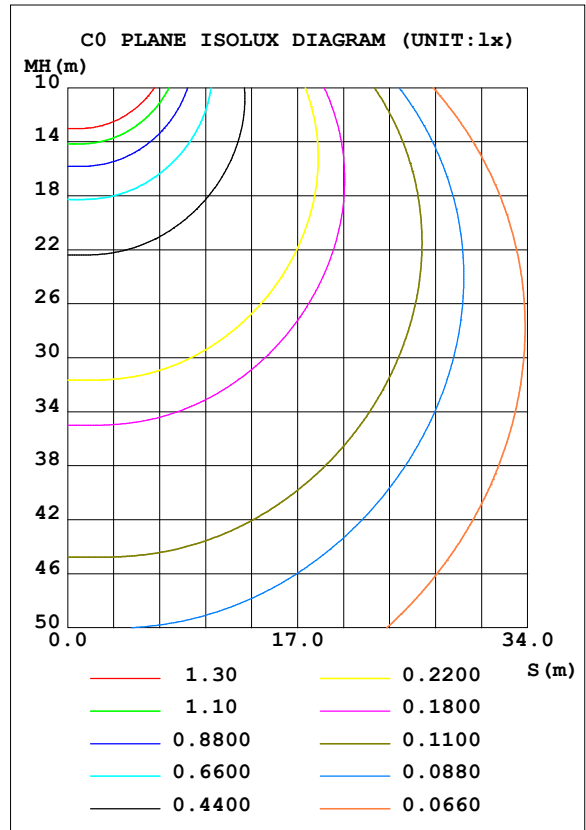
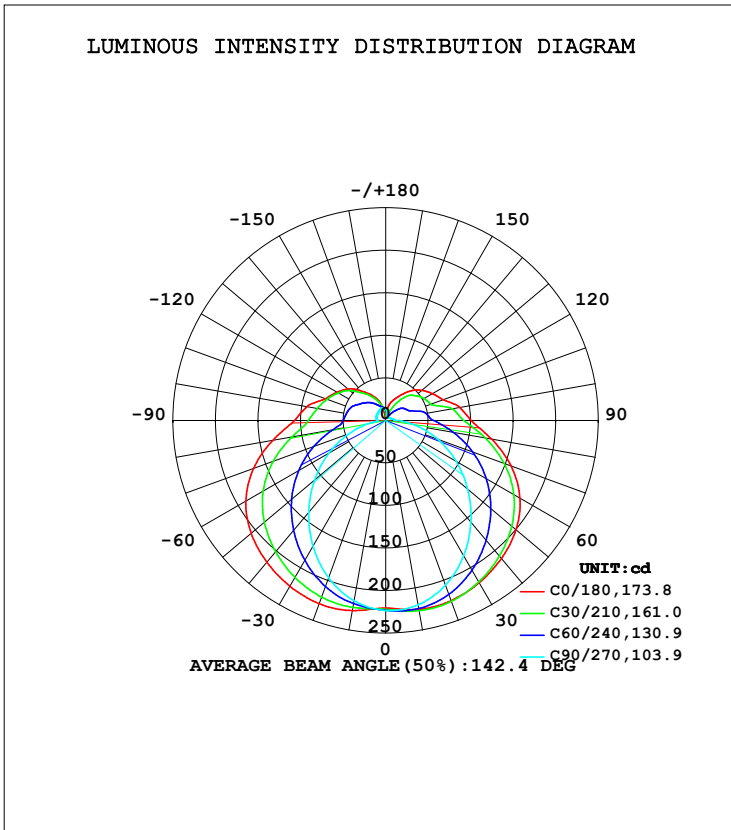


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.5V I:0.0970A P:11.40W PF:0.9730 Freq:60.00Hz Lamp Flux:1135.64x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 99.62 lm/W			
MODEL		I <sub>max</sub> (cd)	229.3	S/MH (C0/180)	1.53
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.15
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1135.6	η UP, DN (C0-180)	9.9, 39.8
NOMINAL FLUX (lm)	1135.64	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	12.3, 38.0
LAMPS INSIDE	1	η up (%)	22.2	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	77.8	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:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	225.4	225.7	220.0	221.9	226.9	220.8	215.2	221.2	0- 10	21.24	21.24	1.87,1.87
20	225.4	221.8	206.0	215.7	229.2	214.3	196.7	213.1	10- 20	62.13	83.37	7.34,7.34
30	220.1	211.1	183.5	202.3	225.1	201.6	170.8	198.7	20- 30	96.71	180.1	15.9,15.9
40	211.8	195.9	155.9	184.2	217.4	184.9	140.8	180.4	30- 40	121.5	301.6	26.6,26.6
50	200.0	177.3	125.9	163.0	206.4	165.3	109.2	159.1	40- 50	135.1	436.7	38.5,38.5
60	182.3	155.1	95.63	139.2	189.8	142.3	77.22	134.6	50- 60	136.8	573.5	50.5,50.5
70	156.9	128.7	65.72	112.6	165.4	115.4	45.87	107.0	60- 70	126.1	699.6	61.6,61.6
80	126.4	99.73	37.22	84.49	134.7	87.58	18.74	79.32	70- 80	104.7	804.3	70.8,70.8
90	100.5	74.08	14.19	59.68	107.3	70.55	10.03	63.53	80- 90	79.71	884.0	77.8,77.8
100	88.59	64.10	9.107	50.60	94.08	64.47	11.37	57.88	90-100	65.35	949.4	83.6,83.6
110	71.69	44.70	6.758	34.84	75.25	58.71	12.14	52.90	100-110	53.86	1003	88.3,88.3
120	63.51	39.51	6.037	30.94	66.42	51.36	12.57	48.47	110-120	42.85	1046	92.1,92.1
130	55.29	33.74	5.237	27.16	58.08	43.71	12.94	42.87	120-130	34.40	1080	95.1,95.1
140	45.36	24.60	4.435	22.40	45.57	34.92	13.61	36.20	130-140	25.02	1106	97.3,97.3
150	33.96	13.09	4.110	18.40	34.98	27.01	14.55	29.19	140-150	15.99	1122	98.8,98.8
160	25.08	5.850	4.422	14.15	25.02	20.22	15.29	23.03	150-160	8.895	1130	99.5,99.5
170	15.33	6.142	9.369	12.06	7.266	15.06	15.45	18.02	160-170	4.123	1135	99.9,99.9
180	4.702	11.09	14.32	14.05	4.698	11.10	14.30	14.06	170-180	1.121	1136	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 368.15 lm

%lum = 32.4%

%lamp = 32.4%

Conical surface Flux(120deg): 573.45 lm

%lum = 50.5%

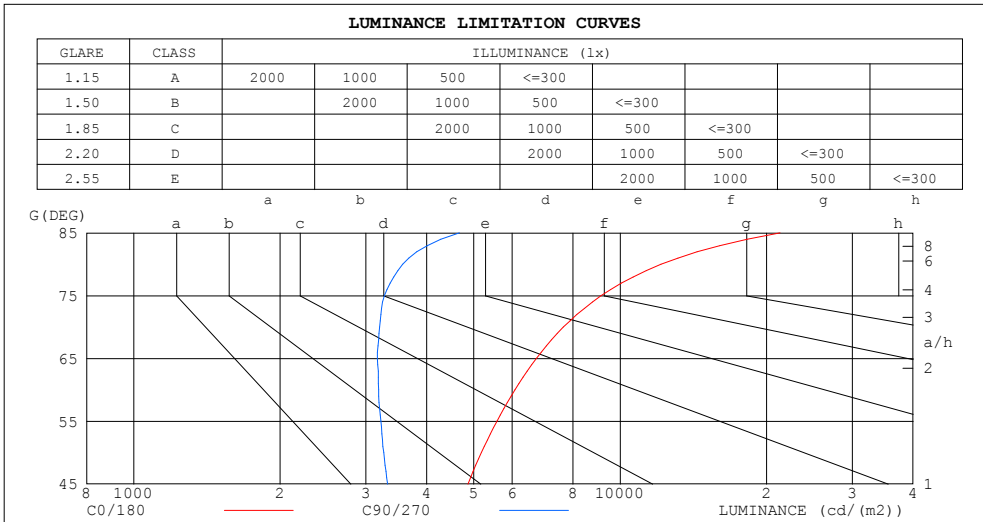
%lamp = 50.5%

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

$\gamma$  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:

LUMINANCE LIMITATION CURVES

Test:U:120.5V I:0.0970A P:11.40W PF:0.9730 Freq:60.00Hz Lamp Flux:1135.64x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	21310	4670
80	12134	3572
75	9142	3275
70	7647	3203
65	6725	3171
60	6075	3188
55	5581	3222
50	5186	3264
45	4866	3325

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:0.0970A P:11.40W PF:0.9730 Freq:60.00Hz Lamp Flux:1135.64x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 3000K	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	.059	.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	.098	.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	.280	.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	.032	.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	.181	.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	.258	.208	.175	.178	.146	.124	.104	.086	.074	.034	.028	.024	
10.0	.293	.236	.198	.253	.205	.173	.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:0.0970A P:11.40W PF:0.9730 Freq:60.00Hz Lamp Flux:1135.64x1 lm										
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 3000K					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	18.3	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	19.1	18.5	19.7	20.4
6H	23.3	24.4	23.9	25.0	25.7	18.6	19.7	19.2	20.3	21.0
8H	24.1	25.2	24.7	25.8	26.5	18.9	19.9	19.5	20.6	21.3
12H	25.0	26.0	25.7	26.7	27.4	19.2	20.2	19.8	20.8	21.6
4H 2H	18.4	19.5	19.0	20.1	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	22.8	23.8	23.5	24.4	25.2	19.7	20.6	20.3	21.3	22.1
6H	24.5	25.4	25.2	26.1	26.9	20.6	21.4	21.3	22.1	22.9
8H	25.5	26.2	26.2	26.9	27.8	21.0	21.7	21.7	22.4	23.3
12H	26.5	27.2	27.2	28.0	28.8	21.3	22.0	22.0	22.8	23.6
8H 4H	23.2	24.0	23.9	24.7	25.5	20.7	21.5	21.4	22.2	23.1
6H	25.2	25.9	26.0	26.6	27.5	22.0	22.6	22.7	23.4	24.3
8H	26.4	26.9	27.1	27.7	28.6	22.6	23.2	23.4	23.9	24.8
12H	27.7	28.2	28.4	28.9	29.9	23.2	23.7	24.0	24.5	25.4
12H 4H	23.2	24.0	24.0	24.7	25.5	21.0	21.8	21.8	22.5	23.3
6H	25.4	25.9	26.1	26.7	27.6	22.5	23.1	23.3	23.8	24.7
8H	26.6	27.1	27.4	27.9	28.8	23.3	23.8	24.0	24.6	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, 1136 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.4)

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:0.0970A P:11.40W PF:0.9730 Freq:60.00Hz Lamp Flux:1135.64x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

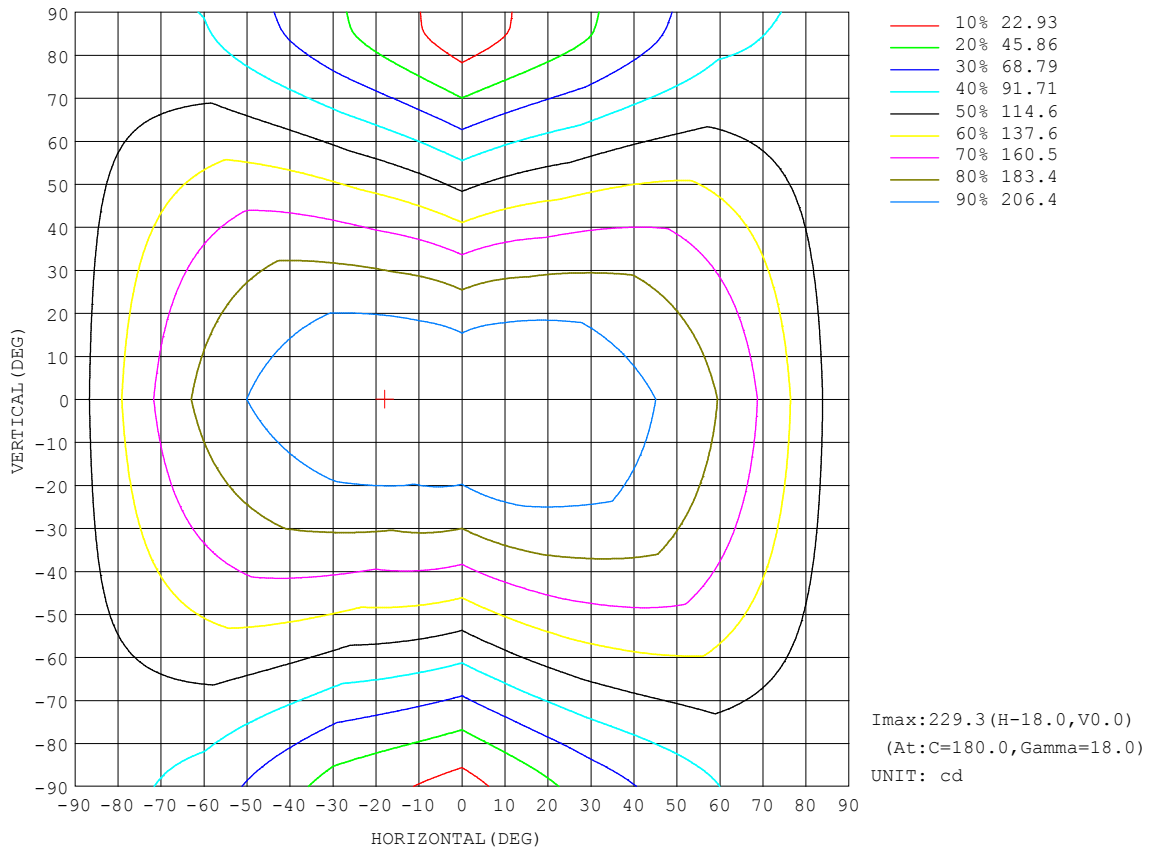
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	46	34	27	45	33	27	43	32	26	19
0.80	56	43	35	54	42	34	51	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	49
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	60
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:0.0970A P:11.40W PF:0.9730 Freq:60.00Hz Lamp Flux:1135.64x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

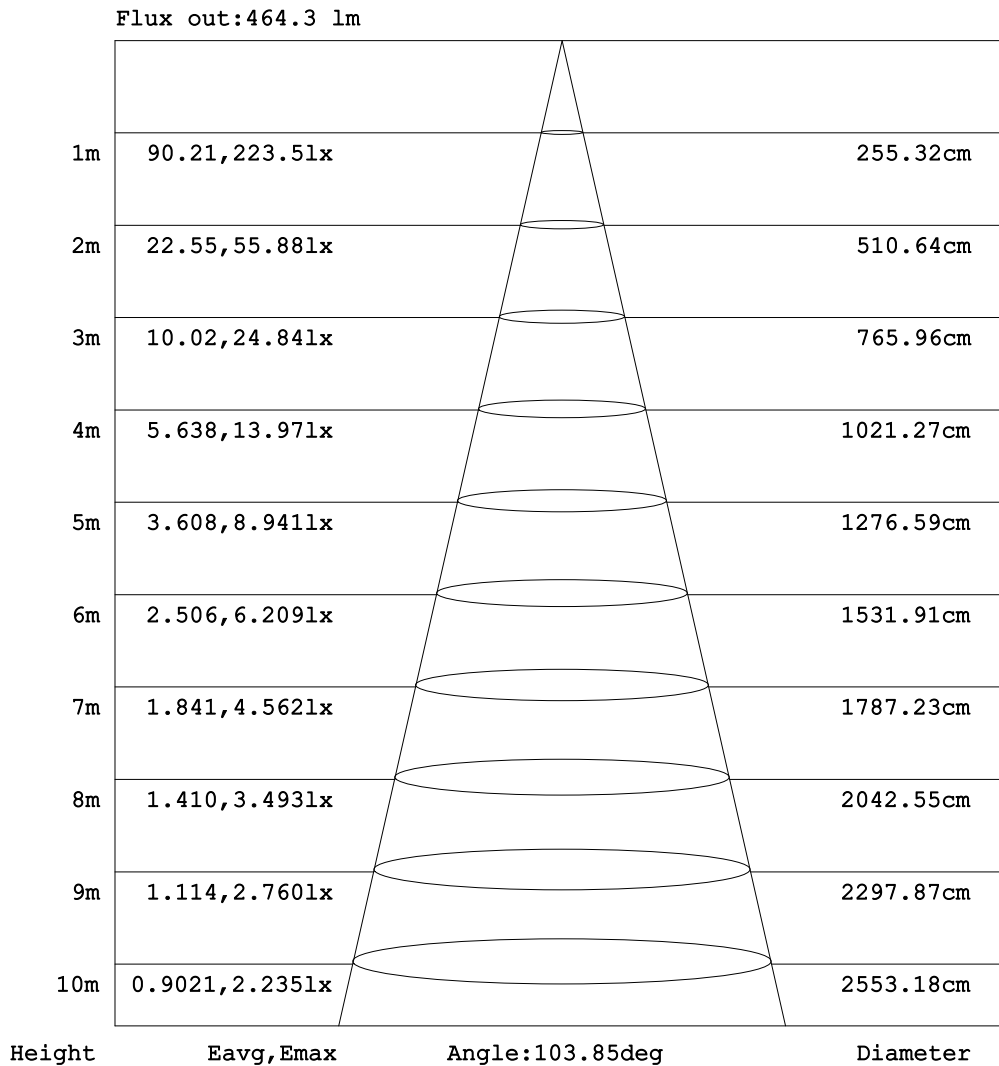


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-04-15

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:0.0970A P:11.40W PF:0.9730 Freq:60.00Hz Lamp Flux:1135.64x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:



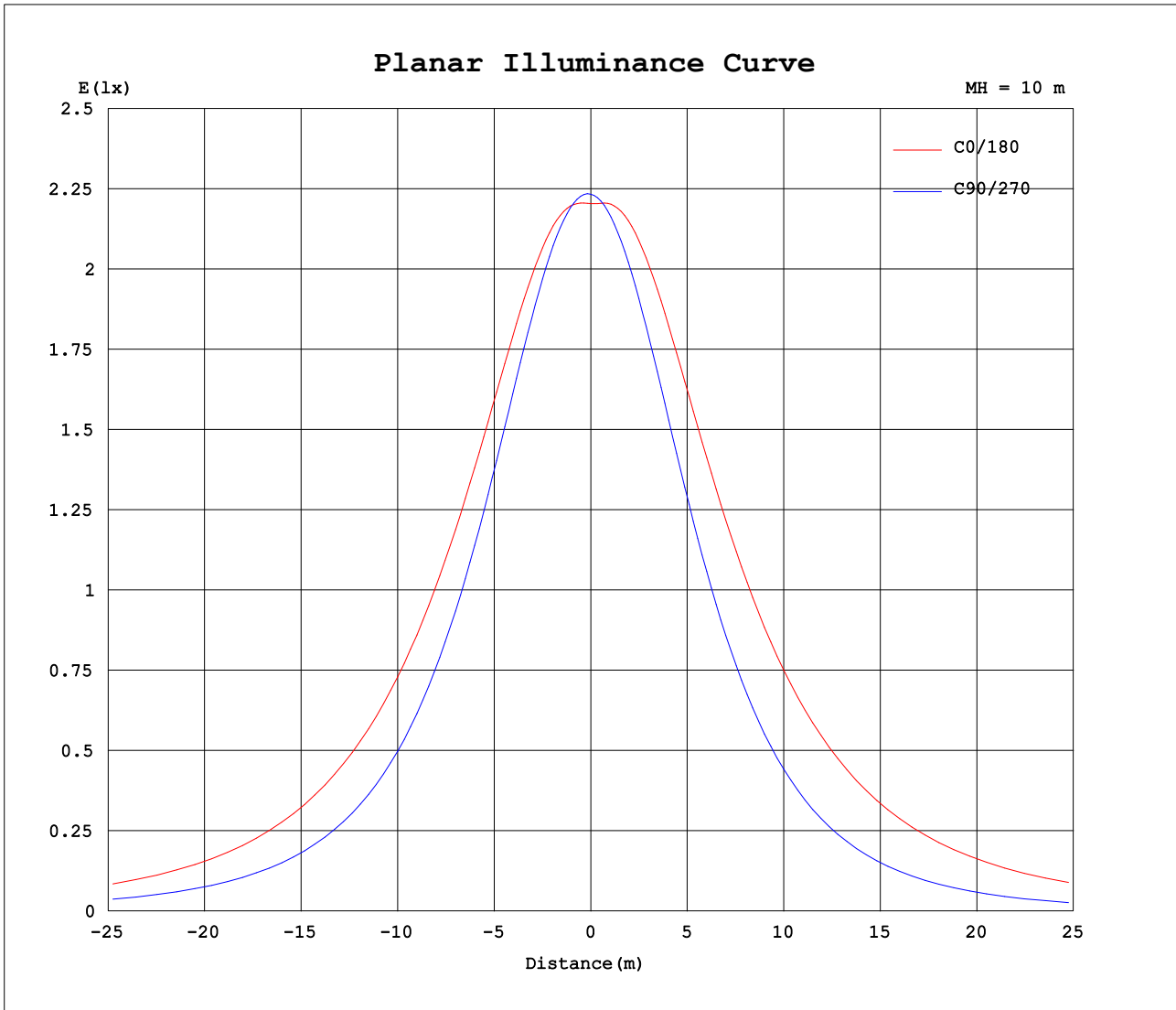
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:0.0970A P:11.40W PF:0.9730 Freq:60.00Hz Lamp Flux:1135.64x1 lm		
NAME: LVS1S-14-12-95C-MVUD-NS 整灯 3000K	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	220	222	223	223	223	222	220	222	223	223	223	222							
5	223	225	225	223	222	222	223	222	221	221	222	223							
10	225	227	224	220	220	224	227	223	219	215	219	224							
15	226	228	222	214	216	223	229	223	214	207	214	222							
20	225	226	217	206	210	221	229	221	208	197	207	219							
25	223	223	211	196	202	217	228	218	200	184	198	215							
30	220	219	203	183	193	212	225	213	190	171	188	210							
35	216	214	194	170	182	206	222	208	180	156	177	203							
40	212	208	184	156	170	199	217	201	168	141	165	196							
45	206	201	173	141	157	191	212	194	157	125	152	188							
50	200	193	161	126	144	182	206	186	144	109	139	179							
55	192	184	149	111	131	172	199	177	132	93.2	125	169							
60	182	174	136	95.6	117	161	190	166	118	77.2	111	158							
65	171	162	123	80.4	103	149	179	154	104	61.4	96.9	145							
70	157	148	109	65.7	88.9	136	165	141	90.1	45.9	82.4	132							
75	142	134	94.8	50.9	74.7	122	151	126	76.1	31.3	68.3	117							
80	126	119	80.7	37.2	60.9	108	135	112	63.2	18.7	55.6	103							
85	111	104	67.5	24.4	48.1	94.1	119	98.6	53.2	10.6	45.9	90.4							
90	101	91.7	56.4	14.2	37.5	81.9	107	91.0	50.1	10.0	43.3	83.8							
95	94.3	85.5	51.3	10.2	32.9	75.9	100	86.1	48.6	10.7	42.1	79.3							
100	88.6	79.8	48.4	9.11	30.9	70.3	94.1	81.7	47.2	11.4	40.8	74.9							
105	80.2	65.8	42.3	7.78	27.1	55.0	84.4	77.6	45.7	11.8	39.7	70.9							
110	71.7	56.3	33.1	6.76	21.1	48.6	75.2	73.4	44.0	12.1	38.7	67.1							
115	67.5	54.3	28.9	6.33	17.8	47.1	70.7	69.3	41.4	12.4	38.0	63.6							
120	63.5	51.9	27.1	6.04	16.6	45.3	66.4	64.7	38.0	12.6	36.7	60.2							
125	59.6	49.3	25.2	5.79	15.8	42.8	62.2	60.4	35.1	12.7	34.9	56.8							
130	55.3	45.5	22.0	5.24	15.1	39.2	58.1	54.9	32.5	12.9	32.6	53.2							
135	50.7	42.3	17.0	4.77	14.3	34.9	52.3	48.2	30.0	13.2	30.1	49.1							
140	45.4	36.5	12.7	4.43	13.5	31.3	45.6	42.4	27.4	13.6	27.8	44.6							
145	39.5	29.4	8.55	4.15	12.7	27.9	39.9	37.3	24.7	14.1	25.8	39.7							
150	34.0	20.6	5.61	4.11	12.0	24.8	35.0	32.1	21.9	14.6	23.8	34.6							
155	29.1	13.4	4.56	4.21	11.2	21.4	30.1	27.5	19.7	15.0	22.0	29.9							
160	25.1	7.31	4.39	4.42	10.4	17.9	25.0	22.5	17.9	15.3	20.4	25.7							
165	21.3	4.77	4.66	6.63	9.97	15.4	17.8	18.0	16.5	15.5	18.8	22.1							
170	15.3	4.51	7.77	9.37	10.7	13.4	7.27	14.7	15.4	15.4	17.2	18.9							
175	5.95	4.63	10.9	12.1	12.3	12.6	4.78	11.7	14.2	15.2	15.7	15.9							
180	4.70	9.19	13.0	14.3	14.4	13.7	4.70	9.22	13.0	14.3	14.4	13.7							

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: