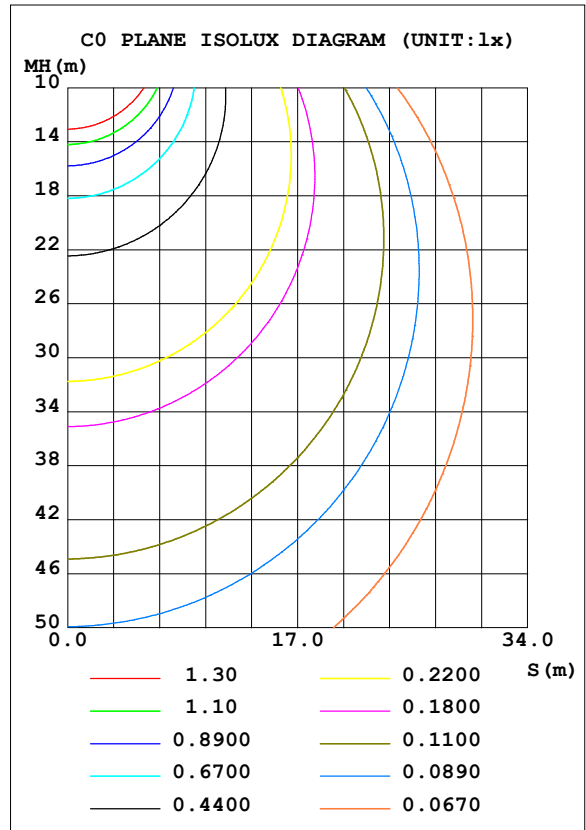
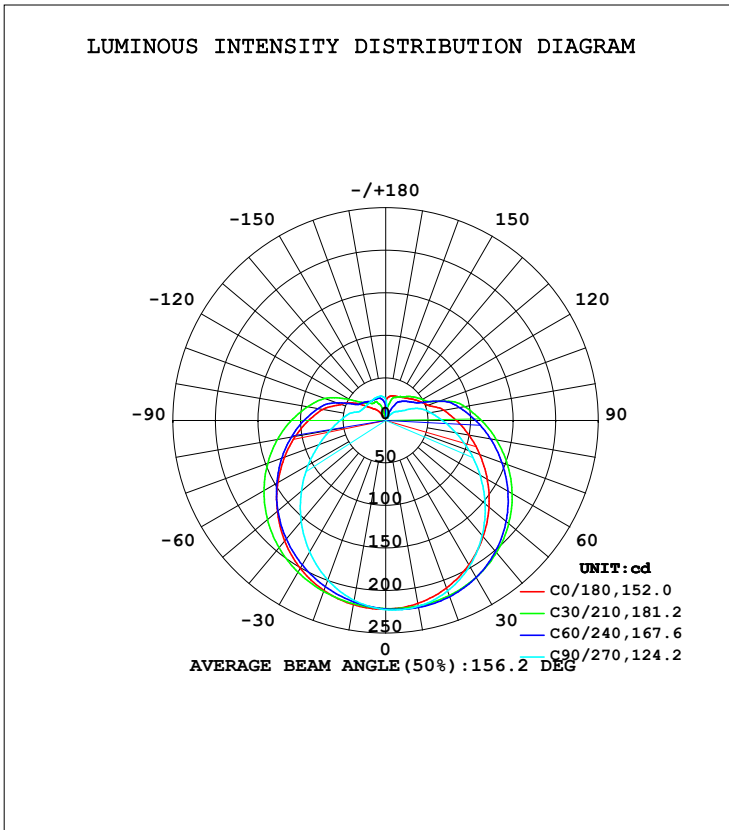


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.6V I:0.1000A P:11.90W PF:0.9890 Freq:60.00Hz Lamp Flux:1071.86x1 lm		
NAME: LVS1R-14-12-95C-MV-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.07 lm/W			
MODEL		I <sub>max</sub> (cd)	223.1	S/MH (C0/180)	1.35
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)		TOTAL FLUX (lm)	1071.9	η UP, DN (C0-180)	10.4, 40.3
NOMINAL FLUX (lm)	1071.86	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	11.5, 37.9
LAMPS INSIDE	1	η up (%)	21.9	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)		η down (%)	78.1	CIBSE SHR MAX	1.50



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-02-28

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	218.3	222.3	221.8	218.1	219.8	217.6	214.6	215.5	0- 10	21.02	21.02	1.96,1.96
20	209.4	219.7	213.2	204.1	212.6	210.8	199.3	199.1	10- 20	60.51	81.53	7.61,7.61
30	195.8	212.9	197.5	182.2	200.8	201.1	178.7	175.1	20- 30	92.88	174.4	16.3,16.3
40	178.3	201.8	176.6	155.2	184.9	188.5	154.7	146.4	30- 40	114.9	289.3	27,27
50	158.5	186.8	152.6	125.7	166.3	173.4	129.4	115.8	40- 50	125.3	414.7	38.7,38.7
60	137.9	168.8	128.1	96.15	146.4	156.5	105.2	85.38	50- 60	124.7	539.4	50.3,50.3
70	117.9	149.0	104.6	68.09	126.6	138.8	83.54	57.67	60- 70	115.2	654.6	61.1,61.1
80	99.41	128.7	83.80	43.25	107.8	120.9	66.20	36.05	70- 80	99.91	754.5	70.4,70.4
90	83.22	109.3	66.88	25.65	90.72	103.6	53.49	25.73	80- 90	83.07	837.5	78.1,78.1
100	69.62	91.41	53.89	17.76	75.42	87.15	44.50	23.26	90-100	68.22	905.8	84.5,84.5
110	53.06	66.75	41.66	10.27	55.70	68.71	32.23	23.48	100-110	53.37	959.1	89.5,89.5
120	45.56	45.91	23.35	6.957	40.62	43.67	29.89	24.83	110-120	36.96	996.1	92.9,92.9
130	39.69	39.02	16.80	6.808	23.45	32.99	28.59	26.44	120-130	25.93	1022	95.4,95.4
140	35.12	33.12	10.25	7.414	16.13	27.80	28.60	28.02	130-140	19.44	1041	97.2,97.2
150	32.16	26.90	4.336	8.387	6.372	26.74	28.98	29.30	140-150	14.05	1056	98.5,98.5
160	30.63	17.78	4.153	9.143	4.763	24.07	29.39	29.95	150-160	9.353	1065	99.3,99.3
170	28.92	11.02	9.526	16.07	4.830	15.03	29.08	29.52	160-170	5.225	1070	99.8,99.8
180	21.40	9.952	24.78	26.63	21.33	10.03	24.83	26.66	170-180	1.769	1072	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 351.43 lm

%lum = 32.8%

%lamp = 32.8%

Conical surface Flux(120deg): 539.4 lm

%lum = 50.3%

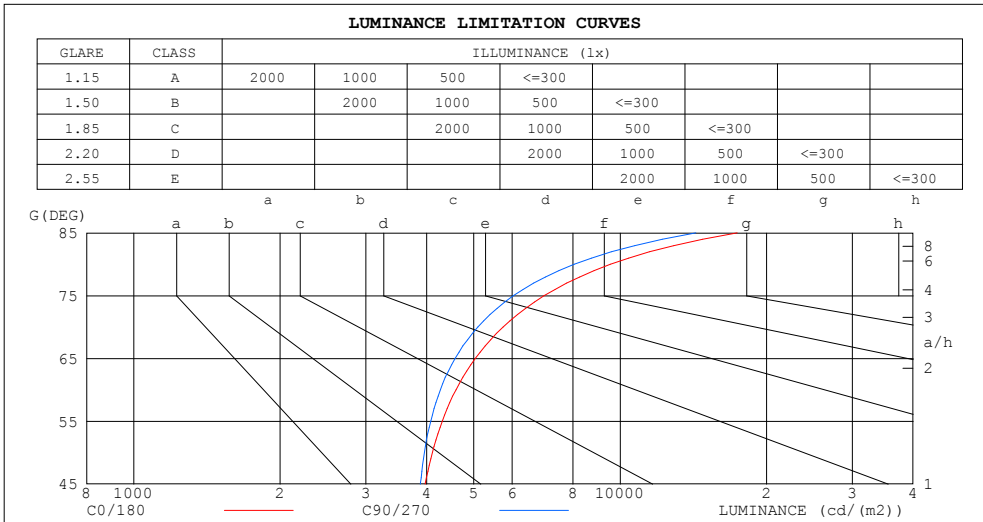
%lamp = 50.3%

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-02-28

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:120.6V I:0.1000A P:11.90W PF:0.9890 Freq:60.00Hz Lamp Flux:1071.86x1 lm		
NAME: LVS1R-14-12-95C-MV-BL 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	17405	14316
80	9542	8043
75	6982	6032
70	5745	5096
65	5037	4577
60	4597	4269
55	4308	4079
50	4111	3957
45	3974	3885

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-02-28

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:120.6V I:0.1000A P:11.90W PF:0.9890 Freq:60.00Hz Lamp Flux:1071.86x1 lm		
NAME: LVS1R-14-12-95C-MV-BL 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	.387	.220	.070	.373	.213	.068	.347	.199	.064	.323	.186	.060	.301	.174	.056	
2.0	.333	.182	.056	.320	.176	.054	.297	.165	.051	.275	.154	.048	.255	.144	.045	
3.0	.295	.157	.047	.284	.152	.046	.262	.142	.043	.242	.133	.041	.224	.124	.038	
4.0	.265	.138	.041	.255	.133	.039	.235	.125	.037	.217	.117	.035	.201	.109	.033	
5.0	.241	.123	.036	.232	.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	.167	.088	.026	
7.0	.203	.101	.029	.196	.097	.028	.181	.091	.026	.167	.086	.025	.154	.080	.024	
8.0	.189	.092	.026	.181	.089	.025	.168	.084	.024	.155	.079	.023	.143	.073	.021	
9.0	.176	.085	.024	.169	.082	.023	.157	.077	.022	.145	.073	.021	.134	.068	.020	
10.0	.164	.079	.022	.158	.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	.357	.357	.357	.305	.305	.305	.208	.208	.208	.120	.120	.120	.038	.038	.038	
1.0	.354	.323	.296	.303	.278	.255	.207	.191	.176	.119	.110	.103	.038	.036	.033	
2.0	.347	.301	.262	.297	.259	.227	.204	.179	.158	.117	.104	.093	.038	.034	.030	
3.0	.339	.284	.241	.291	.245	.209	.200	.170	.146	.115	.100	.086	.037	.032	.028	
4.0	.332	.272	.227	.284	.235	.197	.196	.164	.139	.113	.096	.082	.036	.031	.027	
5.0	.324	.262	.217	.278	.227	.189	.192	.159	.133	.111	.093	.079	.036	.030	.026	
6.0	.316	.254	.210	.272	.220	.183	.188	.154	.129	.109	.091	.077	.035	.030	.025	
7.0	.309	.248	.205	.266	.215	.178	.184	.151	.126	.107	.089	.075	.035	.029	.025	
8.0	.303	.242	.201	.261	.210	.175	.180	.148	.124	.105	.087	.074	.034	.029	.025	
9.0	.297	.238	.198	.255	.206	.173	.177	.145	.123	.103	.086	.073	.033	.028	.024	
10.0	.291	.234	.195	.251	.203	.171	.174	.143	.121	.101	.084	.072	.033	.028	.024	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-02-28

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:120.6V I:0.1000A P:11.90W PF:0.9890 Freq:60.00Hz Lamp Flux:1071.86x1 lm										
NAME: LVS1R-14-12-95C-MV-BL 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	17.4	18.8	18.0	19.3	20.0	17.2	18.5	17.7	19.0	19.7
3H	19.8	21.1	20.4	21.7	22.3	19.4	20.6	20.0	21.2	21.9
4H	21.1	22.3	21.8	22.9	23.6	20.6	21.8	21.2	22.4	23.1
6H	22.6	23.7	23.2	24.3	25.0	21.9	23.0	22.5	23.6	24.3
8H	23.4	24.4	24.0	25.1	25.8	22.6	23.7	23.2	24.3	25.0
12H	24.3	25.3	24.9	25.9	26.7	23.4	24.4	24.1	25.1	25.8
4H 2H	18.5	19.6	19.1	20.2	20.9	18.3	19.4	18.9	20.0	20.7
3H	21.2	22.2	21.8	22.8	23.6	20.8	21.8	21.5	22.5	23.2
4H	22.7	23.6	23.3	24.3	25.0	22.2	23.2	22.9	23.8	24.6
6H	24.3	25.1	25.0	25.8	26.6	23.7	24.5	24.4	25.2	26.0
8H	25.1	25.9	25.9	26.6	27.5	24.5	25.3	25.2	26.0	26.8
12H	26.1	26.9	26.9	27.6	28.4	25.4	26.1	26.1	26.8	27.7
8H 4H	23.4	24.2	24.1	24.9	25.7	23.1	23.9	23.8	24.6	25.4
6H	25.4	26.1	26.1	26.8	27.7	24.9	25.6	25.7	26.3	27.2
8H	26.5	27.1	27.3	27.9	28.7	26.0	26.6	26.7	27.3	28.2
12H	27.7	28.3	28.5	29.0	29.9	27.1	27.6	27.8	28.4	29.3
12H 4H	23.6	24.3	24.3	25.0	25.9	23.3	24.0	24.0	24.7	25.6
6H	25.7	26.3	26.5	27.1	28.0	25.3	25.9	26.1	26.7	27.6
8H	27.0	27.5	27.7	28.3	29.2	26.5	27.0	27.3	27.8	28.7
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	+ 0.3 / - 0.5					+ 0.3 / - 0.5				

CIE Pub.117, 1072 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.2)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-02-28

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:120.6V I:0.1000A P:11.90W PF:0.9890 Freq:60.00Hz Lamp Flux:1071.86x1 lm		
NAME: LVS1R-14-12-95C-MV-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

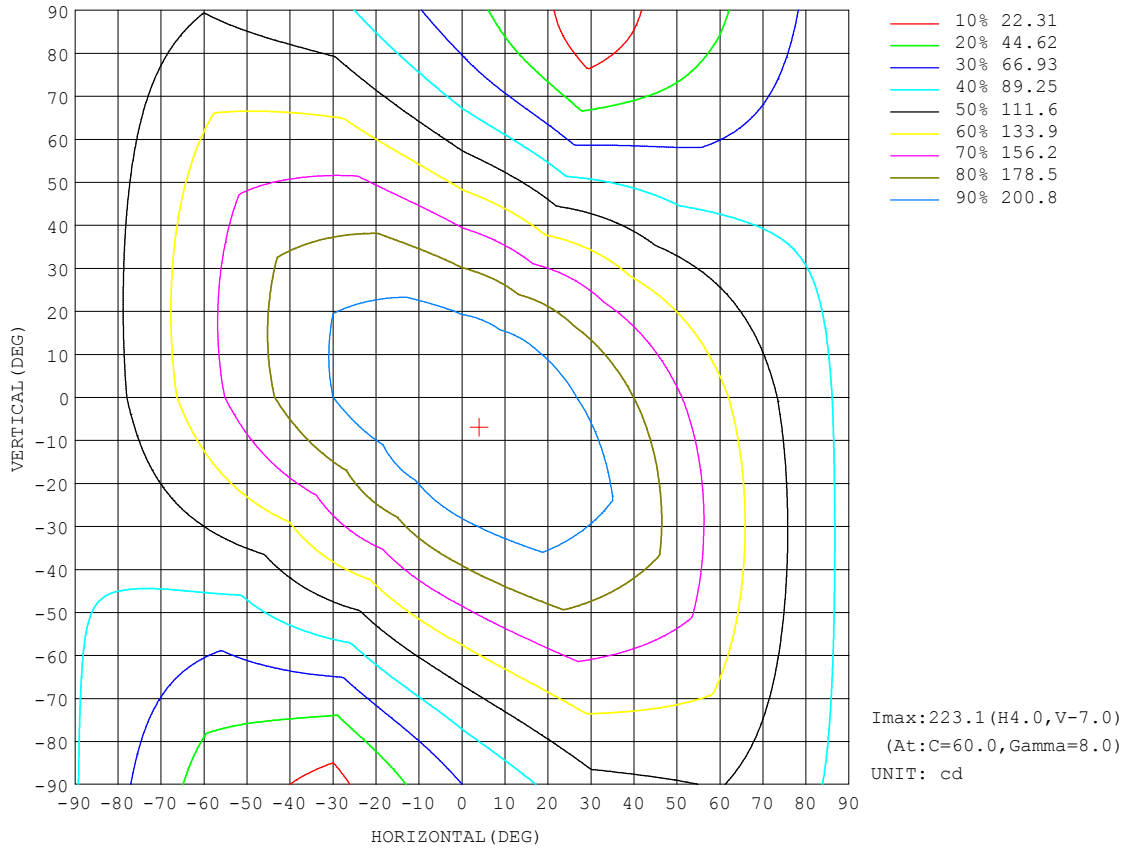
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	47	34	27	45	34	27	43	33	26	19
0.80	56	43	35	54	42	34	51	40	33	25
1.00	63	50	42	61	49	41	57	49	40	31
1.25	70	57	49	68	56	48	63	53	46	36
1.50	75	63	54	72	61	53	67	58	51	40
2.00	83	71	63	79	69	61	73	65	58	46
2.50	87	77	69	83	74	67	77	69	63	49
3.00	91	81	74	87	78	72	80	73	67	53
4.00	96	87	81	91	84	78	84	78	73	57
5.00	99	92	86	94	88	82	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:2024-02-28

$\gamma$  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:120.6V I:0.1000A P:11.90W PF:0.9890 Freq:60.00Hz Lamp Flux:1071.86x1 lm		
NAME: LVS1R-14-12-95C-MV-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

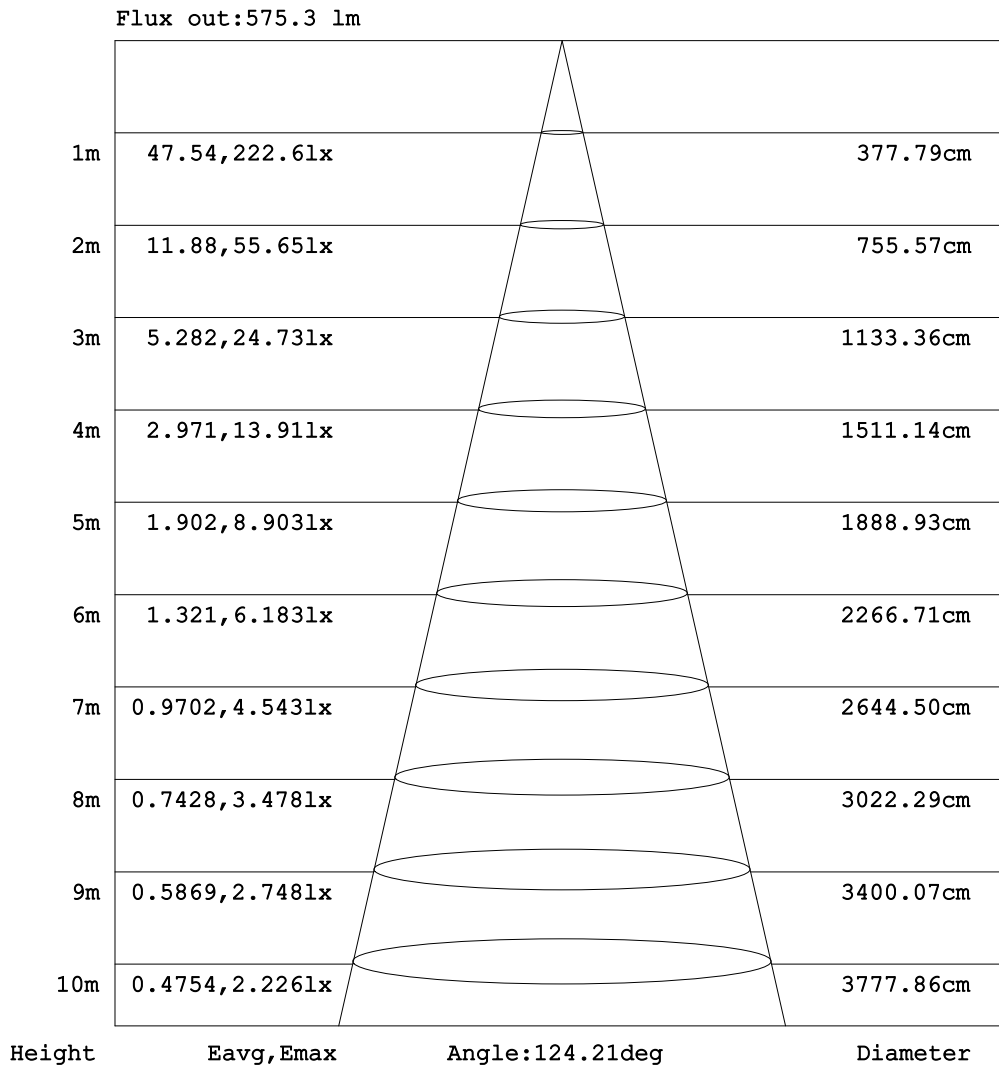


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-02-28

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:120.6V I:0.1000A P:11.90W PF:0.9890 Freq:60.00Hz Lamp Flux:1071.86x1 lm		
NAME: LVS1R-14-12-95C-MV-BL 整灯 2700K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:



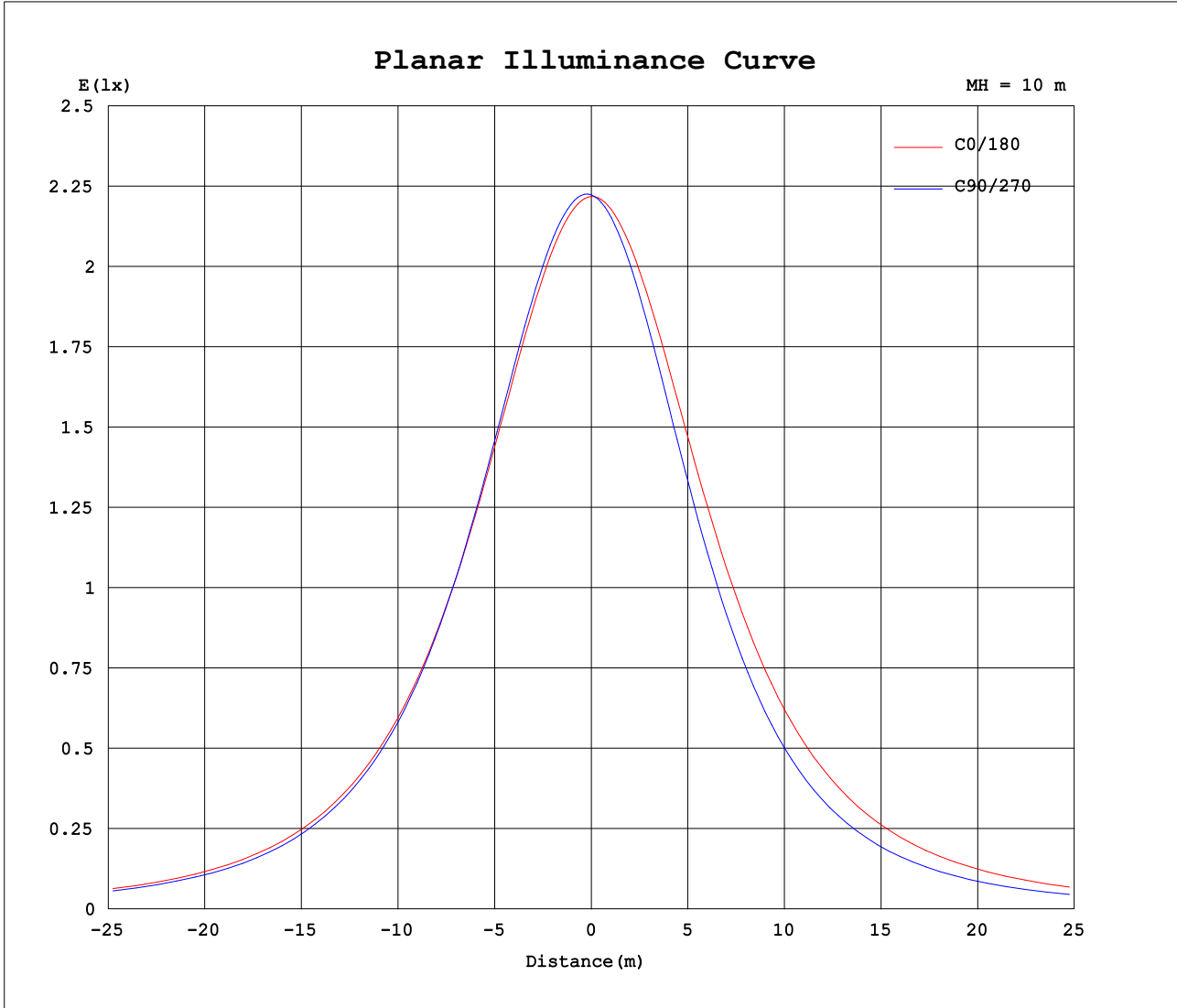
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-02-28

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:2024-02-28

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:120.6V I:0.1000A P:11.90W PF:0.9890 Freq:60.00Hz Lamp Flux:1071.86x1 lm		
NAME: LVS1R-14-12-95C-MV-BL 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	222	221	222	222	223	222	222	221	222	222	223	222							
5	221	222	223	223	222	221	221	220	220	219	220	220							
10	218	221	223	222	219	217	220	219	217	215	215	217							
15	215	221	222	218	213	211	217	217	213	208	207	210							
20	209	219	220	213	205	203	213	214	208	199	196	202							
25	203	216	217	206	194	193	207	210	202	190	184	192							
30	196	213	213	198	182	182	201	206	196	179	170	180							
35	187	208	208	188	169	170	193	201	189	167	155	167							
40	178	203	201	177	154	156	185	195	182	155	139	153							
45	169	196	193	165	139	142	176	189	174	142	123	139							
50	159	189	185	153	123	128	166	181	165	129	107	125							
55	148	180	176	140	107	114	157	174	157	117	90.0	111							
60	138	172	166	128	91.7	101	146	165	148	105	73.6	97.1							
65	128	162	156	116	76.3	87.3	136	156	139	93.9	57.8	84.3							
70	118	152	146	105	61.4	74.7	127	148	130	83.5	42.7	72.7							
75	108	142	135	93.7	47.4	62.7	117	138	121	74.3	29.3	62.4							
80	99.4	132	125	83.8	34.5	52.0	108	129	113	66.2	18.4	53.7							
85	91.0	122	115	74.9	23.5	43.0	99.0	120	104	59.3	11.7	46.9							
90	83.2	113	106	66.9	15.6	35.7	90.7	111	96.2	53.5	9.79	41.7							
95	76.1	103	96.9	60.0	11.7	30.4	83.0	102	88.4	48.8	10.1	37.9							
100	69.6	94.5	88.3	53.9	9.62	25.9	75.4	93.5	80.8	44.5	11.4	35.2							
105	61.3	84.3	80.0	48.1	7.62	17.3	65.3	85.2	73.2	37.8	13.1	33.2							
110	53.1	66.5	67.0	41.7	6.53	14.0	55.7	76.1	61.3	32.2	15.1	31.9							
115	49.1	53.6	51.0	32.2	6.05	11.2	49.5	63.4	47.2	30.9	17.2	31.0							
120	45.6	49.8	42.0	23.4	5.97	7.95	40.6	49.5	37.9	29.9	19.2	30.4							
125	42.5	46.3	37.9	19.0	5.74	7.46	30.8	38.5	35.3	29.3	21.2	30.0							
130	39.7	43.2	34.9	16.8	4.88	8.74	23.4	32.6	33.3	28.6	23.0	29.8							
135	37.0	40.1	32.2	13.8	4.19	10.1	19.4	29.4	31.3	28.5	24.7	29.9							
140	35.1	36.7	29.5	10.2	3.93	10.9	16.1	26.4	29.2	28.6	26.1	30.0							
145	33.5	34.2	27.0	6.73	3.91	12.0	10.7	25.0	28.4	28.7	27.3	30.1							
150	32.2	32.5	21.3	4.34	3.96	12.8	6.37	25.2	28.3	29.0	28.4	30.2							
155	31.2	30.2	12.3	4.12	4.02	13.5	5.38	23.6	28.0	29.2	29.2	30.3							
160	30.6	28.9	6.68	4.15	4.17	14.1	4.76	20.3	27.8	29.4	29.7	30.2							
165	30.1	24.2	4.32	4.54	7.95	15.3	4.42	11.5	27.3	29.4	29.9	29.9							
170	28.9	17.7	4.29	9.53	14.3	17.9	4.83	4.57	25.5	29.1	29.6	29.4							
175	26.9	10.1	5.42	17.5	21.1	22.1	11.5	4.38	22.1	27.6	28.7	28.4							
180	21.4	4.36	15.5	24.8	26.6	26.6	21.3	4.35	15.7	24.8	26.6	26.7							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-02-28

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: