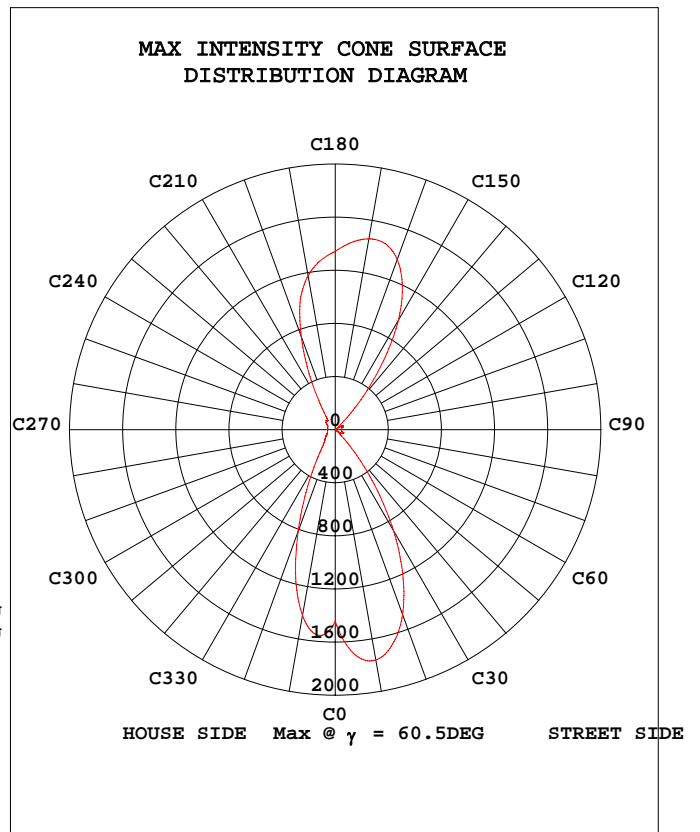
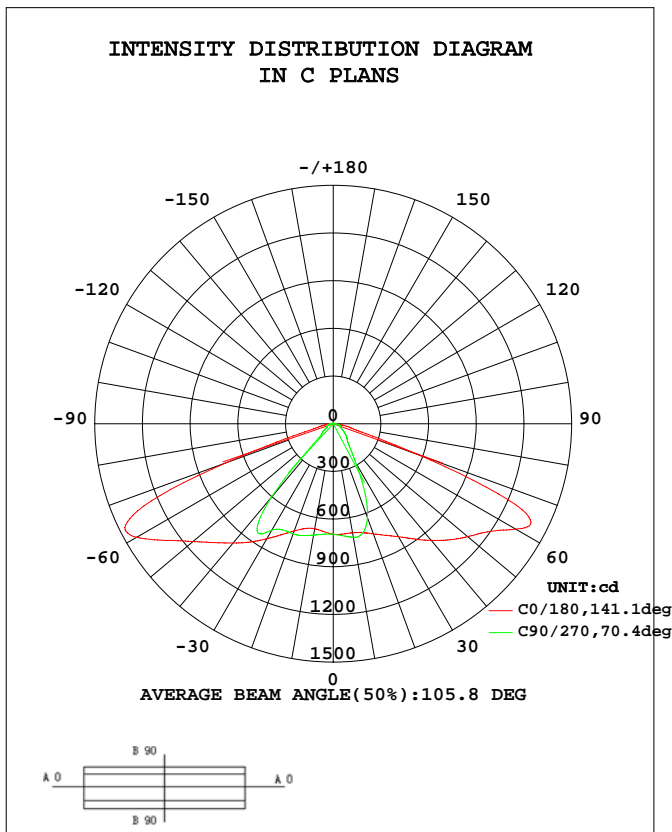


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.4V I:0.1240A P:26.60W PF:0.9730 Lamp Flux:2531.83x1 lm		
NAME:	TYPE:	WEIGHT:1.5
SPEC.:	DIM.:	SERIAL No.:
MFR.: Sedna Lighting	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.18 lm/W			
MODEL	SDSL-030	Imax(cd)	1670	η street_up(%)	0.4
NOMINAL POWER(W)	27	LOR(%)	100.0	η street_down(%)	59.6
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2532	η house_up(%)	0.4
NOMINAL FLUX(lm)	2531.83	MAXIMUM @(C, γ)	15,60.5	η house_down(%)	39.6
LAMPS INSIDE	1	η up(%)	0.8	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.1	η down(%)	99.2	SLI	16.998

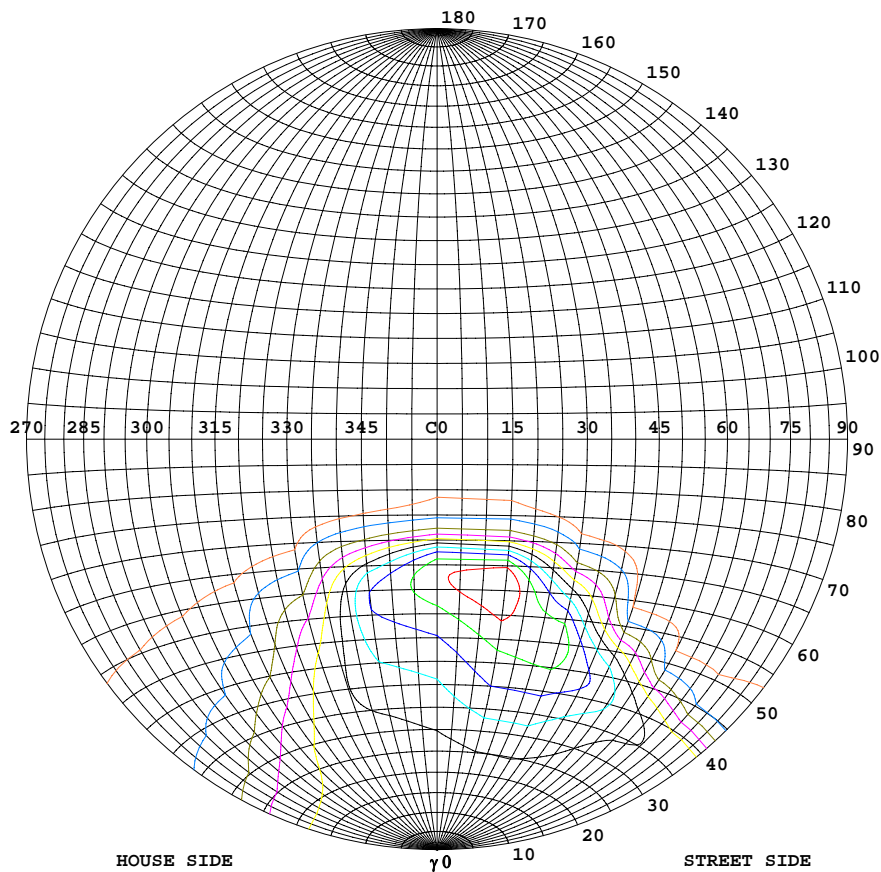


C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-07-31

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:220.4V I:0.1240A P:26.60W PF:0.9730 Lamp Flux:2531.83x1 lm		
NAME:	TYPE:	WEIGHT:1.5
SPEC.:	DIM.:	SERIAL No.:
MFR.: Sedna Lighting	SUR.:	PROTECTION ANGLE:



Classification:

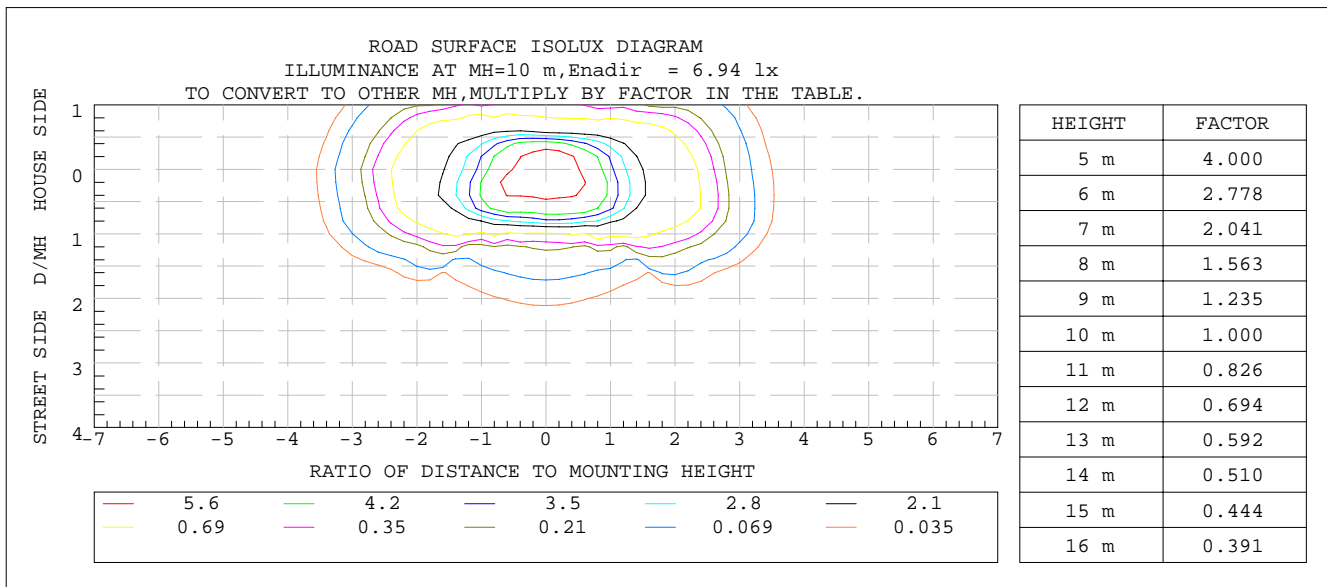
IES:Type I - Short
 CIE:Narrow - Intermediate
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:30.39cd/klm
 Max.At90:8.154cd/klm
 Max.80-90:30.39cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1670
90%	1503
80%	1336
70%	1169
60%	1002
50%	835
40%	668
30%	501
20%	334
10%	167
5%	83

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-07-31

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: 2015-07-31

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:220.4V I:0.1240A P:26.60W PF:0.9730 Lamp Flux:2531.83x1 lm		
NAME:	TYPE:	WEIGHT:1.5
SPEC.:	DIM.:	SERIAL No.:
MFR.: Sedna Lighting	SUR.:	PROTECTION ANGLE:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	681.7	688.9	697.7	695.8	696.8	707.3	707.7	692.4	0- 5	16.64	16.64	0.66,0.66
10	671.2	695.0	711.1	700.9	696.6	719.2	726.1	687.9	5- 10	49.97	66.61	2.63,2.63
15	682.7	714.4	728.4	719.1	709.4	729.5	713.7	691.4	10- 15	83.80	150.4	5.94,5.94
20	717.5	752.7	738.1	756.7	737.4	720.6	629.0	700.5	15- 20	117.9	268.3	10.6,10.6
25	770.0	803.5	739.2	811.6	774.3	678.1	464.8	700.0	20- 25	150.8	419.1	16.6,16.6
30	835.3	863.0	773.2	871.8	821.2	595.9	284.0	663.2	25- 30	181.2	600.3	23.7,23.7
35	908.7	946.6	831.4	946.3	884.7	482.2	183.1	580.8	30- 35	213.4	813.6	32.1,32.1
40	980.0	1095	609.3	1088	957.5	353.6	140.0	459.5	35- 40	244.9	1059	41.8,41.8
45	1058	1093	152.0	1119	1033	232.2	120.2	329.3	40- 45	255.8	1314	51.9,51.9
50	1153	747.2	90.27	863.0	1105	153.9	99.52	211.6	45- 50	248.9	1563	61.7,61.7
55	1281	236.7	69.11	393.6	1186	123.8	77.26	155.5	50- 55	243.0	1806	71.3,71.3
60	1428	71.39	51.77	103.2	1326	102.4	60.74	116.5	55- 60	233.1	2039	80.5,80.5
65	1412	53.70	43.42	53.87	1341	69.06	50.68	69.89	60- 65	216.8	2256	89.1,89.1
70	718.4	42.41	39.03	43.16	564.3	43.27	45.70	42.28	65- 70	153.1	2409	95.2,95.2
75	141.4	33.31	36.41	34.78	137.0	28.04	46.05	28.76	70- 75	56.31	2465	97.4,97.4
80	70.10	25.01	27.67	24.99	76.93	19.41	29.72	20.46	75- 80	23.63	2489	98.3,98.3
85	31.28	20.00	7.560	19.80	23.95	12.91	13.80	13.94	80- 85	14.09	2503	98.9,98.9
90	19.22	12.80	0.1836	12.16	15.47	6.849	0.2721	8.082	85- 90	7.973	2511	99.2,99.2
95	11.06	4.969	0.2160	5.039	8.151	1.496	0.1960	1.918	90- 95	4.167	2515	99.3,99.3
100	6.643	0.8220	0.3399	0.9962	4.241	0.5662	0.2368	0.5803	95-100	1.553	2517	99.4,99.4
105	3.763	0.7944	0.3503	1.001	2.999	0.9569	0.2734	0.8822	100-105	0.7767	2518	99.4,99.4
110	4.106	1.088	0.4123	1.381	3.677	1.534	0.3225	1.380	105-110	0.8015	2518	99.5,99.5
115	4.635	1.406	0.5182	1.770	4.238	2.122	0.4658	1.912	110-115	0.9739	2519	99.5,99.5
120	4.943	1.740	0.6774	2.178	4.586	2.660	0.7801	2.419	115-120	1.122	2521	99.6,99.6
125	5.073	2.086	0.9344	2.579	4.765	3.144	1.225	2.905	120-125	1.234	2522	99.6,99.6
130	5.162	2.436	1.281	2.922	4.931	3.503	1.710	3.395	125-130	1.311	2523	99.7,99.7
135	5.154	2.778	1.709	3.118	4.972	3.617	2.250	3.877	130-135	1.333	2524	99.7,99.7
140	4.984	3.084	2.146	3.216	5.098	3.666	2.841	4.282	135-140	1.309	2526	99.8,99.8
145	4.793	3.389	2.607	3.314	5.211	3.719	3.433	4.552	140-145	1.260	2527	99.8,99.8
150	4.619	3.658	3.080	3.449	5.089	3.878	3.820	4.683	145-150	1.171	2528	99.9,99.9
155	4.517	3.902	3.541	3.665	4.907	4.264	3.991	4.687	150-155	1.045	2529	99.9,99.9
160	4.468	4.106	3.873	3.911	4.825	4.652	4.310	4.842	155-160	0.9018	2530	99.9,99.9
165	4.448	4.285	4.150	4.123	4.785	4.843	4.730	4.948	160-165	0.7380	2531	100,100
170	4.448	4.424	4.456	4.381	4.740	4.912	5.040	5.002	165-170	0.5488	2531	100,100
175	4.566	4.513	4.664	4.568	4.752	4.803	5.040	4.949	170-175	0.3371	2532	100,100
180	4.679	4.668	4.856	4.777	4.785	4.692	4.942	4.846	175-180	0.1134	2532	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:2015-07-31

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:220.4V I:0.1240A P:26.60W PF:0.9730 Lamp Flux:2531.83x1 lm		
NAME:	TYPE:	WEIGHT:1.5
SPEC.:	DIM.:	SERIAL No.:
MFR.: Sedna Lighting	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1314.3 lm

%lum = 51.9%

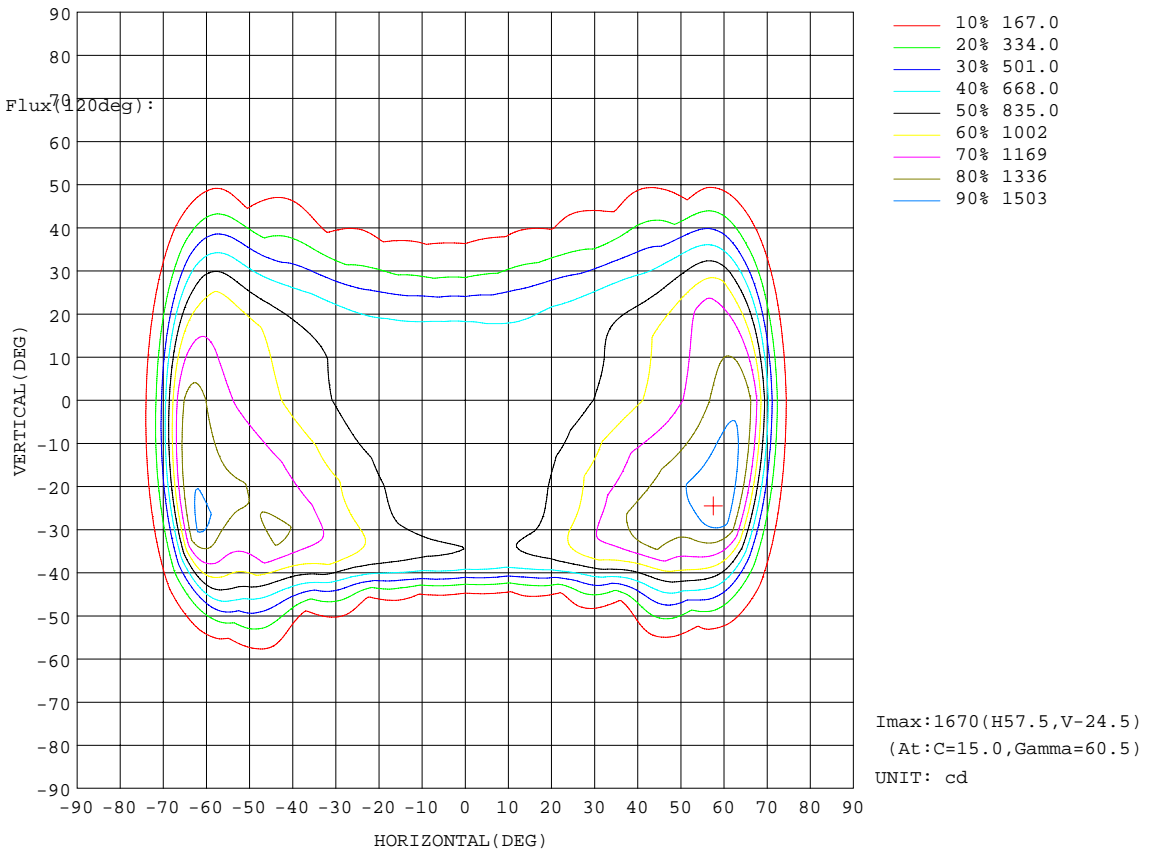
%lamp = 51.9%

Conical surface Flux(70deg):

2039.3 lm

%lum = 80.5%

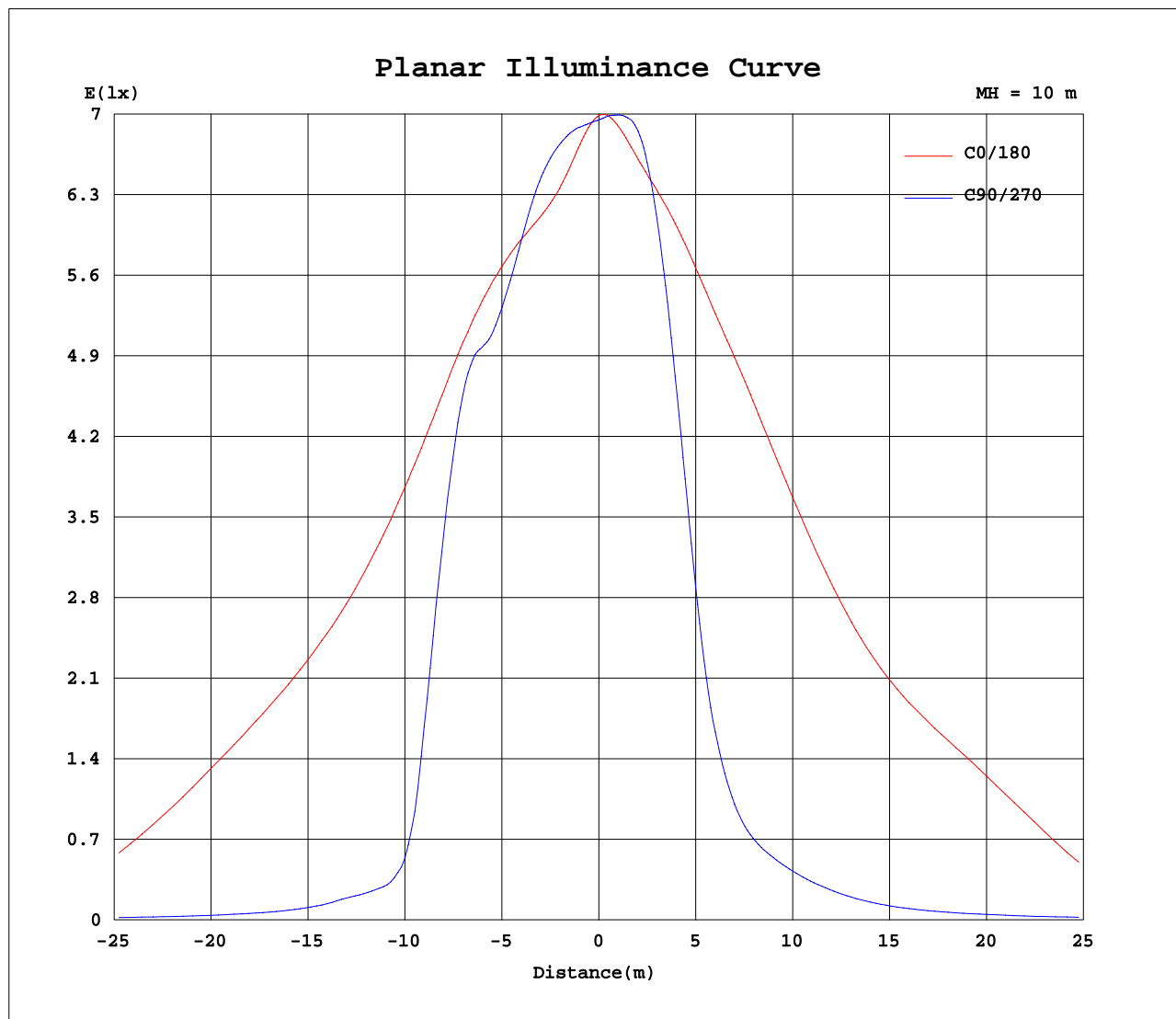
%lamp = 80.5%



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2015-07-31

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: 2015-07-31

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:220.4V I:0.1240A P:26.60W PF:0.9730 Lamp Flux:2531.83x1 lm																		
NAME:									TYPE:					WEIGHT:1.5				
SPEC.:									DIM.:					SERIAL No.:				
MFR.: Sedna Lighting									SUR.:					PROTECTION 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	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695	695
5	682	682	685	689	693	696	698	698	697	696	695	696	697	701	704	707	710	710	708
10	671	678	686	695	703	709	711	709	705	701	697	696	697	702	710	719	728	731	726
15	683	699	710	714	721	727	728	724	720	719	717	712	709	709	720	729	730	722	714
20	718	750	761	753	743	740	738	736	744	757	761	749	737	730	736	721	681	642	629
25	770	828	842	804	757	740	739	741	769	812	831	805	774	758	752	678	573	487	465
30	835	929	948	863	778	759	773	772	804	872	922	882	821	802	757	596	416	304	284
35	909	1049	1066	947	858	817	831	859	901	946	1020	984	885	853	740	482	270	194	183
40	980	1167	1194	1095	857	646	609	705	910	1088	1122	1087	958	909	699	354	175	144	140
45	1058	1276	1349	1093	521	188	152	234	593	1119	1253	1183	1033	964	636	232	137	123	120
50	1153	1392	1454	747	116	87.2	90.3	92.5	150	863	1362	1284	1105	1002	535	154	117	102	99.5
55	1281	1533	1285	237	73.7	70.4	69.1	73.8	73.9	394	1280	1358	1186	1026	393	124	94.0	79.3	77.3
60	1428	1667	919	71.4	57.7	51.9	51.8	51.7	58.9	103	988	1438	1326	1024	246	102	69.2	59.7	60.7
65	1412	1466	450	53.7	46.4	43.7	43.4	43.3	45.2	53.9	613	1560	1341	813	125	69.1	49.9	47.9	50.7
70	718	627	129	42.4	38.4	40.1	39.0	40.5	38.2	43.2	214	858	564	358	64.3	43.3	37.1	37.7	45.7
75	141	136	54.4	33.3	30.1	43.0	36.4	36.6	30.4	34.8	66.8	152	137	95.5	33.7	28.0	27.6	32.4	46.0
80	70.1	67.7	32.8	25.0	24.3	30.5	27.7	29.5	24.2	25.0	34.8	62.8	76.9	39.8	21.0	19.4	19.6	24.0	29.7
85	31.3	37.8	23.1	20.0	18.1	22.8	7.56	23.6	17.8	19.8	22.9	29.7	24.0	20.3	15.1	12.9	12.9	12.2	13.8
90	19.2	20.6	15.3	12.8	11.6	10.3	0.18	10.5	11.3	12.2	15.7	19.3	15.5	14.2	9.93	6.85	4.96	3.45	0.27
95	11.1	11.1	6.80	4.97	3.94	3.67	0.22	3.78	4.00	5.04	7.14	11.0	8.15	6.89	4.12	1.50	0.24	0.20	0.20
100	6.64	4.61	2.26	0.82	0.37	0.34	0.34	0.33	0.36	1.00	2.66	4.54	4.24	3.12	1.71	0.57	0.24	0.23	0.24
105	3.76	2.80	1.61	0.79	0.42	0.39	0.35	0.38	0.44	1.00	1.99	3.44	3.00	2.76	2.02	0.96	0.34	0.24	0.27
110	4.11	3.21	2.00	1.09	0.56	0.49	0.41	0.48	0.66	1.38	2.49	3.78	3.68	3.53	2.70	1.53	0.61	0.29	0.32
115	4.63	3.69	2.38	1.41	0.76	0.60	0.52	0.62	0.93	1.77	3.03	4.46	4.24	4.05	3.27	2.12	1.07	0.50	0.47
120	4.94	3.97	2.77	1.74	1.01	0.77	0.68	0.83	1.25	2.18	3.44	4.85	4.59	4.45	3.71	2.66	1.62	0.91	0.78
125	5.07	4.22	3.08	2.09	1.32	1.03	0.93	1.13	1.59	2.58	3.81	5.00	4.76	4.76	4.07	3.14	2.14	1.39	1.22
130	5.16	4.43	3.42	2.44	1.71	1.37	1.28	1.49	1.97	2.92	3.95	4.94	4.93	4.84	4.18	3.50	2.63	1.92	1.71
135	5.15	4.46	3.65	2.78	2.08	1.77	1.71	1.90	2.32	3.12	3.92	4.73	4.97	4.74	4.07	3.62	3.09	2.49	2.25
140	4.98	4.45	3.80	3.08	2.50	2.21	2.15	2.34	2.70	3.22	3.81	4.55	5.10	4.77	4.04	3.67	3.50	3.07	2.84
145	4.79	4.34	3.93	3.39	2.88	2.66	2.61	2.80	3.05	3.31	3.78	4.47	5.21	4.99	4.22	3.72	3.72	3.56	3.43
150	4.62	4.33	4.01	3.66	3.29	3.12	3.08	3.23	3.30	3.45	3.77	4.35	5.09	5.05	4.48	3.88	3.79	3.74	3.82
155	4.52	4.35	4.14	3.90	3.66	3.57	3.54	3.58	3.55	3.67	3.91	4.35	4.91	5.03	4.73	4.26	4.04	3.87	3.99
160	4.47	4.39	4.26	4.11	4.00	3.95	3.87	3.87	3.81	3.91	4.08	4.35	4.83	4.99	4.89	4.65	4.49	4.28	4.31
165	4.45	4.44	4.34	4.29	4.19	4.19	4.15	4.14	4.07	4.12	4.21	4.37	4.78	4.88	4.90	4.84	4.79	4.68	4.73
170	4.45	4.53	4.45	4.42	4.40	4.47	4.46	4.51	4.41	4.38	4.35	4.47	4.74	4.79	4.85	4.91	4.93	4.97	5.04
175	4.57	4.62	4.53	4.51	4.53	4.66	4.66	4.70	4.60	4.57	4.48	4.58	4.75	4.71	4.71	4.80	4.86	5.01	5.04
180	4.68	4.68	4.62	4.67	4.72	4.84	4.86	4.86	4.81	4.78	4.68	4.73	4.78	4.67	4.67	4.69	4.79	4.90	4.94

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-07-31

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:220.4V I:0.1240A P:26.60W PF:0.9730 Lamp Flux:2531.83x1 lm		
NAME:	TYPE:	WEIGHT:1.5
SPEC.:	DIM.:	SERIAL No.:
MFR.: Sedna Lighting	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	695	695	695	695	695														
5	704	698	692	687	683														
10	716	702	688	677	672														
15	706	700	691	680	679														
20	640	674	701	701	705														
25	506	604	700	738	742														
30	343	488	663	779	793														
35	225	353	581	801	856														
40	157	226	460	785	925														
45	135	157	329	725	1001														
50	113	135	212	628	1083														
55	86.6	109	155	506	1160														
60	62.2	76.2	116	329	1166														
65	47.6	51.6	69.9	156	882														
70	36.6	37.2	42.3	69.1	356														
75	30.8	27.8	28.8	36.2	91.2														
80	23.5	20.1	20.5	22.4	36.0														
85	12.5	13.8	13.9	16.3	21.3														
90	3.61	5.64	8.08	11.9	16.1														
95	0.19	0.28	1.92	4.80	8.36														
100	0.22	0.24	0.58	1.72	3.31														
105	0.24	0.34	0.88	1.88	2.69														
110	0.29	0.58	1.38	2.45	3.38														
115	0.50	0.99	1.91	2.94	3.92														
120	0.89	1.50	2.42	3.44	4.38														
125	1.36	1.99	2.90	4.00	4.80														
130	1.85	2.48	3.39	4.50	5.10														
135	2.39	2.98	3.88	4.84	5.20														
140	3.00	3.53	4.28	4.99	5.28														
145	3.57	4.02	4.55	4.98	5.33														
150	4.01	4.33	4.68	4.99	5.24														
155	4.15	4.44	4.69	5.03	5.21														
160	4.41	4.62	4.84	5.08	5.17														
165	4.75	4.87	4.95	5.08	5.09														
170	5.00	5.05	5.00	4.98	4.97														
175	5.05	4.99	4.95	4.85	4.84														
180	4.93	4.87	4.85	4.74	4.77														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2015-07-31

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: