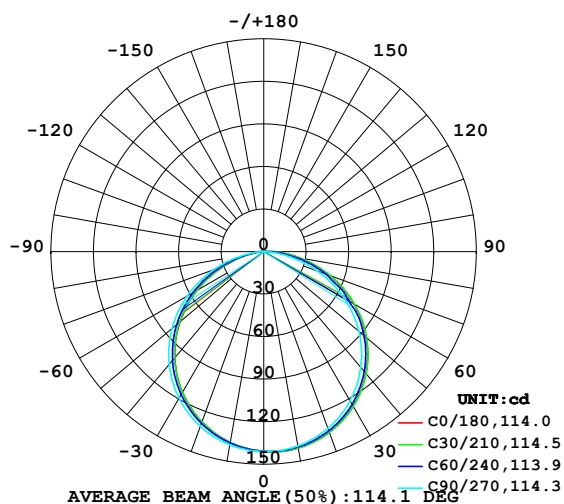


## LUMINAIRE PHOTOMETRIC TEST REPORT

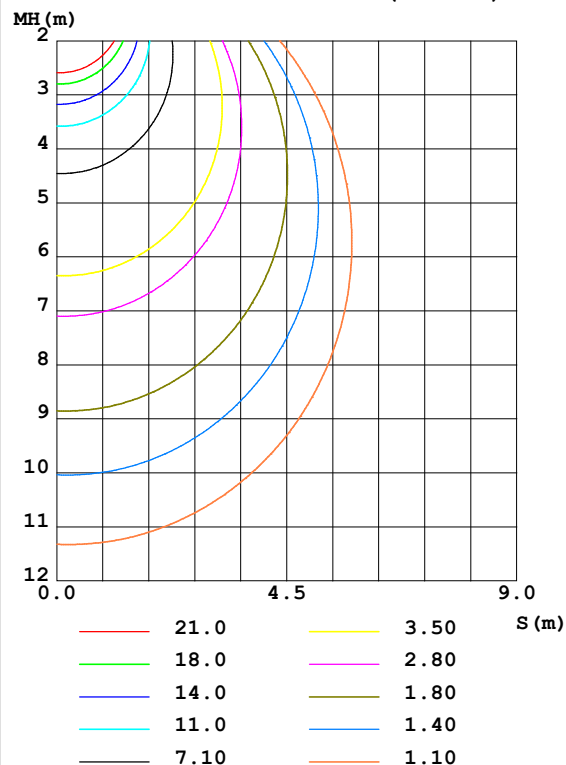
Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 58.62 lm/W			
MODEL	V120-12-2765RL-C	Imax(cd)	142.1	S/MH(C0/180)	1.22
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	412.19	$\eta$ UP,DN(C0-180)	0.2,51.0
NOMINAL FLUX(lm)	412.193	CIE CLASS	DIRECT	$\eta$ UP,DN(C180-360)	0.2,48.6
LAMPS INSIDE	1	$\eta$ up(%)	0.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	12	$\eta$ down(%)	99.6	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24DEG  
Operators:SENPU  
Test Date:2022-02-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

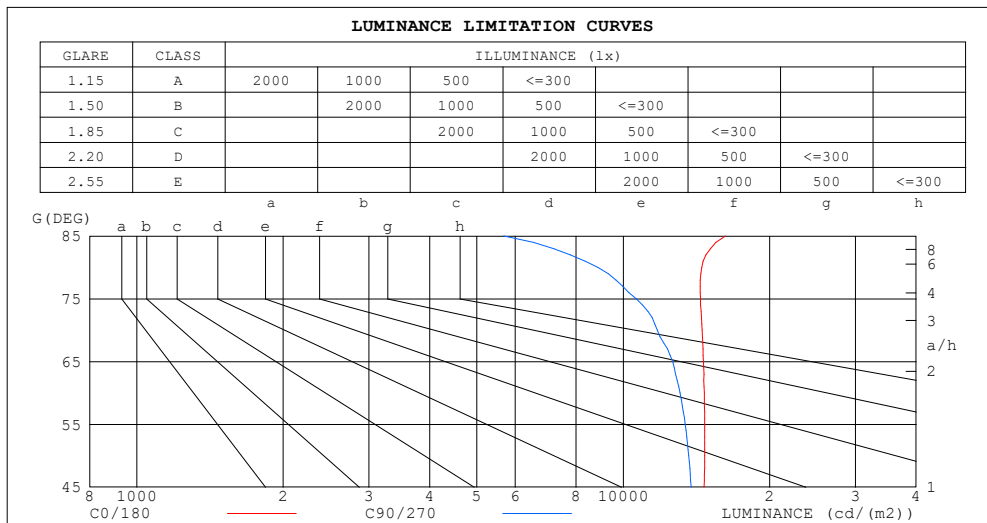
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	140.7	140.4	139.1	137.9	136.7	136.6	138.3	140.2	0- 10	13.36	13.36	3.24,3.24
20	135.5	135.3	132.6	129.8	127.7	127.9	131.0	134.2	10- 20	38.36	51.72	12.5,12.5
30	126.0	125.8	121.7	117.4	114.7	115.2	119.5	123.8	20- 30	58.41	110.1	26.7,26.7
40	112.1	112.0	106.5	100.9	97.53	98.43	103.8	109.2	30- 40	70.90	181.0	43.9,43.9
50	94.50	94.21	87.65	80.60	77.21	78.11	84.49	90.80	40- 50	74.00	255.0	61.9,61.9
60	73.39	73.14	65.47	57.53	53.94	55.30	62.06	69.17	50- 60	67.18	322.2	78.2,78.2
70	49.65	49.28	40.16	32.78	29.58	30.83	37.58	44.88	60- 70	51.05	373.3	90.6,90.6
80	25.19	23.98	15.40	10.92	8.921	9.547	12.95	20.69	70- 80	28.90	402.2	97.6,97.6
90	6.044	5.023	0.1088	0.3900	0.1875	0.2477	0.0652	3.567	80- 90	8.481	410.6	99.6,99.6
100	0.2111	0.1087	0.0942	0.1233	0.1088	0.1232	0.0726	0.1160	90-100	0.8004	411.4	99.8,99.8
110	0.1160	0.1449	0.1160	0.1522	0.1377	0.1232	0.1087	0.1015	100-110	0.1216	411.6	99.8,99.8
120	0.1160	0.1522	0.1160	0.1741	0.1595	0.1232	0.1232	0.1304	110-120	0.1257	411.7	99.9,99.9
130	0.1160	0.1740	0.1160	0.1885	0.1741	0.1232	0.1522	0.1160	120-130	0.1242	411.8	99.9,99.9
140	0.1305	0.1740	0.1376	0.2174	0.1959	0.1232	0.1597	0.1160	130-140	0.1157	411.9	99.9,99.9
150	0.1667	0.1957	0.2030	0.2030	0.2102	0.1305	0.1812	0.1160	140-150	0.1064	412.0	100,100
160	0.2175	0.1812	0.1957	0.2030	0.2321	0.1450	0.1957	0.1594	150-160	0.0856	412.1	100,100
170	0.1667	0.1522	0.1886	0.1957	0.2392	0.1667	0.2031	0.1740	160-170	0.0560	412.2	100,100
180	0.2102	0.2030	0.1522	0.2175	0.2102	0.1957	0.1885	0.1885	170-180	0.0187	412.2	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24DEG  
 Operators:SENPU  
 Test Date:2022-02-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	16223	5682
80	14509	8869
75	14419	10625
70	14517	11743
65	14616	12633
60	14678	13094
55	14710	13407
50	14702	13635
45	14671	13800

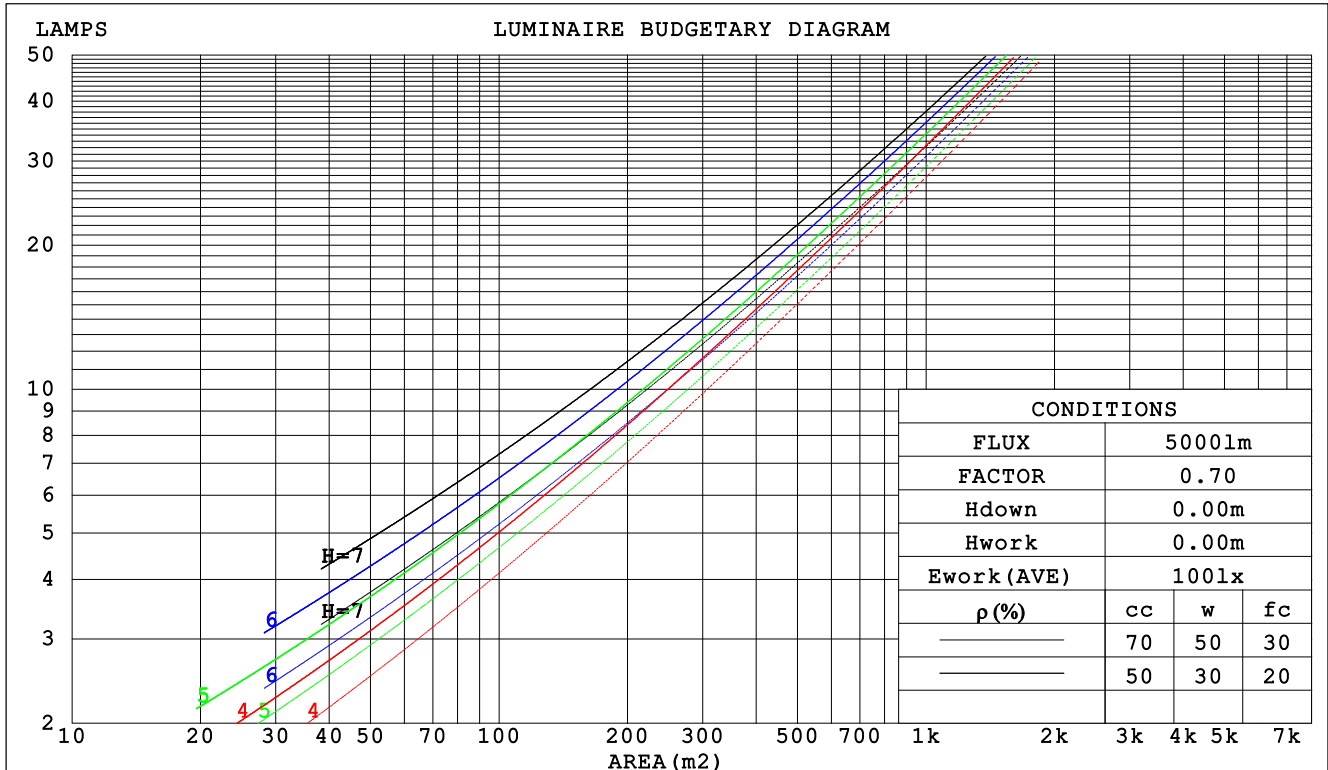
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24DEG  
Operators:SENPU  
Test Date:2022-02-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.89	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.74	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.61	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.50	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.39	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.33	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.25	.24



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24DEG  
 Operators: SENPU  
 Test Date: 2022-02-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=1.0000]  
 Remarks:

## WEC AND CCEC

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.312	.178	.056	.305	.174	.055	.292	.167	.053	.279	.161	.052	.268	.155	.050	
2.0	.293	.161	.049	.287	.158	.049	.275	.153	.048	.264	.148	.046	.254	.144	.045	
3.0	.271	.144	.043	.266	.142	.043	.255	.138	.042	.245	.134	.041	.236	.131	.040	
4.0	.250	.130	.038	.245	.128	.038	.236	.125	.037	.227	.122	.037	.219	.119	.036	
5.0	.231	.118	.034	.227	.116	.034	.219	.114	.033	.211	.111	.033	.204	.109	.033	
6.0	.214	.107	.031	.210	.106	.031	.203	.104	.030	.196	.102	.030	.190	.100	.030	
7.0	.199	.099	.028	.196	.098	.028	.189	.096	.028	.183	.094	.027	.177	.092	.027	
8.0	.186	.091	.026	.183	.090	.025	.177	.089	.025	.172	.087	.025	.166	.085	.025	
9.0	.174	.084	.024	.172	.084	.023	.166	.082	.023	.161	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.152	.076	.021	.148	.074	.021	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.193	.193	.193	.165	.165	.165	.113	.113	.113	.065	.065	.065	.021	.021	.021	
1.0	.183	.159	.137	.157	.136	.118	.107	.094	.082	.062	.054	.047	.020	.017	.015	
2.0	.175	.135	.101	.150	.116	.087	.103	.080	.061	.059	.047	.036	.019	.015	.012	
3.0	.168	.117	.077	.144	.101	.067	.099	.070	.047	.057	.041	.028	.018	.013	.009	
4.0	.160	.104	.061	.137	.090	.053	.094	.063	.037	.055	.037	.022	.018	.012	.007	
5.0	.153	.094	.050	.131	.081	.043	.090	.057	.031	.052	.033	.018	.017	.011	.006	
6.0	.145	.085	.042	.125	.074	.037	.086	.052	.026	.050	.030	.015	.016	.010	.005	
7.0	.139	.078	.036	.119	.068	.031	.082	.048	.022	.048	.028	.013	.015	.009	.004	
8.0	.132	.073	.032	.114	.063	.028	.079	.044	.020	.046	.026	.012	.015	.009	.004	
9.0	.126	.068	.028	.109	.059	.025	.075	.041	.017	.044	.024	.010	.014	.008	.003	
10.0	.120	.063	.025	.104	.055	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003	

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24DEG  
 Operators:SENPU  
 Test Date:2022-02-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm										
NAME: YJ-VTC-HRB-2835X-12V-G01-2756					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:2022030102		
MFR.:					SUR.:			Shielding Angle:		
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	22.7	24.2	23.0	24.4	24.6	22.3	23.8	22.5	24.0	24.2
3H	24.5	25.9	24.8	26.1	26.4	23.8	25.2	24.1	25.4	25.7
4H	25.3	26.6	25.6	26.9	27.1	24.4	25.7	24.7	26.0	26.2
6H	25.9	27.2	26.3	27.5	27.7	24.7	26.0	25.1	26.3	26.6
8H	26.2	27.4	26.5	27.7	28.0	24.8	26.0	25.2	26.3	26.6
12H	26.4	27.6	26.8	27.9	28.2	24.9	26.0	25.2	26.3	26.6
4H 2H	23.4	24.7	23.7	25.0	25.2	23.0	24.4	23.4	24.6	24.9
3H	25.3	26.5	25.7	26.8	27.1	24.8	25.9	25.1	26.2	26.6
4H	26.3	27.4	26.7	27.7	28.0	25.5	26.6	25.9	26.9	27.2
6H	27.1	28.0	27.5	28.4	28.8	26.0	26.9	26.4	27.3	27.7
8H	27.4	28.3	27.9	28.7	29.1	26.1	27.0	26.6	27.4	27.8
12H	27.7	28.5	28.2	28.9	29.4	26.2	27.0	26.7	27.4	27.8
8H 4H	26.6	27.5	27.0	27.9	28.3	25.9	26.8	26.3	27.2	27.6
6H	27.6	28.3	28.1	28.8	29.2	26.6	27.4	27.1	27.8	28.2
8H	28.1	28.7	28.5	29.2	29.6	26.9	27.5	27.3	28.0	28.4
12H	28.5	29.1	29.0	29.5	30.0	27.0	27.6	27.5	28.0	28.5
12H 4H	26.6	27.4	27.0	27.8	28.2	26.0	26.8	26.4	27.2	27.6
6H	27.7	28.3	28.2	28.8	29.2	26.7	27.4	27.2	27.8	28.3
8H	28.2	28.8	28.7	29.2	29.7	27.1	27.6	27.5	28.1	28.6
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 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117, 412.2 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = -3.1$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24DEG  
 Operators:SENPU  
 Test Date:2022-02-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

## UTILIZATION FACTORS TABLE

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:

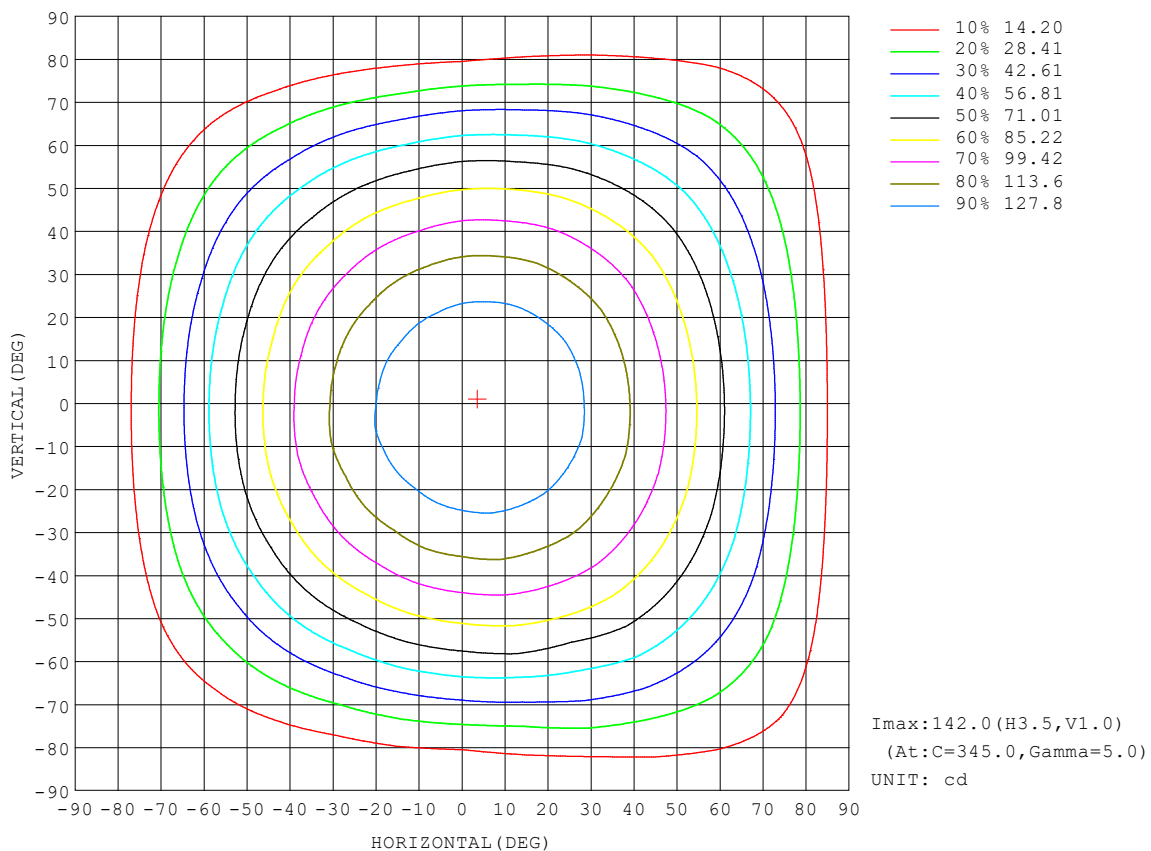
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	64	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	95	86	79	93	85	79	89	82	77	69
2.50	99	91	85	96	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	90	86	78
4.00	106	100	95	104	98	94	99	95	91	82
5.00	108	104	99	106	102	98	101	98	95	85
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24DEG  
 Operators: SENPU  
 Test Date: 2022-02-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=1.0000]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:



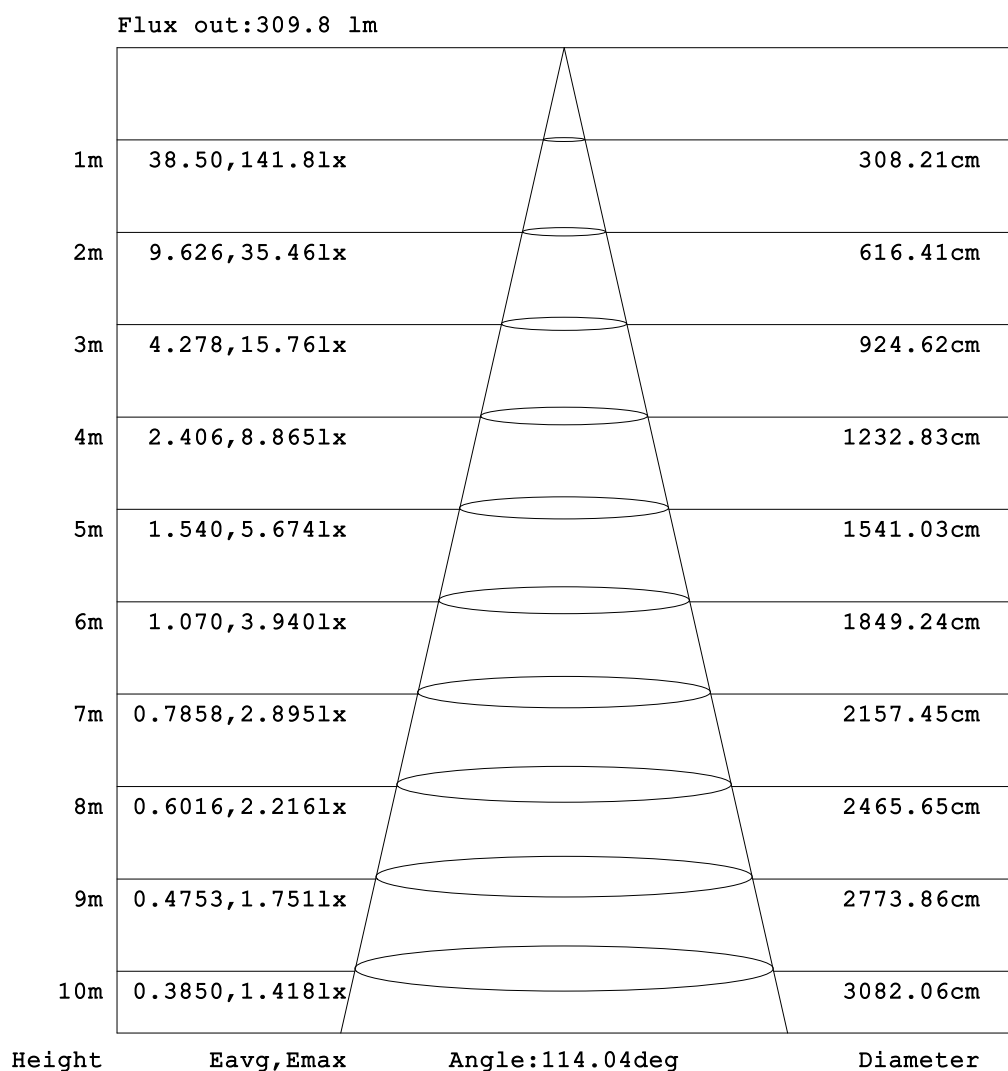
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24DEG  
Operators:SENPU  
Test Date:2022-02-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:



## AAI Figure

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:



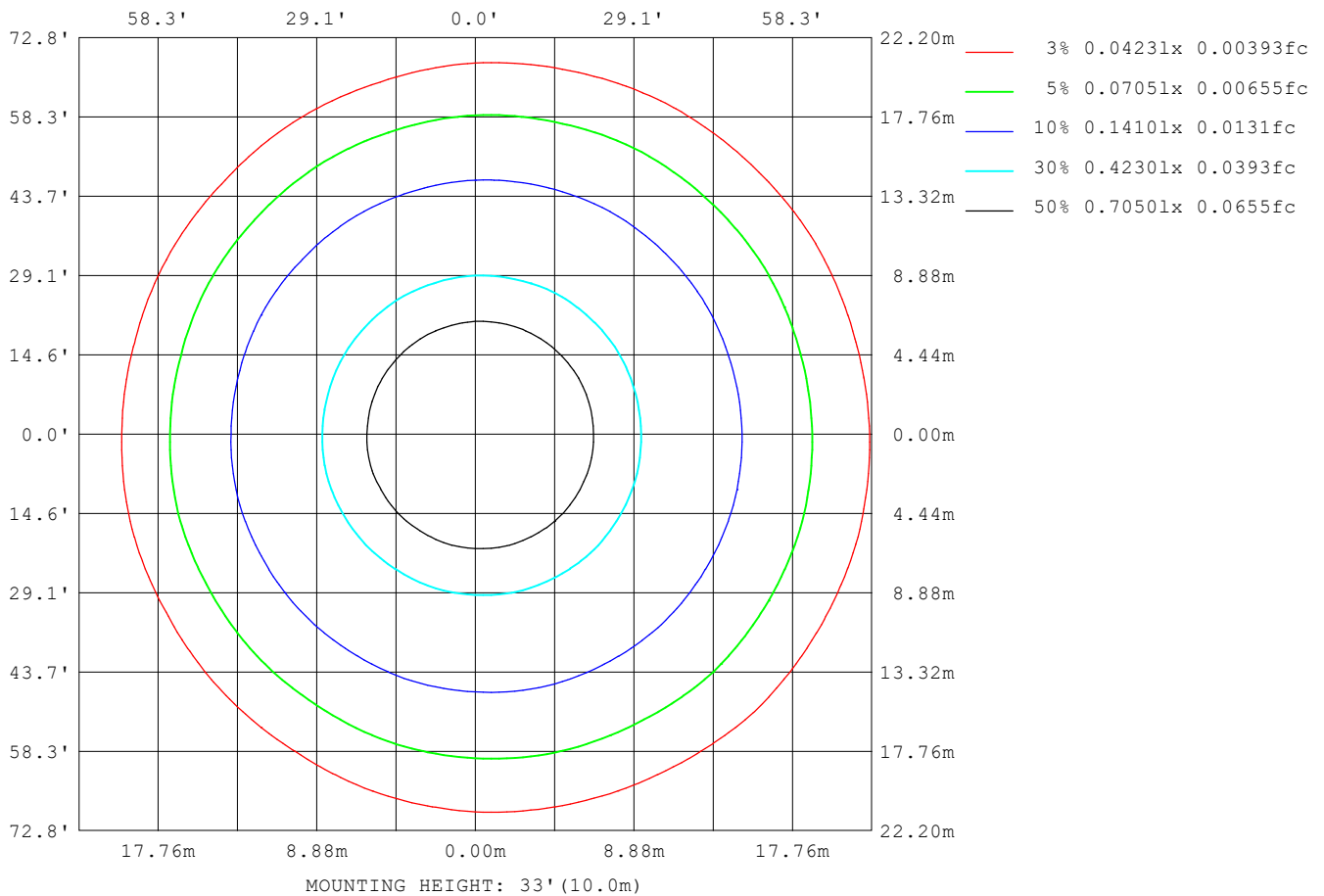
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24DEG  
 Operators:SENPU  
 Test Date:2022-02-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 24DEG  
 Operators: SENPU  
 Test Date: 2022-02-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000 SYSTEM V2.0.402  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:

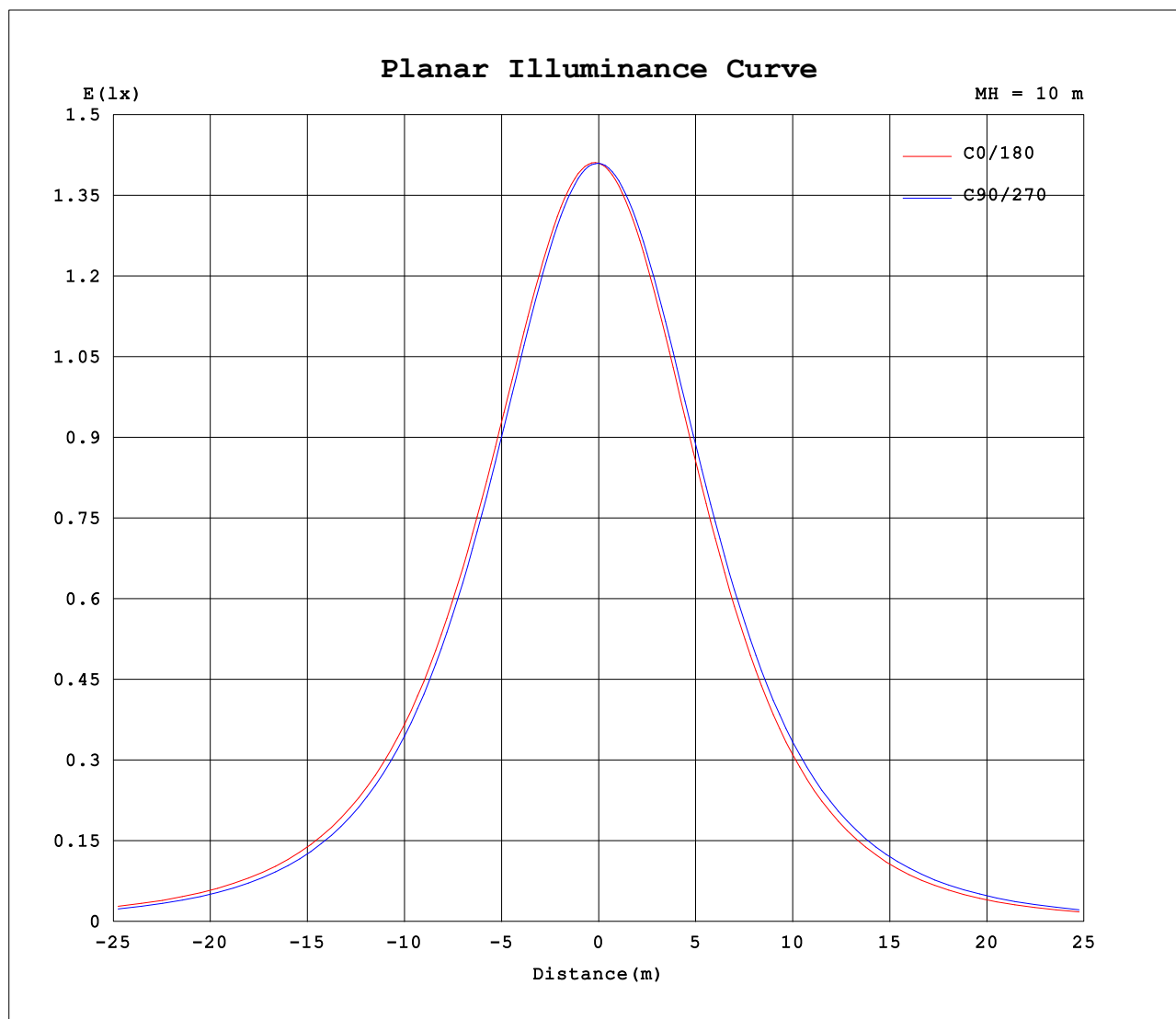
AvgL	cd/m2
L_0~180 (65) av	12247
L_0~180 (75) av	10712
L_0~180 (85) av	9673
L_90~270 (65) av	12231
L_90~270 (75) av	10212
L_90~270 (85) av	4665
L_45 (65) av	12233
L_45 (75) av	10548
L_45 (85) av	8679

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24DEG  
Operators:SENPU  
Test Date:2022-02-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 24DEG  
Operators: SENPU  
Test Date: 2022-02-28

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000 SYSTEM V2.0.402  
Humidity: 65.0%  
Test Distance: 8.000m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	141	141	141	141	141	141	141	141	141	141	142	142	141	141	141	141	141	141	141
5	141	142	141	141	141	141	141	141	140	140	140	140	139	139	139	139	139	140	140
10	141	141	141	140	140	140	139	139	138	138	138	138	137	137	137	137	137	138	138
15	139	139	139	138	138	137	136	136	135	134	134	134	133	133	133	133	134	134	135
20	135	136	136	135	134	134	133	132	130	130	129	129	128	128	128	128	129	130	131
25	131	132	131	131	130	129	128	126	125	124	123	123	122	121	122	122	123	124	126
30	126	127	126	126	125	124	122	120	118	117	116	116	115	114	115	115	116	118	119
35	120	120	120	119	118	117	115	113	111	110	108	108	107	106	107	107	109	110	112
40	112	113	112	112	110	109	107	105	102	101	99.3	99.0	97.5	97.2	97.9	98.4	100	101	104
45	104	105	104	104	102	100	97.6	95.5	92.6	91.1	89.5	89.1	87.8	87.3	88.2	88.6	90.5	91.9	94.6
50	94.5	95.3	94.8	94.2	92.4	90.7	87.6	85.3	82.3	80.6	78.9	78.5	77.2	76.7	77.7	78.1	80.2	81.7	84.5
55	84.4	85.3	84.7	84.1	82.1	80.2	76.9	74.4	71.1	69.4	67.5	67.1	65.8	65.5	66.4	67.0	69.1	70.9	73.6
60	73.4	74.3	73.7	73.1	69.4	68.9	65.5	62.8	59.3	57.5	55.6	55.2	53.9	53.6	54.6	55.3	57.4	59.1	62.1
65	61.8	62.8	62.1	61.5	58.0	55.5	53.4	50.5	47.0	45.2	43.3	42.9	41.8	41.3	42.4	43.0	45.3	46.9	50.0
70	49.7	50.6	50.0	49.3	46.9	42.9	40.2	37.8	34.6	32.8	31.0	30.7	29.6	29.3	30.3	30.8	32.9	34.6	37.6
75	37.3	38.2	37.6	36.3	34.3	29.6	27.5	25.7	22.6	21.0	19.5	19.2	18.1	17.9	18.8	19.4	21.1	22.6	25.4
80	25.2	26.2	25.5	24.0	21.3	18.6	15.4	14.4	11.9	10.9	9.95	10.1	8.92	8.78	9.36	9.55	10.7	11.8	13.0
85	14.1	15.0	14.6	13.2	10.2	7.93	4.95	4.81	3.91	3.77	3.49	3.53	2.72	2.64	2.92	2.94	3.22	3.42	3.18
90	6.04	6.52	6.18	5.02	2.70	0.78	0.11	0.43	0.42	0.39	0.39	0.35	0.19	0.23	0.20	0.25	0.22	0.15	0.07
95	2.09	2.37	2.10	1.29	0.20	0.12	0.09	0.11	0.12	0.12	0.15	0.12	0.10	0.11	0.11	0.12	0.10	0.12	0.07
100	0.21	0.17	0.15	0.11	0.10	0.12	0.09	0.12	0.11	0.12	0.11	0.12	0.11	0.11	0.11	0.12	0.10	0.10	0.07
105	0.12	0.13	0.10	0.12	0.10	0.13	0.10	0.14	0.11	0.13	0.11	0.14	0.11	0.12	0.11	0.12	0.12	0.10	0.09
110	0.12	0.12	0.10	0.14	0.10	0.14	0.12	0.14	0.11	0.15	0.11	0.14	0.14	0.10	0.12	0.12	0.12	0.10	0.11
115	0.12	0.14	0.11	0.15	0.10	0.14	0.12	0.16	0.11	0.17	0.11	0.15	0.15	0.10	0.15	0.12	0.13	0.11	0.12
120	0.12	0.15	0.11	0.15	0.10	0.17	0.12	0.17	0.11	0.17	0.11	0.18	0.16	0.10	0.15	0.12	0.14	0.12	0.12
125	0.12	0.17	0.11	0.16	0.10	0.18	0.12	0.17	0.12	0.19	0.12	0.19	0.17	0.10	0.16	0.12	0.15	0.12	0.12
130	0.12	0.17	0.11	0.17	0.11	0.19	0.12	0.19	0.12	0.19	0.13	0.20	0.17	0.10	0.17	0.12	0.15	0.12	0.15
135	0.12	0.19	0.12	0.17	0.12	0.19	0.12	0.19	0.13	0.20	0.14	0.20	0.19	0.11	0.18	0.12	0.17	0.12	0.16
140	0.13	0.19	0.13	0.17	0.15	0.20	0.14	0.20	0.14	0.22	0.15	0.21	0.20	0.12	0.18	0.12	0.17	0.12	0.16
145	0.14	0.19	0.14	0.20	0.16	0.20	0.20	0.20	0.21	0.21	0.17	0.21	0.20	0.14	0.20	0.12	0.18	0.12	0.19
150	0.17	0.19	0.14	0.20	0.16	0.20	0.20	0.21	0.23	0.20	0.19	0.21	0.21	0.17	0.20	0.13	0.19	0.13	0.18
155	0.21	0.19	0.15	0.20	0.17	0.20	0.20	0.19	0.21	0.20	0.20	0.21	0.22	0.17	0.20	0.13	0.19	0.17	0.19
160	0.22	0.19	0.20	0.18	0.17	0.20	0.20	0.19	0.21	0.20	0.22	0.21	0.23	0.19	0.22	0.14	0.20	0.20	0.20
165	0.21	0.20	0.20	0.16	0.21	0.20	0.20	0.19	0.22	0.20	0.22	0.20	0.24	0.20	0.21	0.17	0.20	0.21	0.21
170	0.17	0.20	0.18	0.15	0.20	0.20	0.19	0.18	0.20	0.20	0.20	0.16	0.24	0.20	0.21	0.17	0.21	0.20	0.20
175	0.17	0.20	0.18	0.19	0.19	0.20	0.17	0.18	0.20	0.18	0.20	0.16	0.24	0.22	0.21	0.20	0.21	0.20	0.21
180	0.21	0.21	0.18	0.20	0.20	0.20	0.15	0.20	0.21	0.22	0.19	0.19	0.21	0.20	0.20	0.20	0.17	0.21	0.19

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:24DEG  
Operators:SENPU  
Test Date:2022-02-28

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:8.000m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:12.000V I:0.5860A P:7.0320W PF:1.0000 Freq:0Hz Lamp Flux:412.193x1 lm		
NAME: YJ-VTC-HRB-2835X-12V-G01-2756	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:2022030102
MFR.:	SUR.:	Shielding Angle:

Table--2

UNIT: cd

γ (DEG)	C (DEG)																		
	285	300	315	330	345														
0	141	141	141	142	142														
5	141	141	141	142	142														
10	139	140	140	141	141														
15	136	137	138	139	139														
20	132	133	134	135	136														
25	127	129	130	131	131														
30	121	123	124	125	126														
35	114	116	117	118	119														
40	105	108	109	111	111														
45	96.4	98.9	100	102	103														
50	86.6	89.2	90.8	92.8	93.4														
55	75.7	78.6	80.4	82.4	83.2														
60	64.1	67.3	69.2	71.3	72.2														
65	52.3	55.3	57.2	59.5	60.2														
70	39.8	43.0	44.9	47.3	48.3														
75	27.6	30.5	32.5	34.9	35.7														
80	16.0	18.8	20.7	22.8	23.7														
85	6.29	8.69	10.4	12.2	13.1														
90	0.76	2.23	3.57	4.96	5.72														
95	0.12	0.17	0.61	1.61	2.06														
100	0.11	0.10	0.12	0.11	0.23														
105	0.11	0.11	0.10	0.12	0.11														
110	0.12	0.12	0.10	0.11	0.11														
115	0.12	0.13	0.12	0.12	0.11														
120	0.12	0.14	0.13	0.12	0.11														
125	0.12	0.14	0.12	0.14	0.11														
130	0.12	0.15	0.12	0.14	0.11														
135	0.12	0.15	0.12	0.17	0.11														
140	0.12	0.16	0.12	0.17	0.12														
145	0.12	0.17	0.12	0.18	0.12														
150	0.12	0.18	0.12	0.18	0.13														
155	0.13	0.19	0.13	0.18	0.16														
160	0.14	0.19	0.16	0.20	0.21														
165	0.19	0.20	0.16	0.22	0.21														
170	0.20	0.22	0.17	0.20	0.22														
175	0.20	0.20	0.19	0.20	0.22														
180	0.20	0.20	0.19	0.20	0.20														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:24DEG  
 Operators:SENPU  
 Test Date:2022-02-28

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000 SYSTEM V2.0.402  
 Humidity:65.0%  
 Test Distance:8.000m [K=1.0000]  
 Remarks: