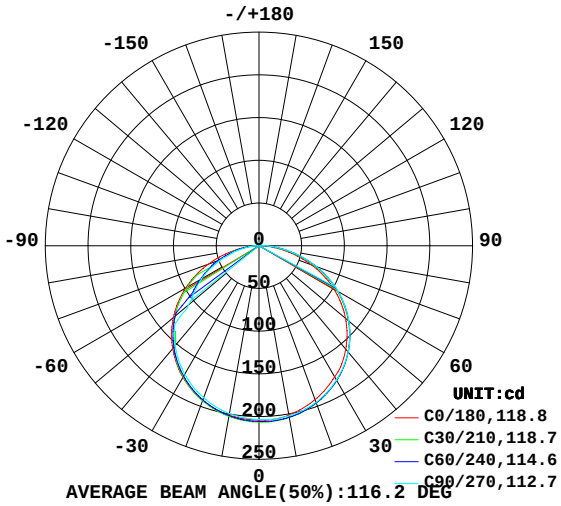
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 软灯条	TYPE:	WEIGHT:
SPEC.:LWF-NS-132467W120-1018	DIM.: 0.5	SERIAL No.:
MFR.: LEDWIDE LIGHTING CO., LTD	SUR.:0.01*0.5	Shielding Angle:

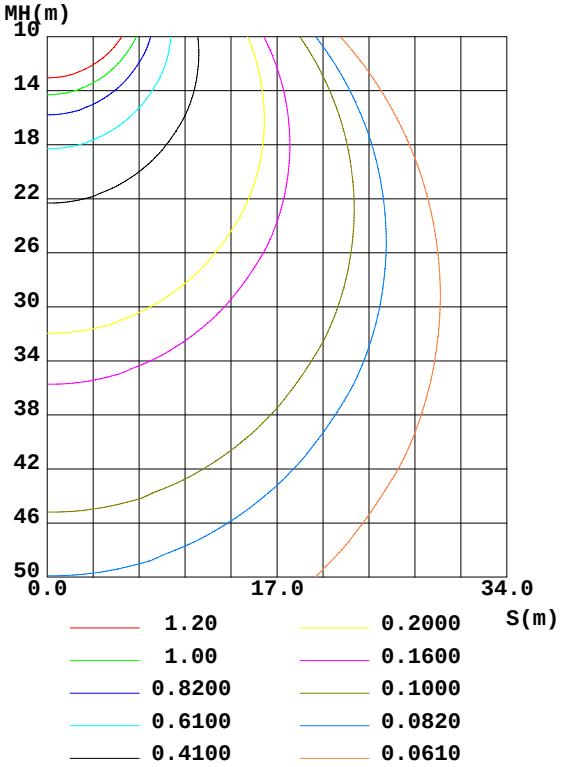
DATA OF LAMP		PHOTOMETRIC DATA Eff: 92.12 lm/W			
FEN14WS-P7-0[illegible]HZ930 24V120S 1018L0.5		Imax(cd)	207.1	S/MH(C0/180)	1.29
NOMINAL POWER(W)	6.85	LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	631.32	η UP,DN(C0-180)	1.0,51.7
NOMINAL FLUX(lm)	631.32	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.8,46.4
LAMPS INSIDE	1	η up(%)	1.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	98.1	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):116.2 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:12.586m [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	200.9	204.1	202.3	203.4	201.4	202.1	199.5	202.2	0- 10	19.47	19.47	3.08,3.08
20	191.7	196.2	195.1	195.3	192.7	192.3	189.4	192.6	10- 20	56.15	75.62	12,12
30	177.3	182.3	181.5	181.2	177.9	176.7	173.8	177.4	20- 30	86.25	161.9	25.6,25.6
40	158.0	162.8	162.3	161.3	157.2	155.3	152.8	156.4	30- 40	106.0	267.9	42.4,42.4
50	132.2	137.5	137.3	135.7	130.8	128.3	108.1	129.7	40- 50	112.3	380.2	60.2,60.2
60	101.2	106.5	106.8	104.7	99.11	77.95	77.74	73.23	50- 60	100.8	481.1	76.2,76.2
70	65.25	70.50	71.58	68.98	63.12	43.53	47.17	42.35	60- 70	77.04	558.1	88.4,88.4
80	28.65	34.18	35.04	32.02	26.67	18.41	19.68	16.66	70- 80	45.83	604.0	95.7,95.7
90	1.300	7.529	8.339	5.565	1.856	2.565	2.580	1.715	80- 90	15.56	619.5	98.1,98.1
100	0.8046	0.9353	1.481	0.6902	0.7233	0.7392	0.7808	0.7305	90-100	1.810	621.3	98.4,98.4
110	1.363	1.224	1.116	1.183	1.142	1.166	1.183	1.166	100-110	1.053	622.4	98.6,98.6
120	1.881	1.865	1.700	1.783	1.536	1.577	1.569	1.569	110-120	1.443	623.8	98.8,98.8
130	2.275	2.382	2.381	2.300	1.881	1.881	1.914	1.873	120-130	1.712	625.5	99.1,99.1
140	2.489	2.538	2.874	2.571	2.251	2.398	2.226	2.144	130-140	1.767	627.3	99.4,99.4
150	2.505	2.727	2.875	2.809	2.645	2.661	2.547	2.480	140-150	1.595	628.9	99.6,99.6
160	2.645	2.932	2.858	3.097	3.039	2.817	2.957	2.833	150-160	1.279	630.2	99.8,99.8
170	2.874	3.015	2.965	3.113	3.360	3.137	3.236	3.146	160-170	0.8411	631.0	100,100
180	3.376	3.335	3.360	3.302	3.433	3.310	3.392	3.294	170-180	0.3030	631.3	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 324.25 lm

%lum = 51.4%
%lamp = 51.4%

Conical surface Flux(120deg): 481.08 lm

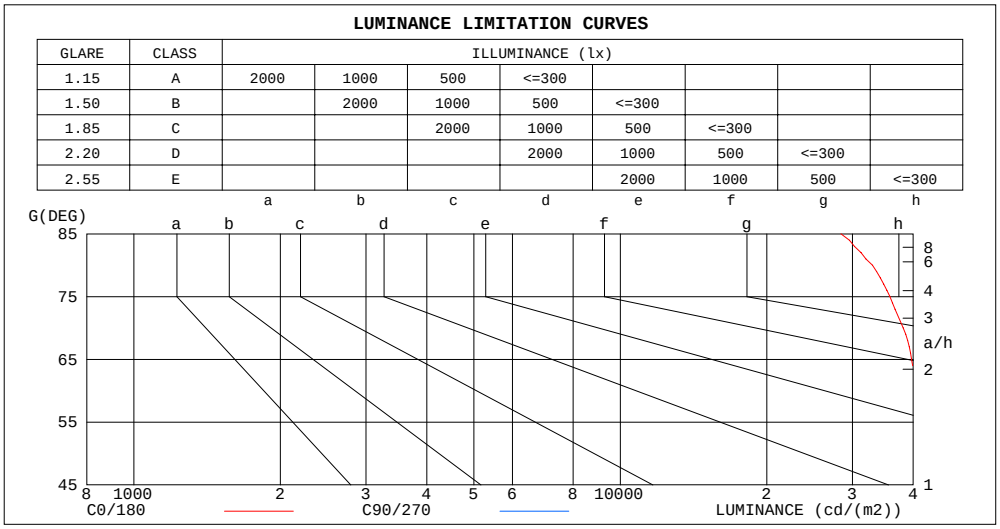
%lum = 76.2%
%lamp = 76.2%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:12.586m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: 软灯条	TYPE:	WEIGHT:
SPEC.:LWF-NS-132467W120-1018	DIM.: 0.5	SERIAL No.:
MFR.: LEDWIDE LIGHTING CO., LTD	SUR.:0.01*0.5	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	28416	43867
80	32993	40353
75	35819	40980
70	38156	41858
65	39688	42436
60	40492	42716
55	40924	42782
50	41145	42714
45	41264	42563

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:12.586m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: 软灯条	TYPE:	WEIGHT:
SPEC.:LWF-NS-132467W120-1018	DIM.: 0.5	SERIAL No.:
MFR.: LEDWIDE LIGHTING CO., LTD	SUR.:0.01*0.5	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.318	.181	.057	.311	.177	.056	.296	.170	.054	.283	.163	.052	.271	.157	.051	
2.0	.297	.163	.050	.290	.160	.049	.277	.154	.048	.266	.149	.047	.255	.144	.045	
3.0	.273	.146	.044	.267	.143	.043	.256	.139	.042	.246	.135	.041	.236	.131	.040	
4.0	.252	.131	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.218	.119	.036	
5.0	.232	.118	.034	.228	.117	.034	.219	.114	.034	.210	.111	.033	.202	.108	.033	
6.0	.215	.108	.031	.211	.107	.031	.203	.104	.030	.195	.102	.030	.188	.099	.029	
7.0	.200	.099	.028	.196	.098	.028	.189	.096	.028	.182	.093	.027	.176	.091	.027	
8.0	.187	.091	.026	.183	.090	.026	.177	.088	.025	.171	.087	.025	.165	.085	.025	
9.0	.175	.085	.024	.172	.084	.024	.166	.082	.023	.160	.080	.023	.155	.079	.023	
10.0	.164	.079	.022	.162	.078	.022	.156	.077	.022	.151	.075	.021	.147	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.205	.205	.205	.175	.175	.175	.119	.119	.119	.069	.069	.069	.022	.022	.022	
1.0	.195	.170	.148	.167	.146	.127	.114	.101	.088	.066	.058	.051	.021	.019	.017	
2.0	.187	.146	.112	.160	.126	.097	.110	.087	.067	.063	.051	.040	.020	.016	.013	
3.0	.180	.129	.088	.154	.111	.077	.106	.077	.054	.061	.045	.032	.020	.015	.010	
4.0	.172	.116	.073	.148	.100	.063	.102	.070	.044	.059	.041	.026	.019	.013	.009	
5.0	.165	.105	.062	.141	.091	.054	.097	.064	.038	.056	.037	.022	.018	.012	.007	
6.0	.157	.097	.054	.135	.084	.047	.093	.059	.033	.054	.035	.020	.017	.011	.006	
7.0	.151	.090	.048	.130	.078	.042	.090	.055	.029	.052	.032	.018	.017	.011	.006	
8.0	.144	.084	.043	.124	.073	.038	.086	.051	.027	.050	.030	.016	.016	.010	.005	
9.0	.138	.079	.040	.119	.069	.035	.082	.048	.025	.048	.029	.015	.016	.009	.005	
10.0	.132	.075	.037	.114	.065	.032	.079	.046	.023	.046	.027	.014	.015	.009	.005	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
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Operators:
Test Date:2019-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:12.586m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: 软灯条	TYPE:	WEIGHT:
SPEC.:LWF-NS-132467W120-1018	DIM.: 0.5	SERIAL No.:
MFR.: LEDWIDE LIGHTING CO., LTD	SUR.:0.01*0.5	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	27.6	29.1	27.9	29.3	29.5	27.7	29.3	28.0	29.5	29.7
	3H	29.2	30.6	29.5	30.9	31.1	29.5	30.9	29.8	31.2	31.4
	4H	29.8	31.2	30.2	31.5	31.8	30.3	31.6	30.6	31.9	32.2
	6H	30.3	31.6	30.7	31.9	32.2	30.9	32.1	31.2	32.4	32.7
	8H	30.5	31.7	30.9	32.0	32.4	31.1	32.3	31.5	32.6	33.0
	12H	30.6	31.8	31.0	32.1	32.4	31.3	32.4	31.7	32.8	33.1
4H	2H	28.3	29.6	28.6	29.9	30.2	28.4	29.7	28.8	30.0	30.3
	3H	30.1	31.3	30.5	31.6	31.9	30.4	31.5	30.7	31.8	32.2
	4H	30.9	32.0	31.3	32.3	32.7	31.2	32.3	31.6	32.7	33.0
	6H	31.5	32.5	32.0	32.9	33.3	32.0	32.9	32.4	33.3	33.7
	8H	31.7	32.6	32.2	33.0	33.5	32.3	33.2	32.7	33.6	34.0
	12H	31.9	32.7	32.4	33.1	33.6	32.6	33.4	33.0	33.8	34.2
8H	4H	31.3	32.1	31.7	32.5	33.0	31.6	32.4	32.0	32.8	33.3
	6H	32.1	32.8	32.5	33.2	33.7	32.5	33.2	33.0	33.7	34.1
	8H	32.4	33.0	32.9	33.5	34.0	32.9	33.6	33.4	34.0	34.5
	12H	32.7	33.2	33.2	33.7	34.2	33.3	33.9	33.8	34.3	34.9
12H	4H	31.3	32.1	31.8	32.5	33.0	31.6	32.4	32.0	32.8	33.3
	6H	32.2	32.8	32.7	33.3	33.8	32.6	33.2	33.1	33.7	34.2
	8H	32.6	33.1	33.1	33.6	34.1	33.1	33.6	33.6	34.1	34.6
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.1 / - 0.4					+ 0.1 / - 0.3				

CIE Pub.117, 631.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.6)

C Range: 0 - 360DEG
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Operators:
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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:12.586m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: 软灯条	TYPE:	WEIGHT:
SPEC.:LWF-NS-132467W120-1018	DIM.: 0.5	SERIAL No.:
MFR.: LEDWIDE LIGHTING CO., LTD	SUR.:0.01*0.5	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) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	44	37	31
0.80	66	54	47	65	54	47	63	53	46	39
1.00	75	63	56	73	63	56	71	64	55	48
1.25	82	71	64	80	70	63	77	69	62	55
1.50	87	77	70	85	76	69	82	74	68	60
2.00	94	85	78	92	84	77	88	81	76	67
2.50	98	90	83	96	88	82	91	85	80	72
3.00	101	94	88	99	92	87	94	89	85	76
4.00	105	99	94	103	97	93	98	94	90	81
5.00	108	103	98	105	101	97	100	97	93	84
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:12.586m [K=1.0000]
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ISOCANDELA DIAGRAM

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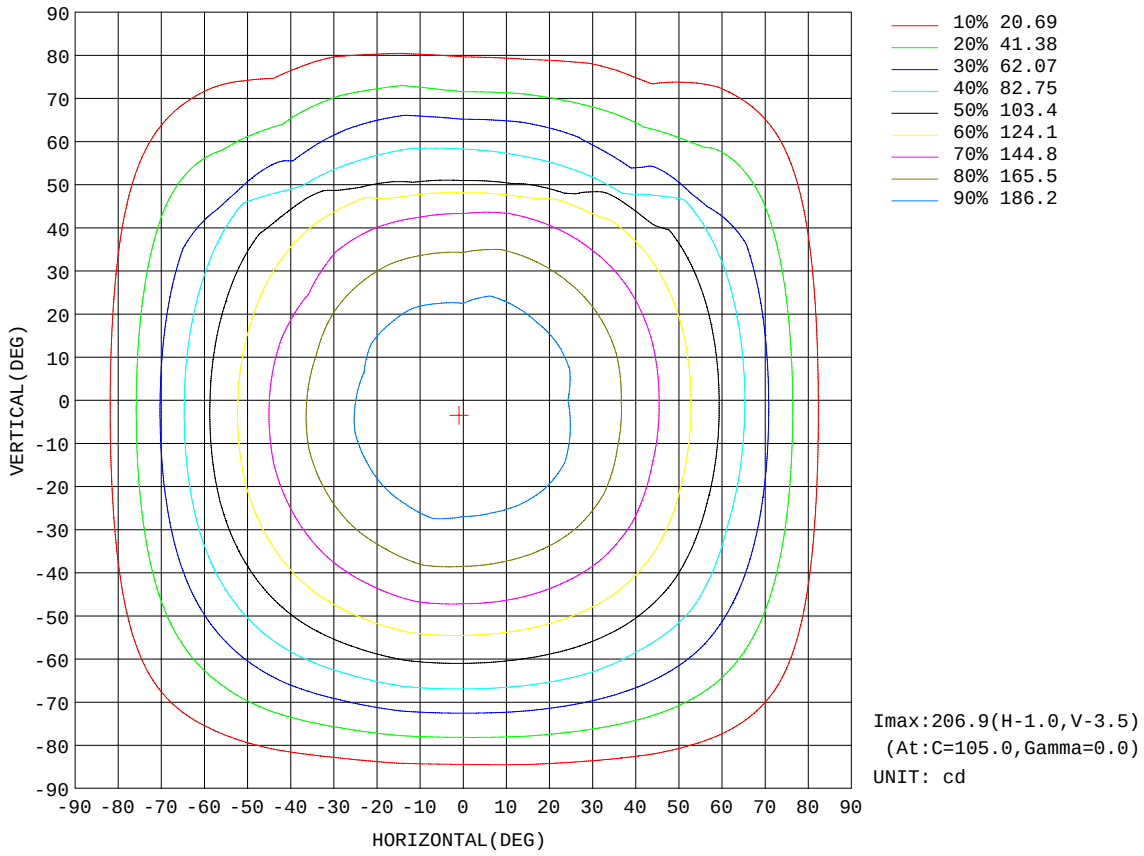
MFR.: LEDWIDE LIGHTING CO., LTD	SUR.:0.01*0.5	Shielding Angle:



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AAI Figure

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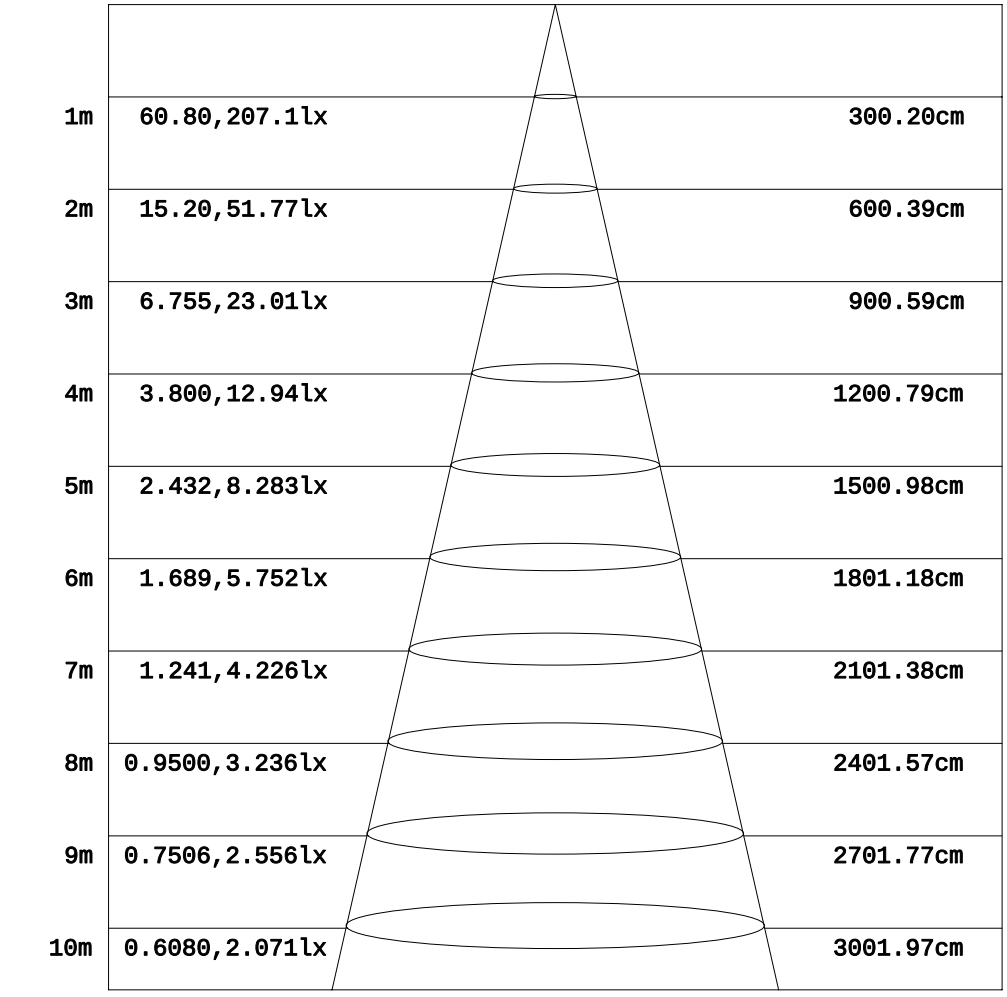

Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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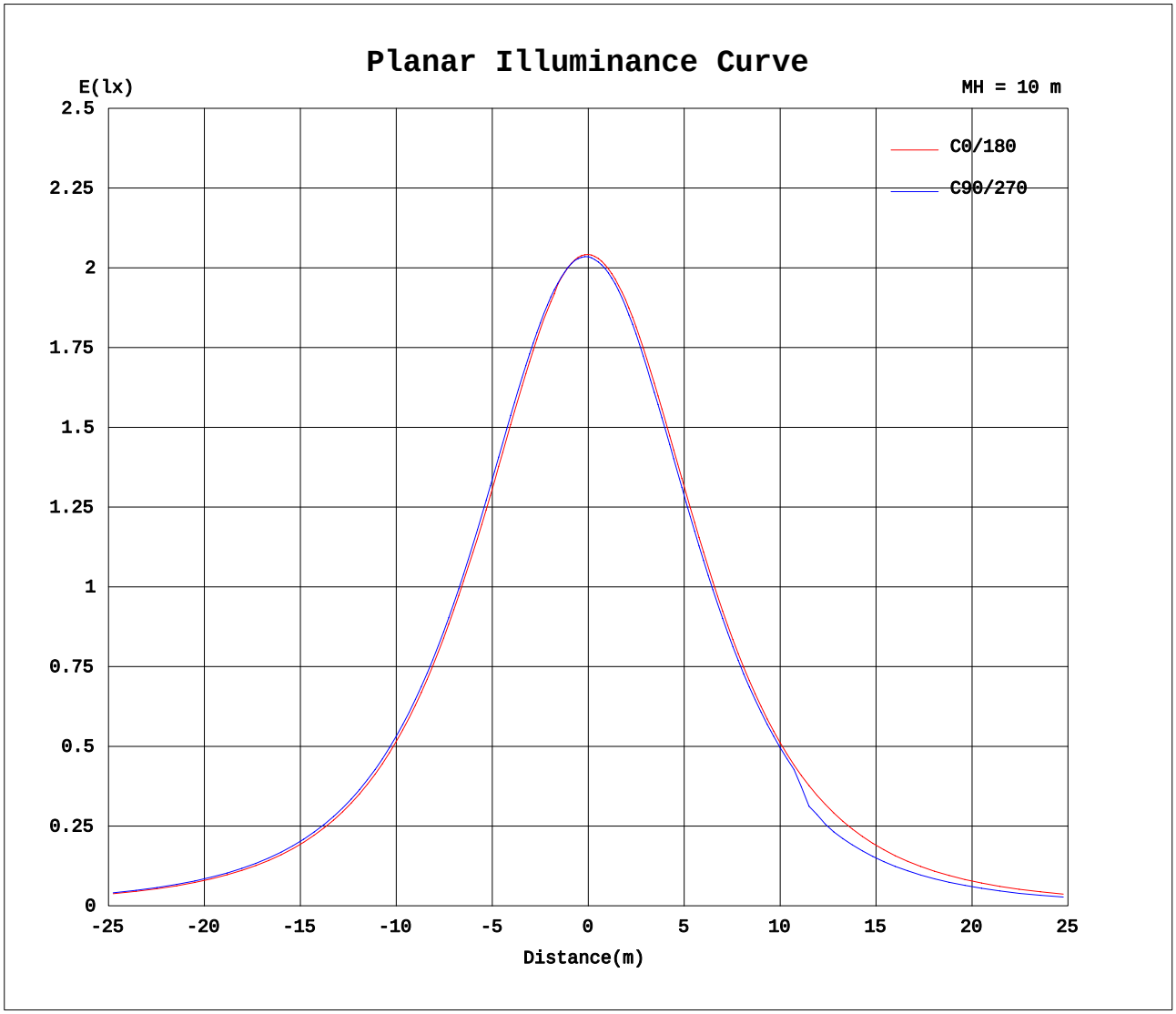
Remarks:

Planar Illuminance Curve



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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 软灯条	TYPE:	WEIGHT:
SPEC.:LWF-NS-132467W120-1018	DIM.: 0.5	SERIAL No.:
MFR.: LEDWIDE LIGHTING CO., LTD	SUR.:0.01*0.5	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	204	204	206	206	206	204	204	207	206	206	206	206	204	204	206	206	206	204	204
5	204	204	206	206	206	204	204	207	206	205	205	205	203	203	205	205	205	203	202
10	201	202	204	204	204	203	202	205	204	203	203	203	201	201	203	202	202	200	200
15	197	198	201	201	201	200	199	202	201	200	200	199	198	197	199	198	198	196	195
20	192	194	196	196	196	195	195	197	196	195	195	194	193	191	193	192	192	190	189
25	185	187	190	190	190	189	189	191	190	189	188	188	186	185	186	185	185	183	182
30	177	179	182	182	182	181	181	183	182	181	180	180	178	176	177	177	176	175	174
35	169	170	173	173	173	172	173	174	173	172	171	170	168	166	167	167	166	165	164
40	158	159	162	163	162	162	162	164	162	161	160	159	157	155	154	155	155	153	153
45	146	147	150	151	151	151	150	152	150	149	148	147	145	143	140	142	142	141	140
50	132	133	137	138	137	137	137	138	137	136	134	133	131	129	128	128	128	110	108
55	117	119	122	123	123	122	123	124	122	121	119	118	116	113	113	113	94.4	92.6	91.6
60	101	102	106	106	107	107	107	108	106	105	103	102	99.1	97.1	96.6	77.9	78.7	80.5	77.7
65	83.9	83.3	88.1	86.9	89.5	89.6	89.7	90.2	88.2	87.3	85.5	84.1	81.6	79.6	78.6	59.1	65.2	67.3	62.6
70	65.3	67.2	69.7	70.5	71.4	71.8	71.6	72.0	69.9	69.0	67.0	65.6	63.1	61.2	47.5	43.5	51.7	52.5	47.2
75	46.4	48.6	51.0	52.1	52.9	53.4	53.0	53.2	51.2	50.2	48.2	46.7	44.4	42.6	37.0	30.7	35.7	37.2	32.3
80	28.6	30.7	32.8	34.2	34.8	35.5	35.0	34.9	33.1	32.0	30.0	28.6	26.7	25.1	23.4	18.4	23.5	22.6	19.7
85	12.4	15.4	17.1	18.6	19.2	19.7	19.1	18.9	17.2	16.2	14.3	13.2	11.7	11.0	10.8	9.64	11.2	10.6	8.76
90	1.30	4.86	6.20	7.53	8.20	8.74	8.34	8.39	6.75	5.57	4.10	3.27	1.86	2.80	3.15	2.57	3.37	3.28	2.58
95	0.52	0.79	1.79	2.57	3.22	3.67	3.20	0.64	0.56	0.56	0.61	0.66	0.53	0.77	0.97	0.95	0.84	0.96	0.71
100	0.80	0.87	0.81	0.94	1.47	1.61	1.48	0.74	0.64	0.69	0.71	0.88	0.72	0.65	0.89	0.74	0.82	0.79	0.78
105	1.09	1.19	0.99	0.98	0.92	1.03	0.86	0.94	0.81	0.93	0.96	1.18	0.94	0.86	1.08	0.93	1.01	0.91	0.97
110	1.36	1.45	1.25	1.22	1.21	1.27	1.12	1.17	1.09	1.18	1.24	1.49	1.14	1.07	1.29	1.17	1.22	1.16	1.18
115	1.63	1.73	1.66	1.54	1.44	1.53	1.41	1.43	1.32	1.45	1.61	1.77	1.35	1.27	1.47	1.35	1.42	1.32	1.37
120	1.88	1.98	1.94	1.87	1.71	1.80	1.70	1.73	1.60	1.78	1.95	2.04	1.54	1.45	1.65	1.58	1.63	1.52	1.57
125	2.10	2.15	2.12	2.26	1.99	2.05	1.99	2.01	1.95	2.20	2.13	2.24	1.69	1.66	1.81	1.72	1.80	1.69	1.76
130	2.27	2.38	2.28	2.38	2.34	2.39	2.38	2.39	2.29	2.30	2.25	2.37	1.88	1.85	1.97	1.88	1.96	1.86	1.91
135	2.41	2.50	2.38	2.45	2.47	2.69	2.71	2.72	2.50	2.43	2.38	2.50	2.07	2.03	2.31	2.10	2.12	2.01	2.08
140	2.49	2.58	2.46	2.54	2.55	2.78	2.87	2.86	2.55	2.57	2.50	2.59	2.25	2.23	2.46	2.40	2.27	2.16	2.23
145	2.51	2.58	2.51	2.64	2.67	2.78	2.89	2.92	2.68	2.69	2.58	2.64	2.44	2.37	2.52	2.64	2.46	2.34	2.37
150	2.51	2.66	2.62	2.73	2.76	2.78	2.87	2.99	2.80	2.81	2.78	2.64	2.65	2.52	2.63	2.66	2.83	2.51	2.55
155	2.59	2.71	2.74	2.82	2.76	2.76	2.86	3.00	2.88	2.89	2.89	2.64	2.84	2.69	2.76	2.74	2.91	2.74	2.73
160	2.64	2.83	2.87	2.93	2.78	2.78	2.86	3.01	2.89	3.10	2.87	2.67	3.04	2.87	2.92	2.82	2.92	2.99	2.96
165	2.76	2.91	2.92	2.95	2.83	2.83	2.89	3.01	2.90	3.10	2.85	2.73	3.22	3.01	3.10	3.01	3.06	2.99	3.14
170	2.87	3.01	3.02	3.01	2.87	2.90	2.96	3.08	3.15	3.11	2.83	2.83	3.36	3.15	3.23	3.14	3.20	3.15	3.24
175	3.15	3.21	3.16	3.20	3.03	3.09	3.12	3.31	3.30	3.21	3.03	3.15	3.43	3.27	3.23	3.19	3.27	3.21	3.33
180	3.38	3.33	3.33	3.33	3.20	3.29	3.36	3.56	3.36	3.30	3.26	3.33	3.43	3.30	3.32	3.31	3.26	3.30	3.39

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:12.586m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 软灯条	TYPE:	WEIGHT:
SPEC.:LWF-NS-132467W120-1018	DIM.: 0.5	SERIAL No.:
MFR.: LEDWIDE LIGHTING CO., LTD	SUR.:0.01*0.5	Shielding Angle:

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	285	300	315	330	345														
0	207	206	206	206	206														
5	206	205	205	205	205														
10	203	202	202	203	203														
15	199	198	198	199	199														
20	193	193	193	193	194														
25	186	186	186	187	187														
30	178	177	177	178	179														
35	167	167	168	169	169														
40	156	156	156	158	158														
45	143	143	144	145	146														
50	107	129	130	131	132														
55	92.1	90.8	114	116	117														
60	76.9	73.6	73.2	99.2	100														
65	62.6	61.0	54.2	80.7	82.8														
70	46.8	46.1	42.4	46.7	64.1														
75	31.8	28.8	28.6	38.1	45.1														
80	19.1	19.8	16.7	24.2	26.9														
85	8.37	9.36	7.61	10.5	11.7														
90	2.54	2.24	1.71	2.90	2.63														
95	0.77	0.64	0.67	0.67	0.51														
100	0.74	0.81	0.73	0.86	0.64														
105	0.90	0.99	0.94	1.12	0.83														
110	1.12	1.21	1.17	1.32	1.04														
115	1.35	1.43	1.40	1.50	1.24														
120	1.56	1.63	1.57	1.63	1.43														
125	1.70	1.80	1.73	1.77	1.62														
130	1.86	1.93	1.87	1.94	1.81														
135	2.02	2.07	2.01	2.09	1.97														
140	2.17	2.22	2.14	2.25	2.14														
145	2.35	2.37	2.30	2.42	2.34														
150	2.49	2.56	2.48	2.60	2.51														
155	2.64	2.72	2.64	2.77	2.69														
160	2.84	2.91	2.83	2.93	2.87														
165	3.01	3.08	3.03	3.10	3.02														
170	3.18	3.21	3.15	3.22	3.17														
175	3.27	3.33	3.20	3.29	3.29														
180	3.54	3.39	3.29	3.30	3.32														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2019-12-12

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:12.586m [K=1.0000]
Remarks: