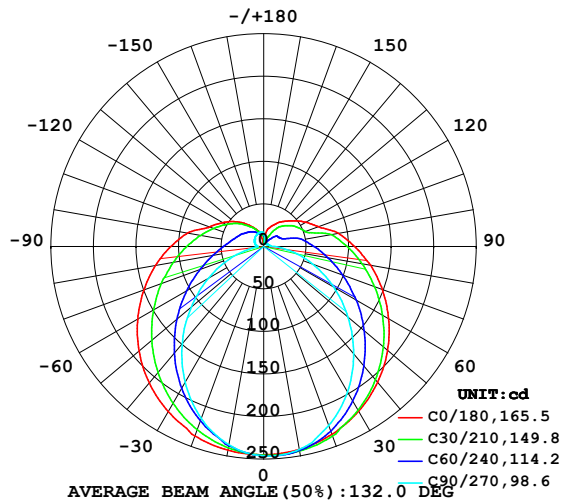


LUMINAIRE PHOTOMETRIC TEST REPORT

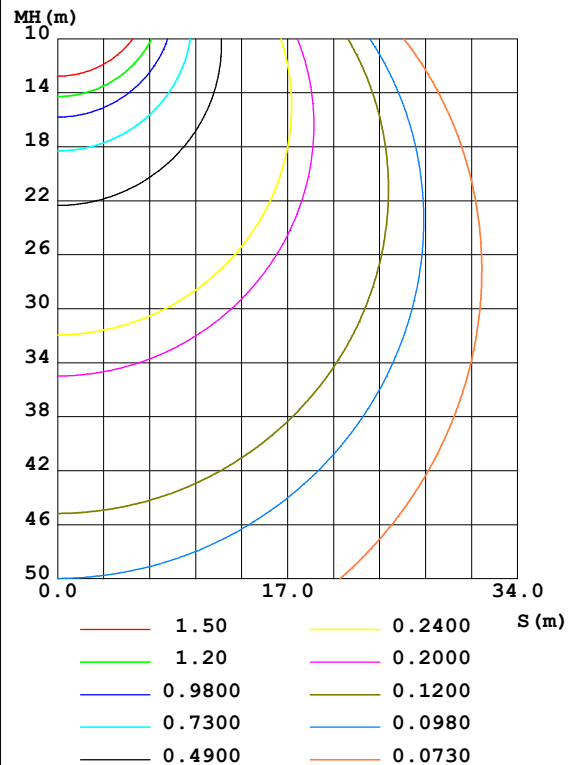
Test:U:120.5V I:0.0990A P:11.70W PF:0.9760 Freq:60.00Hz Lamp Flux:1095.76x1 lm		
NAME: LVS1R-14-12-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 93.65 lm/W			
MODEL		Imax(cd)	246.5	S/MH(C0/180)	1.37
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.13
RATED VOLTAGE(V)		TOTAL FLUX(lm)	1095.8	η UP,DN(C0-180)	9.5,40.7
NOMINAL FLUX(lm)	1095.76	CIE CLASS	SEMI-D.	η UP,DN(C180-360)	11.3,38.5
LAMPS INSIDE	1	η up(%)	20.8	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)		η down(%)	79.2	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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	242.1	243.8	242.2	241.5	243.1	239.0	236.7	239.5	0- 10	23.22	23.22	2.12, 2.12
20	234.9	233.9	223.9	227.9	236.9	223.5	215.0	224.2	10- 20	66.36	89.58	8.17, 8.17
30	223.5	215.8	197.4	207.9	224.2	202.8	184.5	203.1	20- 30	100.5	190.1	17.4, 17.4
40	208.3	193.8	164.7	183.1	209.3	178.3	149.1	177.8	30- 40	122.5	312.7	28.5, 28.5
50	190.1	169.0	129.5	155.9	191.3	152.4	111.2	151.0	40- 50	131.3	444.0	40.5, 40.5
60	169.7	143.6	94.67	128.5	171.0	127.1	75.24	125.0	50- 60	128.2	572.2	52.2, 52.2
70	148.5	118.9	61.68	103.2	149.9	104.0	42.14	101.5	60- 70	116.1	688.2	62.8, 62.8
80	127.5	97.07	32.69	80.97	129.0	84.17	15.97	81.57	70- 80	98.68	786.9	71.8, 71.8
90	107.0	78.76	11.82	63.22	109.2	68.94	7.851	66.79	80- 90	80.50	867.4	79.2, 79.2
100	89.38	63.80	7.258	49.68	90.95	57.28	9.644	55.81	90-100	65.30	932.7	85.1, 85.1
110	68.46	39.76	5.492	30.02	67.83	48.04	11.40	47.58	100-110	49.51	982.2	89.6, 89.6
120	57.20	33.46	4.925	24.89	56.24	40.79	12.88	41.37	110-120	36.86	1019	93, 93
130	47.19	28.91	4.560	21.85	45.72	34.07	14.13	35.92	120-130	28.66	1048	95.6, 95.6
140	38.82	20.88	4.067	19.17	35.91	27.76	15.31	30.81	130-140	20.82	1069	97.5, 97.5
150	31.74	12.49	3.867	16.88	26.67	22.47	16.43	26.33	140-150	13.85	1082	98.8, 98.8
160	24.87	5.533	4.183	14.05	19.59	17.68	17.24	22.59	150-160	8.107	1091	99.5, 99.5
170	16.62	6.066	9.645	12.54	5.937	15.16	17.38	19.02	160-170	4.055	1095	99.9, 99.9
180	4.494	12.60	15.85	15.48	4.494	12.58	15.75	15.48	170-180	1.200	1096	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 378.01 lm

%lum = 34.5%

%lamp = 34.5%

Conical surface Flux(120deg): 572.16 lm

%lum = 52.2%

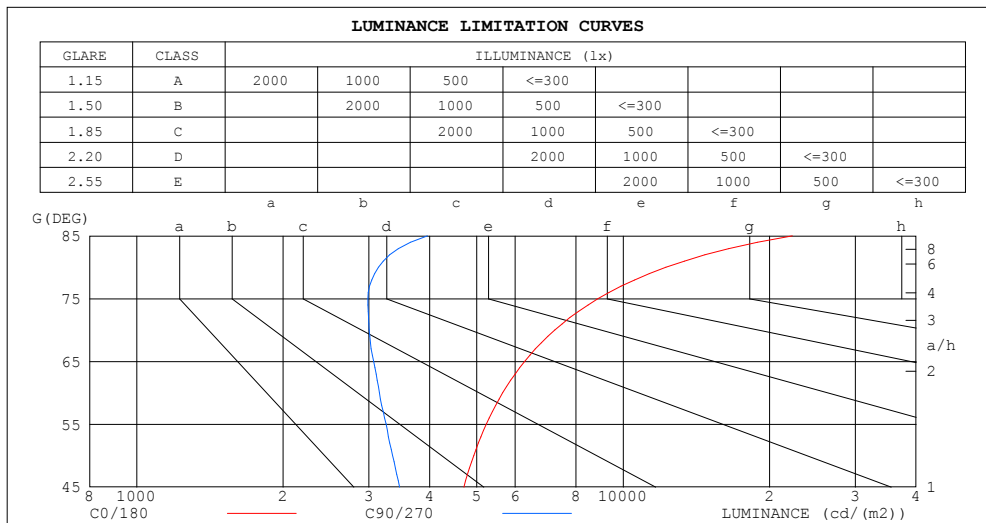
%lamp = 52.2%

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:0.0990A P:11.70W PF:0.9760 Freq:60.00Hz Lamp Flux:1095.76x1 lm		
NAME: LVS1R-14-12-95C-MVUD-BL 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	22281	3957
80	12238	3138
75	8877	2988
70	7235	3006
65	6273	3068
60	5655	3156
55	5231	3255
50	4929	3358
45	4702	3470

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:0.0990A P:11.70W PF:0.9760 Freq:60.00Hz Lamp Flux:1095.76x1 lm		
NAME: LVS1R-14-12-95C-MVUD-BL 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	.341	.195	.062	.317	.183	.059	.296	.171	.055		
2.0	.328	.180	.055	.316	.174	.054	.293	.163	.051	.272	.152	.048	.252	.143	.045		
3.0	.292	.155	.046	.281	.150	.045	.260	.141	.043	.241	.132	.040	.223	.123	.038		
4.0	.263	.137	.040	.253	.132	.039	.234	.124	.037	.216	.116	.035	.200	.109	.033		
5.0	.239	.122	.035	.230	.118	.034	.213	.111	.033	.197	.104	.031	.182	.097	.029		
6.0	.219	.110	.031	.211	.106	.031	.195	.100	.029	.180	.094	.028	.167	.088	.026		
7.0	.202	.100	.028	.195	.097	.028	.180	.091	.026	.167	.085	.025	.154	.080	.024		
8.0	.188	.092	.026	.181	.089	.025	.167	.084	.024	.155	.079	.023	.143	.074	.021		
9.0	.175	.085	.024	.169	.082	.023	.156	.077	.022	.145	.073	.021	.134	.068	.020		
10.0	.164	.079	.022	.158	.076	.021	.147	.072	.020	.136	.067	.019	.126	.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	.349	.349	.349	.298	.298	.298	.204	.204	.204	.117	.117	.117	.037	.037	.037		
1.0	.345	.316	.289	.295	.271	.249	.202	.186	.172	.116	.108	.100	.037	.035	.032		
2.0	.338	.293	.255	.290	.252	.220	.199	.174	.154	.114	.101	.090	.037	.033	.029		
3.0	.331	.276	.233	.284	.239	.202	.195	.166	.142	.112	.097	.084	.036	.031	.027		
4.0	.323	.264	.219	.277	.228	.190	.191	.159	.134	.110	.093	.079	.035	.030	.026		
5.0	.315	.254	.209	.271	.220	.182	.187	.154	.129	.108	.090	.076	.035	.029	.025		
6.0	.308	.246	.202	.265	.213	.176	.183	.149	.125	.106	.088	.074	.034	.029	.024		
7.0	.301	.240	.197	.259	.208	.172	.179	.146	.122	.104	.086	.072	.034	.028	.024		
8.0	.294	.234	.193	.253	.203	.168	.175	.143	.119	.102	.084	.071	.033	.028	.024		
9.0	.288	.229	.190	.248	.199	.166	.172	.140	.118	.100	.083	.070	.032	.027	.023		
10.0	.282	.225	.187	.243	.196	.164	.169	.138	.116	.098	.081	.069	.032	.027	.023		

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:0.0990A P:11.70W PF:0.9760 Freq:60.00Hz Lamp Flux:1095.76x1 lm											
NAME: LVS1R-14-12-95C-MVUD-BL 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		17.6	18.9	18.2	19.5	20.1	15.4	16.7	15.9	17.3	17.9
	3H	20.2	21.5	20.8	22.0	22.7	17.0	18.2	17.6	18.8	19.5
	4H	21.7	22.9	22.3	23.5	24.1	17.7	18.9	18.3	19.5	20.2
	6H	23.3	24.4	23.9	25.0	25.7	18.4	19.5	19.0	20.1	20.8
	8H	24.2	25.3	24.8	25.9	26.6	18.7	19.7	19.3	20.3	21.1
	12H	25.3	26.3	25.9	26.9	27.6	18.9	19.9	19.6	20.6	21.3
4H	2H	18.2	19.3	18.8	19.9	20.6	16.6	17.8	17.2	18.4	19.0
	3H	21.1	22.1	21.7	22.7	23.5	18.5	19.5	19.1	20.2	20.9
	4H	22.8	23.7	23.4	24.3	25.1	19.4	20.4	20.1	21.0	21.8
	6H	24.6	25.4	25.3	26.1	26.9	20.3	21.1	21.0	21.8	22.6
	8H	25.6	26.4	26.3	27.1	27.9	20.7	21.5	21.4	22.2	23.0
	12H	26.8	27.5	27.5	28.2	29.0	21.1	21.8	21.8	22.5	23.3
8H	4H	23.1	23.9	23.8	24.6	25.4	20.5	21.3	21.2	22.0	22.8
	6H	25.3	25.9	26.0	26.7	27.5	21.8	22.5	22.5	23.2	24.0
	8H	26.5	27.1	27.3	27.9	28.7	22.4	23.0	23.2	23.8	24.6
	12H	27.9	28.5	28.7	29.2	30.1	23.0	23.5	23.8	24.3	25.2
12H	4H	23.2	23.9	23.9	24.6	25.4	20.9	21.6	21.6	22.3	23.2
	6H	25.4	26.0	26.2	26.8	27.6	22.4	23.0	23.1	23.7	24.6
	8H	26.8	27.3	27.5	28.1	29.0	23.2	23.7	23.9	24.5	25.4
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 / - 0.4					

CIE Pub.117, 1096 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.3$)

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:0.0990A P:11.70W PF:0.9760 Freq:60.00Hz Lamp Flux:1095.76x1 lm		
NAME: LVS1R-14-12-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

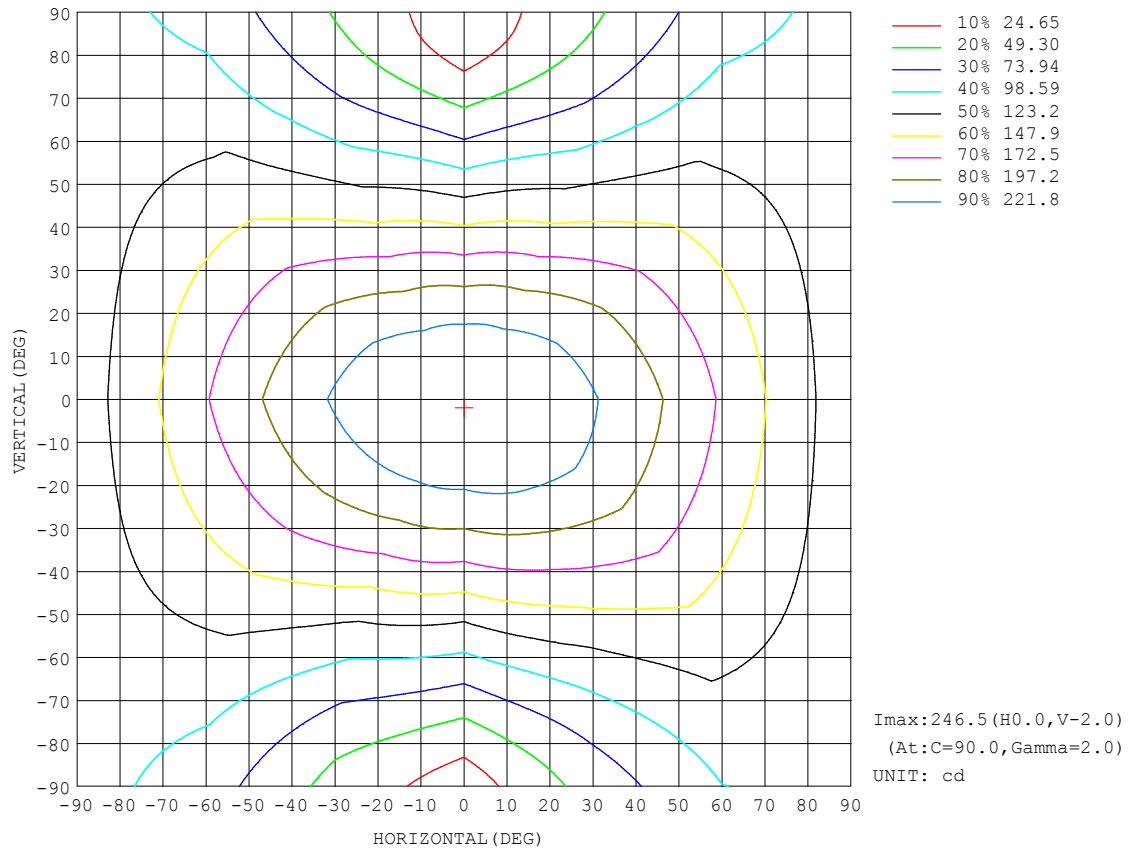
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	48	35	28	46	35	28	44	34	27	21
0.80	57	44	36	55	43	35	52	41	34	27
1.00	64	52	43	62	50	43	58	51	41	32
1.25	71	59	50	69	57	49	64	54	47	38
1.50	76	64	56	73	62	54	68	59	52	41
2.00	83	72	64	80	70	63	74	66	59	47
2.50	88	78	70	84	75	68	78	70	64	51
3.00	92	82	75	88	79	73	81	74	68	54
4.00	96	88	82	92	85	79	85	79	74	59
5.00	99	92	86	95	89	83	87	82	78	62
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

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:

ISOCANDELA DIAGRAM

Test:U:120.5V I:0.0990A P:11.70W PF:0.9760 Freq:60.00Hz Lamp Flux:1095.76x1 lm		
NAME: LVS1R-14-12-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

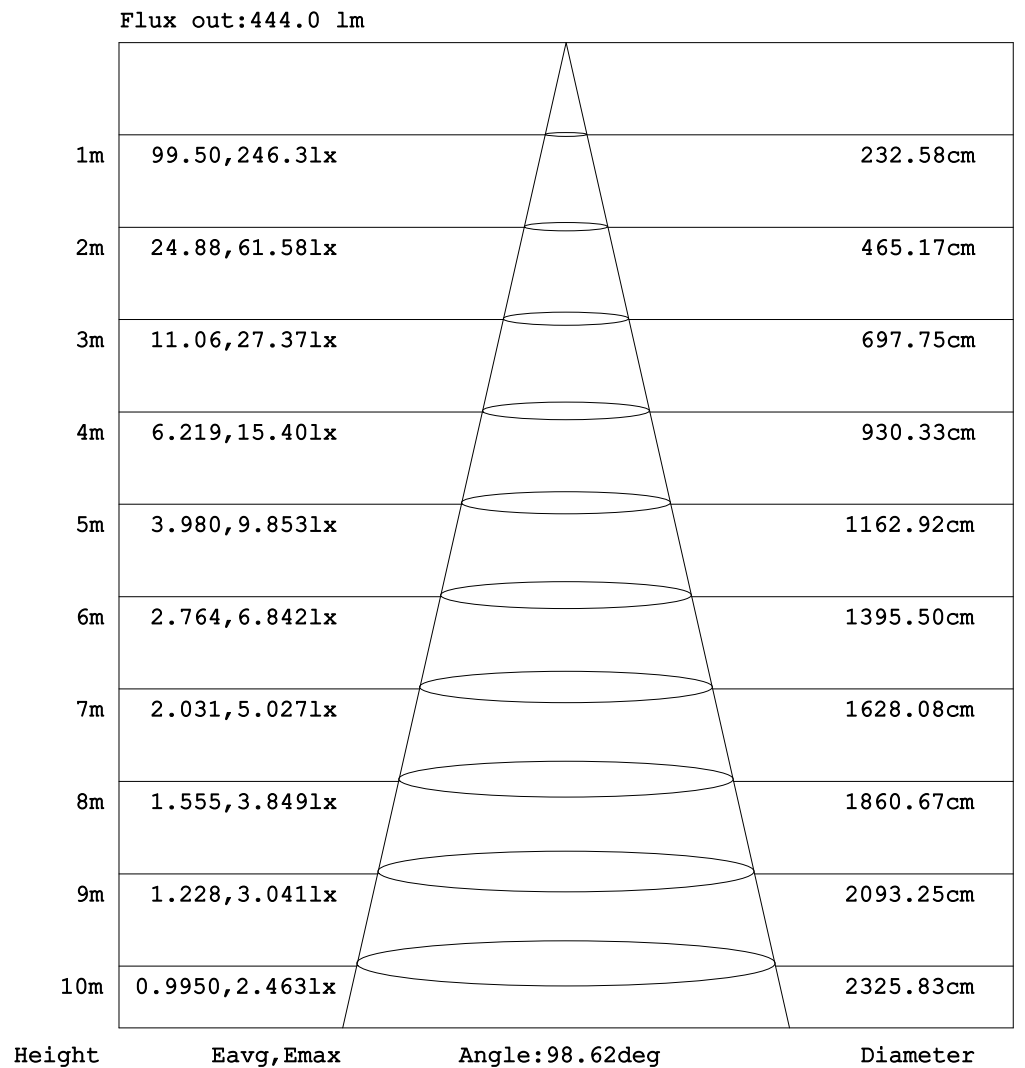


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-04-15

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:0.0990A P:11.70W PF:0.9760 Freq:60.00Hz Lamp Flux:1095.76x1 lm		
NAME: LVS1R-14-12-95C-MVUD-BL 整灯 3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:14寸	Shielding Angle:

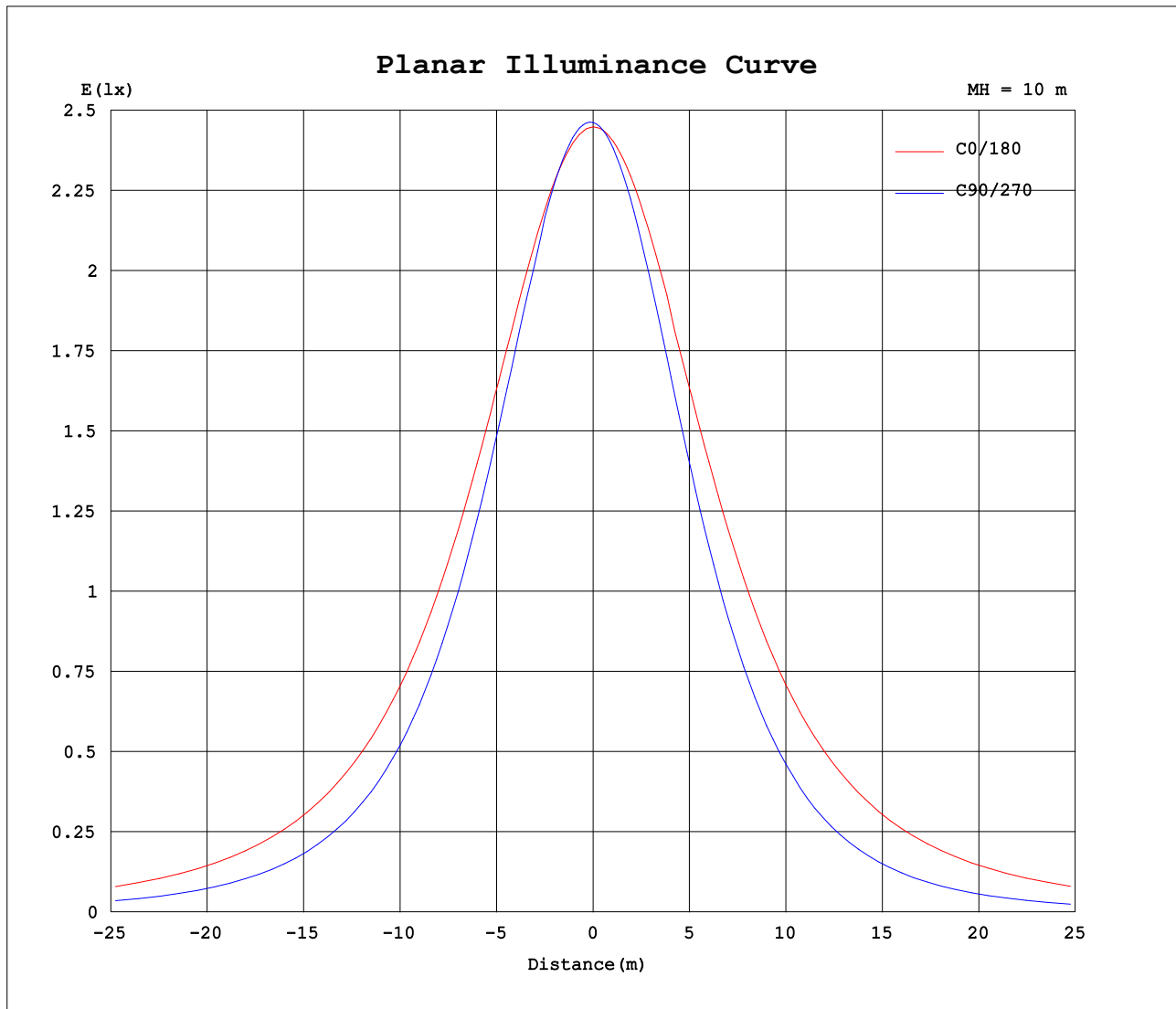


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:120.5V I:0.0990A P:11.70W PF:0.9760 Freq:60.00Hz Lamp Flux:1095.76x1 lm		
NAME: LVS1R-14-12-95C-MVUD-BL 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	245	245	246	246	246	245	245	245	246	246	246	245							
5	244	246	246	246	245	244	244	244	243	243	243	243							
10	242	244	243	242	241	242	243	240	238	237	239	240							
15	239	241	238	235	235	238	241	235	228	227	229	236							
20	235	237	231	224	226	230	237	229	218	215	219	230							
25	230	229	221	212	215	223	230	222	206	201	207	222							
30	224	222	210	197	202	214	224	213	193	185	193	213							
35	216	214	197	182	188	204	217	203	178	167	179	203							
40	208	204	183	165	172	194	209	193	163	149	163	192							
45	200	194	169	147	157	183	201	183	148	131	148	181							
50	190	184	154	130	141	171	191	172	133	111	132	170							
55	180	173	140	112	125	159	181	161	119	93.0	117	158							
60	170	161	126	94.7	109	148	171	150	105	75.2	103	147							
65	159	150	112	77.8	95.1	136	160	139	91.7	58.1	89.4	136							
70	148	139	99.0	61.7	81.7	125	150	128	79.8	42.1	77.4	126							
75	138	128	87.3	46.4	69.2	114	139	117	69.4	27.8	66.9	115							
80	128	117	76.7	32.7	58.1	104	129	108	60.5	16.0	58.0	105							
85	117	108	67.4	20.7	48.6	94.4	119	98.8	53.2	8.87	50.9	96.4							
90	107	98.2	59.3	11.8	40.9	85.5	109	90.5	47.4	7.85	45.2	88.3							
95	98.0	89.4	52.6	8.29	35.0	77.4	100.0	82.7	42.7	8.54	40.9	80.8							
100	89.4	81.0	46.6	7.26	30.4	69.0	91.0	75.6	39.0	9.64	37.6	74.1							
105	78.3	62.5	38.4	6.37	25.0	50.2	78.3	68.8	35.9	10.5	35.0	67.8							
110	68.5	52.1	27.4	5.49	17.3	42.8	67.8	62.6	33.5	11.4	33.2	62.0							
115	62.6	48.9	22.8	5.21	14.1	39.4	61.8	56.8	31.5	12.1	31.8	56.6							
120	57.2	45.7	21.2	4.92	13.3	36.4	56.2	51.7	29.9	12.9	30.8	51.9							
125	52.1	42.3	20.5	4.84	13.0	33.6	51.0	46.9	27.4	13.6	29.8	47.6							
130	47.2	38.6	19.3	4.56	12.9	30.8	45.7	42.4	25.8	14.1	28.3	43.6							
135	42.7	34.6	15.0	4.28	13.0	28.3	40.6	38.1	24.3	14.8	26.4	39.8							
140	38.8	30.8	10.9	4.07	13.1	25.3	35.9	32.8	22.8	15.3	25.1	36.5							
145	35.5	25.6	8.03	3.92	12.9	23.3	30.8	28.8	21.3	15.9	24.1	33.1							
150	31.7	19.1	5.88	3.87	12.4	21.4	26.7	25.3	19.7	16.4	23.1	29.5							
155	28.0	12.1	4.54	3.98	11.5	19.4	23.0	22.0	17.8	16.9	22.2	26.5							
160	24.9	6.89	4.18	4.18	11.0	17.1	19.6	19.1	16.3	17.2	21.1	24.1							
165	22.0	4.70	4.39	6.40	10.9	14.4	15.9	15.7	16.4	17.4	19.8	21.9							
170	16.6	4.35	7.78	9.64	11.7	13.3	5.94	13.9	16.4	17.4	18.4	19.6							
175	5.40	4.48	11.7	13.1	13.6	13.7	4.57	13.7	16.0	17.0	17.2	17.3							
180	4.49	10.4	14.8	15.9	15.7	15.2	4.49	10.3	14.8	15.8	15.8	15.2							

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: