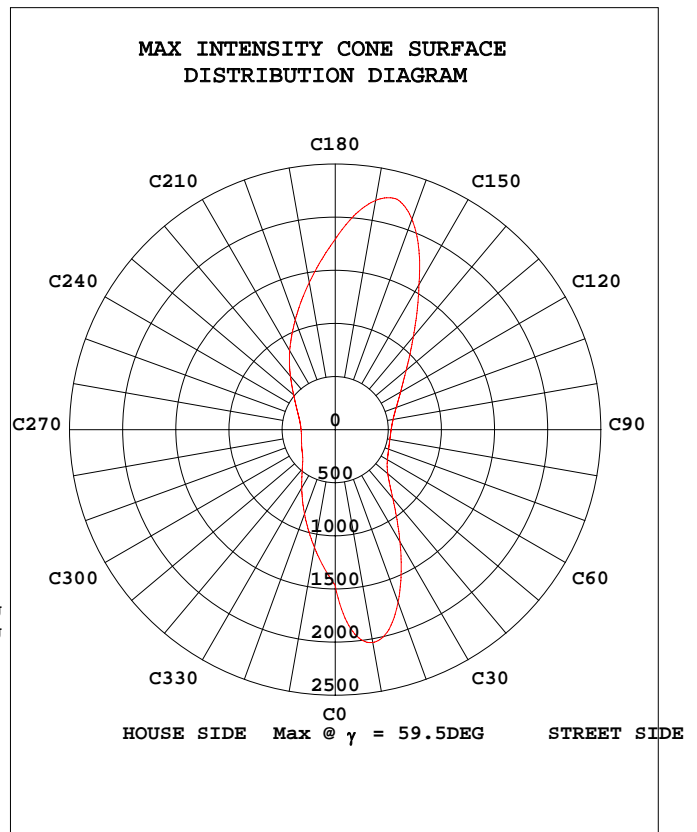
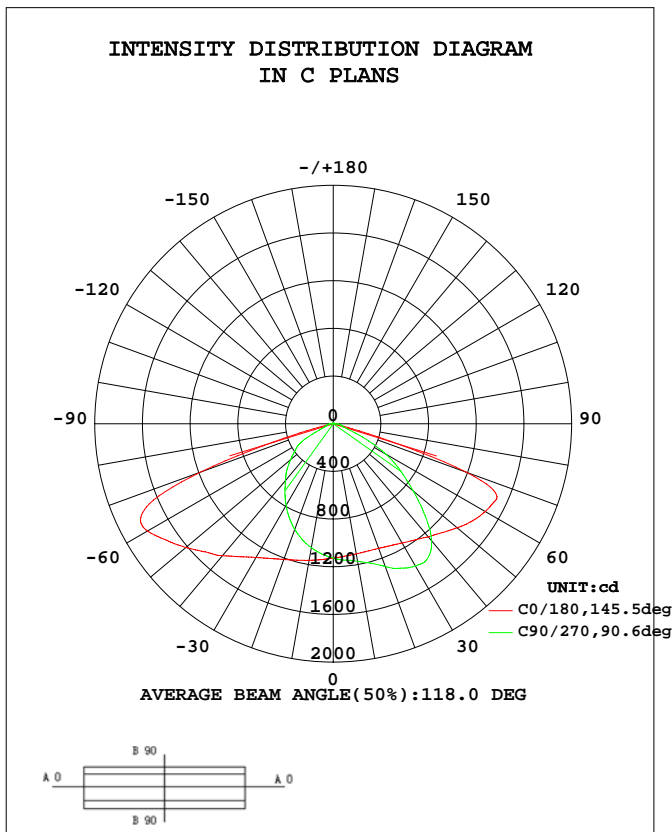


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.5V I:0.1880A P:40.60W PF:0.9800 Lamp Flux:4292.57x1 lm		
NAME:	TYPE:	WEIGHT:2
SPEC.:	DIM.:	SERIAL No.:
MFR.: Sedna Ligthing	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 105.73 lm/W			
MODEL	SDSL-040	Imax(cd)	2246	η street_up(%)	0.3
NOMINAL POWER(W)	40	LOR(%)	100.0	η street_down(%)	58.6
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	4293	η house_up(%)	0.4
NOMINAL FLUX(lm)	4292.57	MAXIMUM @(C, γ)	165,59.5	η house_down(%)	40.7
LAMPS INSIDE	1	η up(%)	0.7	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.1	η down(%)	99.3	SLI	15.624

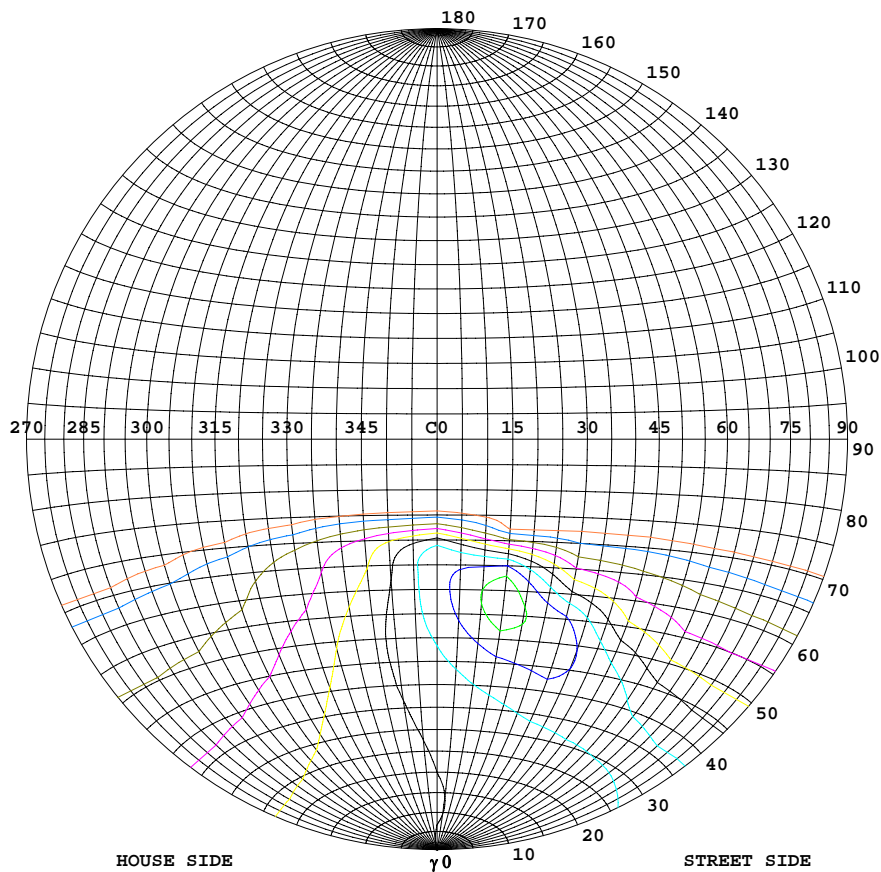


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-11-03

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.5V I:0.1880A P:40.60W PF:0.9800 Lamp Flux:4292.57x1 lm		
NAME:	TYPE:	WEIGHT:2
SPEC.:	DIM.:	SERIAL No.:
MFR.: Sedna Ligthing	SUR.:	PROTECTION ANGLE:



Classification:

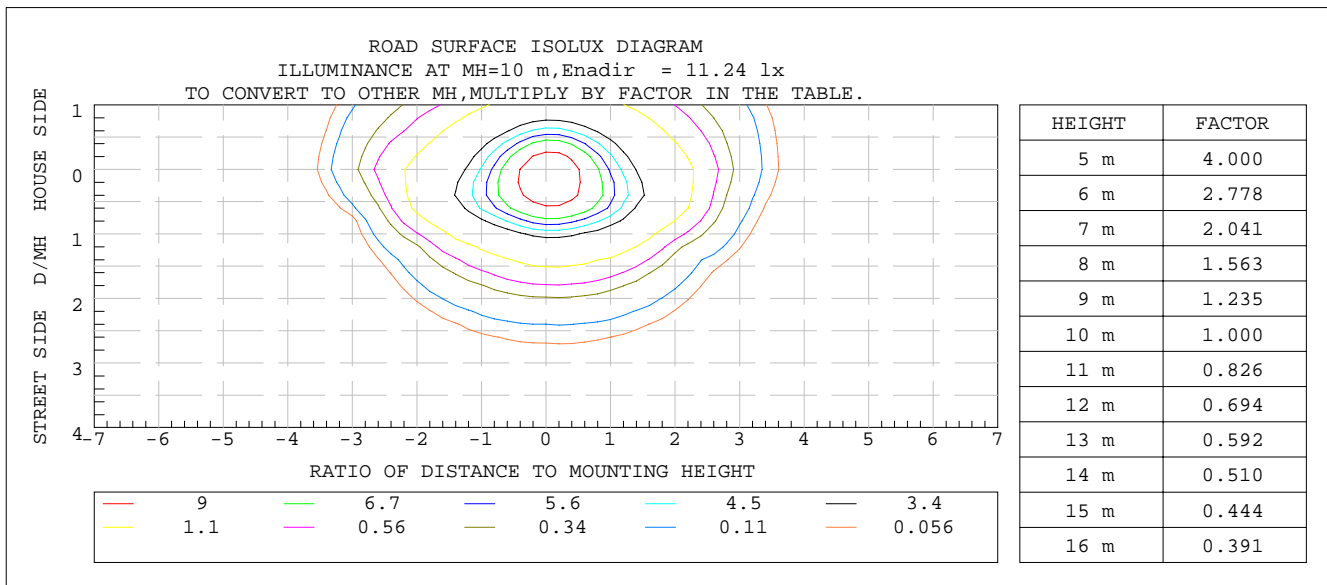
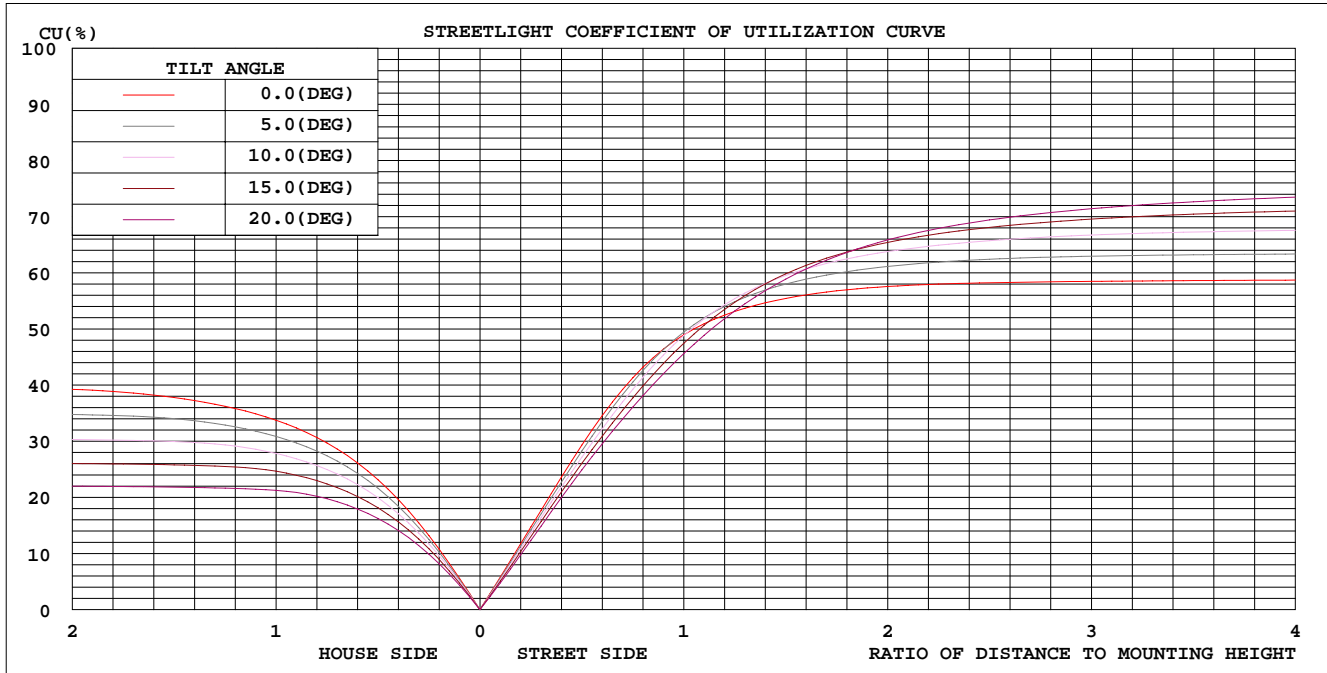
IES:Type II - Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:15.68cd/klm
 Max.At90:4.890cd/klm
 Max.80-90:15.68cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2246
90%	2022
80%	1797
70%	1572
60%	1348
50%	1123
40%	899
30%	674
20%	449
10%	225
5%	112

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-11-03

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2015-11-03

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:220.5V I:0.1880A P:40.60W PF:0.9800 Lamp Flux:4292.57x1 lm		
NAME:	TYPE:	WEIGHT:2
SPEC.:	DIM.:	SERIAL No.:
MFR.: Sedna Ligthing	SUR.:	PROTECTION ANGLE:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	1116	1137	1149	1155	1144	1118	1097	1098	0- 5	26.95	26.95	0.63,0.63
10	1109	1144	1172	1181	1163	1104	1056	1064	5- 10	80.49	107.4	2.5,2.5
15	1107	1168	1211	1223	1185	1088	1006	1029	10- 15	133.5	240.9	5.61,5.61
20	1113	1207	1275	1281	1212	1063	943.8	988.2	15- 20	186.3	427.2	9.95,9.95
25	1129	1268	1337	1367	1247	1029	871.5	941.7	20- 25	239.6	666.8	15.5,15.5
30	1155	1328	1378	1459	1295	988.0	791.0	888.3	25- 30	292.5	959.3	22.3,22.3
35	1192	1404	1380	1573	1362	934.3	707.4	827.1	30- 35	343.4	1303	30.3,30.3
40	1240	1452	1284	1657	1444	867.3	624.6	753.9	35- 40	389.8	1693	39.4,39.4
45	1292	1422	1090	1667	1520	801.1	551.4	675.1	40- 45	426.2	2119	49.4,49.4
50	1358	1251	872.8	1537	1615	720.2	466.1	587.3	45- 50	446.9	2566	59.8,59.8
55	1423	955.7	689.9	1271	1705	637.9	389.4	500.2	50- 55	450.9	3016	70.3,70.3
60	1472	703.6	508.1	962.8	1799	569.7	311.5	428.6	55- 60	434.6	3451	80.4,80.4
65	1508	483.1	288.6	618.6	1762	463.8	144.0	357.9	60- 65	382.7	3834	89.3,89.3
70	1184	189.0	121.4	248.0	1176	198.3	72.88	149.0	65- 70	267.2	4101	95.5,95.5
75	166.3	67.65	76.91	84.09	229.4	64.36	55.12	63.92	70- 75	104.6	4206	98.98
80	29.46	39.90	67.31	49.33	31.45	33.84	52.75	29.55	75- 80	30.33	4236	98.7,98.7
85	16.91	20.37	41.98	25.82	16.91	17.20	28.96	15.61	80- 85	17.71	4254	99.1,99.1
90	11.59	11.33	0.4002	14.16	9.699	8.487	4.697	7.323	85- 90	8.808	4262	99.3,99.3
95	8.846	4.866	0.5714	5.596	6.721	2.792	0.5146	2.033	90- 95	3.630	4266	99.4,99.4
100	4.220	1.596	0.7958	1.332	2.912	1.106	0.7968	1.339	95-100	1.598	4268	99.4,99.4
105	4.926	2.124	1.118	1.782	3.240	1.814	1.233	2.179	100-105	1.058	4269	99.4,99.4
110	5.961	2.681	1.465	2.298	4.064	2.716	1.796	3.198	105-110	1.397	4270	99.5,99.5
115	6.758	3.256	1.890	2.844	4.747	3.597	2.517	4.207	110-115	1.716	4272	99.5,99.5
120	7.331	3.825	2.388	3.380	5.276	4.374	3.365	5.133	115-120	1.975	4274	99.6,99.6
125	7.655	4.370	2.951	3.867	5.639	5.041	4.267	5.968	120-125	2.167	4276	99.6,99.6
130	7.852	4.879	3.481	4.248	5.889	5.606	5.161	6.705	125-130	2.282	4278	99.7,99.7
135	7.913	5.282	4.000	4.580	6.152	5.953	5.917	7.312	130-135	2.299	4280	99.7,99.7
140	7.735	5.583	4.506	4.793	6.573	6.075	6.541	7.742	135-140	2.226	4283	99.8,99.8
145	7.457	5.847	4.960	5.023	6.641	6.262	7.034	8.017	140-145	2.095	4285	99.8,99.8
150	7.231	6.067	5.409	5.297	6.588	6.526	7.303	8.148	145-150	1.914	4287	99.9,99.9
155	7.069	6.315	5.841	5.612	6.572	6.880	7.491	8.144	150-155	1.691	4288	99.9,99.9
160	6.944	6.564	6.242	5.969	6.621	7.186	7.712	8.054	155-160	1.440	4290	99.9,99.9
165	6.944	6.803	6.597	6.317	6.758	7.389	7.945	8.033	160-165	1.161	4291	100,100
170	7.032	7.019	7.001	6.698	6.956	7.446	8.010	7.972	165-170	0.8547	4292	100,100
175	7.182	7.178	7.258	7.095	7.174	7.361	7.866	7.796	170-175	0.5242	4292	100,100
180	7.283	7.259	7.471	7.411	7.295	7.279	7.552	7.530	175-180	0.1765	4293	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-11-03

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:220.5V I:0.1880A P:40.60W PF:0.9800 Lamp Flux:4292.57x1 lm		
NAME:	TYPE:	WEIGHT:2
SPEC.:	DIM.:	SERIAL No.:
MFR.: Sedna Ligthing	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

2118.7 lm

%lum = 49.4%

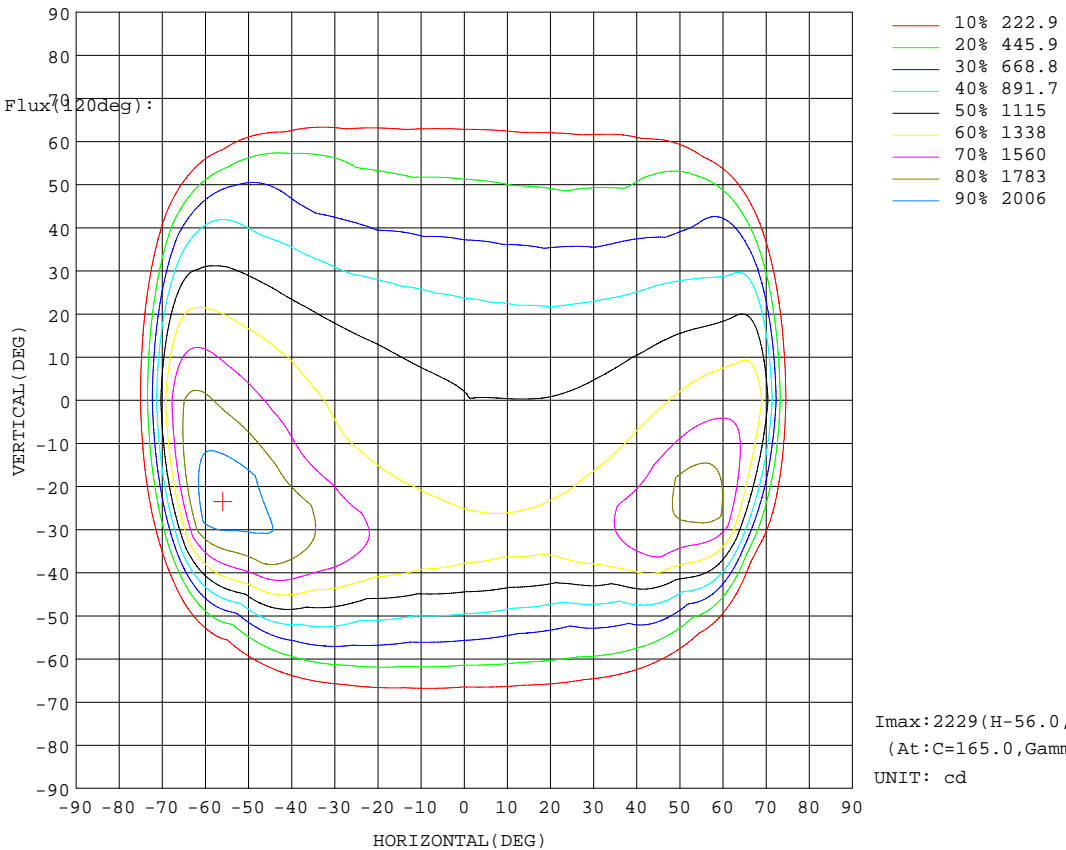
%lamp = 49.4%

Conical surface Flux(70deg):

3451 lm

%lum = 80.4%

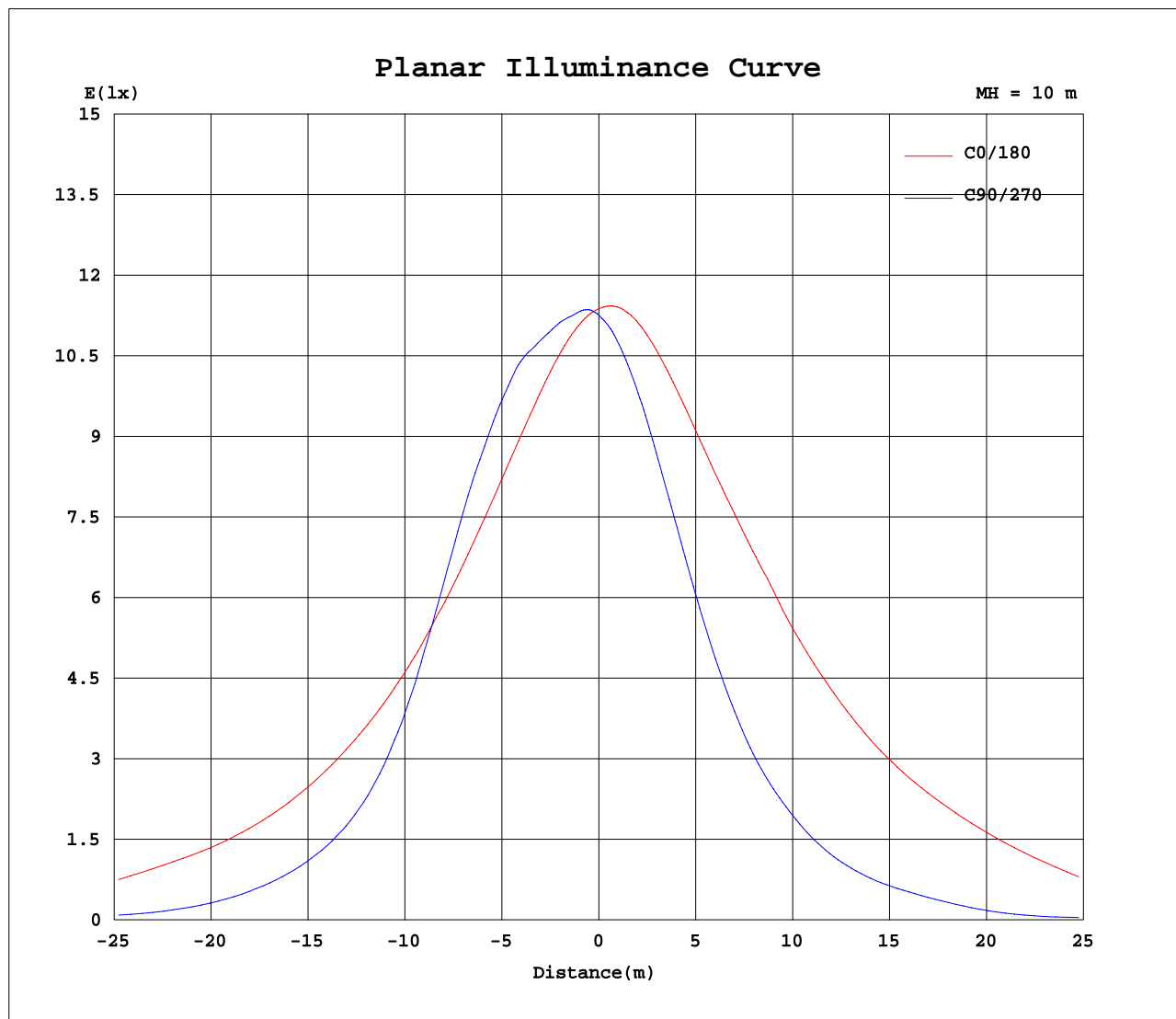
%lamp = 80.4%



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2015-11-03

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2015-11-03

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.5V I:0.1880A P:40.60W PF:0.9800 Lamp Flux:4292.57x1 lm																			
NAME:										TYPE:					WEIGHT:2				
SPEC.:										DIM.:					SERIAL No.:				
MFR.: Sedna Ligthing										SUR.:					PROTECTION ANGLE:				

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127	1127
5	1116	1124	1130	1137	1141	1145	1149	1152	1154	1155	1154	1150	1144	1135	1127	1118	1109	1102	1097
10	1109	1124	1135	1144	1154	1164	1172	1177	1180	1181	1180	1174	1163	1146	1126	1104	1084	1068	1056
15	1107	1130	1149	1168	1184	1199	1211	1221	1225	1223	1212	1201	1185	1156	1122	1088	1053	1024	1006
20	1113	1148	1182	1207	1233	1257	1275	1286	1289	1281	1261	1237	1212	1168	1122	1063	1007	966	944
25	1129	1186	1230	1268	1296	1318	1337	1359	1374	1367	1332	1290	1247	1187	1116	1029	955	900	871
30	1155	1236	1288	1328	1349	1359	1378	1416	1449	1459	1431	1366	1295	1212	1104	988	888	822	791
35	1192	1291	1376	1404	1370	1365	1380	1431	1501	1573	1551	1456	1362	1238	1088	934	809	739	707
40	1240	1383	1493	1452	1329	1277	1284	1344	1480	1657	1717	1588	1444	1269	1065	867	730	651	625
45	1292	1519	1636	1422	1178	1086	1090	1156	1346	1667	1892	1767	1520	1290	1030	801	644	571	551
50	1358	1715	1708	1251	929	857	873	932	1121	1537	2003	1988	1615	1296	989	720	556	486	466
55	1423	1906	1596	956	711	671	690	740	895	1271	1932	2176	1705	1284	928	638	479	415	389
60	1472	1940	1171	704	552	508	508	558	691	963	1524	2244	1799	1241	851	570	416	336	311
65	1508	1565	688	483	358	299	289	330	435	619	912	1942	1762	1139	751	464	270	169	144
70	1184	507	224	189	142	125	121	138	176	248	311	926	1176	860	460	198	93.8	74.7	72.9
75	166	58.9	61.7	67.6	63.0	65.5	76.9	70.7	73.4	84.1	69.0	82.6	229	215	102	64.4	58.4	49.3	55.1
80	29.5	36.1	58.2	39.9	41.6	40.2	67.3	41.8	47.1	49.3	55.4	35.2	31.5	40.7	40.1	33.8	37.7	32.2	52.8
85	16.9	25.2	48.4	20.4	22.1	22.1	42.0	23.0	25.7	25.8	53.4	28.6	16.9	19.8	20.5	17.2	17.4	19.9	29.0
90	11.6	16.2	14.0	11.3	9.29	8.61	0.40	9.59	11.0	14.2	21.0	16.4	9.70	10.3	10.7	8.49	7.31	6.42	4.70
95	8.85	7.41	7.59	4.87	3.02	3.49	0.57	3.80	3.46	5.60	8.12	7.89	6.72	6.73	5.31	2.79	0.60	0.48	0.51
100	4.22	3.25	2.29	1.60	1.12	0.92	0.80	0.84	0.96	1.33	1.99	3.59	2.91	2.89	1.77	1.11	0.89	0.77	0.80
105	4.93	4.20	3.01	2.12	1.52	1.26	1.12	1.17	1.32	1.78	2.56	3.60	3.24	3.19	2.69	1.81	1.38	1.20	1.23
110	5.96	5.13	3.72	2.68	1.96	1.64	1.46	1.52	1.72	2.30	3.24	4.53	4.06	4.18	3.68	2.72	2.03	1.76	1.80
115	6.76	5.84	4.32	3.26	2.47	2.10	1.89	1.94	2.20	2.84	3.84	5.28	4.75	4.84	4.50	3.60	2.82	2.50	2.52
120	7.33	6.30	4.88	3.83	3.02	2.61	2.39	2.42	2.70	3.38	4.36	5.70	5.28	5.43	5.16	4.37	3.67	3.31	3.37
125	7.65	6.73	5.40	4.37	3.57	3.14	2.95	2.94	3.17	3.87	4.82	6.04	5.64	5.88	5.71	5.04	4.52	4.21	4.27
130	7.85	7.05	5.80	4.88	4.13	3.70	3.48	3.47	3.62	4.25	5.09	6.22	5.89	6.00	6.04	5.61	5.26	5.05	5.16
135	7.91	7.05	6.04	5.28	4.61	4.22	4.00	3.96	4.02	4.58	5.27	6.16	6.15	6.06	6.08	5.95	5.83	5.80	5.92
140	7.74	6.90	6.18	5.58	5.00	4.70	4.51	4.44	4.43	4.79	5.33	6.07	6.57	6.30	6.13	6.07	6.22	6.42	6.54
145	7.46	6.82	6.28	5.85	5.38	5.14	4.96	4.90	4.85	5.02	5.41	6.01	6.64	6.68	6.41	6.26	6.54	6.88	7.03
150	7.23	6.79	6.40	6.07	5.77	5.58	5.41	5.36	5.22	5.30	5.49	6.01	6.59	6.83	6.75	6.53	6.75	7.08	7.30
155	7.07	6.79	6.52	6.31	6.09	5.98	5.84	5.77	5.61	5.61	5.70	6.12	6.57	6.85	6.97	6.88	7.11	7.28	7.49
160	6.94	6.87	6.70	6.56	6.42	6.37	6.24	6.17	5.99	5.97	5.99	6.29	6.62	6.85	7.08	7.19	7.44	7.53	7.71
165	6.94	6.99	6.89	6.80	6.67	6.67	6.60	6.54	6.37	6.32	6.27	6.46	6.76	6.85	7.13	7.39	7.68	7.81	7.94
170	7.03	7.13	7.05	7.02	6.95	7.03	7.00	6.95	6.78	6.70	6.63	6.77	6.96	6.99	7.20	7.45	7.66	7.86	8.01
175	7.18	7.26	7.15	7.18	7.15	7.26	7.26	7.23	7.12	7.10	6.99	7.10	7.17	7.05	7.21	7.36	7.53	7.73	7.87
180	7.28	7.27	7.25	7.26	7.30	7.43	7.47	7.45	7.42	7.41	7.30	7.39	7.30	7.18	7.24	7.28	7.34	7.49	7.55

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2015-11-03

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:8.000m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.5V I:0.1880A P:40.60W PF:0.9800 Lamp Flux:4292.57x1 lm		
NAME:	TYPE:	WEIGHT:2
SPEC.:	DIM.:	SERIAL No.:
MFR.: Sedna Ligthing	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	1127	1127	1127	1127	1127														
5	1095	1095	1098	1102	1109														
10	1052	1055	1064	1077	1093														
15	1001	1010	1029	1053	1081														
20	940	956	988	1030	1071														
25	870	895	942	1005	1070														
30	791	823	888	978	1074														
35	706	741	827	947	1080														
40	620	657	754	910	1088														
45	540	571	675	857	1088														
50	458	486	587	796	1078														
55	390	413	500	712	1040														
60	317	357	429	624	971														
65	147	219	358	550	894														
70	73.4	80.9	149	360	715														
75	48.1	57.5	63.9	77.9	127														
80	32.2	34.3	29.6	45.4	41.0														
85	19.7	15.7	15.6	16.8	17.0														
90	5.86	6.33	7.32	9.27	10.3														
95	0.51	0.64	2.03	4.55	6.38														
100	0.83	1.03	1.34	2.10	2.74														
105	1.30	1.61	2.18	3.20	3.82														
110	1.92	2.36	3.20	4.32	4.94														
115	2.70	3.25	4.21	5.29	5.89														
120	3.56	4.19	5.13	6.10	6.71														
125	4.47	5.11	5.97	6.85	7.34														
130	5.36	5.96	6.71	7.50	7.81														
135	6.10	6.67	7.31	7.92	7.91														
140	6.71	7.23	7.74	8.13	7.91														
145	7.21	7.66	8.02	8.24	8.00														
150	7.48	7.90	8.15	8.24	8.12														
155	7.67	7.95	8.14	8.18	8.11														
160	7.79	8.03	8.05	8.04	8.00														
165	7.93	8.07	8.03	7.98	7.88														
170	8.00	8.07	7.97	7.84	7.78														
175	7.90	7.83	7.80	7.65	7.62														
180	7.55	7.56	7.53	7.45	7.47														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-11-03

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:8.000m [K=1.0000]
 Remarks: