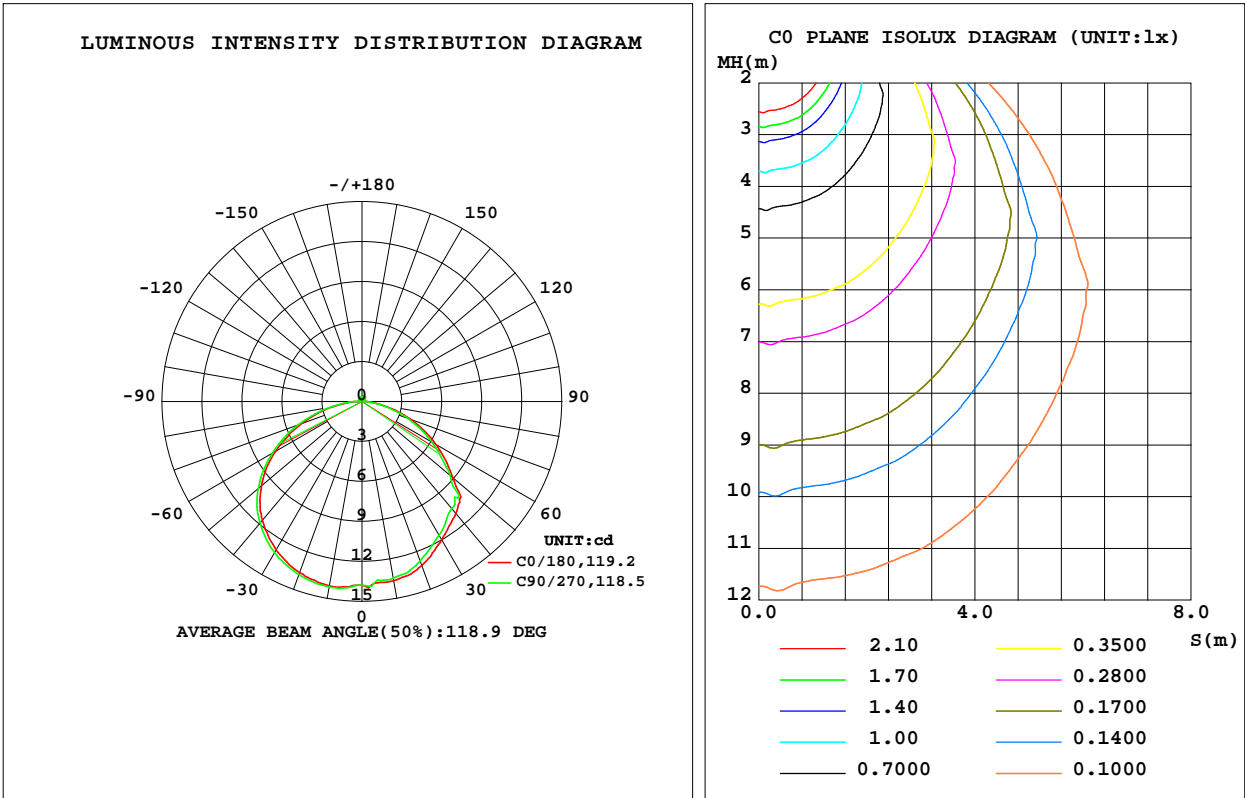


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.1978A P:4.747W PF:1.000 Freq:0Hz Lamp Flux:45.1633x1 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: 9.51 lm/W
MODEL	DJ602410NO	Imax(cd)	14.16	S/MH(C0/180)	1.30	
NOMINAL POWER(W)	14.4	LOR(%)	100.0	S/MH(C90/270)	1.41	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	45.163	h UP,DN(C0-180)	1.7,44.2	
NOMINAL FLUX(lm)	45.1633	CIE CLASS	DIRECT	h UP,DN(C180-360)	1.6,52.5	
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

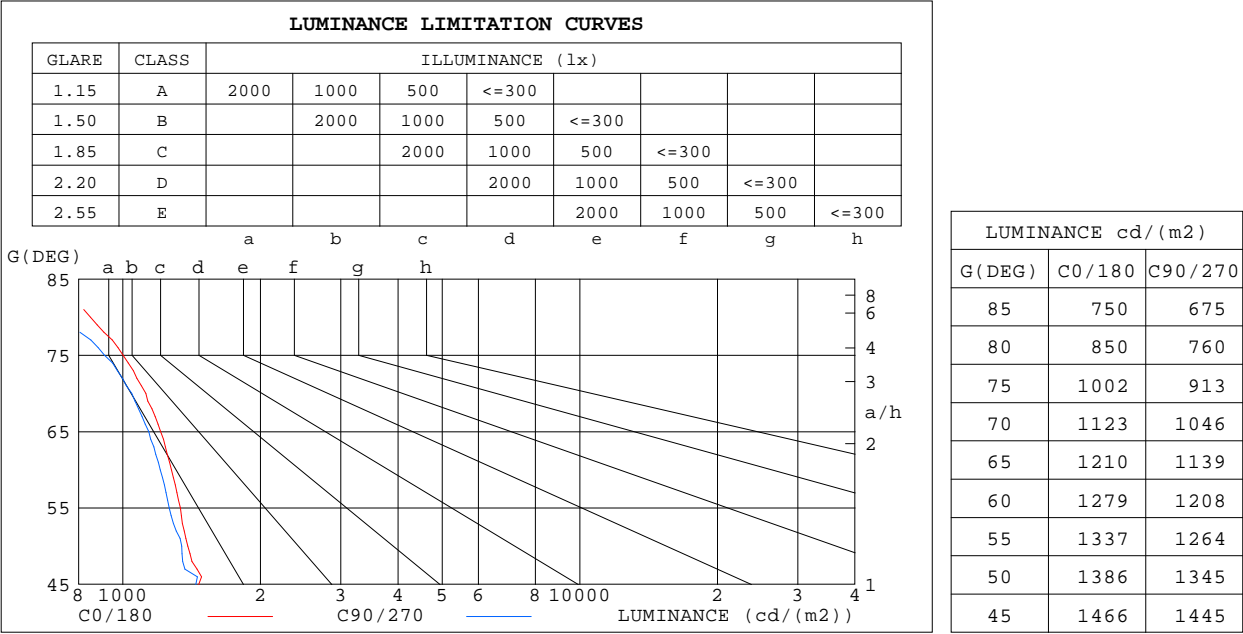
ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	13.66	13.40	13.47	13.41	14.04	14.15	14.13	14.15	0~ 10	1.318	1.318	2.92,2.92
20	13.10	12.73	12.76	12.64	13.68	13.89	13.83	13.88	10~ 20	3.852	5.170	11.4,11.4
30	11.98	11.60	11.58	11.48	12.87	13.16	13.11	13.17	20~ 30	5.937	11.11	24.6,24.6
40	10.96	10.48	10.52	10.44	11.64	11.95	11.90	11.96	30~ 40	7.393	18.50	41,41
50	8.912	8.599	8.643	8.598	9.849	10.19	10.16	10.21	40~ 50	8.097	26.60	58.9,58.9
60	6.394	6.011	6.040	5.983	7.495	7.823	7.780	7.838	50~ 60	7.302	33.90	75.1,75.1
70	3.839	3.511	3.576	3.514	4.777	5.083	5.046	5.098	60~ 70	5.564	39.46	87.4,87.4
80	1.476	1.263	1.320	1.288	2.115	2.359	2.306	2.363	70~ 80	3.184	42.65	94.4,94.4
90	0.2160	0.1438	0.1926	0.1612	0.3772	0.4987	0.4492	0.5040	80~ 90	1.016	43.66	96.7,96.7
100	0.1199	0.1259	0.1139	0.1199	0.1139	0.1800	0.1439	0.1799	90~100	0.2078	43.87	97.1,97.1
110	0.1619	0.1860	0.1377	0.1860	0.1379	0.1259	0.1439	0.1319	100~110	0.1461	44.02	97.5,97.5
120	0.1918	0.2399	0.2097	0.2400	0.2159	0.1739	0.2099	0.1679	110~120	0.1748	44.19	97.9,97.9
130	0.2818	0.3298	0.2758	0.3239	0.2699	0.2338	0.2639	0.2337	120~130	0.2234	44.42	98.3,98.3
140	0.4018	0.3838	0.3598	0.3778	0.2878	0.2698	0.2820	0.2638	130~140	0.2389	44.66	98.9,98.9
150	0.4018	0.3838	0.3658	0.3778	0.3239	0.2698	0.3118	0.2698	140~150	0.2093	44.86	99.3,99.3
160	0.4018	0.3838	0.3658	0.3778	0.3539	0.3058	0.3419	0.2938	150~160	0.1590	45.02	99.7,99.7
170	0.4018	0.3838	0.3658	0.3778	0.3658	0.3778	0.3778	0.3596	160~170	0.1039	45.13	99.9,99.9
180	0.3898	0.3838	0.3658	0.3778	0.3598	0.3778	0.3778	0.3658	170~180	0.0360	45.16	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

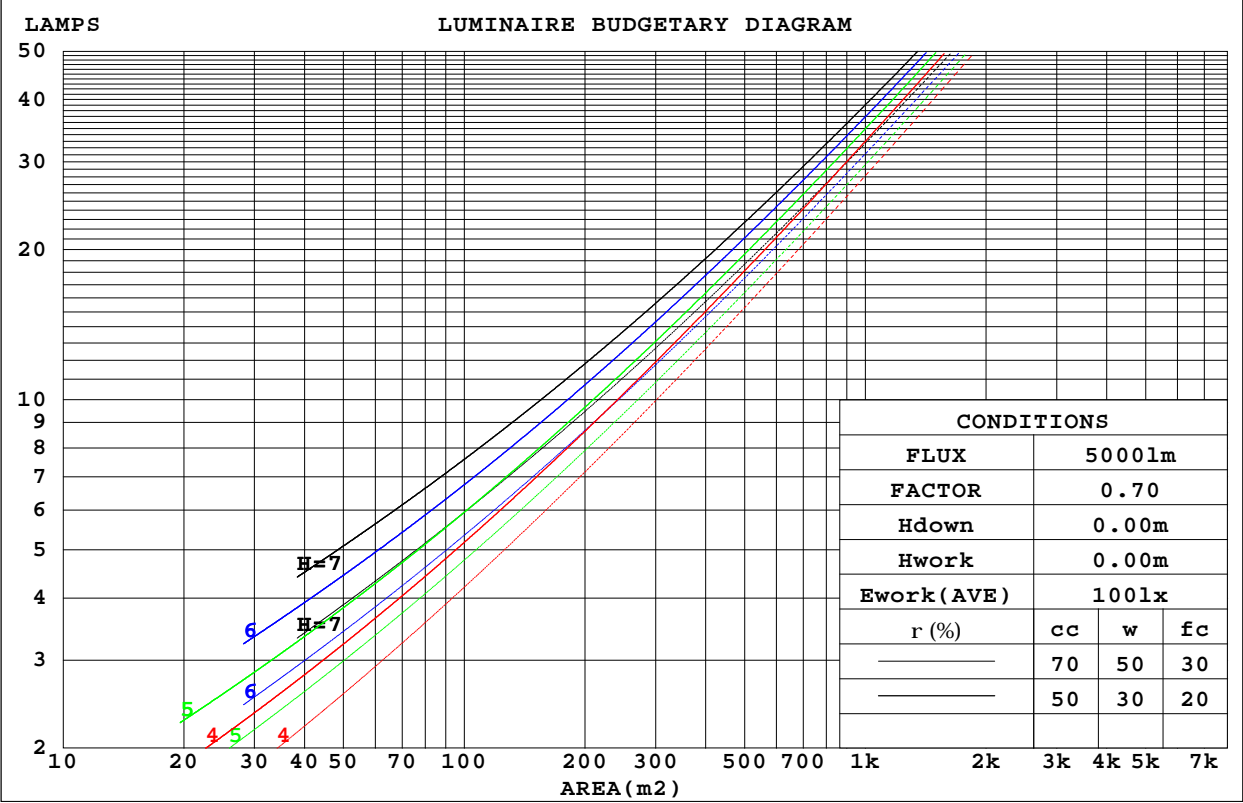


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

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	.92	.95	.92	.89	.91	.88	.86	.87	.84	.83	.80
2.0	.89	.82	.76	.87	.81	.75	.83	.77	.73	.79	.75	.71	.76	.72	.69	.66
3.0	.78	.70	.63	.76	.68	.62	.73	.66	.61	.69	.64	.59	.66	.62	.58	.55
4.0	.69	.60	.53	.67	.59	.53	.64	.57	.51	.62	.55	.50	.59	.54	.49	.47
5.0	.61	.52	.45	.60	.51	.45	.57	.50	.44	.55	.49	.43	.53	.47	.43	.40
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.39	.50	.43	.38	.48	.42	.37	.35
7.0	.50	.41	.35	.49	.40	.34	.47	.39	.34	.45	.38	.33	.44	.38	.33	.31
8.0	.45	.37	.31	.44	.36	.31	.43	.35	.30	.41	.35	.30	.40	.34	.29	.27
9.0	.41	.33	.28	.41	.33	.27	.39	.32	.27	.38	.31	.27	.37	.31	.26	.25
10.0	.38	.30	.25	.38	.30	.25	.36	.29	.24	.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	.309	.176	.056	.293	.168	.054	.280	.161	.052	.267	.155	.050	
2.0	.296	.162	.050	.289	.159	.049	.276	.153	.048	.263	.148	.046	.252	.142	.045	
3.0	.274	.146	.044	.267	.143	.043	.255	.138	.042	.244	.134	.041	.234	.129	.040	
4.0	.252	.131	.039	.246	.129	.038	.236	.125	.037	.226	.121	.037	.216	.118	.036	
5.0	.233	.119	.034	.228	.117	.034	.218	.114	.033	.209	.110	.033	.201	.107	.032	
6.0	.216	.108	.031	.211	.107	.031	.202	.104	.030	.194	.101	.030	.187	.098	.029	
7.0	.200	.099	.028	.196	.098	.028	.189	.095	.027	.181	.093	.027	.175	.091	.027	
8.0	.187	.091	.026	.183	.090	.026	.176	.088	.025	.170	.086	.025	.164	.084	.024	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.160	.080	.023	.154	.078	.023	
10.0	.165	.079	.022	.162	.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	.069	.062	.055	.022	.020	.018	
2.0	.199	.158	.123	.170	.136	.106	.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	.140	.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	24.2	25.7	24.5	25.9	26.2	24.0	25.5	24.3	25.7	26.0
	3H	25.6	27.0	25.9	27.2	27.6	25.3	26.7	25.7	27.0	27.3
	4H	26.1	27.4	26.5	27.7	28.1	25.8	27.1	26.2	27.4	27.7
	6H	26.4	27.7	26.8	28.0	28.4	26.1	27.3	26.5	27.7	28.0
	8H	26.5	27.7	26.9	28.1	28.4	26.2	27.4	26.6	27.7	28.1
	12H	26.6	27.7	27.0	28.1	28.5	26.2	27.4	26.6	27.7	28.1
4H	2H	24.7	26.0	25.0	26.3	26.6	24.5	25.8	24.9	26.1	26.5
	3H	26.2	27.4	26.6	27.7	28.1	26.0	27.2	26.4	27.5	27.9
	4H	26.9	27.9	27.3	28.3	28.7	26.6	27.7	27.0	28.0	28.4
	6H	27.3	28.2	27.8	28.7	29.1	27.0	27.9	27.5	28.3	28.8
	8H	27.5	28.3	27.9	28.8	29.2	27.1	28.0	27.6	28.4	28.9
	12H	27.6	28.4	28.0	28.8	29.3	27.2	28.0	27.7	28.5	28.9
8H	4H	27.0	27.9	27.5	28.3	28.8	26.8	27.7	27.3	28.1	28.6
	6H	27.6	28.3	28.1	28.8	29.3	27.3	28.0	27.8	28.5	29.0
	8H	27.8	28.4	28.3	28.9	29.5	27.5	28.1	28.0	28.6	29.2
	12H	28.0	28.5	28.5	29.0	29.6	27.7	28.2	28.2	28.7	29.3
12H	4H	27.0	27.8	27.5	28.3	28.7	26.8	27.6	27.3	28.0	28.5
	6H	27.6	28.3	28.1	28.7	29.3	27.3	28.0	27.9	28.5	29.0
	8H	27.9	28.4	28.4	28.9	29.5	27.6	28.1	28.1	28.6	29.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.4					
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3					

CIE Pub.117, 45.16 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -10.8)

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:

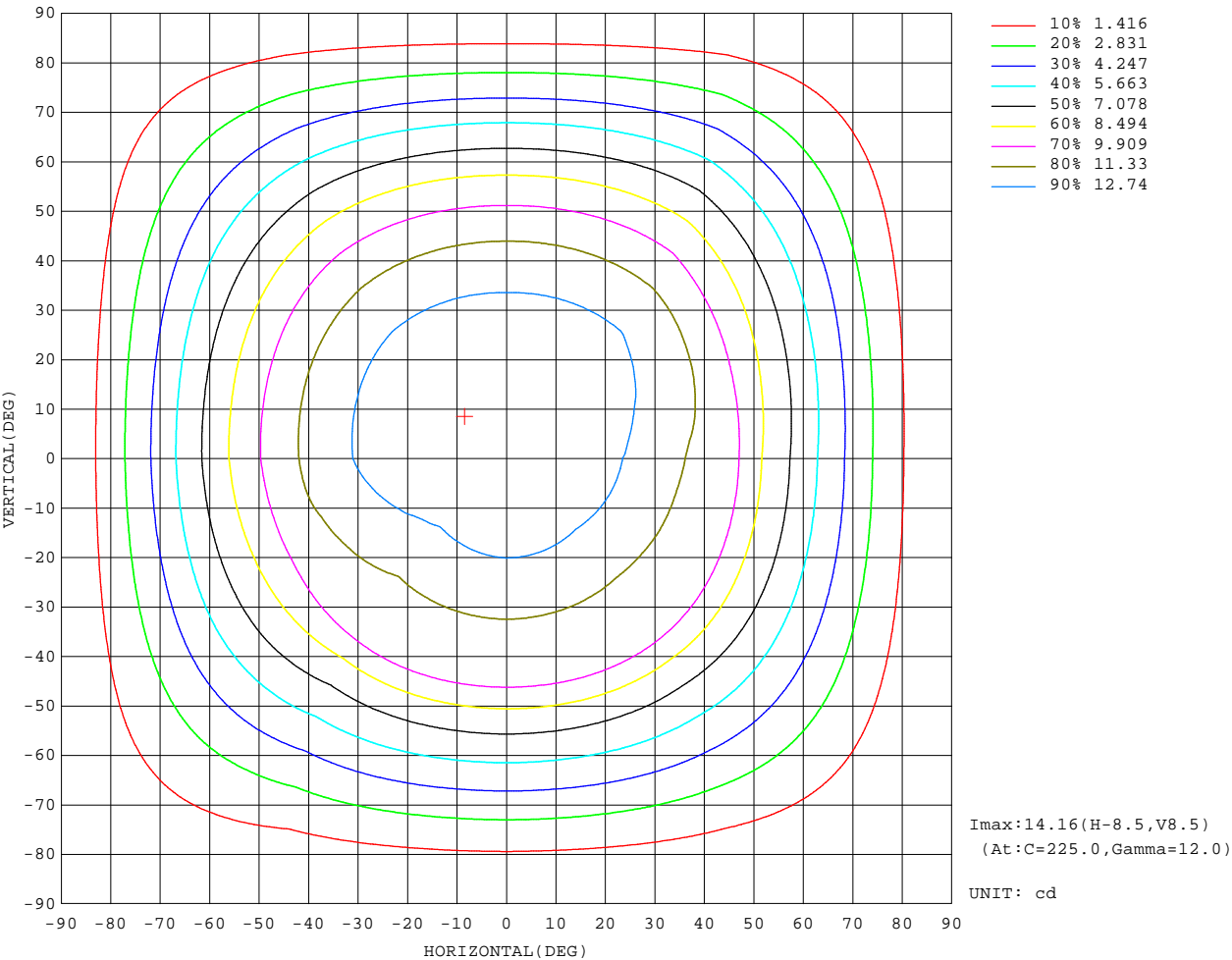
UTILIZATION FACTORS TABLE

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	43	36	54	43	36	53	42	36	29
0.80	65	53	46	64	53	46	62	52	45	38
1.00	74	62	55	72	62	55	70	63	54	46
1.25	81	70	63	79	69	62	76	68	61	53
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	84	80	70
3.00	101	94	88	98	92	86	94	88	84	74
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:

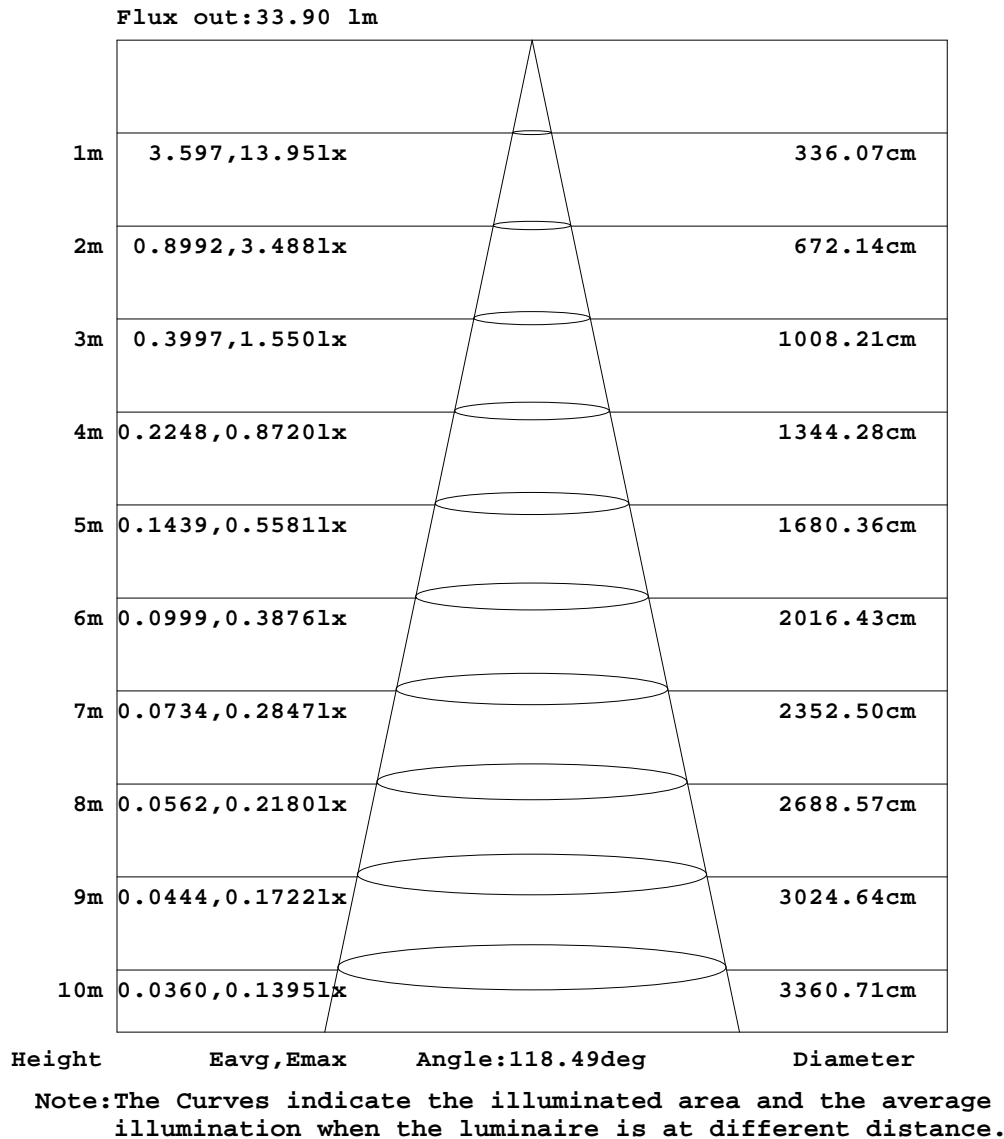
ISOCANDELA DIAGRAM



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:

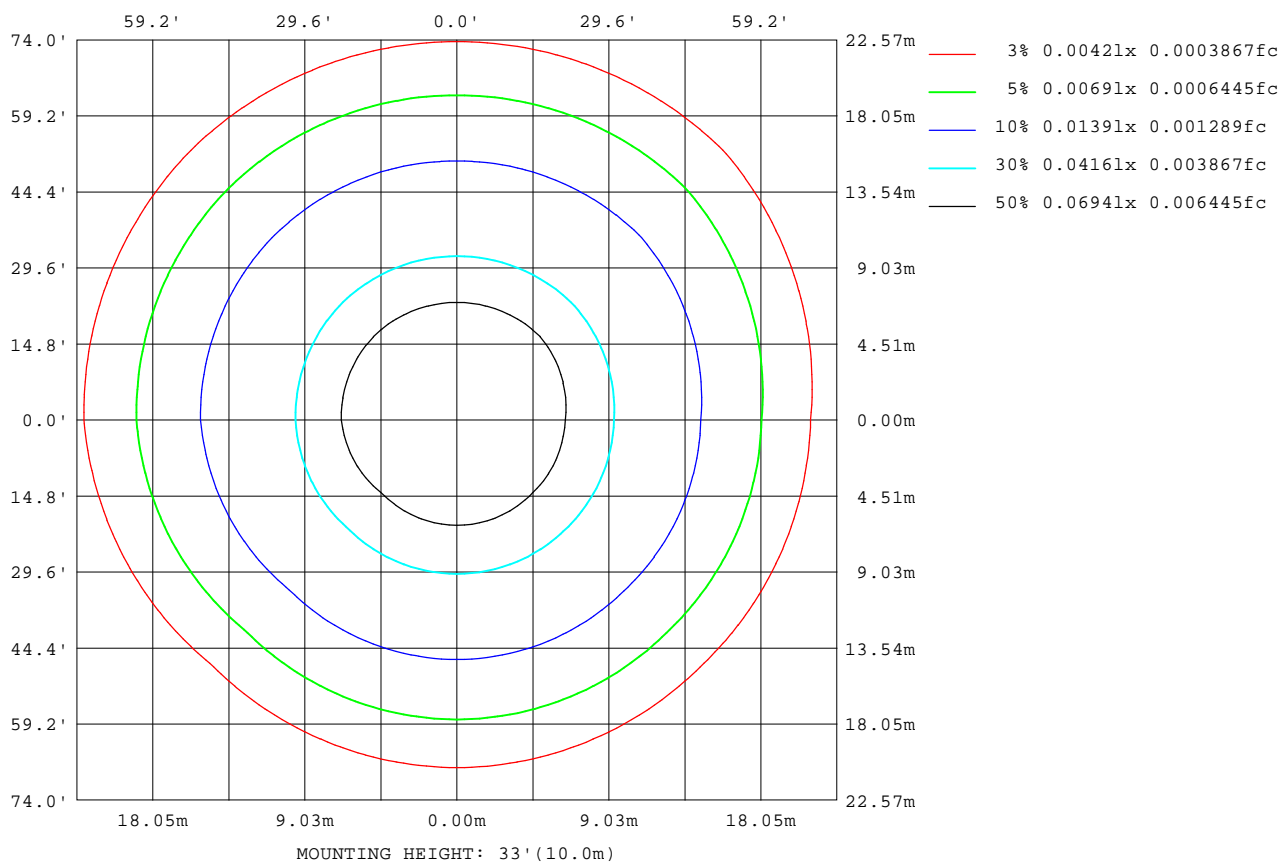
## AAI Figure



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

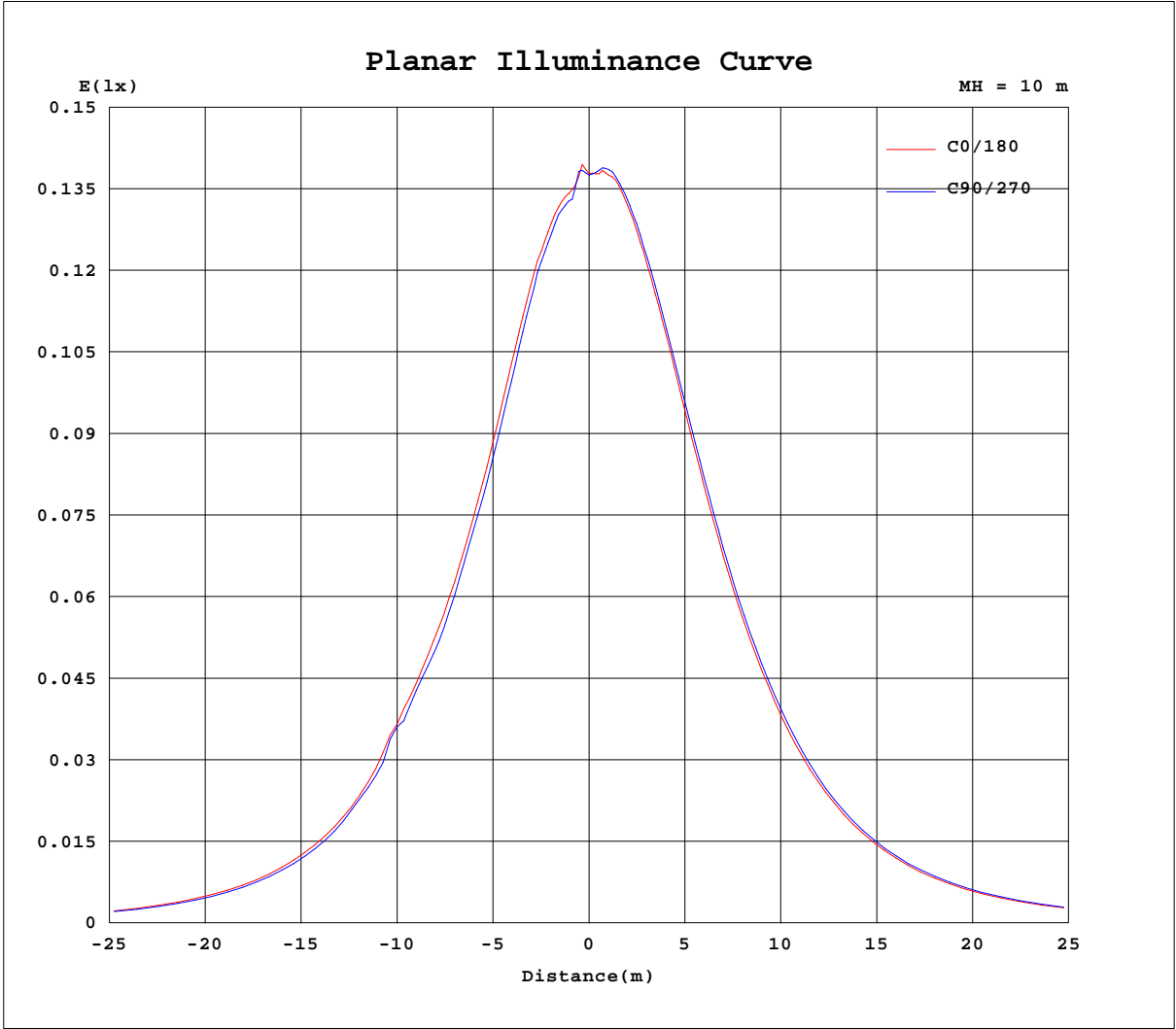
Test:U:24.00V I:0.1978A P:4.747W PF:1.000 Freq:0Hz Lamp Flux:45.1633x1 lm		
NAME: DJ602410NO	TYPE:	WEIGHT:
SPEC.:DJ602410NO-0RGBCSA012WC0100	DIM.: 1000*10*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	1332
L_0~180(75)av	1162
L_0~180(85)av	970
L_90~270(65)av	1332
L_90~270(75)av	1160
L_90~270(85)av	1000
L_45(65)av	1332
L_45(75)av	1163
L_45(85)av	1007

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	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8										
5	13.6	13.5	13.5	13.5	14.0	14.0	14.0	14.0										
10	13.7	13.4	13.5	13.4	14.0	14.2	14.1	14.2										
15	13.5	13.3	13.3	13.1	13.9	14.1	14.0	14.1										
20	13.1	12.7	12.8	12.6	13.7	13.9	13.8	13.9										
25	12.5	12.2	12.1	12.1	13.3	13.6	13.5	13.6										
30	12.0	11.6	11.6	11.5	12.9	13.2	13.1	13.2										
35	11.4	10.9	11.0	10.9	12.3	12.6	12.6	12.6										
40	11.0	10.5	10.5	10.4	11.6	12.0	11.9	12.0										
45	10.4	10.1	10.2	10.2	10.8	11.2	11.2	11.2										
50	8.91	8.60	8.64	8.60	9.85	10.2	10.2	10.2										
55	7.67	7.21	7.25	7.18	8.77	9.08	9.05	9.10										
60	6.39	6.01	6.04	5.98	7.50	7.82	7.78	7.84										
65	5.11	4.76	4.82	4.77	6.14	6.48	6.44	6.50										
70	3.84	3.51	3.58	3.51	4.78	5.08	5.05	5.10										
75	2.59	2.34	2.36	2.33	3.42	3.68	3.64	3.69										
80	1.48	1.26	1.32	1.29	2.11	2.36	2.31	2.36										
85	0.65	0.54	0.59	0.54	1.04	1.21	1.15	1.22										
90	0.22	0.14	0.19	0.16	0.38	0.50	0.45	0.50										
95	0.13	0.11	0.12	0.11	0.17	0.26	0.23	0.26										
100	0.12	0.13	0.11	0.12	0.11	0.18	0.14	0.18										
105	0.14	0.16	0.11	0.16	0.11	0.13	0.13	0.14										
110	0.16	0.19	0.14	0.19	0.14	0.13	0.14	0.13										
115	0.19	0.22	0.17	0.22	0.17	0.13	0.17	0.13										
120	0.19	0.24	0.21	0.24	0.22	0.17	0.21	0.17										
125	0.28	0.29	0.26	0.29	0.27	0.19	0.26	0.21										
130	0.28	0.33	0.28	0.32	0.27	0.23	0.26	0.23										
135	0.37	0.38	0.31	0.38	0.28	0.25	0.28	0.24										
140	0.40	0.38	0.36	0.38	0.29	0.27	0.28	0.26										
145	0.40	0.38	0.37	0.38	0.29	0.27	0.30	0.27										
150	0.40	0.38	0.37	0.38	0.32	0.27	0.31	0.27										
155	0.40	0.38	0.37	0.38	0.34	0.28	0.32	0.27										
160	0.40	0.38	0.37	0.38	0.35	0.31	0.34	0.29										
165	0.40	0.38	0.37	0.38	0.37	0.37	0.37	0.32										
170	0.40	0.38	0.37	0.38	0.37	0.38	0.38	0.36										
175	0.40	0.38	0.37	0.38	0.36	0.38	0.38	0.37										
180	0.39	0.38	0.37	0.38	0.36	0.38	0.38	0.37										

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: