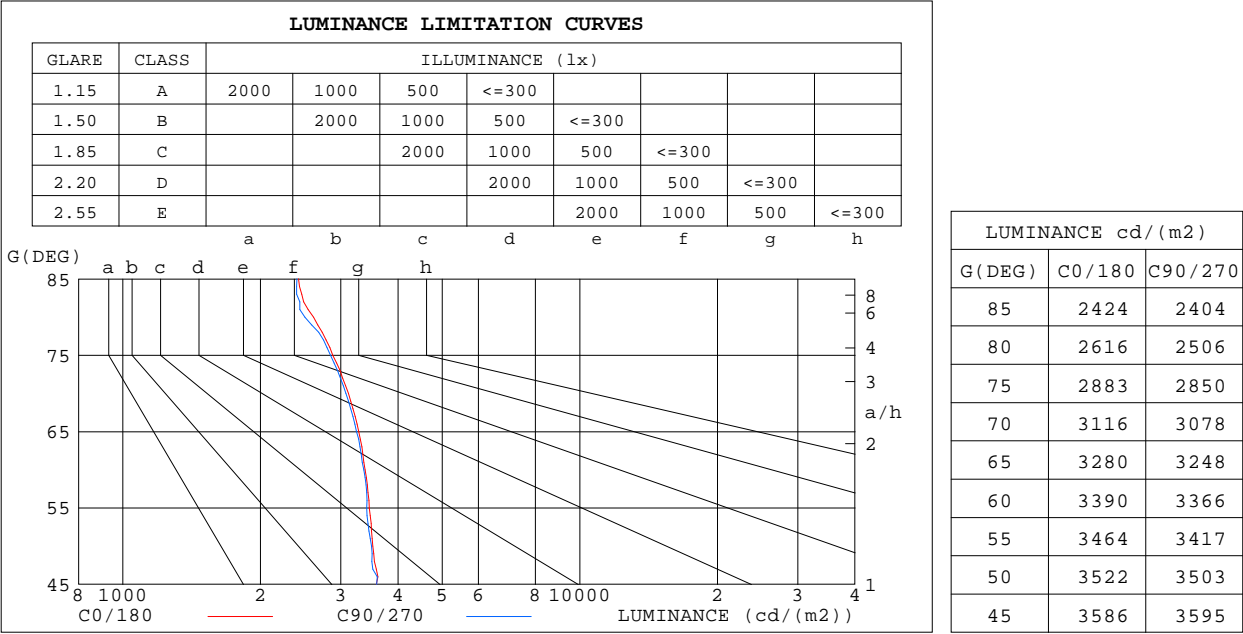
ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	33.30	33.06	33.13	33.06	32.77	32.81	32.77	32.81	0~ 10	3.170	3.170	3.01,3.01
20	32.08	31.45	31.51	31.45	31.04	31.09	31.04	31.10	10~ 20	9.103	12.27	11.7,11.7
30	30.13	29.69	29.54	29.43	28.43	28.51	28.45	28.52	20~ 30	14.00	26.28	25,25
40	27.12	26.72	26.75	26.65	24.94	25.02	25.00	25.05	30~ 40	17.24	43.52	41.3,41.3
50	22.64	22.48	22.51	22.51	20.65	20.68	20.65	20.69	40~ 50	18.51	62.02	58.9,58.9
60	16.95	16.84	16.83	16.80	15.46	15.47	15.45	15.48	50~ 60	16.91	78.93	75,75
70	10.66	10.54	10.53	10.50	9.631	9.633	9.634	9.632	60~ 70	13.02	91.95	87.3,87.3
80	4.542	4.346	4.351	4.311	4.064	4.075	4.063	4.080	70~ 80	7.475	99.43	94.4,94.4
90	0.6207	0.5390	0.5951	0.5335	0.7785	0.8519	0.7849	0.8579	80~ 90	2.361	101.8	96.7,96.7
100	0.2759	0.2759	0.2578	0.2700	0.2998	0.3298	0.2938	0.3359	90~100	0.4430	102.2	97.1,97.1
110	0.3597	0.3959	0.3596	0.3842	0.3481	0.2938	0.3599	0.2998	100~110	0.3258	102.6	97.4,97.4
120	0.4737	0.5218	0.4737	0.5158	0.5098	0.4557	0.5041	0.4737	110~120	0.4182	103.0	97.8,97.8
130	0.6476	0.6838	0.6652	0.6718	0.6357	0.5756	0.6417	0.5756	120~130	0.5073	103.5	98.3,98.3
140	0.8393	0.8455	0.7735	0.8515	0.7196	0.6536	0.7076	0.6595	130~140	0.5434	104.0	98.8,98.8
150	0.8454	0.8935	0.8455	0.9055	0.8216	0.7615	0.8036	0.7555	140~150	0.5021	104.5	99.3,99.3
160	0.9174	0.9475	0.9172	0.9534	0.9115	0.8455	0.9055	0.8453	150~160	0.4025	104.9	99.7,99.7
170	0.9474	1.007	0.9414	0.9954	0.9834	0.9414	0.9775	0.9414	160~170	0.2664	105.2	99.9,99.9
180	1.031	0.9954	0.9714	0.9954	1.019	0.9834	1.019	0.9774	170~180	0.0935	105.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

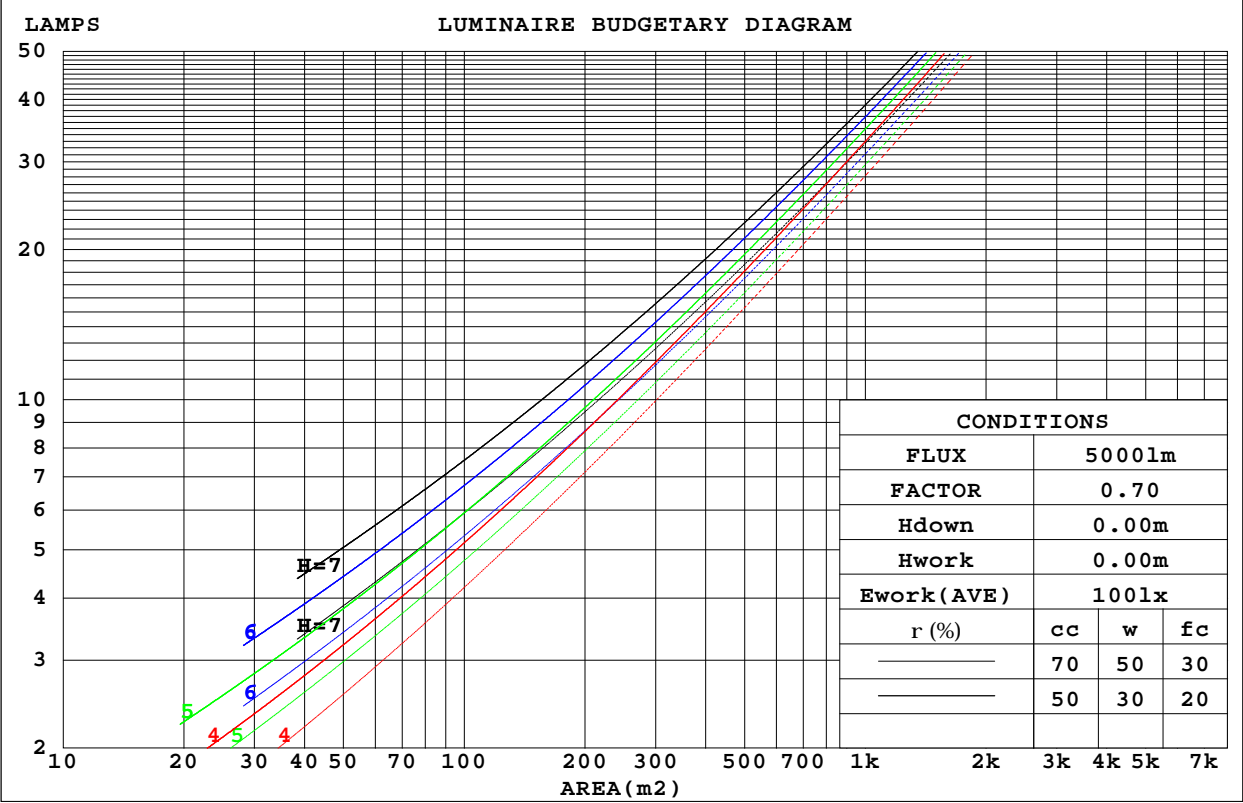


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio      Coefficients of Utilization(CU)															
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.03	.98	.94	1.00	.96	.93	.95	.92	.89	.91	.88	.86	.87	.85	.83	.80
2.0	.89	.82	.76	.87	.81	.75	.83	.78	.73	.79	.75	.71	.76	.72	.69	.66
3.0	.78	.70	.63	.76	.69	.62	.73	.66	.61	.70	.64	.59	.67	.62	.58	.55
4.0	.69	.60	.53	.67	.59	.53	.64	.57	.52	.62	.55	.50	.59	.54	.49	.47
5.0	.61	.52	.46	.60	.52	.45	.58	.50	.44	.55	.49	.44	.53	.47	.43	.41
6.0	.55	.46	.40	.54	.45	.39	.52	.44	.39	.50	.43	.38	.48	.42	.37	.35
7.0	.50	.41	.35	.49	.41	.35	.47	.40	.34	.45	.39	.34	.44	.38	.33	.31
8.0	.45	.37	.31	.45	.36	.31	.43	.36	.30	.41	.35	.30	.40	.34	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.36	.30	.25	.35	.29	.24	.34	.28	.24	.22



C Range: 0 - 360DEG

C Interval: 45.0DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:JYH

Test Date:2024-06-18

g Range: 0 - 180DEG

Interval: 1.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362

Humidity:65.0%

Test Distance:10.375m [K=1.0000]

Remarks:

WEC AND CCEC

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.317	.180	.057	.308	.176	.056	.293	.168	.054	.279	.161	.052	.266	.154	.050	
2.0	.296	.162	.050	.289	.159	.049	.275	.153	.048	.263	.148	.046	.251	.142	.045	
3.0	.273	.145	.044	.267	.143	.043	.255	.138	.042	.244	.134	.041	.233	.129	.040	
4.0	.252	.131	.038	.246	.129	.038	.235	.125	.037	.225	.121	.036	.216	.117	.036	
5.0	.232	.118	.034	.227	.117	.034	.218	.113	.033	.209	.110	.033	.200	.107	.032	
6.0	.215	.108	.031	.211	.106	.031	.202	.104	.030	.194	.101	.030	.186	.098	.029	
7.0	.200	.099	.028	.196	.098	.028	.188	.095	.027	.181	.093	.027	.174	.090	.027	
8.0	.187	.091	.026	.183	.090	.025	.176	.088	.025	.169	.086	.025	.163	.084	.024	
9.0	.175	.085	.024	.172	.084	.023	.165	.082	.023	.159	.080	.023	.154	.078	.023	
10.0	.164	.079	.022	.161	.078	.022	.156	.076	.021	.150	.075	.021	.145	.073	.021	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.216	.216	.216	.184	.184	.184	.126	.126	.126	.072	.072	.072	.023	.023	.023	
1.0	.206	.182	.159	.177	.156	.137	.121	.107	.095	.070	.062	.055	.022	.020	.018	
2.0	.199	.158	.123	.170	.136	.107	.117	.094	.074	.067	.055	.044	.022	.018	.014	
3.0	.191	.140	.100	.164	.121	.086	.112	.084	.061	.065	.049	.036	.021	.016	.012	
4.0	.183	.127	.084	.157	.110	.073	.108	.076	.051	.063	.045	.030	.020	.015	.010	
5.0	.176	.117	.073	.151	.101	.063	.104	.071	.045	.060	.041	.027	.019	.014	.009	
6.0	.169	.108	.065	.145	.094	.057	.100	.066	.040	.058	.039	.024	.019	.013	.008	
7.0	.162	.102	.059	.139	.088	.052	.096	.062	.037	.056	.036	.022	.018	.012	.007	
8.0	.156	.096	.055	.134	.083	.048	.093	.058	.034	.054	.034	.020	.017	.011	.007	
9.0	.150	.091	.051	.129	.079	.045	.089	.055	.032	.052	.033	.019	.017	.011	.006	
10.0	.144	.087	.049	.124	.075	.042	.086	.053	.030	.050	.031	.018	.016	.010	.006	

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3		
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3		
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2		
Room dimensions	Viewed crosswise					Viewed endwise						
x = 2H y = 2H	2H	25.1	26.5	25.4	26.8	27.1	25.0	26.5	25.3	26.8	27.0	
	3H	26.6	28.0	27.0	28.3	28.6	26.6	27.9	26.9	28.2	28.5	
	4H	27.2	28.5	27.6	28.8	29.2	27.2	28.5	27.5	28.8	29.1	
	6H	27.7	28.9	28.0	29.2	29.6	27.6	28.8	28.0	29.2	29.5	
	8H	27.8	29.0	28.2	29.3	29.7	27.7	28.9	28.1	29.3	29.6	
	12H	27.9	29.0	28.3	29.4	29.8	27.8	29.0	28.2	29.3	29.7	
	4H	2H	25.7	27.0	26.0	27.3	27.6	25.6	26.9	26.0	27.3	27.6
		3H	27.4	28.5	27.8	28.9	29.3	27.4	28.5	27.8	28.9	29.2
		4H	28.1	29.2	28.5	29.5	30.0	28.1	29.1	28.5	29.5	29.9
		6H	28.7	29.6	29.1	30.0	30.5	28.6	29.5	29.1	30.0	30.4
		8H	28.9	29.7	29.3	30.2	30.6	28.8	29.7	29.3	30.1	30.6
		12H	29.0	29.8	29.5	30.3	30.7	28.9	29.7	29.4	30.2	30.7
	8H	4H	28.4	29.2	28.8	29.7	30.1	28.3	29.2	28.8	29.6	30.1
		6H	29.1	29.8	29.6	30.3	30.8	29.0	29.7	29.5	30.2	30.7
		8H	29.4	30.0	29.9	30.5	31.0	29.3	29.9	29.8	30.4	30.9
		12H	29.6	30.1	30.1	30.6	31.2	29.5	30.1	30.1	30.6	31.1
	12H	4H	28.4	29.2	28.9	29.6	30.1	28.3	29.1	28.8	29.6	30.1
		6H	29.1	29.8	29.6	30.2	30.8	29.1	29.7	29.6	30.2	30.7
		8H	29.4	30.0	30.0	30.5	31.1	29.4	29.9	29.9	30.4	31.0
Variations with the observer position at spacings:												
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2						
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3						
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.3						

CIE Pub.117, 105.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -7.8)

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

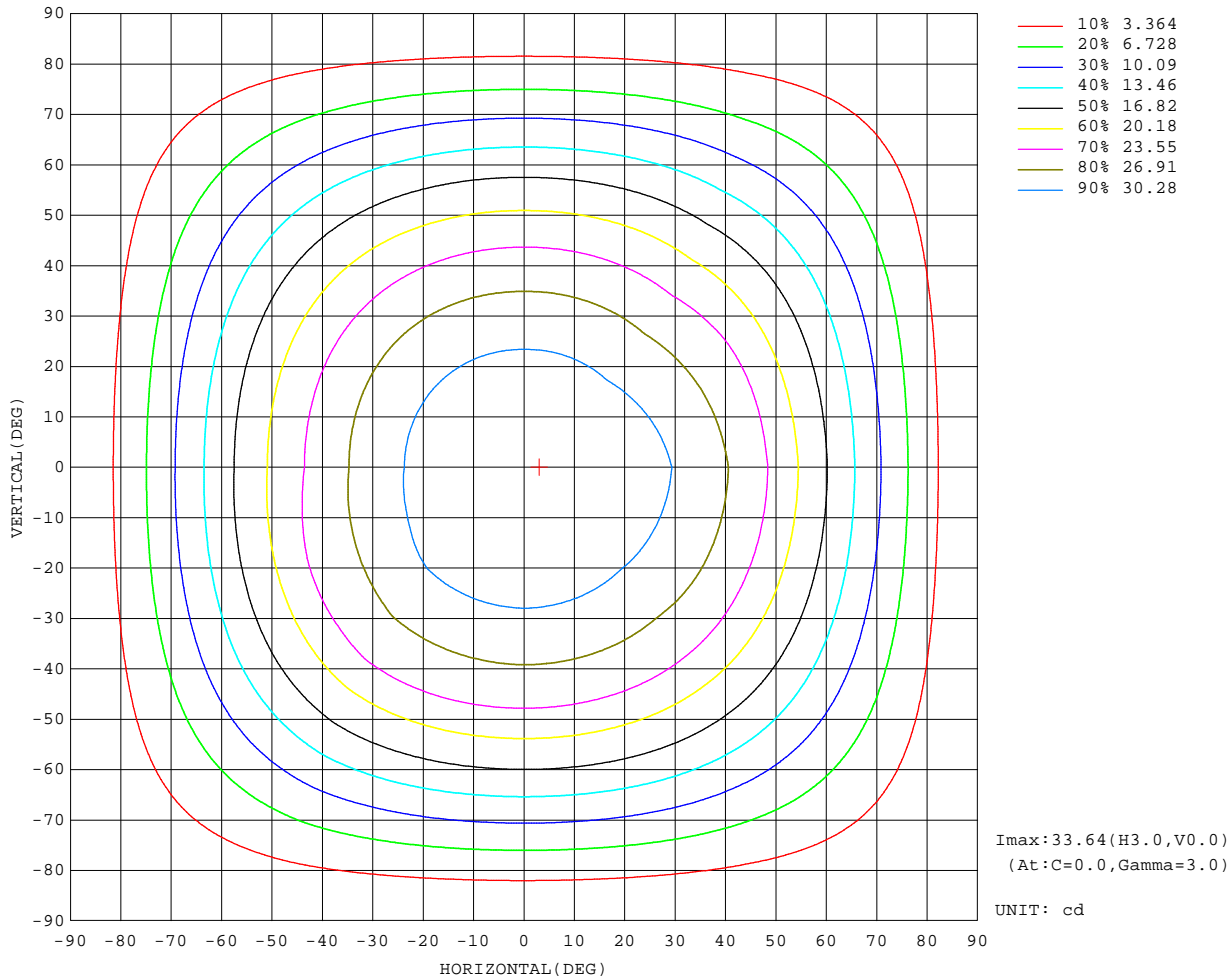
UTILIZATION FACTORS TABLE

REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	44	37	55	43	37	53	43	36	30
0.80	66	54	46	64	53	46	62	52	45	38
1.00	74	63	55	73	62	55	70	63	54	46
1.25	81	70	63	80	69	62	76	68	61	54
1.50	86	76	69	84	75	68	81	73	67	59
2.00	93	84	78	91	83	77	87	80	75	66
2.50	97	89	83	95	88	82	91	85	80	70
3.00	101	94	88	98	92	87	94	88	84	75
4.00	105	99	94	102	97	92	97	93	89	79
5.00	107	102	98	105	100	96	99	96	93	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

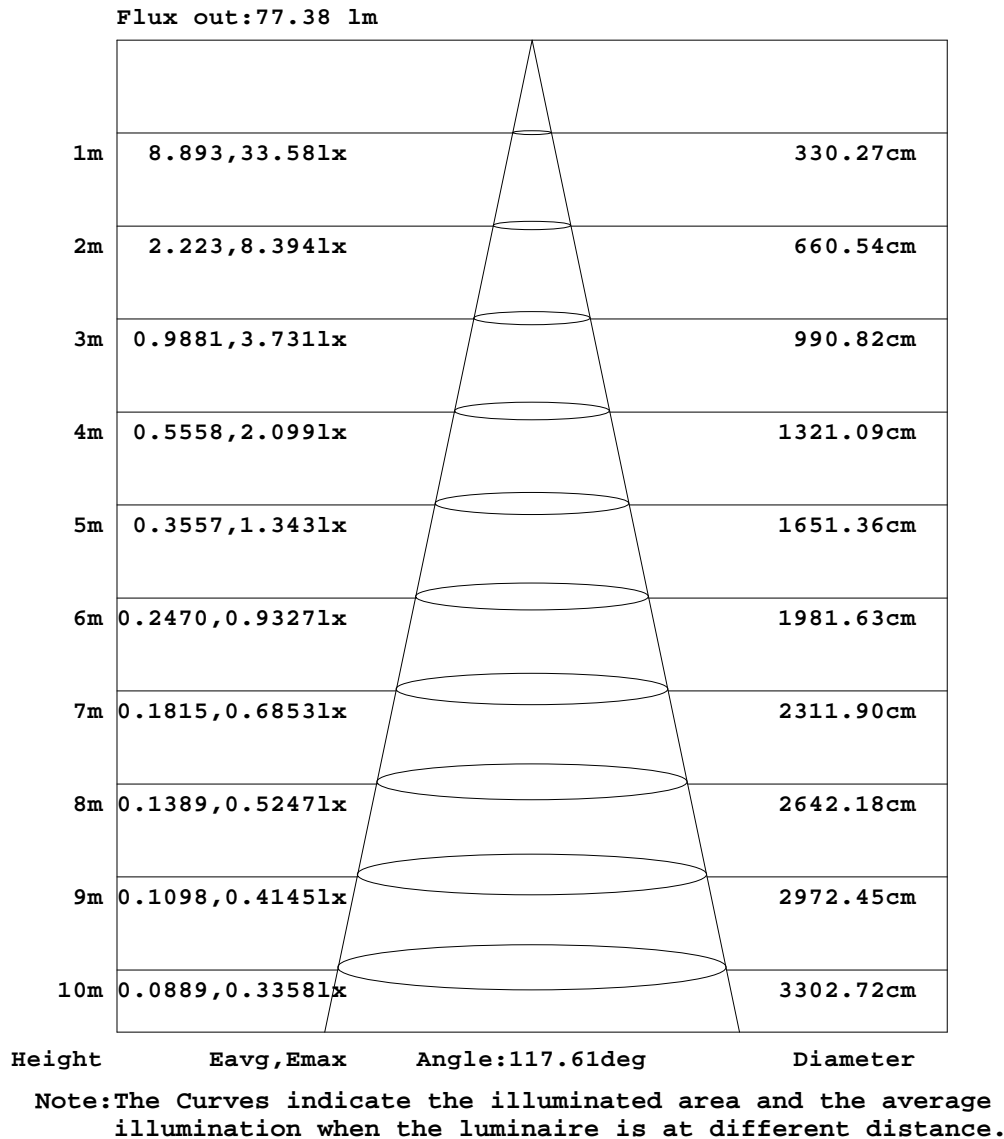
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JYH  
Test Date: 2024-06-18

deg Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.375m [K=1.0000]  
Remarks:

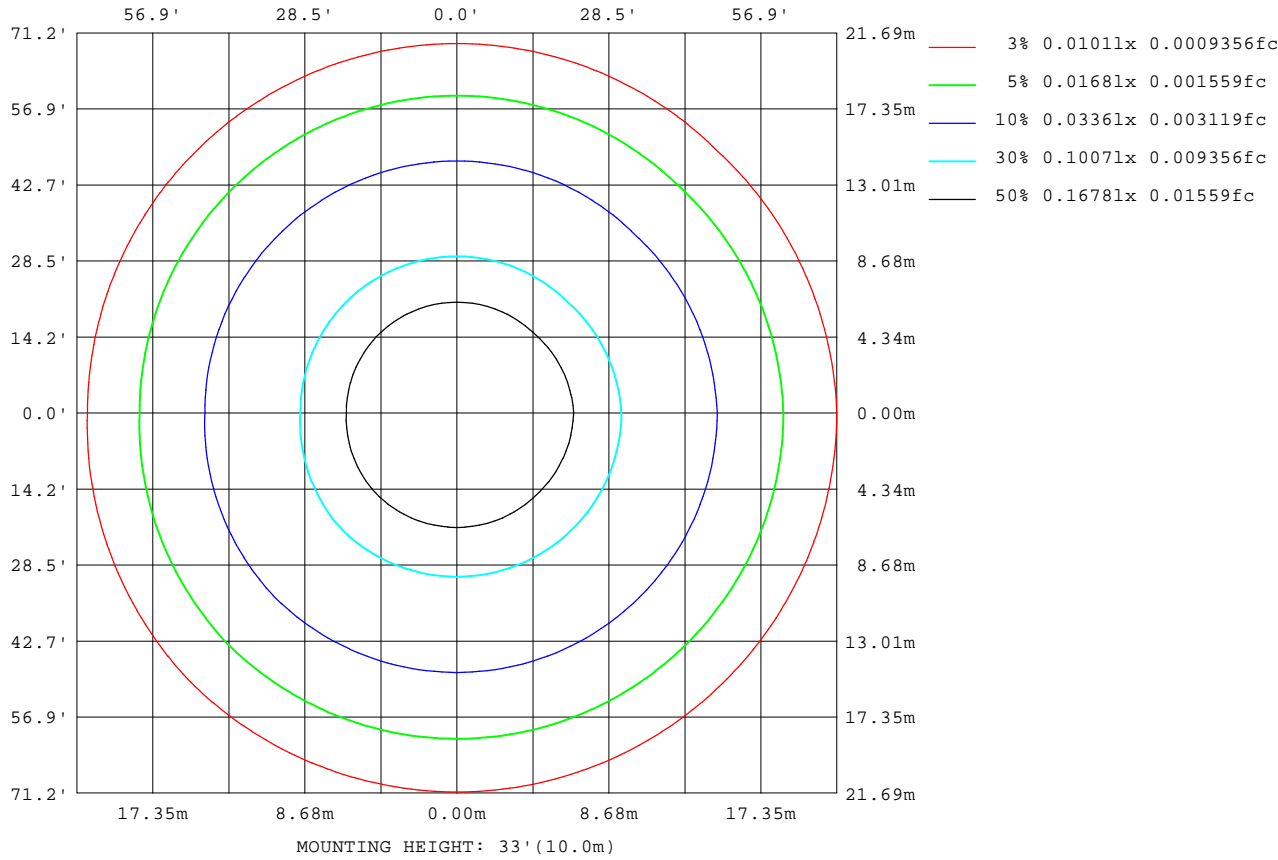
## AAI Figure



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

LED Avg.L Report

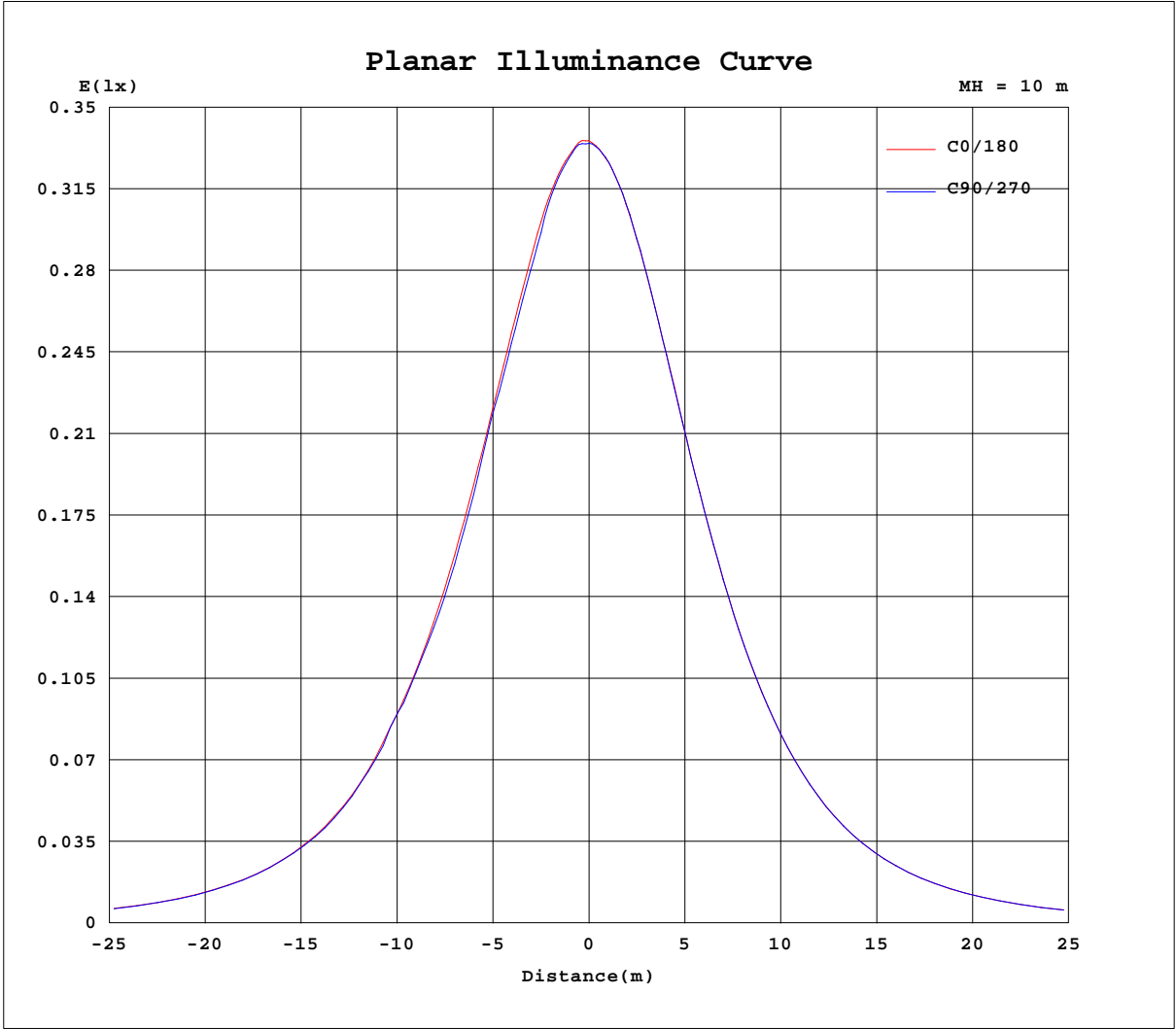
Test:U:24.00V I:0.1817A P:4.360W PF:1.000 Freq:0Hz Lamp Flux:105.289x1 lm		
NAME: DJ602410NO	TYPE:	WEIGHT:
SPEC.:DJ602410NO-0RGBCSA012WC0100	DIM.: 1000*10*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	3128
L_0~180(75)av	2730
L_0~180(85)av	2322
L_90~270(65)av	3110
L_90~270(75)av	2717
L_90~270(85)av	2318
L_45(65)av	3112
L_45(75)av	2719
L_45(85)av	2322

Standard: GB/T 29293-2012

C Range: 0 - 360DEG	g Range: 0 - 180DEG
C Interval: 45.0DEG	g Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Temperature:25.3DEG	Humidity:65.0%
Operators:JYH	Test Distance:10.375m [K=1.0000]
Test Date:2024-06-18	Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: JYH  
Test Date: 2024-06-18

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity: 65.0%  
Test Distance: 10.375m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	33.6	33.5	33.5	33.5	33.6	33.5	33.5	33.5										
5	33.5	33.4	33.4	33.3	33.2	33.3	33.2	33.3										
10	33.3	33.1	33.1	33.1	32.8	32.8	32.8	32.8										
15	32.8	32.2	32.3	32.2	32.0	32.1	32.0	32.1										
20	32.1	31.5	31.5	31.4	31.0	31.1	31.0	31.1										
25	31.2	30.6	30.7	30.7	29.9	29.9	29.9	29.9										
30	30.1	29.7	29.5	29.4	28.4	28.5	28.4	28.5										
35	28.7	28.0	28.0	28.0	26.8	26.9	26.9	26.9										
40	27.1	26.7	26.8	26.7	24.9	25.0	25.0	25.0										
45	25.4	25.3	25.4	25.4	22.9	23.0	23.0	23.0										
50	22.6	22.5	22.5	22.5	20.7	20.7	20.6	20.7										
55	19.9	19.6	19.6	19.5	18.1	18.2	18.1	18.2										
60	16.9	16.8	16.8	16.8	15.5	15.5	15.4	15.5										
65	13.9	13.7	13.7	13.7	12.6	12.6	12.6	12.6										
70	10.7	10.5	10.5	10.5	9.63	9.63	9.63	9.63										
75	7.46	7.36	7.38	7.36	6.67	6.72	6.69	6.71										
80	4.54	4.35	4.35	4.31	4.06	4.08	4.06	4.08										
85	2.11	2.06	2.10	2.06	1.93	1.98	1.94	1.99										
90	0.62	0.54	0.60	0.53	0.78	0.85	0.78	0.86										
95	0.31	0.28	0.28	0.28	0.41	0.47	0.47	0.49										
100	0.28	0.28	0.26	0.27	0.30	0.33	0.29	0.34										
105	0.28	0.32	0.27	0.32	0.30	0.29	0.30	0.30										
110	0.36	0.40	0.36	0.38	0.35	0.29	0.36	0.30										
115	0.46	0.46	0.47	0.46	0.41	0.36	0.43	0.36										
120	0.47	0.52	0.47	0.52	0.51	0.46	0.50	0.47										
125	0.56	0.60	0.56	0.60	0.59	0.55	0.59	0.55										
130	0.65	0.68	0.67	0.67	0.64	0.58	0.64	0.58										
135	0.74	0.76	0.74	0.77	0.68	0.64	0.68	0.65										
140	0.84	0.85	0.77	0.85	0.72	0.65	0.71	0.66										
145	0.84	0.88	0.86	0.88	0.79	0.75	0.77	0.73										
150	0.85	0.89	0.85	0.91	0.82	0.76	0.80	0.76										
155	0.89	0.93	0.86	0.92	0.89	0.85	0.87	0.82										
160	0.92	0.95	0.92	0.95	0.91	0.85	0.91	0.85										
165	0.94	0.98	0.94	0.98	0.97	0.92	0.95	0.89										
170	0.95	1.01	0.94	1.00	0.98	0.94	0.98	0.94										
175	1.03	1.01	0.95	1.00	1.01	0.95	1.00	0.95										
180	1.03	1.00	0.97	1.00	1.02	0.98	1.02	0.98										

C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks: