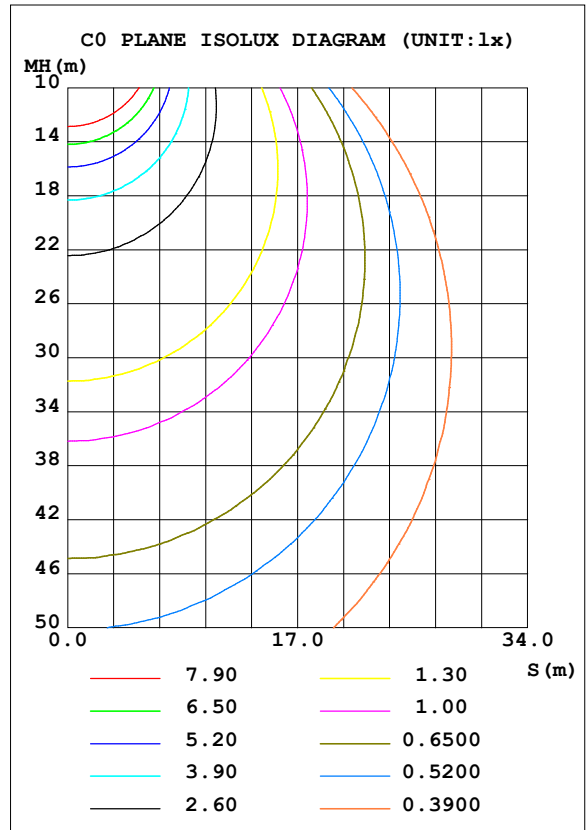
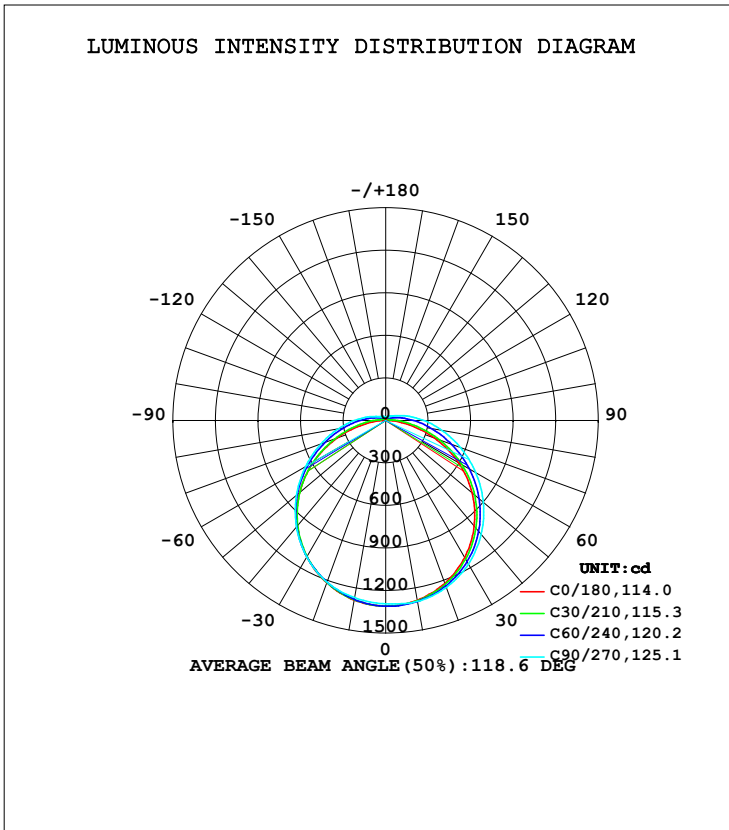


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.6V I:0.3280A P:39.10W PF:0.9870 Freq:60.00Hz Lamp Flux:4531.03x1 lm		
NAME: LSL1 (仓库模组) 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.: 48寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 115.88 lm/W			
MODEL		I <sub>max</sub> (cd)	1312	S/MH (C0/180)	1.26
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)		TOTAL FLUX (lm)	4531.0	η UP, DN (C0-180)	3.9, 47.7
NOMINAL FLUX (lm)	4531.03	CIE CLASS	DIRECT	η UP, DN (C180-360)	3.4, 44.9
LAMPS INSIDE	1	η up (%)	7.4	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)		η down (%)	92.6	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-01-09

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	1288	1294	1296	1293	1287	1282	1269	1284	0- 10	123.8	123.8	2.73,2.73
20	1222	1236	1253	1241	1219	1215	1213	1217	10- 20	356.3	480.1	10.6,10.6
30	1116	1139	1169	1153	1112	1111	1113	1110	20- 30	544.9	1025	22.6,22.6
40	972.0	1006	1048	1028	969.3	971.9	979.1	969.4	30- 40	666.2	1691	37.3,37.3
50	796.0	840.4	898.9	870.2	793.1	802.2	821.7	800.6	40- 50	704.9	2396	52.9,52.9
60	590.4	650.6	732.9	691.3	587.4	613.6	652.8	614.3	50- 60	658.9	3055	67.4,67.4
70	367.9	451.2	561.8	505.6	365.9	420.1	486.5	427.3	60- 70	540.1	3595	79.3,79.3
80	151.5	266.8	403.0	334.3	146.3	249.5	338.6	263.5	70- 80	378.2	3973	87.7,87.7
90	30.74	138.2	270.4	201.8	27.72	133.0	221.4	146.8	80- 90	223.1	4196	92.6,92.6
100	19.74	73.79	171.0	117.7	19.87	73.60	139.2	81.88	90-100	125.6	4322	95.4,95.4
110	16.94	45.00	104.4	69.49	18.57	47.15	85.18	51.36	100-110	72.72	4395	97,97
120	15.48	33.84	67.10	46.84	18.46	34.87	57.83	38.88	110-120	45.55	4440	98,98
130	15.62	29.01	47.66	35.54	18.98	29.01	44.48	33.05	120-130	31.39	4472	98.7,98.7
140	16.33	26.72	38.57	29.24	19.87	25.23	37.50	29.31	130-140	22.96	4494	99.2,99.2
150	17.96	25.02	33.15	25.29	21.02	23.13	31.48	26.13	140-150	16.62	4511	99.6,99.6
160	19.85	23.68	28.49	23.49	22.06	21.77	26.62	23.58	150-160	11.27	4522	99.8,99.8
170	21.69	22.79	24.63	22.10	22.63	21.86	22.41	22.35	160-170	6.519	4529	100,100
180	22.98	22.46	21.90	22.32	22.98	22.47	21.91	22.34	170-180	2.131	4531	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2044.2 lm

%lum = 45.1%  
%lamp = 45.1%

Conical surface Flux(120deg): 3055 lm

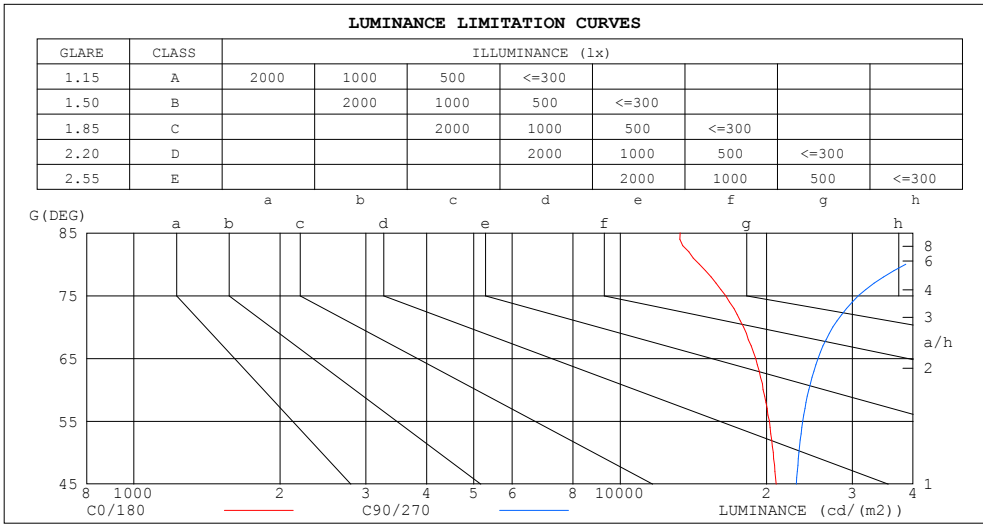
%lum = 67.4%  
%lamp = 67.4%

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2024-01-09

$\gamma$  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:120.6V I:0.3280A P:39.10W PF:0.9870 Freq:60.00Hz Lamp Flux:4531.03x1 lm		
NAME: LSL1 (仓库模组) 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.: 48寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	13293	63568
80	14545	38679
75	16469	30908
70	17930	27377
65	18997	25528
60	19681	24430
55	20262	23751
50	20639	23307
45	20921	23015

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2024-01-09

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:0.3280A P:39.10W PF:0.9870 Freq:60.00Hz Lamp Flux:4531.03x1 lm														
NAME: LSL1 (仓库模组) 整灯 4000K							TYPE:				WEIGHT:			
SPEC.:							DIM.:				SERIAL No.:			
MFR.: 革星							SUR.:48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	.350	.199	.063	.341	.194	.062	.323	.185	.059	.307	.177	.057	.292	.169	.055	
2.0	.314	.172	.053	.306	.168	.052	.290	.161	.050	.275	.155	.048	.262	.148	.047	
3.0	.284	.151	.045	.277	.148	.045	.263	.142	.043	.250	.137	.042	.237	.131	.041	
4.0	.259	.135	.040	.252	.132	.039	.239	.127	.038	.228	.122	.037	.217	.118	.036	
5.0	.237	.121	.035	.231	.119	.035	.220	.114	.034	.209	.110	.033	.199	.106	.032	
6.0	.219	.110	.031	.213	.108	.031	.203	.104	.030	.193	.100	.030	.184	.097	.029	
7.0	.202	.100	.028	.198	.098	.028	.188	.095	.027	.179	.092	.027	.171	.089	.026	
8.0	.188	.092	.026	.184	.091	.026	.175	.088	.025	.168	.085	.024	.160	.082	.024	
9.0	.176	.085	.024	.172	.084	.024	.164	.081	.023	.157	.079	.023	.150	.076	.022	
10.0	.165	.079	.022	.161	.078	.022	.154	.076	.021	.148	.073	.021	.141	.071	.020	

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	.247	.247	.247	.211	.211	.211	.144	.144	.144	.083	.083	.083	.026	.026	.026	
1.0	.240	.213	.188	.205	.182	.162	.140	.125	.112	.081	.073	.065	.026	.023	.021	
2.0	.232	.189	.152	.199	.163	.132	.136	.113	.092	.079	.065	.054	.025	.021	.018	
3.0	.225	.172	.130	.193	.148	.112	.132	.103	.079	.076	.060	.046	.025	.020	.015	
4.0	.217	.159	.115	.186	.137	.100	.128	.096	.070	.074	.056	.041	.024	.018	.014	
5.0	.209	.149	.104	.180	.129	.091	.124	.090	.064	.072	.053	.038	.023	.017	.012	
6.0	.202	.141	.096	.174	.122	.084	.120	.085	.059	.069	.050	.035	.022	.016	.012	
7.0	.195	.134	.091	.168	.116	.079	.116	.081	.056	.067	.048	.033	.022	.016	.011	
8.0	.188	.128	.087	.162	.111	.076	.112	.078	.054	.065	.046	.032	.021	.015	.011	
9.0	.182	.123	.083	.157	.107	.073	.109	.075	.052	.063	.044	.031	.021	.015	.010	
10.0	.176	.119	.081	.152	.103	.070	.105	.073	.050	.062	.043	.030	.020	.014	.010	

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-09

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:0.3280A P:39.10W PF:0.9870 Freq:60.00Hz Lamp Flux:4531.03x1 lm										
NAME: LSL1 (仓库模组) 整灯 4000K					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: 革星					SUR.: 48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	17.5	19.0	17.9	19.3	19.7	18.3	19.8	18.7	20.1	20.5
3H	19.0	20.4	19.4	20.8	21.2	20.4	21.8	20.8	22.2	22.6
4H	19.6	20.9	20.1	21.3	21.7	21.5	22.8	22.0	23.2	23.6
6H	20.1	21.3	20.5	21.7	22.1	22.7	23.9	23.2	24.3	24.8
8H	20.2	21.4	20.6	21.8	22.2	23.3	24.5	23.8	24.9	25.4
12H	20.3	21.4	20.7	21.8	22.3	24.1	25.2	24.5	25.6	26.1
4H 2H	18.3	19.6	18.7	19.9	20.4	18.9	20.2	19.3	20.6	21.0
3H	20.0	21.1	20.4	21.5	22.0	21.2	22.3	21.7	22.8	23.2
4H	20.7	21.7	21.2	22.2	22.7	22.5	23.5	22.9	24.0	24.4
6H	21.3	22.2	21.8	22.7	23.2	23.8	24.8	24.3	25.2	25.8
8H	21.5	22.3	22.0	22.8	23.4	24.6	25.4	25.1	25.9	26.5
12H	21.6	22.4	22.1	22.9	23.5	25.4	26.2	26.0	26.8	27.3
8H 4H	21.2	22.1	21.7	22.6	23.1	22.7	23.6	23.3	24.1	24.6
6H	22.0	22.7	22.5	23.2	23.8	24.3	25.1	24.9	25.6	26.2
8H	22.3	23.0	22.9	23.5	24.1	25.3	25.9	25.8	26.5	27.1
12H	22.6	23.1	23.2	23.7	24.3	26.4	26.9	26.9	27.5	28.1
12H 4H	21.3	22.2	21.9	22.7	23.2	22.7	23.5	23.3	24.0	24.6
6H	22.2	22.9	22.8	23.4	24.0	24.4	25.1	25.0	25.6	26.2
8H	22.6	23.2	23.2	23.8	24.4	25.4	26.0	26.0	26.6	27.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 4531 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.2)

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-09

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:0.3280A P:39.10W PF:0.9870 Freq:60.00Hz Lamp Flux:4531.03x1 lm		
NAME: LSL1 (仓库模组) 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

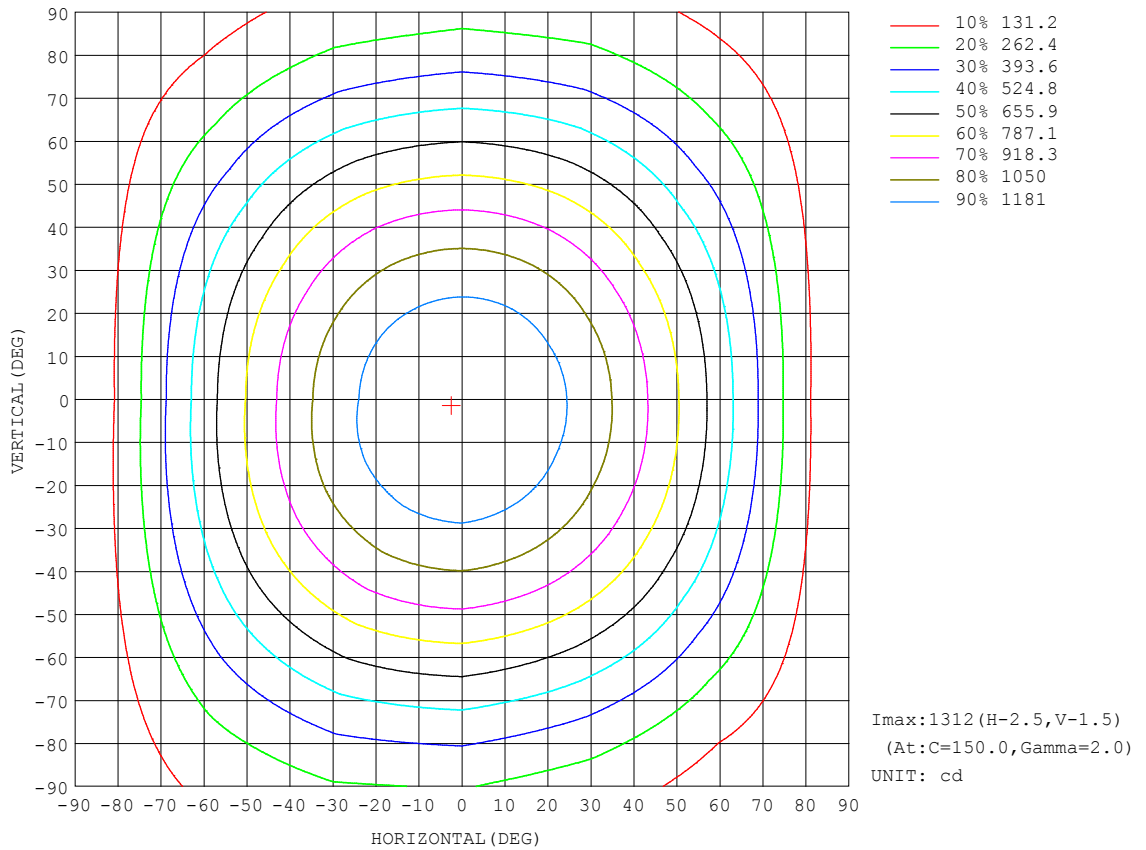
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	51	40	34	27
0.80	63	50	43	61	50	42	59	49	42	35
1.00	71	59	51	69	58	51	67	59	50	42
1.25	78	66	58	76	65	58	73	63	57	48
1.50	83	72	64	81	71	63	77	68	62	53
2.00	90	80	73	88	79	72	83	76	70	60
2.50	94	85	78	91	83	77	87	80	74	64
3.00	98	90	83	95	88	82	90	84	79	68
4.00	102	95	90	99	93	88	93	88	84	73
5.00	105	99	94	102	96	92	96	92	88	76
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:2024-01-09

$\gamma$  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:0.3280A P:39.10W PF:0.9870 Freq:60.00Hz Lamp Flux:4531.03x1 lm		
NAME: LSL1 (仓库模组) 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

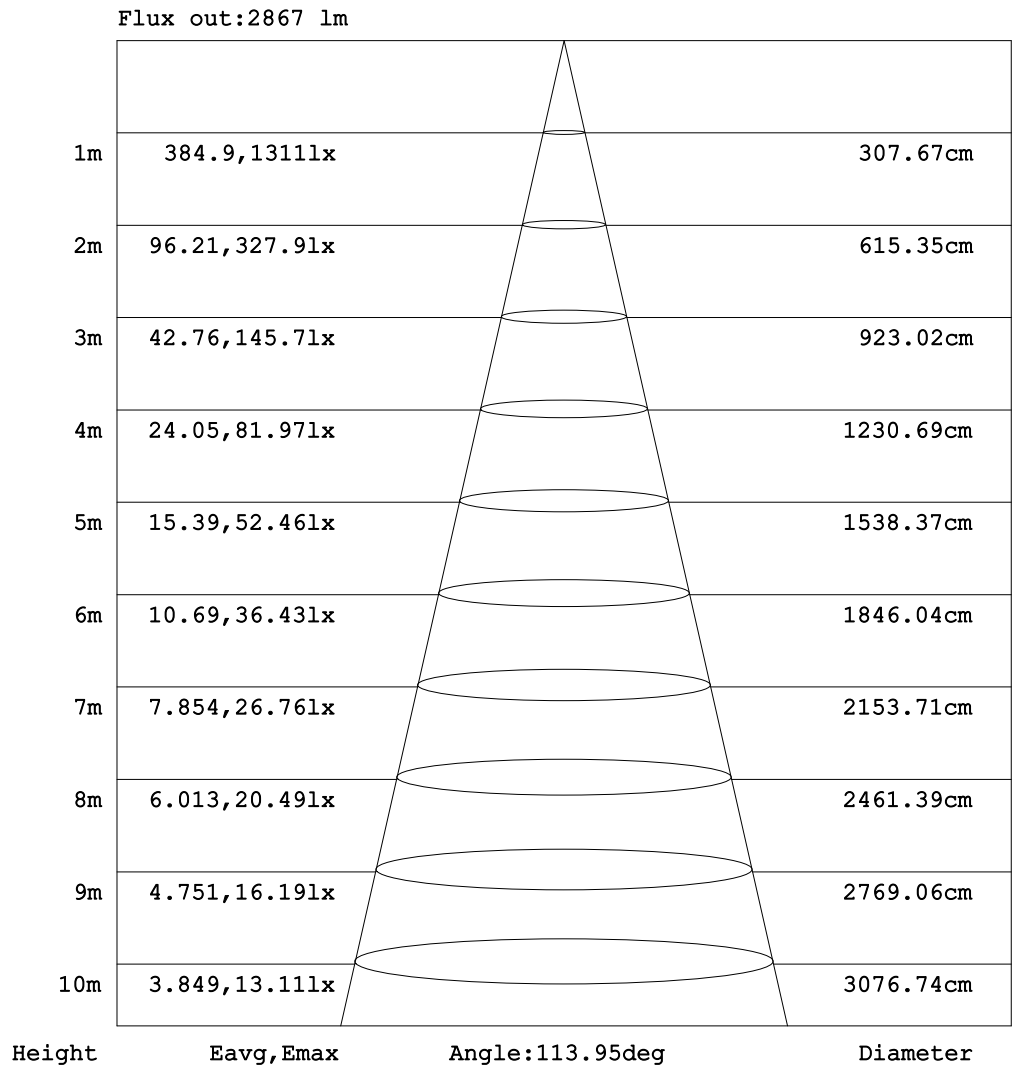


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-09

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:0.3280A P:39.10W PF:0.9870 Freq:60.00Hz Lamp Flux:4531.03x1 lm		
NAME: LSL1 (仓库模组) 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

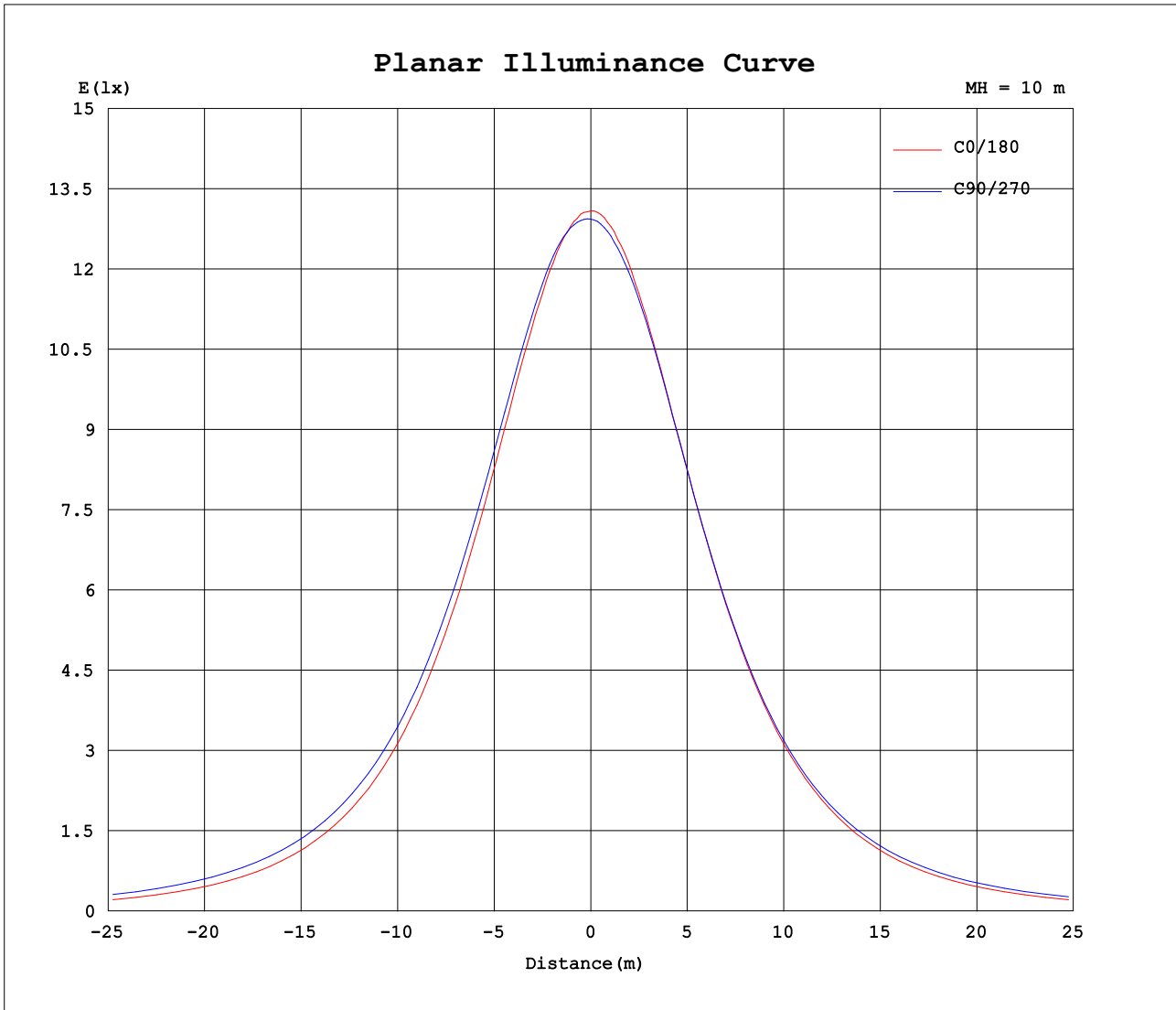


Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-09

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:2024-01-09

$\gamma$  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:120.6V I:0.3280A P:39.10W PF:0.9870 Freq:60.00Hz Lamp Flux:4531.03x1 lm		
NAME: LSL1 (仓库模组) 整灯 4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.: 48寸	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1309	1309	1309	1293	1309	1311	1309	1309	1309	1293	1309	1311							
5	1304	1304	1307	1297	1304	1310	1302	1302	1301	1285	1301	1303							
10	1288	1292	1296	1296	1289	1296	1287	1284	1281	1269	1283	1284							
15	1259	1266	1274	1281	1269	1273	1257	1255	1251	1247	1255	1256							
20	1222	1230	1242	1253	1242	1239	1219	1217	1213	1213	1217	1216							
25	1173	1184	1200	1216	1208	1196	1171	1164	1167	1168	1168	1167							
30	1116	1129	1150	1169	1162	1143	1112	1109	1112	1113	1112	1109							
35	1048	1064	1090	1112	1107	1082	1045	1041	1047	1050	1047	1041							
40	972	991	1021	1048	1043	1013	969	966	978	979	974	965							
45	888	909	943	976	970	934	885	882	898	903	895	880							
50	796	820	861	899	891	849	793	791	814	822	812	790							
55	697	723	773	817	808	758	695	694	726	738	724	694							
60	590	621	680	733	721	661	587	592	635	653	635	594							
65	482	513	588	647	634	563	479	488	544	568	547	493							
70	368	406	496	562	547	465	366	384	456	486	461	393							
75	256	302	408	480	463	370	253	286	375	409	381	301							
80	152	206	327	403	384	284	146	200	299	339	309	218							
85	69.5	130	256	332	314	210	64.7	132	235	276	245	152							
90	30.7	79.1	197	270	252	152	27.7	84.8	181	221	190	103							
95	22.9	50.8	150	216	199	109	22.0	57.5	139	176	148	71.9							
100	19.7	34.8	113	171	157	78.7	19.9	41.0	106	139	114	49.5							
105	18.0	28.3	83.4	135	122	58.3	19.0	34.1	79.3	108	86.0	40.0							
110	16.9	25.4	64.6	104	92.6	46.3	18.6	30.3	64.0	85.2	68.5	34.2							
115	16.0	24.0	52.7	82.9	74.4	38.5	18.4	27.5	53.1	69.3	56.5	31.2							
120	15.5	23.2	44.5	67.1	60.9	32.8	18.5	25.4	44.3	57.8	48.3	29.5							
125	15.4	22.6	39.3	55.6	51.3	29.1	18.6	23.9	39.5	49.9	42.8	28.1							
130	15.6	22.1	35.9	47.7	44.3	26.8	19.0	22.8	35.3	44.5	39.1	27.0							
135	15.9	21.8	33.6	42.2	39.8	25.2	19.4	21.8	31.8	40.7	36.3	25.9							
140	16.3	21.7	31.7	38.6	34.5	24.0	19.9	21.3	29.2	37.5	33.7	24.9							
145	17.1	21.7	30.0	35.7	30.8	22.9	20.4	21.0	27.0	34.5	31.3	24.1							
150	18.0	21.7	28.4	33.2	28.1	22.5	21.0	21.1	25.2	31.5	29.0	23.3							
155	18.9	21.7	26.9	30.7	25.7	22.5	21.5	21.2	23.6	29.0	26.8	22.6							
160	19.9	21.8	25.5	28.5	24.5	22.5	22.1	21.5	22.1	26.6	24.9	22.3							
165	20.8	22.0	24.3	26.4	22.9	22.5	22.4	21.8	21.6	24.5	23.2	22.3							
170	21.7	22.4	23.2	24.6	21.8	22.4	22.6	22.1	21.6	22.4	22.4	22.3							
175	22.5	22.7	22.6	23.1	21.4	22.7	22.9	22.5	21.7	20.8	21.8	22.5							
180	23.0	22.7	22.2	21.9	21.8	22.8	23.0	22.7	22.2	21.9	21.8	22.8							

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-09

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: