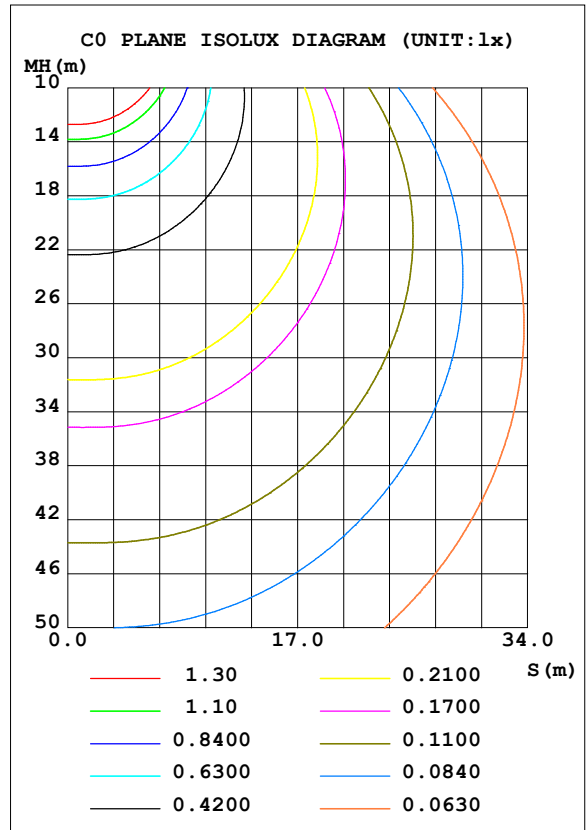
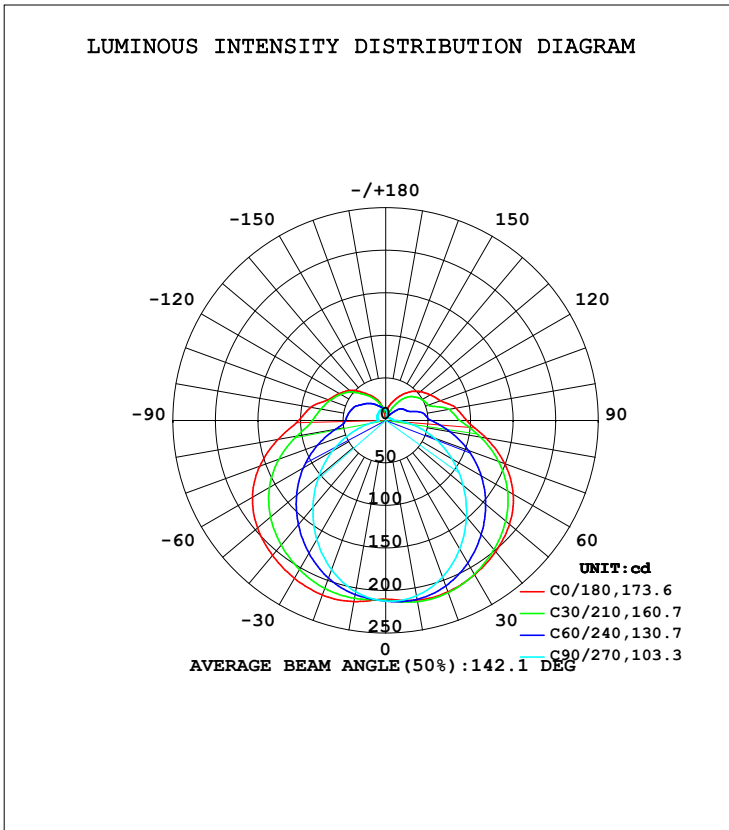


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.0980A P:11.50W PF:0.9740 Freq:60.00Hz Lamp Flux:1077.73x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.72 lm/W			
MODEL		I <sub>max</sub> (cd)	218.4	S/MH (C0/180)	1.53
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.15
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1077.7	η UP, DN (C0-180)	9.9, 39.9
NOMINAL FLUX (lm)	1077.73	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	12.3, 38.0
LAMPS INSIDE	1	η up (%)	22.1	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	77.9	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-04-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.750m [K=1.0000]  
 Remarks:

**ZONAL FLUX DIAGRAM**

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	214.5	214.9	209.2	210.9	216.1	209.9	204.4	209.9	0- 10	20.20	20.20	1.87,1.87
20	214.4	211.2	195.8	205.0	218.2	203.6	186.6	202.0	10- 20	59.06	79.26	7.35,7.35
30	209.2	201.0	174.3	192.4	214.4	191.5	161.9	188.3	20- 30	91.90	171.2	15.9,15.9
40	201.2	186.4	147.7	175.2	207.1	175.5	133.2	170.7	30- 40	115.4	286.6	26.6,26.6
50	190.0	168.8	119.0	155.0	196.7	156.8	103.0	150.5	40- 50	128.3	414.8	38.5,38.5
60	173.1	147.6	89.90	132.5	180.9	134.9	72.58	127.3	50- 60	129.8	544.6	50.5,50.5
70	149.0	122.4	61.26	107.2	157.6	109.4	42.77	101.1	60- 70	119.7	664.3	61.6,61.6
80	119.9	94.82	34.16	80.40	128.4	83.01	17.04	74.88	70- 80	99.29	763.6	70.9,70.9
90	95.29	70.39	12.38	56.79	102.3	66.94	8.850	59.97	80- 90	75.52	839.1	77.9,77.9
100	83.98	60.88	7.850	48.16	89.59	61.18	10.15	54.44	90-100	61.85	901.0	83.6,83.6
110	68.25	42.40	6.049	33.11	71.68	55.63	10.96	49.88	100-110	50.99	952.0	88.3,88.3
120	60.60	37.61	5.352	29.40	63.31	48.83	11.71	45.86	110-120	40.63	992.6	92.1,92.1
130	53.05	32.22	4.771	25.85	55.26	41.58	12.23	40.57	120-130	32.66	1025	95.1,95.1
140	43.98	23.13	4.141	21.37	43.50	33.22	12.91	34.25	130-140	23.80	1049	97.3,97.3
150	33.00	12.54	3.895	17.57	33.47	25.84	13.81	27.61	140-150	15.25	1064	98.8,98.8
160	23.09	5.544	4.223	13.55	23.98	19.34	14.45	21.83	150-160	8.462	1073	99.5,99.5
170	13.46	5.848	8.957	11.48	7.156	14.35	14.54	17.06	160-170	3.902	1077	99.9,99.9
180	4.478	10.48	13.56	13.30	4.478	10.47	13.52	13.31	170-180	1.059	1078	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 349.77 lm

%lum = 32.5%  
%lamp = 32.5%

Conical surface Flux(120deg): 544.64 lm

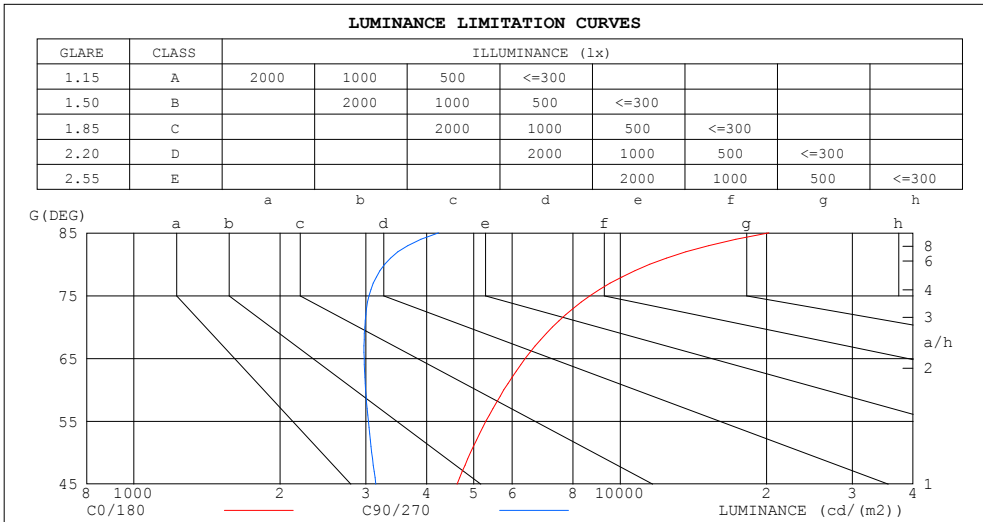
%lum = 50.5%  
%lamp = 50.5%

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-04-15

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
Humidity:65.0%  
Test Distance:7.750m [K=1.0000]  
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.0980A P:11.50W PF:0.9740 Freq:60.00Hz Lamp Flux:1077.73x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	20202	4233
80	11506	3279
75	8674	3047
70	7259	2985
65	6384	2976
60	5769	2997
55	5299	3037
50	4926	3086
45	4623	3147

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

WEC AND CCEC

Test:U:120.5V I:0.0980A P:11.50W PF:0.9740 Freq:60.00Hz Lamp Flux:1077.73x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	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	.380	.216	.068	.366	.209	.066	.340	.195	.062	.316	.182	.058	.294	.170	.055	
2.0	.330	.181	.056	.318	.175	.054	.294	.163	.051	.272	.153	.048	.252	.142	.045	
3.0	.294	.156	.047	.282	.151	.046	.261	.141	.043	.241	.132	.041	.223	.123	.038	
4.0	.265	.138	.040	.254	.133	.039	.235	.125	.037	.217	.116	.035	.200	.109	.033	
5.0	.241	.123	.036	.231	.119	.035	.214	.111	.033	.197	.104	.031	.182	.097	.029	
6.0	.221	.111	.032	.212	.107	.031	.196	.100	.029	.181	.094	.028	.166	.088	.026	
7.0	.204	.101	.029	.196	.097	.028	.181	.091	.026	.167	.086	.025	.154	.080	.023	
8.0	.189	.092	.026	.182	.089	.025	.168	.084	.024	.155	.079	.023	.143	.073	.021	
9.0	.176	.085	.024	.169	.083	.023	.157	.077	.022	.145	.073	.021	.133	.068	.020	
10.0	.165	.079	.022	.159	.077	.021	.147	.072	.020	.136	.067	.019	.125	.063	.018	

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	.359	.359	.359	.307	.307	.307	.210	.210	.210	.120	.120	.120	.038	.038	.038	
1.0	.355	.326	.299	.304	.279	.257	.208	.192	.178	.120	.111	.103	.038	.036	.033	
2.0	.349	.303	.265	.299	.261	.229	.205	.180	.160	.118	.105	.094	.038	.034	.030	
3.0	.341	.287	.243	.293	.247	.211	.201	.172	.148	.116	.100	.087	.037	.033	.029	
4.0	.334	.274	.229	.286	.237	.199	.197	.165	.140	.114	.097	.083	.037	.031	.027	
5.0	.326	.265	.219	.280	.229	.191	.193	.160	.135	.112	.094	.080	.036	.031	.026	
6.0	.319	.257	.212	.274	.222	.185	.189	.156	.131	.110	.092	.078	.035	.030	.026	
7.0	.312	.250	.207	.268	.217	.180	.185	.152	.128	.108	.090	.076	.035	.029	.025	
8.0	.305	.245	.203	.263	.212	.177	.182	.149	.126	.106	.088	.075	.034	.029	.025	
9.0	.299	.240	.200	.257	.208	.175	.178	.146	.124	.104	.086	.074	.034	.028	.024	
10.0	.293	.236	.198	.253	.205	.172	.175	.144	.123	.102	.085	.073	.033	.028	.024	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.5V I:0.0980A P:11.50W PF:0.9740 Freq:60.00Hz Lamp Flux:1077.73x1 lm										
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 2700K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: 革星					SUR.:14寸			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	17.8	19.1	18.4	19.7	20.3	15.4	16.7	16.0	17.3	17.9
3H	20.4	21.6	21.0	22.2	22.9	17.1	18.3	17.7	18.9	19.6
4H	21.8	23.0	22.4	23.6	24.3	17.9	19.0	18.5	19.6	20.3
6H	23.3	24.4	23.9	25.0	25.7	18.5	19.6	19.2	20.3	21.0
8H	24.1	25.2	24.7	25.8	26.5	18.8	19.9	19.5	20.5	21.3
12H	25.0	26.0	25.7	26.7	27.4	19.1	20.1	19.8	20.8	21.5
4H 2H	18.4	19.6	19.0	20.2	20.9	16.7	17.9	17.3	18.5	19.2
3H	21.3	22.3	21.9	22.9	23.7	18.7	19.7	19.3	20.4	21.1
4H	22.9	23.8	23.5	24.5	25.2	19.7	20.6	20.3	21.3	22.0
6H	24.5	25.4	25.2	26.1	26.9	20.5	21.4	21.2	22.1	22.9
8H	25.5	26.2	26.2	27.0	27.8	20.9	21.7	21.6	22.4	23.2
12H	26.5	27.2	27.2	28.0	28.8	21.3	22.0	22.0	22.7	23.6
8H 4H	23.2	24.0	23.9	24.7	25.6	20.7	21.5	21.4	22.2	23.0
6H	25.2	25.9	26.0	26.6	27.5	22.0	22.6	22.7	23.4	24.2
8H	26.4	27.0	27.1	27.7	28.6	22.6	23.2	23.3	23.9	24.8
12H	27.7	28.2	28.4	28.9	29.9	23.1	23.7	23.9	24.4	25.3
12H 4H	23.3	24.0	24.0	24.7	25.6	21.0	21.8	21.8	22.5	23.3
6H	25.4	26.0	26.1	26.7	27.6	22.5	23.1	23.2	23.8	24.7
8H	26.6	27.1	27.4	27.9	28.8	23.3	23.8	24.0	24.5	25.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.4					+ 0.3 / - 0.5				

CIE Pub.117, 1078 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.3)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

**UTILIZATION FACTORS TABLE**

Test:U:120.5V I:0.0980A P:11.50W PF:0.9740 Freq:60.00Hz Lamp Flux:1077.73x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

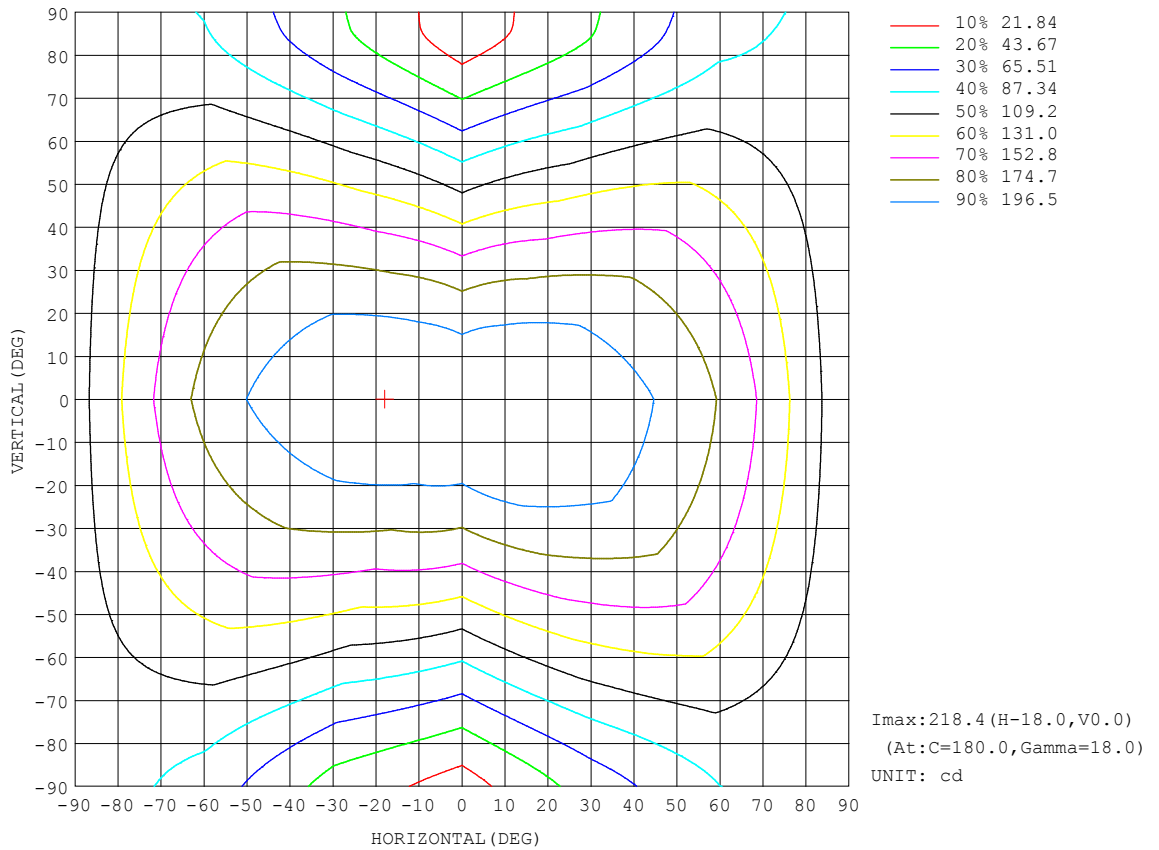
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	34	27	45	34	27	43	32	26	19
0.80	56	43	35	54	42	34	51	40	33	25
1.00	63	50	42	61	49	41	57	49	40	31
1.25	70	58	49	68	56	48	63	53	46	36
1.50	75	63	54	72	61	53	67	58	51	40
2.00	83	72	63	79	69	62	73	65	58	46
2.50	87	77	69	84	74	67	77	69	63	50
3.00	91	82	74	87	79	72	80	73	67	53
4.00	96	88	81	92	84	78	84	78	73	58
5.00	99	92	86	94	88	83	86	81	77	61
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.5V I:0.0980A P:11.50W PF:0.9740 Freq:60.00Hz Lamp Flux:1077.73x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

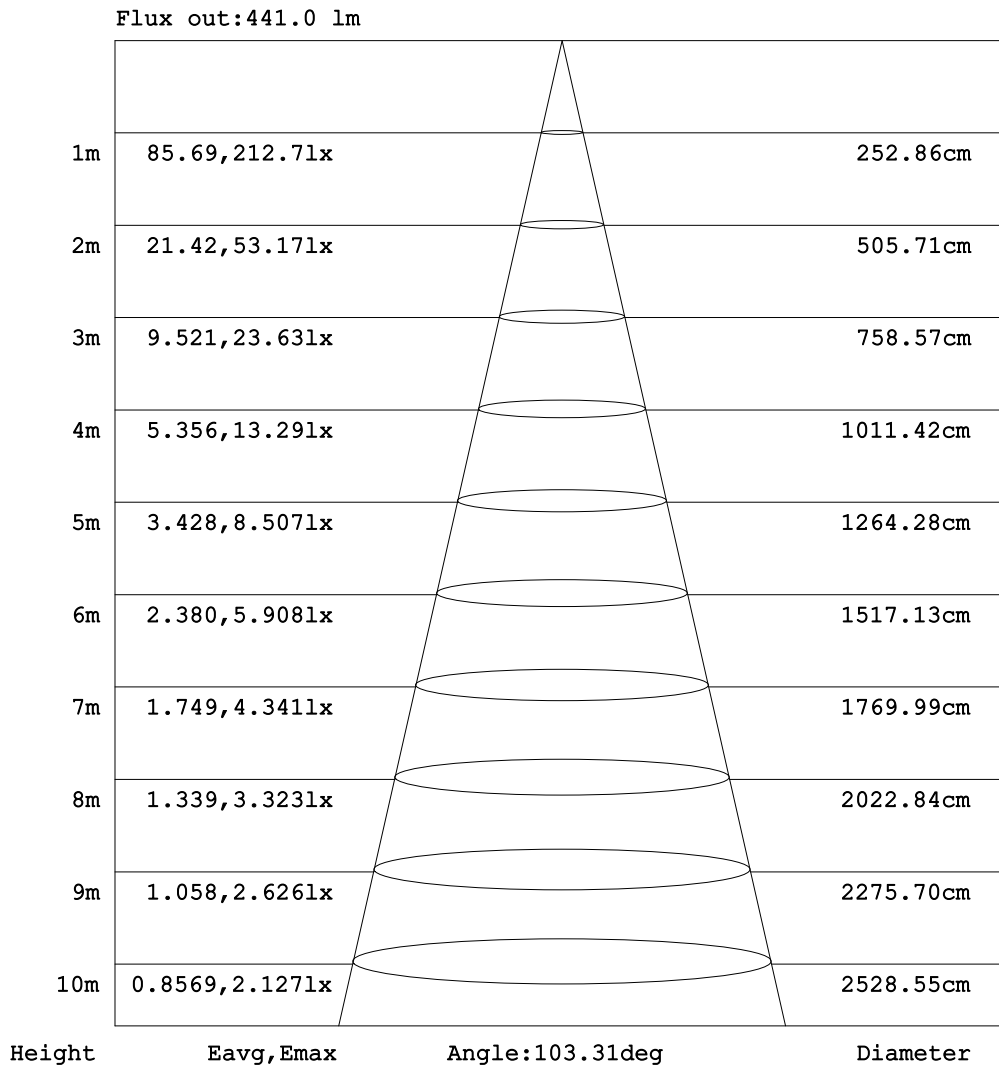


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks:

AAI Figure

Test:U:120.5V I:0.0980A P:11.50W PF:0.9740 Freq:60.00Hz Lamp Flux:1077.73x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:



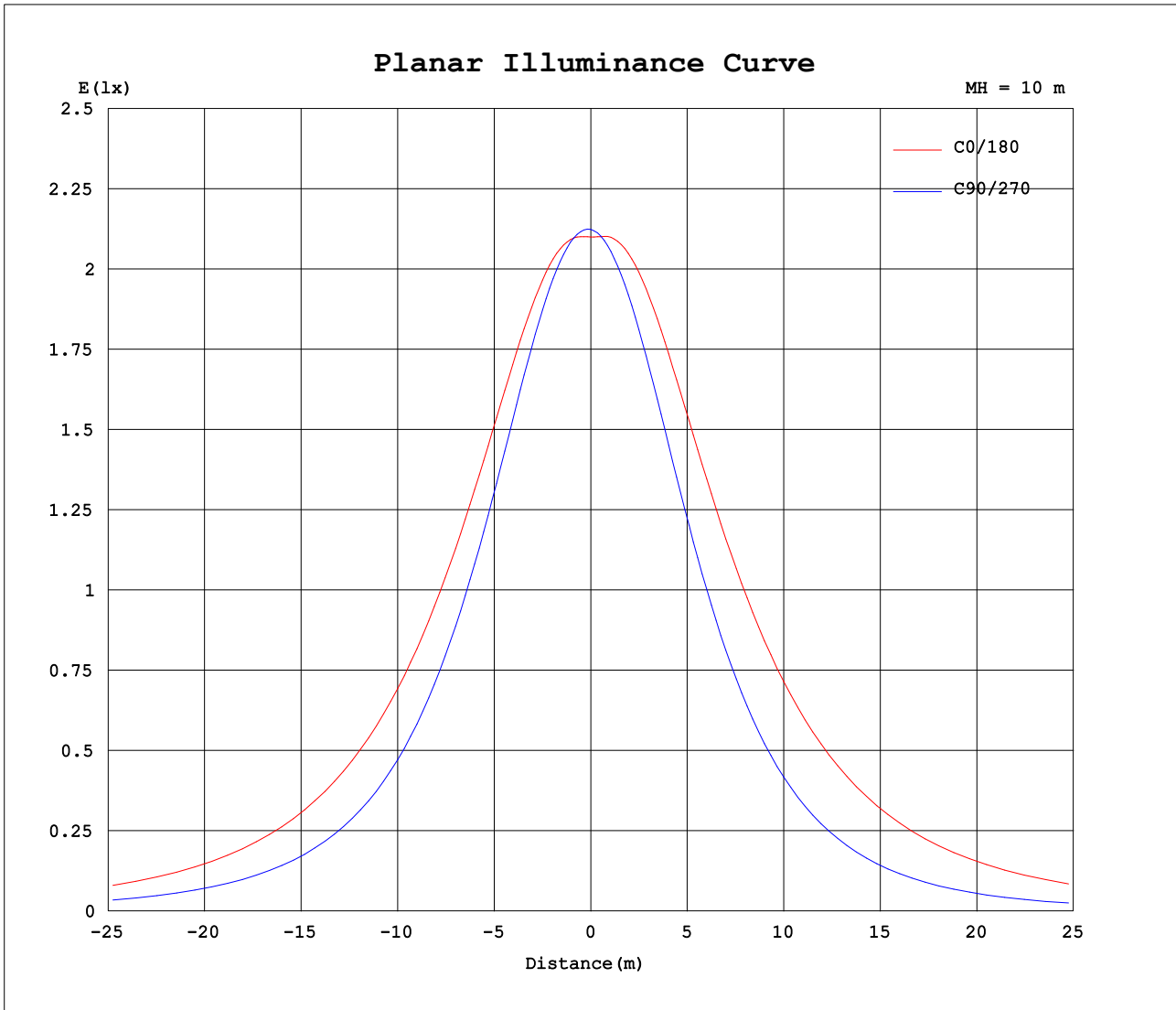
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-04-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.750m [K=1.0000]  
 Remarks:



Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-04-15

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity: 65.0%  
 Test Distance: 7.750m [K=1.0000]  
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.5V I:0.0980A P:11.50W PF:0.9740 Freq:60.00Hz Lamp Flux:1077.73x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	210	211	212	212	212	210	210	211	212	212	212	210							
5	212	214	214	212	211	211	213	211	210	210	211	212							
10	214	216	214	209	209	212	216	212	208	204	208	212							
15	215	217	211	204	206	212	218	212	203	197	203	211							
20	214	215	207	196	200	210	218	210	197	187	196	208							
25	212	213	201	186	192	207	217	207	189	175	188	204							
30	209	209	193	174	183	202	214	203	180	162	178	199							
35	206	204	185	161	173	196	211	197	170	148	167	193							
40	201	198	175	148	161	189	207	191	160	133	156	186							
45	196	192	164	134	149	182	202	184	149	118	144	178							
50	190	184	153	119	137	173	197	177	137	103	131	170							
55	182	175	142	105	124	164	190	168	125	87.8	119	160							
60	173	165	130	89.9	111	154	181	158	112	72.6	105	149							
65	162	154	117	75.5	98.1	142	170	146	98.7	57.5	91.6	137							
70	149	141	104	61.3	84.6	130	158	134	85.3	42.8	77.8	124							
75	135	127	90.1	47.3	71.1	117	143	120	72.1	29.0	64.5	111							
80	120	113	76.7	34.2	57.9	103	128	106	59.9	17.0	52.4	97.4							
85	106	99.1	64.1	22.1	45.7	89.7	114	93.5	50.4	9.34	43.3	85.4							
90	95.3	87.2	53.6	12.4	35.6	78.0	102	86.3	47.6	8.85	40.8	79.1							
95	89.4	81.2	48.8	8.68	31.2	72.2	95.7	81.7	46.1	9.48	39.6	74.8							
100	84.0	75.9	45.9	7.85	29.4	66.9	89.6	77.6	44.8	10.2	38.2	70.7							
105	76.2	62.7	40.1	6.86	25.7	52.5	80.4	73.6	43.4	10.5	37.1	66.9							
110	68.2	53.4	31.4	6.05	20.0	46.3	71.7	69.7	41.6	11.0	36.3	63.4							
115	64.4	51.5	27.4	5.66	16.9	44.8	67.4	65.7	39.5	11.4	35.7	60.2							
120	60.6	49.5	25.8	5.35	15.7	43.1	63.3	61.5	36.2	11.7	34.7	57.0							
125	56.8	46.9	23.9	5.07	15.1	40.7	59.3	57.2	33.4	12.0	33.0	53.8							
130	53.0	43.6	20.9	4.77	14.4	37.3	55.3	52.2	30.9	12.2	30.8	50.3							
135	48.9	39.9	16.0	4.43	13.7	33.3	49.7	45.9	28.5	12.5	28.5	46.4							
140	44.0	34.5	11.7	4.14	12.9	29.8	43.5	40.4	26.1	12.9	26.3	42.2							
145	38.6	27.5	8.11	3.92	12.2	26.6	38.1	35.7	23.5	13.4	24.4	37.5							
150	33.0	19.8	5.32	3.89	11.4	23.7	33.5	30.8	20.9	13.8	22.5	32.7							
155	27.5	12.3	4.33	3.99	10.7	20.6	28.8	26.3	18.7	14.2	20.9	28.2							
160	23.1	6.92	4.17	4.22	9.93	17.2	24.0	21.5	17.1	14.4	19.3	24.3							
165	18.9	4.53	4.42	6.32	9.49	14.7	17.3	17.3	15.8	14.6	17.8	21.0							
170	13.5	4.29	7.41	8.96	10.1	12.8	7.16	14.0	14.7	14.5	16.3	17.9							
175	5.46	4.40	10.3	11.6	11.6	12.0	4.56	11.2	13.5	14.3	14.9	15.0							
180	4.48	8.63	12.3	13.6	13.6	13.0	4.48	8.62	12.3	13.5	13.6	13.0							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-15

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.362  
 Humidity:65.0%  
 Test Distance:7.750m [K=1.0000]  
 Remarks: