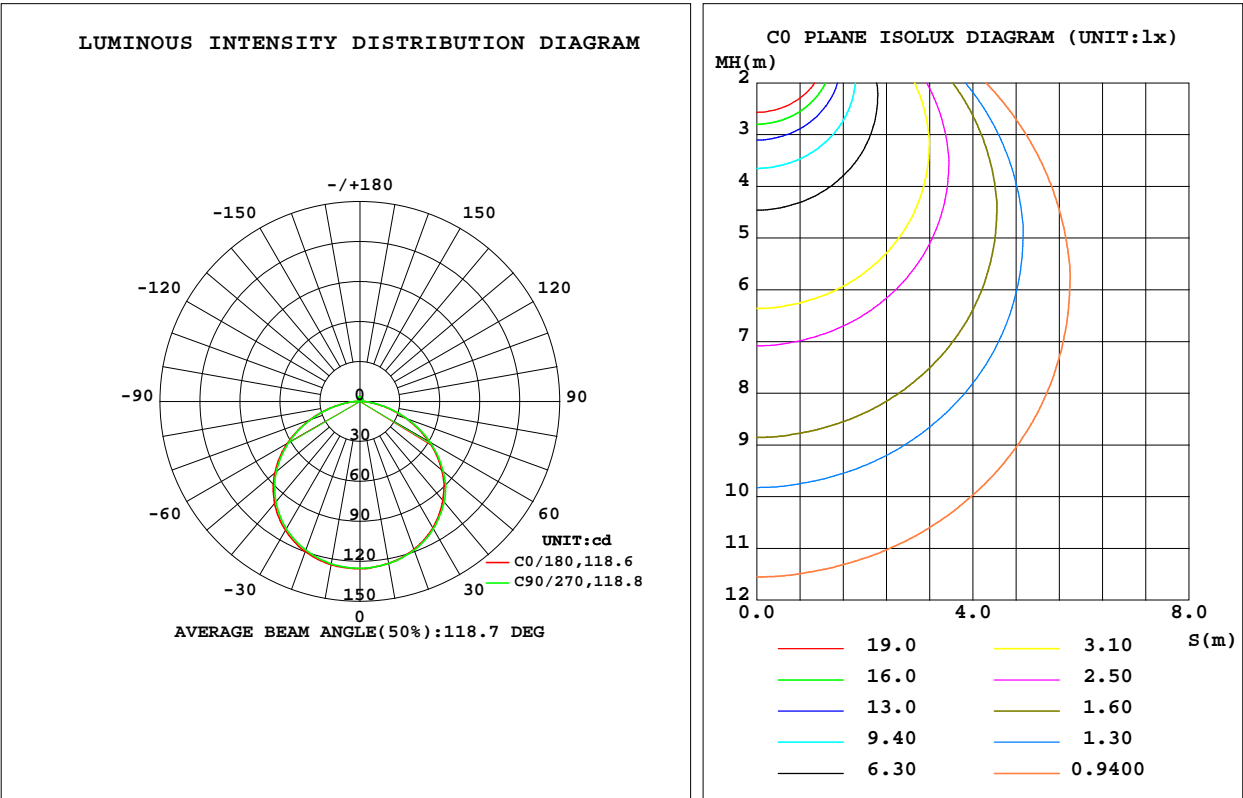


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.5582A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:398.155x1 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: 29.72 lm/W			
MODEL	DJ602410NO	I <sub>max</sub> (cd)	125.5	S/MH(C0/180)	1.30
NOMINAL POWER(W)	14.4	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	398.15	h UP,DN(C0-180)	1.7,47.8
NOMINAL FLUX(lm)	398.155	CIE CLASS	DIRECT	h UP,DN(C180-360)	1.6,48.9
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

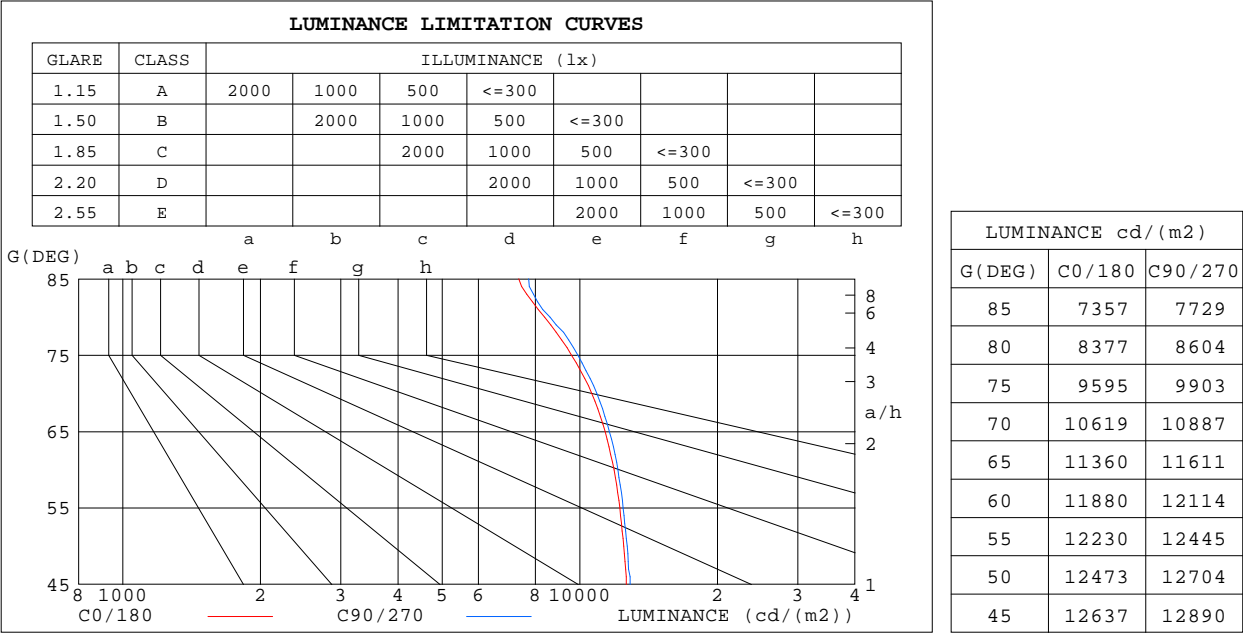
ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	123.3	123.6	123.4	123.3	124.4	123.8	123.6	123.6	0- 10	11.87	11.87	2.98,2.98
20	118.2	118.9	118.6	118.5	119.9	118.8	118.7	118.6	10- 20	34.37	46.24	11.6,11.6
30	109.5	110.5	110.2	110.2	111.7	110.4	110.4	110.4	20- 30	53.07	99.32	24.9,24.9
40	96.77	98.51	98.33	98.11	99.73	98.25	98.20	98.23	30- 40	65.56	164.9	41.4,41.4
50	80.17	81.92	81.66	81.52	83.41	81.92	81.98	81.99	40- 50	69.93	234.8	59,59
60	59.40	60.90	60.57	60.49	63.11	61.75	61.87	61.96	50- 60	64.22	299.0	75.1,75.1
70	36.32	37.48	37.24	37.10	39.69	38.78	38.92	39.10	60- 70	49.28	348.3	87.5,87.5
80	14.55	15.08	14.94	14.93	16.80	16.51	16.63	16.79	70- 80	28.07	376.4	94.5,94.5
90	1.875	1.864	1.902	1.880	2.739	3.127	3.212	3.358	80- 90	8.644	385.0	96.7,96.7
100	1.043	1.062	1.025	1.074	0.9834	1.218	1.193	1.284	90-100	1.613	386.6	97.1,97.1
110	1.505	1.475	1.415	1.481	1.253	1.228	1.272	1.217	100-110	1.258	387.9	97.4,97.4
120	2.020	1.961	1.913	1.974	1.739	1.697	1.763	1.697	110-120	1.584	389.5	97.8,97.8
130	2.577	2.483	2.428	2.489	2.237	2.218	2.279	2.200	120-130	1.890	391.4	98.3,98.3
140	2.974	2.974	2.890	2.980	2.675	2.686	2.686	2.638	130-140	1.997	393.4	98.8,98.8
150	3.250	3.305	3.250	3.292	3.083	3.070	3.089	3.028	140-150	1.877	395.2	99.3,99.3
160	3.532	3.574	3.550	3.568	3.448	3.382	3.430	3.364	150-160	1.537	396.8	99.7,99.7
170	3.760	3.778	3.736	3.772	3.730	3.640	3.682	3.622	160-170	1.018	397.8	99.9,99.9
180	3.856	3.862	3.838	3.838	3.856	3.832	3.838	3.820	170-180	0.3601	398.2	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

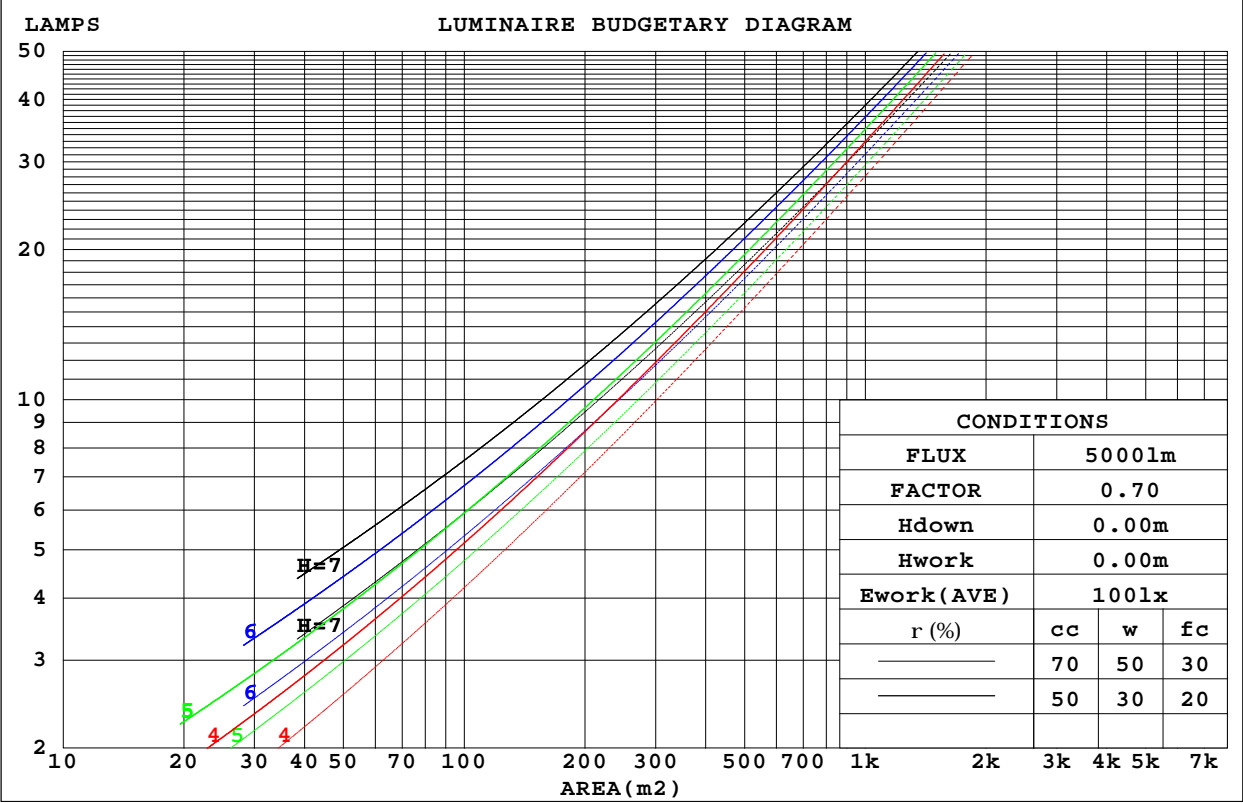


C Range: 0 - 360DEG  
C Interval: 45.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:JYH  
Test Date:2024-06-18

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	.56
4.0	.69	.60	.53	.67	.59	.53	.64	.57	.52	.62	.56	.51	.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	.46	.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	.42	.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	.316	.179	.057	.308	.175	.056	.292	.168	.054	.278	.161	.052	.266	.154	.050	
2.0	.296	.162	.050	.288	.159	.049	.275	.153	.047	.263	.147	.046	.251	.142	.045	
3.0	.273	.145	.044	.267	.143	.043	.255	.138	.042	.243	.133	.041	.233	.129	.040	
4.0	.251	.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	.181	.159	.176	.156	.137	.121	.107	.095	.069	.062	.055	.022	.020	.018	
2.0	.198	.157	.123	.170	.135	.106	.116	.094	.074	.067	.055	.043	.022	.018	.014	
3.0	.191	.140	.100	.163	.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	.070	.045	.060	.041	.027	.019	.013	.009	
6.0	.169	.108	.065	.145	.094	.056	.100	.066	.040	.058	.039	.024	.019	.013	.008	
7.0	.162	.101	.059	.139	.088	.051	.096	.062	.036	.056	.036	.022	.018	.012	.007	
8.0	.155	.096	.055	.134	.083	.048	.093	.058	.034	.054	.034	.020	.017	.011	.007	
9.0	.149	.091	.051	.129	.079	.045	.089	.055	.032	.052	.033	.019	.017	.011	.006	
10.0	.144	.086	.048	.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	24.6	26.1	25.0	26.4	26.7	24.7	26.2	25.0	26.5	26.8		
	3H	26.1	27.5	26.5	27.8	28.1	26.2	27.6	26.6	27.9	28.2		
	4H	26.7	28.0	27.0	28.3	28.6	26.8	28.1	27.1	28.4	28.7		
	6H	27.1	28.3	27.4	28.6	29.0	27.2	28.4	27.6	28.7	29.1		
	8H	27.2	28.4	27.6	28.7	29.1	27.3	28.5	27.7	28.8	29.2		
	12H	27.2	28.4	27.6	28.7	29.1	27.4	28.5	27.8	28.9	29.2		
	4H	2H	25.3	26.6	25.6	26.9	27.2	25.3	26.6	25.7	26.9	27.3	
			3H	26.9	28.1	27.3	28.4	28.8	27.0	28.1	27.4	28.5	28.9
			4H	27.6	28.6	28.0	29.0	29.4	27.7	28.7	28.1	29.1	29.5
			6H	28.1	29.0	28.5	29.4	29.9	28.2	29.1	28.6	29.5	30.0
			8H	28.2	29.1	28.7	29.5	30.0	28.3	29.2	28.8	29.6	30.1
			12H	28.3	29.1	28.8	29.6	30.1	28.5	29.2	28.9	29.7	30.2
8H	4H	27.8	28.7	28.3	29.1	29.6	27.9	28.8	28.4	29.2	29.7		
	6H	28.5	29.2	29.0	29.6	30.1	28.6	29.3	29.1	29.7	30.2		
	8H	28.7	29.3	29.2	29.8	30.3	28.8	29.4	29.3	29.9	30.4		
	12H	28.9	29.4	29.4	29.9	30.5	29.0	29.5	29.5	30.0	30.6		
12H	4H	27.8	28.6	28.3	29.1	29.6	27.9	28.7	28.4	29.2	29.6		
	6H	28.5	29.2	29.0	29.6	30.2	28.6	29.2	29.1	29.7	30.2		
	8H	28.8	29.3	29.3	29.8	30.4	28.9	29.4	29.4	29.9	30.5		
Variations with the observer position at spacings:													
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2							
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3							
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3							

CIE Pub.117, 398.2 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.2)

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:

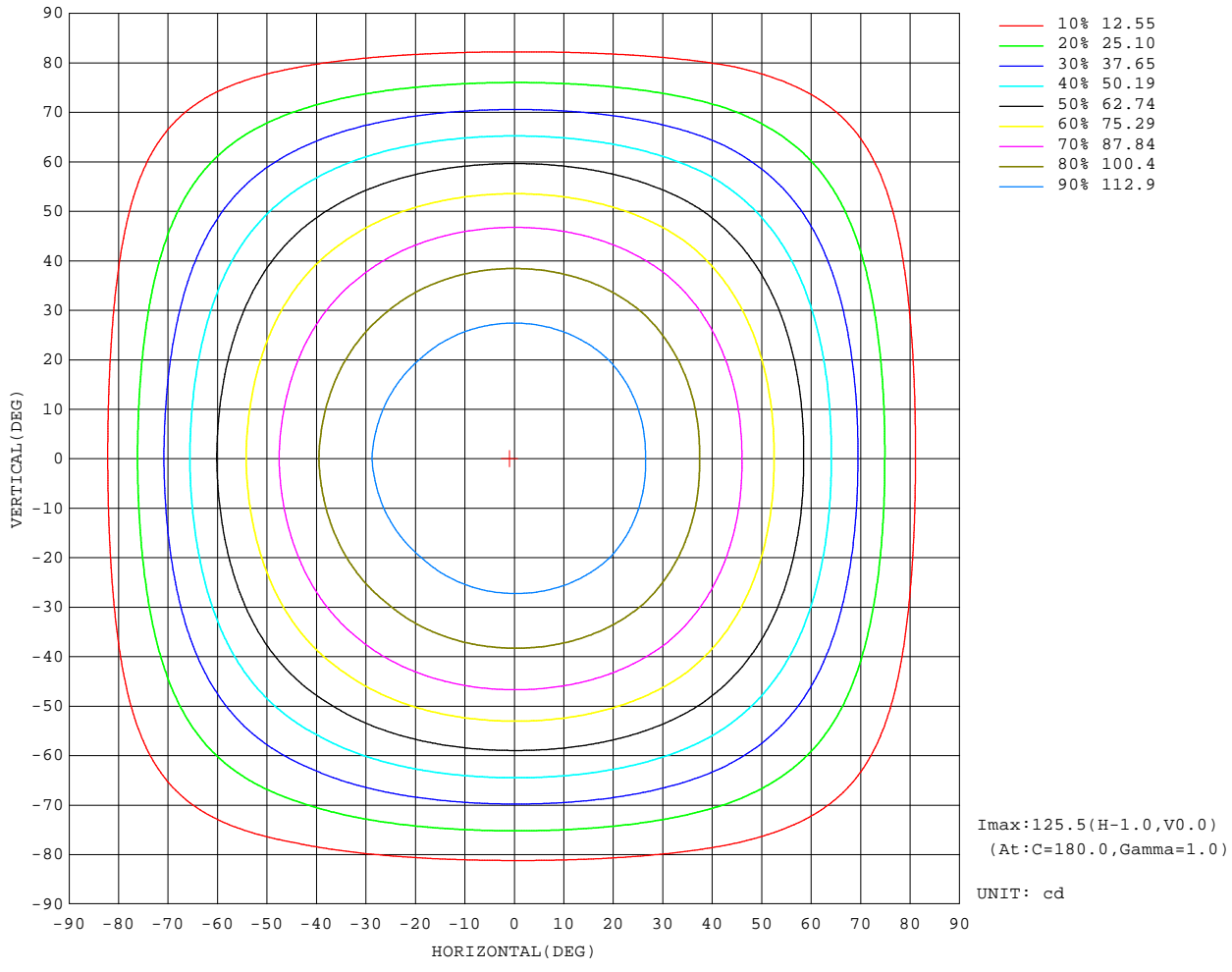
UTILIZATION FACTORS TABLE

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) $k(RI) \times RCR = 5$									
$k = 0.60$	56	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	47
1.25	81	70	63	80	70	63	77	68	62	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	71
3.00	101	94	88	98	92	87	94	88	84	75
4.00	105	99	94	102	97	93	97	93	89	79
5.00	107	102	98	105	100	96	100	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

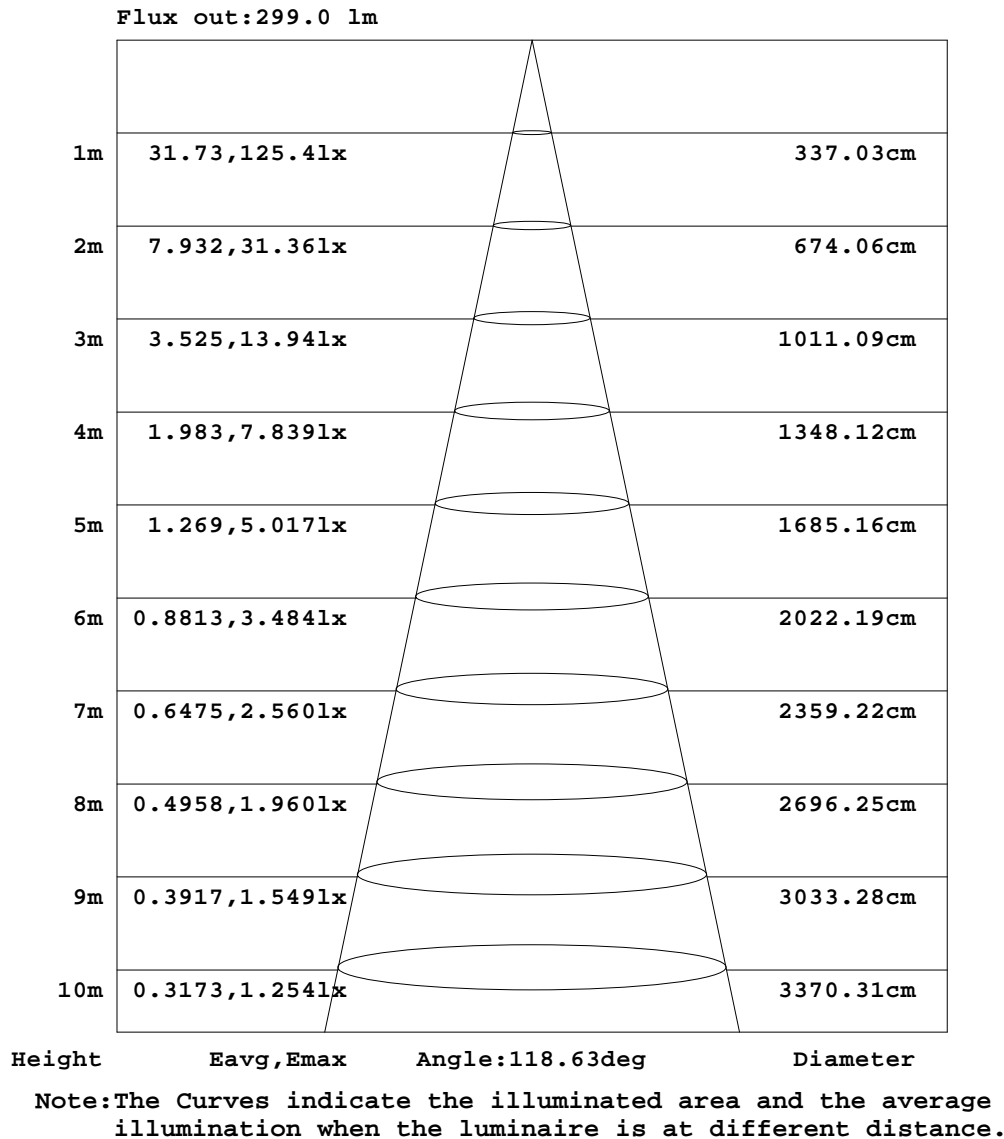
g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:10.375m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM



C Range: 0 - 360DEG	C Range: 0 - 180DEG
C Interval: 45.0DEG	C 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:

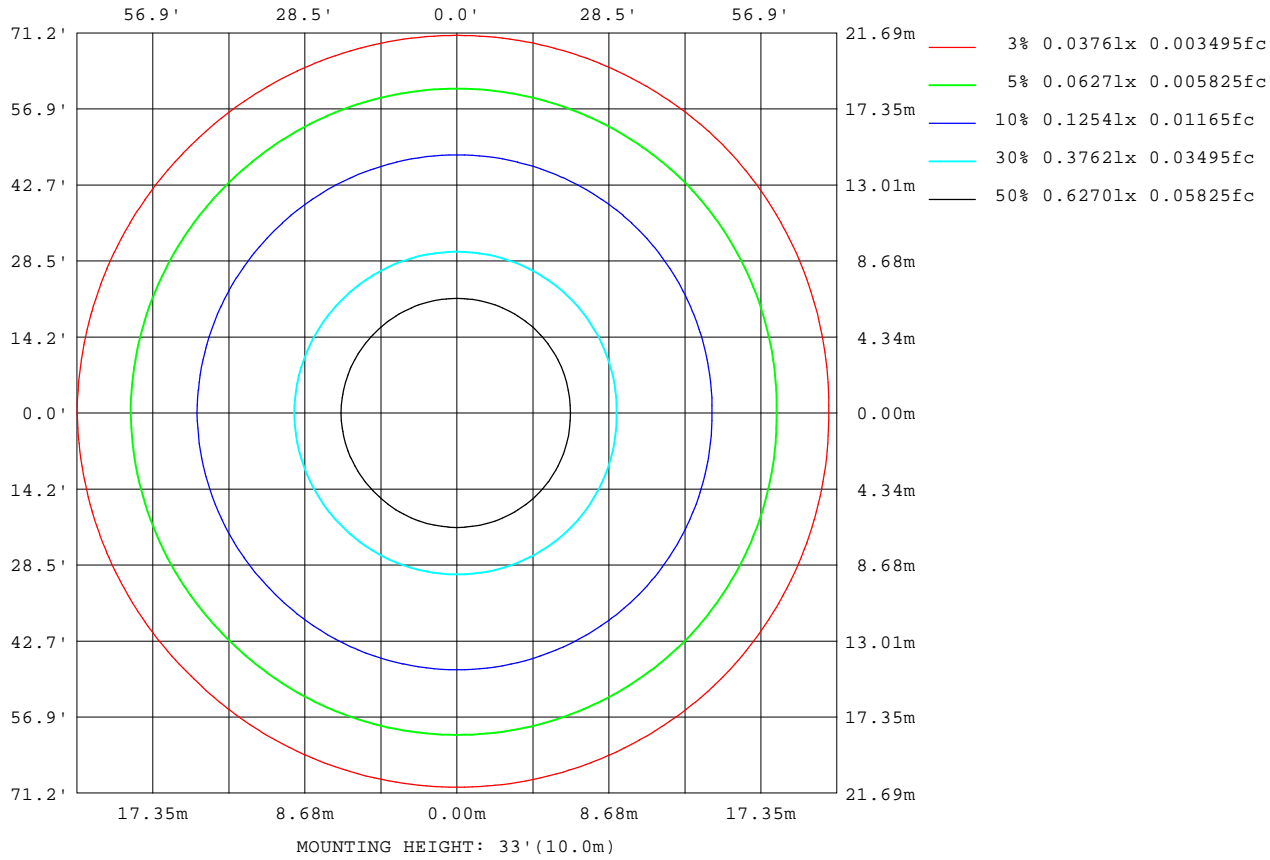
## AAI Figure



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  
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:

LED Avg.L Report

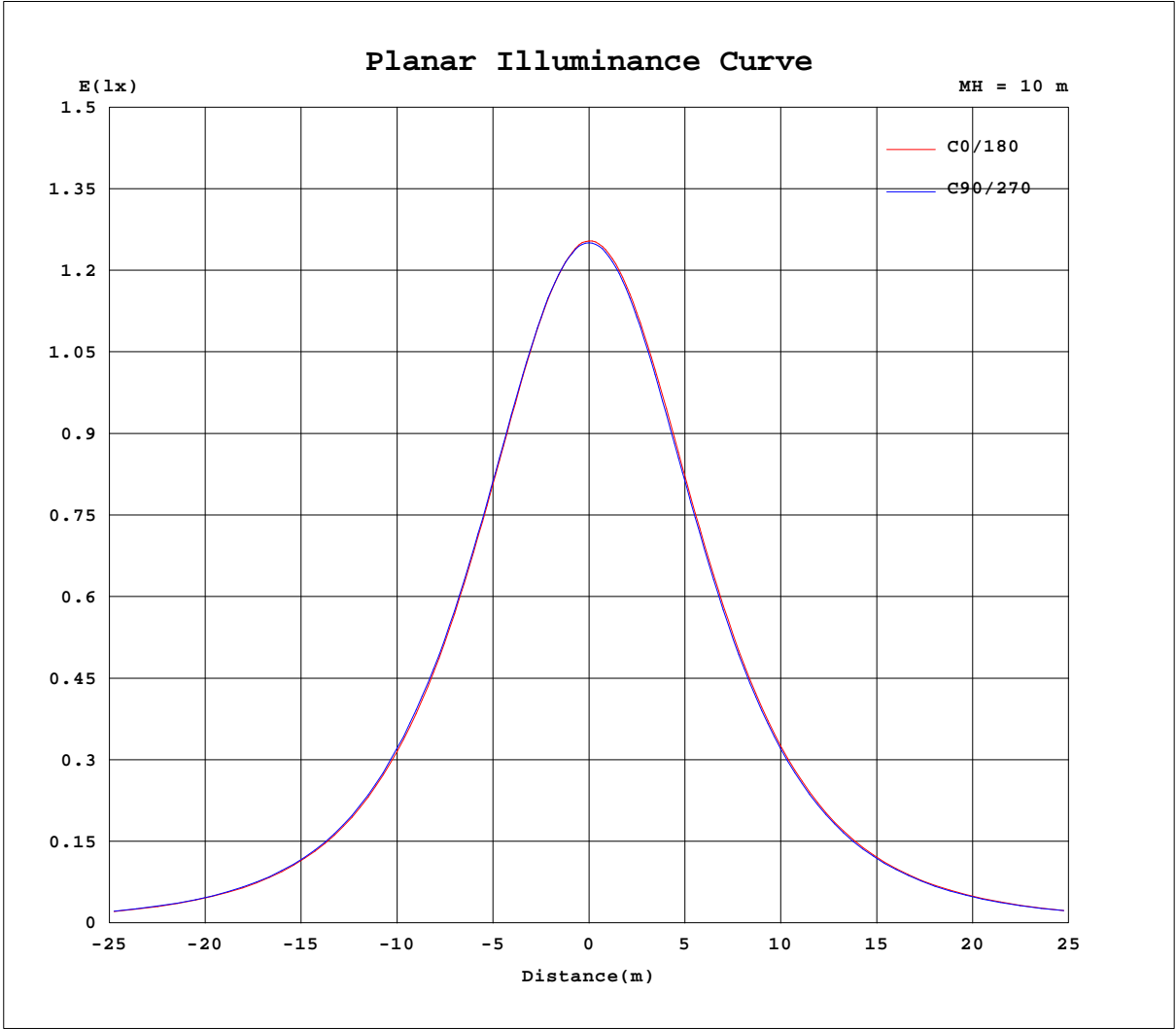
Test:U:24.00V I:0.5582A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:398.155x1 lm		
NAME: DJ602410NO	TYPE:	WEIGHT:
SPEC.:DJ602410NO-0RGBCSA012WC0100	DIM.: 1000*10*1.5mm	SERIAL No.:
MFR.: COLORS	SUR.:1000*10mm	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	11787
L_0~180(75)av	10171
L_0~180(85)av	8177
L_90~270(65)av	11795
L_90~270(75)av	10226
L_90~270(85)av	8493
L_45(65)av	11808
L_45(75)av	10242
L_45(85)av	8519

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	125	125	125	125	125	125	125	125										
5	125	125	125	125	125	125	125	125										
10	123	124	123	123	124	124	124	124										
15	121	122	122	121	123	122	122	122										
20	118	119	119	119	120	119	119	119										
25	114	115	115	115	116	115	115	115										
30	109	111	110	110	112	110	110	110										
35	104	105	105	104	106	105	105	105										
40	96.8	98.5	98.3	98.1	99.7	98.3	98.2	98.2										
45	89.4	91.3	91.1	91.1	92.2	90.6	90.7	90.7										
50	80.2	81.9	81.7	81.5	83.4	81.9	82.0	82.0										
55	70.1	71.7	71.4	71.3	73.8	72.2	72.4	72.4										
60	59.4	60.9	60.6	60.5	63.1	61.7	61.9	62.0										
65	48.0	49.4	49.1	49.0	51.6	50.5	50.6	50.7										
70	36.3	37.5	37.2	37.1	39.7	38.8	38.9	39.1										
75	24.8	25.9	25.6	25.6	27.8	27.1	27.3	27.4										
80	14.5	15.1	14.9	14.9	16.8	16.5	16.6	16.8										
85	6.41	6.72	6.74	6.72	7.84	7.98	8.07	8.28										
90	1.88	1.86	1.90	1.88	2.74	3.13	3.21	3.36										
95	1.06	0.98	1.01	0.99	1.33	1.72	1.71	1.84										
100	1.04	1.06	1.03	1.07	0.98	1.22	1.19	1.28										
105	1.25	1.28	1.22	1.29	1.03	1.08	1.09	1.10										
110	1.50	1.48	1.41	1.48	1.25	1.23	1.27	1.22										
115	1.78	1.73	1.70	1.74	1.46	1.45	1.51	1.44										
120	2.02	1.96	1.91	1.97	1.74	1.70	1.76	1.70										
125	2.28	2.23	2.18	2.24	1.99	1.97	2.03	1.98										
130	2.58	2.48	2.43	2.49	2.24	2.22	2.28	2.20										
135	2.78	2.72	2.66	2.73	2.44	2.43	2.47	2.42										
140	2.97	2.97	2.89	2.98	2.68	2.69	2.69	2.64										
145	3.14	3.15	3.08	3.14	2.88	2.86	2.90	2.85										
150	3.25	3.30	3.25	3.29	3.08	3.07	3.09	3.03										
155	3.40	3.45	3.42	3.45	3.27	3.26	3.27	3.21										
160	3.53	3.57	3.55	3.57	3.45	3.38	3.43	3.36										
165	3.70	3.68	3.63	3.67	3.59	3.54	3.57	3.53										
170	3.76	3.78	3.74	3.77	3.73	3.64	3.68	3.62										
175	3.82	3.84	3.84	3.84	3.85	3.72	3.79	3.72										
180	3.86	3.86	3.84	3.84	3.86	3.83	3.84	3.82										

C Range: 0 - 360DEGC Interval: 45.0DEGTest Speed: HIGHTemperature:25.3DEGOperators:JYHTest Date:2024-06-18

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