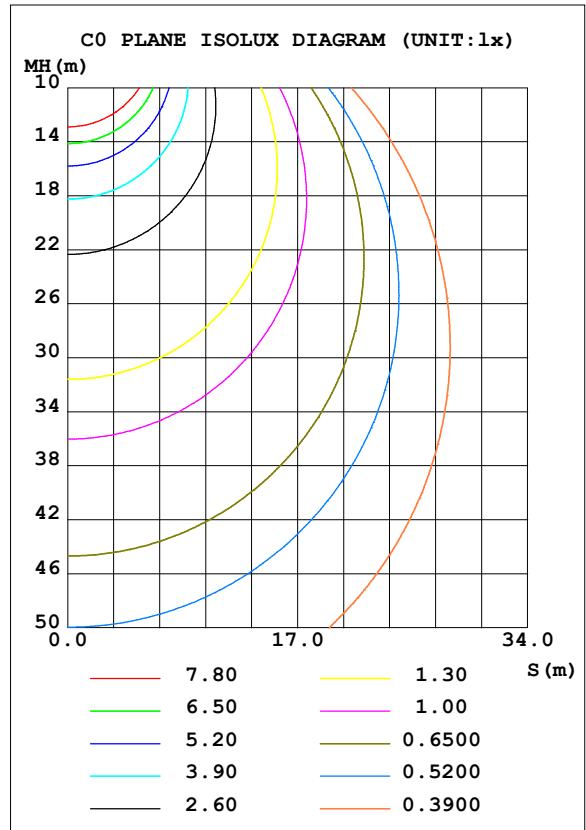
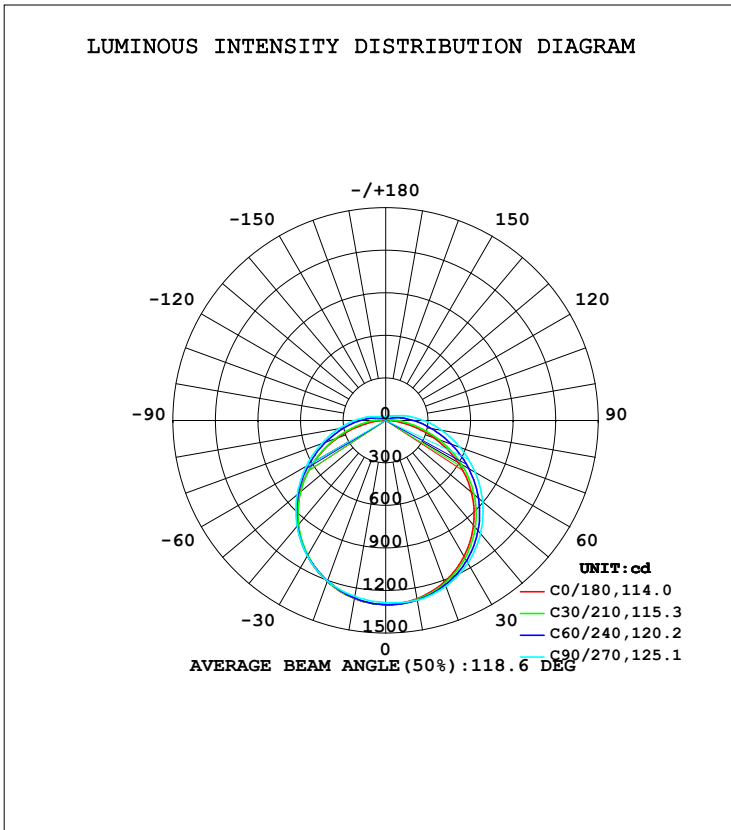


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.6V I:0.3250A P:38.70W PF:0.9870 Freq:60.00Hz Lamp Flux:4496.44x1 lm		
NAME: LSL1 (仓库模组) 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.: 48寸	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 116.19 lm/W			
MODEL		I <sub>max</sub> (cd)	1304	S/MH (C0/180)	1.26
NOMINAL POWER (W)		LOR (%)	100.0	S/MH (C90/270)	1.28
RATED VOLTAGE (V)		TOTAL FLUX (lm)	4496.4	η UP, DN (C0-180)	3.9, 47.8
NOMINAL FLUX (lm)	4496.44	CIE CLASS	DIRECT	η UP, DN (C180-360)	3.4, 44.8
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	1276	1283	1287	1284	1275	1272	1259	1276	0- 10	122.9	122.9	2.73,2.73
20	1212	1227	1244	1232	1209	1204	1204	1208	10- 20	353.7	476.5	10.6,10.6
30	1107	1131	1160	1146	1103	1101	1105	1103	20- 30	541.0	1018	22.6,22.6
40	964.5	998.6	1041	1021	960.8	962.5	971.2	963.0	30- 40	661.3	1679	37.3,37.3
50	789.8	834.4	893.1	865.1	786.6	794.7	815.0	795.0	40- 50	699.7	2379	52.9,52.9
60	587.5	646.7	727.8	687.1	583.7	606.9	647.2	609.7	50- 60	654.0	3033	67.4,67.4
70	365.7	448.4	558.2	502.3	362.0	415.5	481.8	424.4	60- 70	536.0	3569	79.4,79.4
80	150.8	265.2	399.9	332.2	145.2	246.5	335.3	261.3	70- 80	375.2	3944	87.7,87.7
90	30.62	137.2	268.3	200.3	27.54	130.7	219.0	145.4	80- 90	221.2	4165	92.6,92.6
100	19.62	73.13	169.6	116.8	19.73	72.54	137.8	81.16	90-100	124.4	4289	95.4,95.4
110	16.78	44.53	103.4	68.92	18.42	46.49	84.22	50.92	100-110	72.02	4361	97,97
120	15.40	33.56	66.43	46.45	18.36	34.34	57.24	38.54	110-120	45.09	4406	98,98
130	15.48	28.69	47.13	35.37	18.86	28.72	44.04	32.79	120-130	31.08	4438	98.7,98.7
140	16.19	26.44	38.14	28.96	19.74	24.91	37.16	29.10	130-140	22.72	4460	99.2,99.2
150	17.76	24.77	32.79	25.05	20.83	22.88	31.28	25.93	140-150	16.46	4477	99.6,99.6
160	19.70	23.44	28.21	23.30	21.89	21.69	26.31	23.39	150-160	11.17	4488	99.8,99.8
170	21.53	22.56	24.40	21.94	22.54	21.69	22.20	22.16	160-170	6.463	4494	100,100
180	22.80	22.27	21.72	22.16	22.81	22.28	21.74	22.18	170-180	2.114	4496	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 2029.2 lm

%lum = 45.1%

%lamp = 45.1%

Conical surface Flux(120deg): 3032.5 lm

%lum = 67.4%

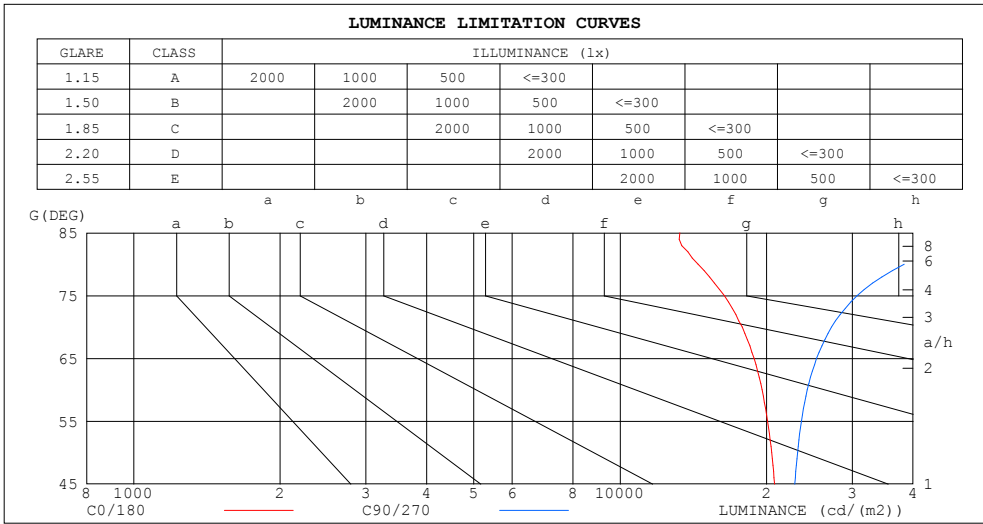
%lamp = 67.4%

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:0.3250A P:38.70W PF:0.9870 Freq:60.00Hz Lamp Flux:4496.44x1 lm		
NAME: LSL1 (仓库模组) 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.: 48寸	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	13259	63133
80	14470	38380
75	16364	30693
70	17823	27201
65	18861	25338
60	19582	24261
55	20097	23602
50	20477	23157
45	20763	22851

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:0.3250A P:38.70W PF:0.9870 Freq:60.00Hz Lamp Flux:4496.44x1 lm														
NAME: LSL1 (仓库模组) 整灯 3500K							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	.212	.188	.205	.182	.162	.140	.125	.112	.081	.073	.065	.026	.023	.021	
2.0	.232	.189	.152	.199	.163	.132	.136	.112	.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	.114	.186	.137	.099	.128	.096	.070	.074	.056	.041	.024	.018	.014	
5.0	.209	.149	.104	.180	.129	.090	.124	.090	.064	.072	.053	.038	.023	.017	.012	
6.0	.202	.140	.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	.075	.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	.061	.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:0.3250A P:38.70W PF:0.9870 Freq:60.00Hz Lamp Flux:4496.44x1 lm										
NAME: LSL1 (仓库模组) 整灯 3500K					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	19.1	20.4	19.5	20.8	21.2	20.4	21.8	20.8	22.2	22.6
4H	19.7	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	20.7	21.8	22.2	23.4	24.5	23.8	25.0	25.4
12H	20.3	21.4	20.7	21.9	22.3	24.1	25.2	24.5	25.6	26.1
4H 2H	18.3	19.6	18.7	20.0	20.4	18.9	20.2	19.3	20.6	21.0
3H	20.0	21.1	20.4	21.6	22.0	21.2	22.3	21.7	22.8	23.2
4H	20.7	21.8	21.2	22.2	22.7	22.5	23.5	23.0	24.0	24.5
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	22.2	22.9	23.5	25.4	26.2	26.0	26.8	27.3
8H 4H	21.2	22.1	21.8	22.6	23.1	22.7	23.6	23.3	24.1	24.7
6H	22.0	22.7	22.6	23.3	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	24.4	26.4	26.9	27.0	27.5	28.1
12H 4H	21.4	22.2	21.9	22.7	23.2	22.7	23.5	23.3	24.1	24.6
6H	22.2	22.9	22.8	23.5	24.1	24.4	25.1	25.0	25.6	26.2
8H	22.7	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, 4496 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:0.3250A P:38.70W PF:0.9870 Freq:60.00Hz Lamp Flux:4496.44x1 lm		
NAME: LSL1 (仓库模组) 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

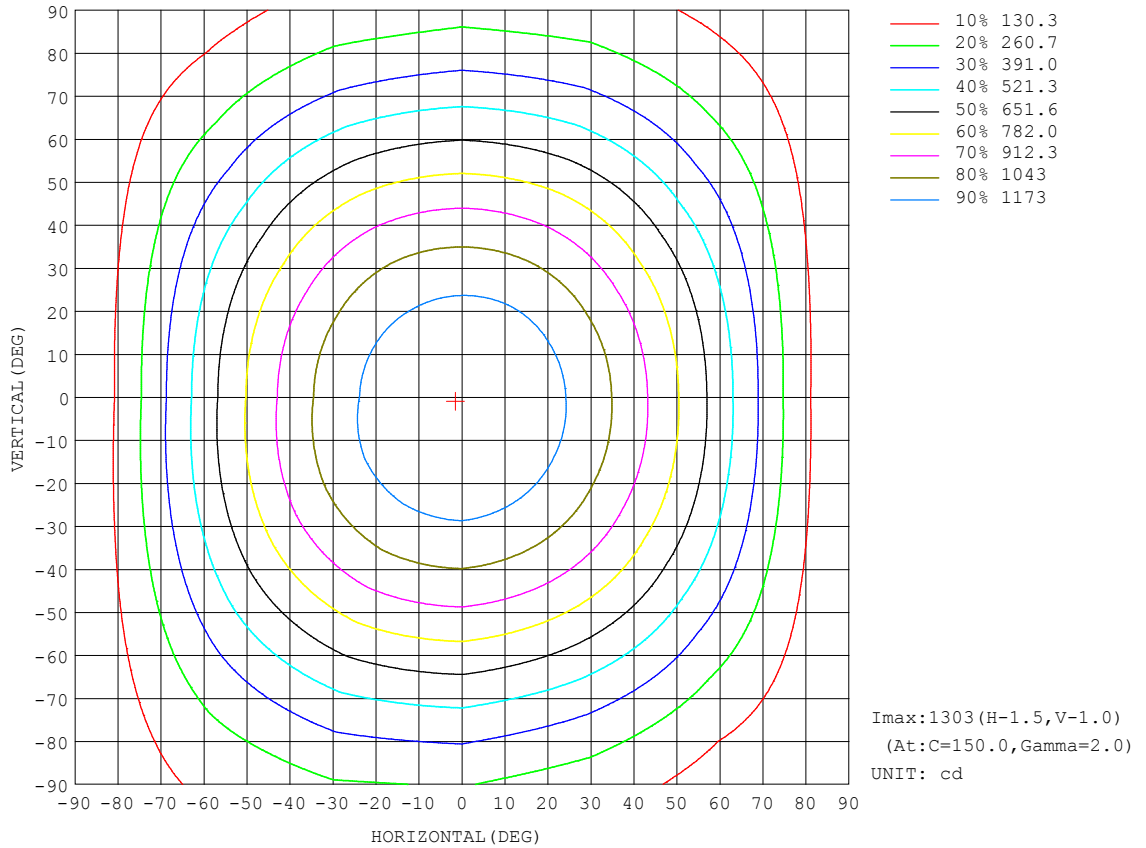
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	41	34	52	41	34	51	40	34	27
0.80	63	50	43	61	50	42	59	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	94	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:0.3250A P:38.70W PF:0.9870 Freq:60.00Hz Lamp Flux:4496.44x1 lm		
NAME: LSL1 (仓库模组) 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

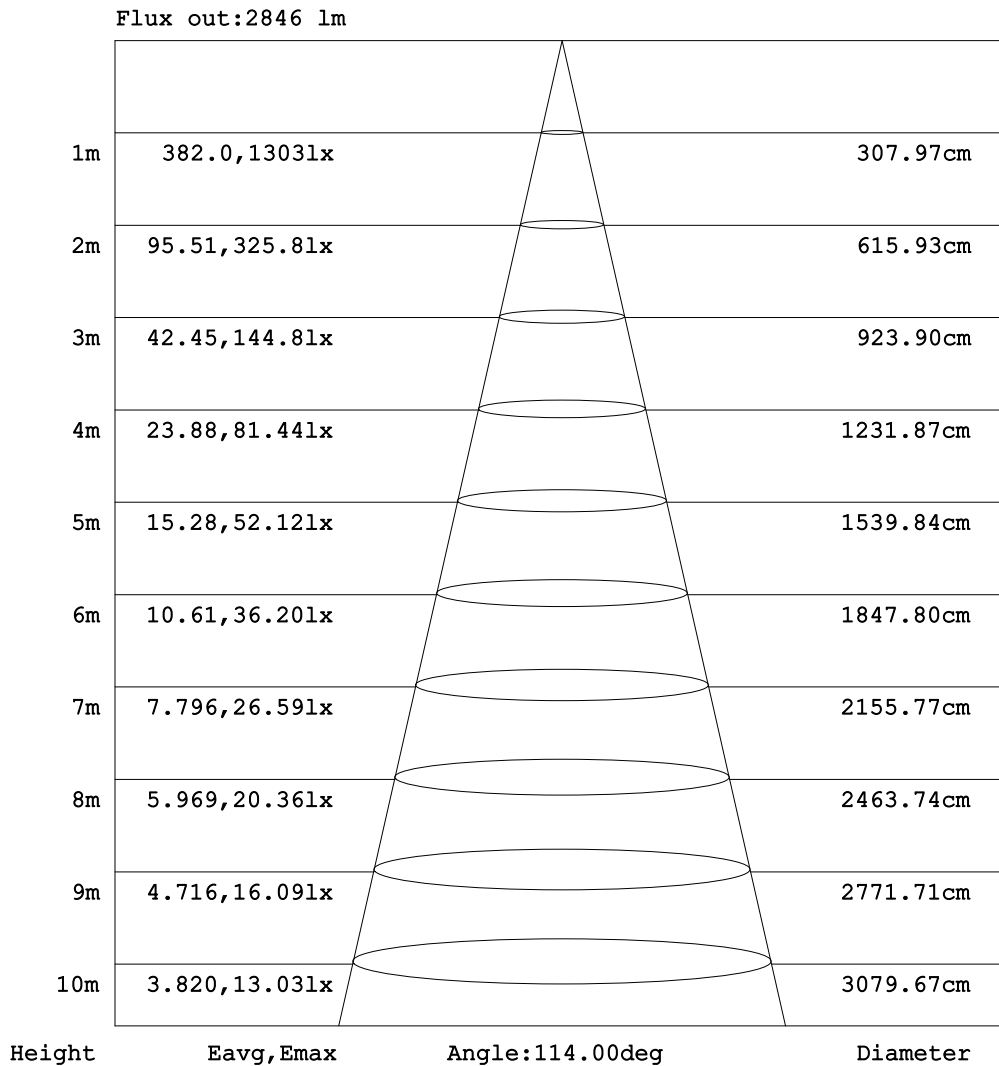


C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2024-01-09

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:0.3250A P:38.70W PF:0.9870 Freq:60.00Hz Lamp Flux:4496.44x1 lm		
NAME: LSL1 (仓库模组) 整灯 3500K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: 革星	SUR.:48寸	Shielding Angle:

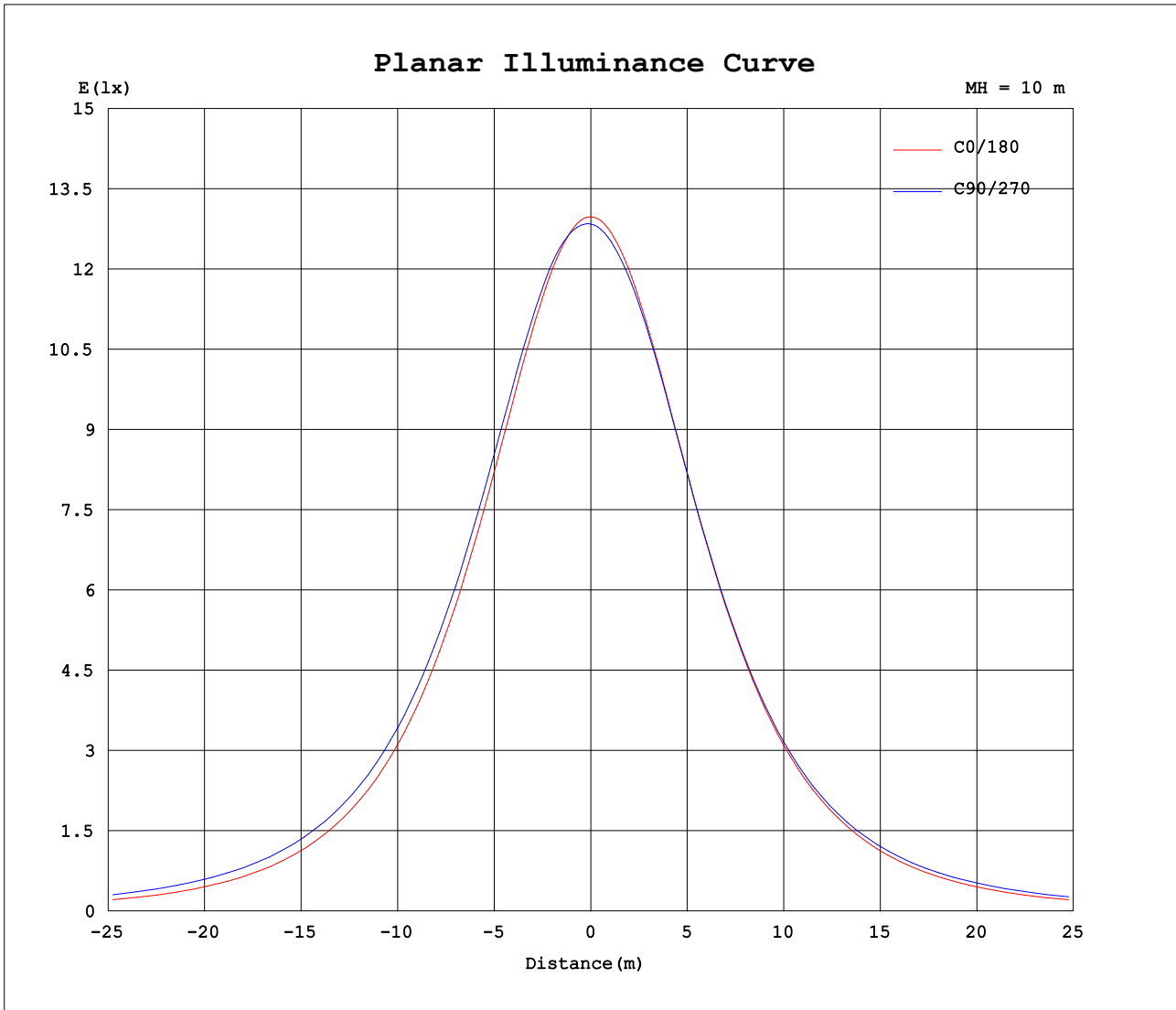


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.3250A P:38.70W PF:0.9870 Freq:60.00Hz Lamp Flux:4496.44x1 lm		
NAME: LSL1 (仓库模组) 整灯 3500K	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	1298	1299	1300	1284	1300	1303	1298	1299	1300	1284	1300	1303						
5	1293	1295	1298	1288	1295	1301	1292	1291	1291	1275	1293	1295						
10	1276	1281	1286	1287	1281	1288	1275	1273	1271	1259	1275	1277						
15	1249	1256	1264	1271	1261	1264	1247	1245	1241	1237	1246	1247						
20	1212	1221	1233	1244	1234	1231	1209	1206	1203	1204	1208	1208						
25	1164	1176	1192	1207	1200	1188	1161	1157	1157	1160	1162	1159						
30	1107	1121	1142	1160	1155	1136	1103	1099	1103	1105	1104	1101						
35	1040	1056	1082	1105	1100	1075	1036	1032	1040	1042	1039	1034						
40	965	983	1014	1041	1036	1006	961	956	969	971	968	958						
45	881	902	937	969	964	929	877	873	890	896	888	875						
50	790	814	855	893	886	845	787	783	806	815	806	784						
55	692	719	768	812	802	753	689	686	718	732	719	689						
60	587	617	676	728	717	658	584	585	628	647	630	590						
65	478	511	584	642	629	559	474	482	539	563	542	489						
70	366	404	493	558	543	461	362	379	452	482	458	391						
75	254	300	405	477	460	368	251	282	370	405	378	298						
80	151	205	325	400	382	283	145	196	296	335	306	217						
85	69.3	130	255	330	312	208	63.9	130	232	273	243	151						
90	30.6	78.7	196	268	250	151	27.5	83.2	178	219	188	102						
95	22.8	50.4	149	214	198	109	21.8	56.4	137	174	146	71.3						
100	19.6	34.4	112	170	156	78.1	19.7	40.3	105	138	113	49.1						
105	17.8	28.0	82.6	134	121	58.0	18.8	33.6	78.3	107	85.2	39.7						
110	16.8	25.2	63.9	103	91.9	46.0	18.4	29.9	63.1	84.2	67.9	33.9						
115	15.9	23.7	52.2	82.0	73.7	38.3	18.3	27.2	52.1	68.6	56.0	31.0						
120	15.4	22.9	44.2	66.4	60.3	32.6	18.4	24.9	43.8	57.2	47.8	29.2						
125	15.3	22.3	38.9	55.1	50.8	28.8	18.5	23.5	39.1	49.3	42.4	27.9						
130	15.5	21.9	35.5	47.1	44.1	26.6	18.9	22.6	34.9	44.0	38.8	26.8						
135	15.7	21.6	33.2	41.8	38.4	25.0	19.3	21.8	31.6	40.3	36.0	25.7						
140	16.2	21.5	31.4	38.1	34.1	23.8	19.7	21.0	28.8	37.2	33.4	24.8						
145	16.9	21.5	29.7	35.4	30.4	22.7	20.2	20.8	26.6	34.0	31.0	23.9						
150	17.8	21.5	28.1	32.8	27.8	22.3	20.8	20.9	24.9	31.3	28.7	23.1						
155	18.7	21.5	26.6	30.4	25.5	22.3	21.4	20.9	23.3	28.7	26.6	22.4						
160	19.7	21.6	25.3	28.2	24.3	22.3	21.9	21.3	22.1	26.3	24.6	22.2						
165	20.6	21.8	24.0	26.2	22.8	22.3	22.3	21.6	21.3	24.3	23.0	22.1						
170	21.5	22.2	22.9	24.4	21.6	22.3	22.5	22.0	21.4	22.2	22.2	22.1						
175	22.3	22.5	22.4	22.9	21.2	22.5	22.7	22.3	21.5	20.7	21.7	22.3						
180	22.8	22.5	22.0	21.7	21.7	22.7	22.8	22.6	22.0	21.7	21.7	22.7						

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: