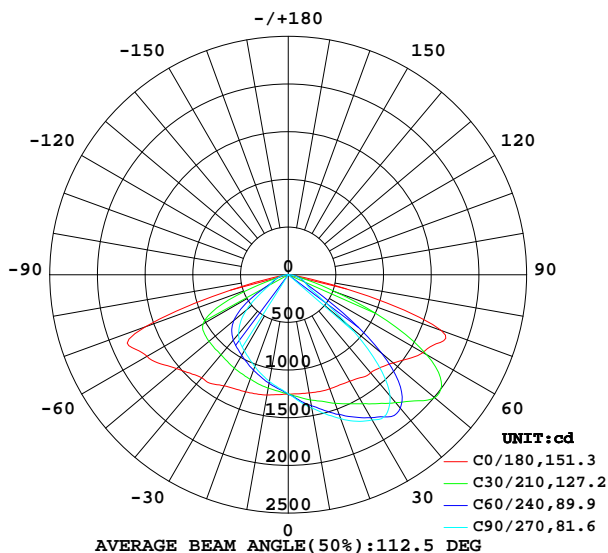
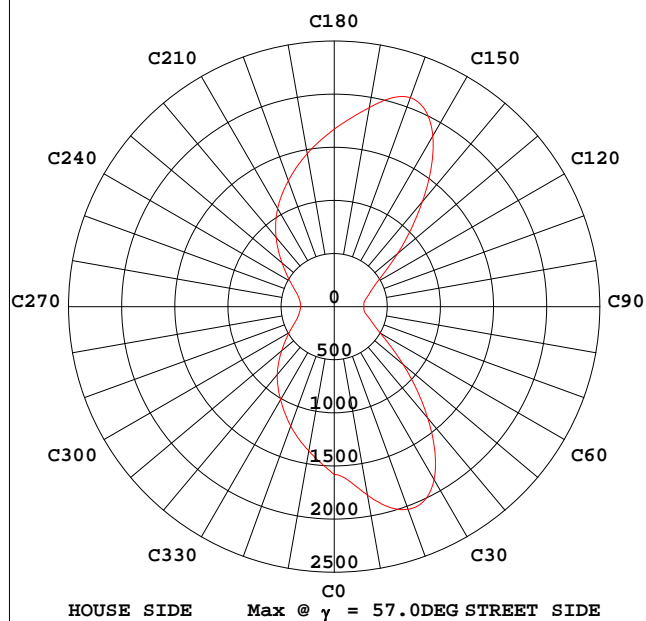


STREETLIGHT PHOTOMETRIC TEST REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 130.00 lm/W			
MODEL	LD38Kmini 2M 3030	Imax(cd)	2094	η street_up(%)	0.0
NOMINAL POWER(W)	38	LOR(%)	100.0	η street_down(%)	58.8
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	4940	η house_up(%)	0.0
NOMINAL FLUX(lm)	4940	MAXIMUM @ (C, γ)	160,57.0	η house_down(%)	41.1
LAMPS INSIDE	1	η up(%)	0.1	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220.1	η down(%)	99.9	SLI	20.848

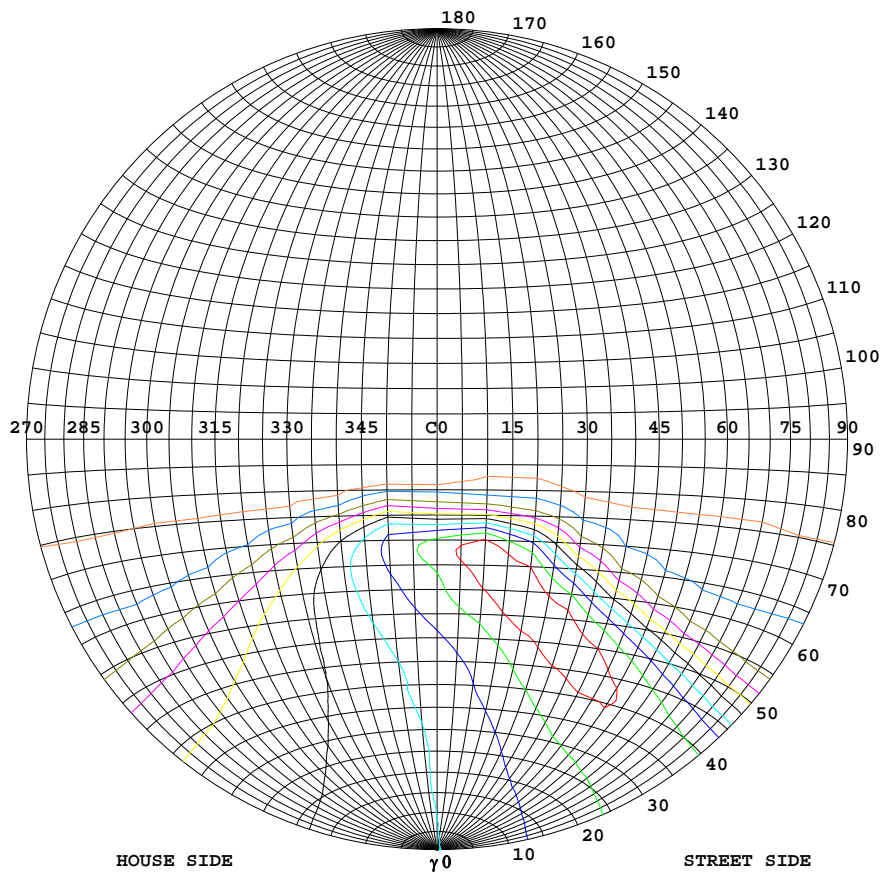
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.9

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks: mini

STREETLIGHT ISOCANDELA DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



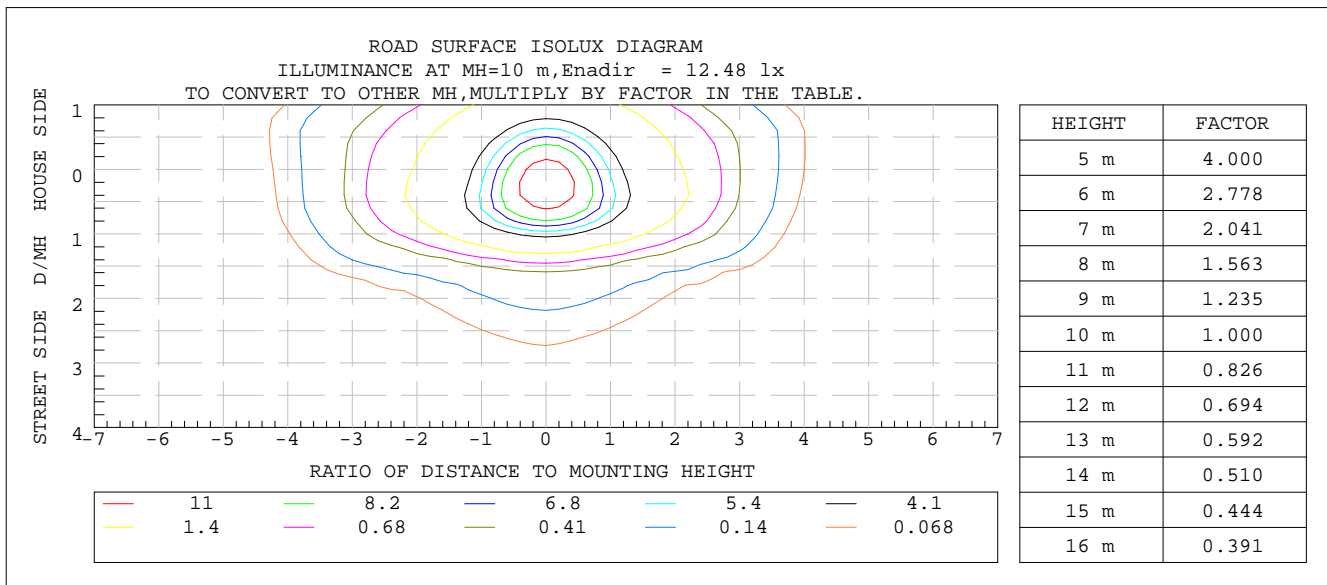
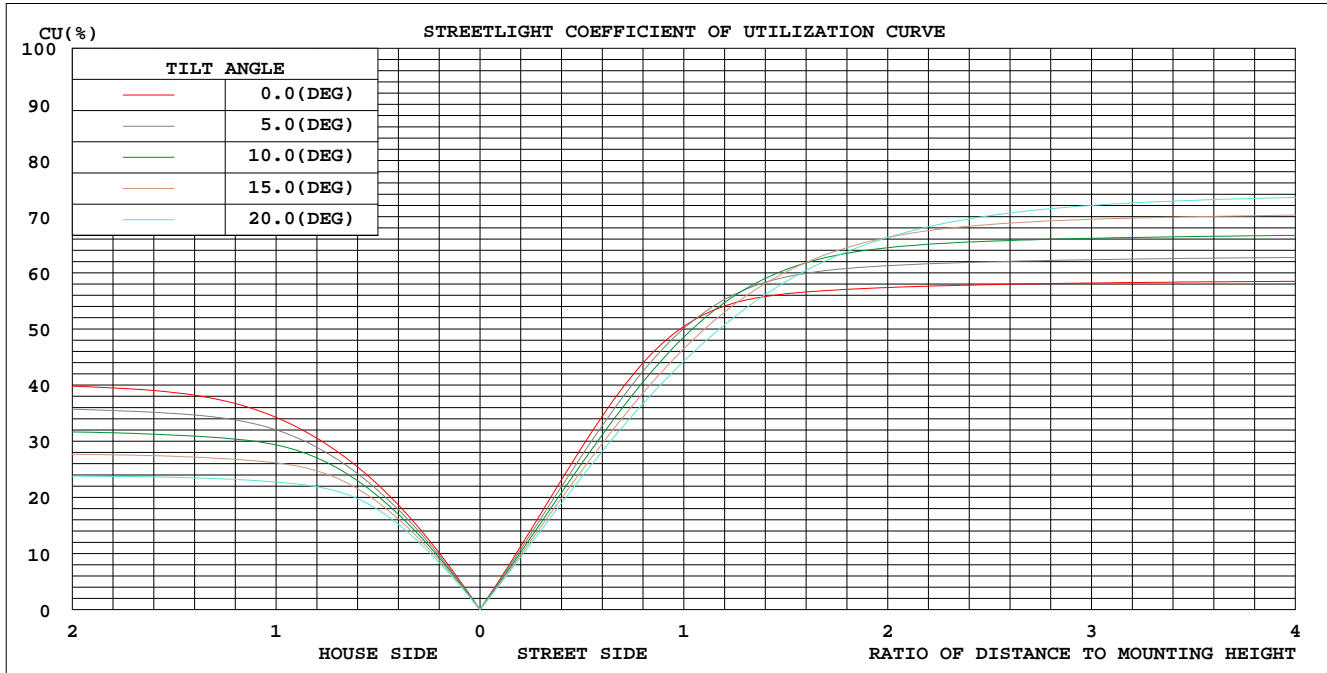
Classification:

IES:Type II - Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:36.04cd/klm
 Max.At90:0.8909cd/klm
 Max.80-90:36.04cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2094
90%	1885
80%	1675
70%	1466
60%	1257
50%	1047
40%	838
30%	628
20%	419
10%	209
5%	105

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017.11.9

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.480m [K=1.0000]
 Remarks: mini

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.11.9

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks: mini

ZONAL FLUX DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

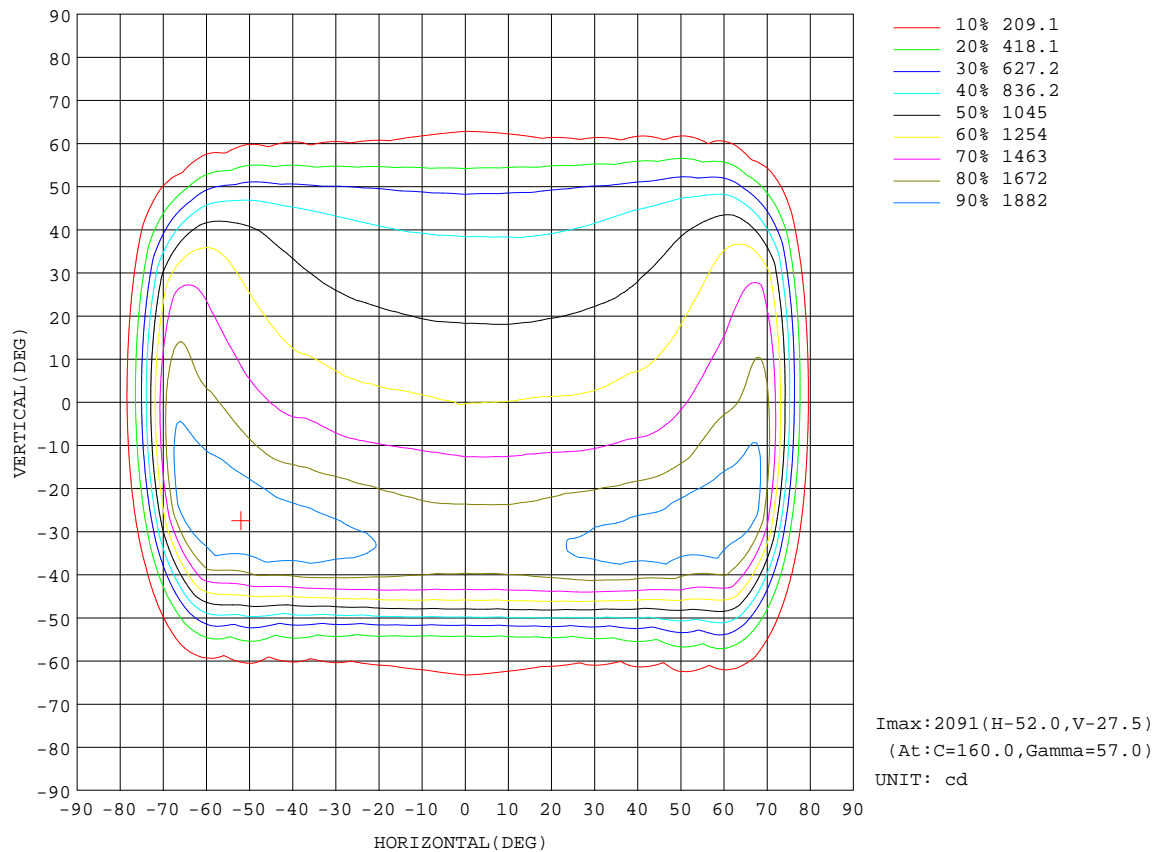
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	1258	1366	1417	1386	1280	1179	1137	1167	0- 10	120.6	120.6	2.44,2.44
20	1272	1504	1605	1529	1308	1111	1026	1091	10- 20	365.9	486.5	9.85,9.85
30	1290	1679	1758	1719	1345	1046	922.4	1017	20- 30	613.8	1100	22.3,22.3
40	1343	1877	1661	1914	1412	982.5	809.9	947.6	30- 40	857.5	1958	39.6,39.6
50	1439	1744	809.9	1713	1532	904.3	568.6	869.7	40- 50	1009	2967	60.1,60.1
60	1632	771.8	235.2	705.2	1710	614.5	242.1	628.8	50- 60	924.6	3892	78.8,78.8
70	1708	185.0	164.8	163.6	1592	155.5	154.0	184.7	60- 70	715.3	4607	93.3,93.3
80	177.1	75.29	68.96	62.93	105.2	46.51	59.27	60.75	70- 80	293.9	4901	99.2,99.2
90	3.402	3.072	0.5166	1.186	3.587	1.971	0.7014	2.606	80- 90	36.01	4937	99.9,99.9
100	4.926	2.115	1.002	2.057	5.694	3.449	1.402	3.382	90-100	2.488	4939	100,100
110	0	0	0	0	0	0	0	0	100-110	0.1601	4940	100,100
120	0	0	0	0	0	0	0	0	110-120	0	4940	100,100
130	0	0	0	0	0	0	0	0	120-130	0	4940	100,100
140	0	0	0	0	0	0	0	0	130-140	0	4940	100,100
150	0	0	0	0	0	0	0	0	140-150	0	4940	100,100
160	0	0	0	0	0	0	0	0	150-160	0	4940	100,100
170	0	0	0	0	0	0	0	0	160-170	0	4940	100,100
180	0	0	0	0	0	0	0	0	170-180	0	4940	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.9

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks: mini

ISOCANDELA DIAGRAM

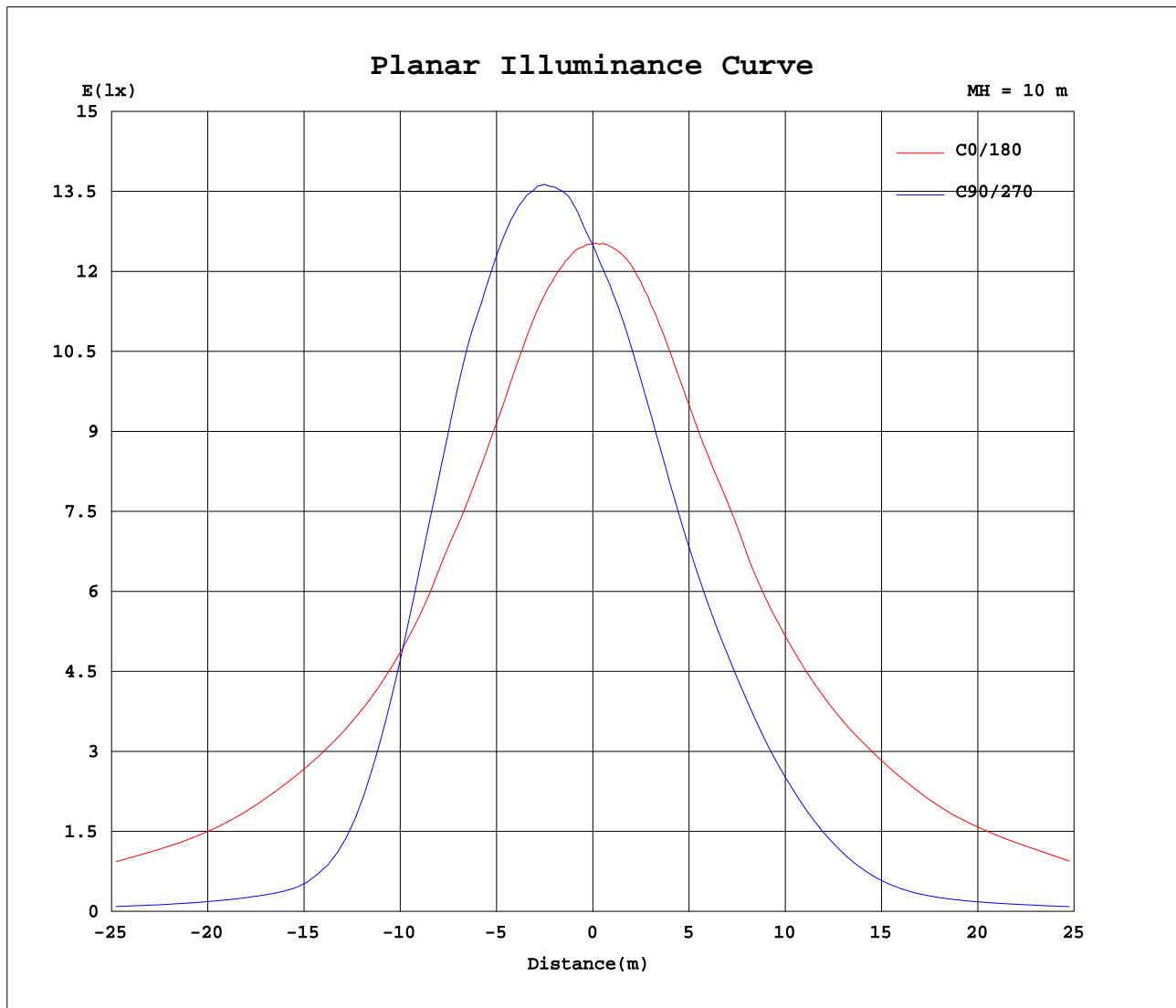
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.9

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks: mini

Planar Illuminance Curve



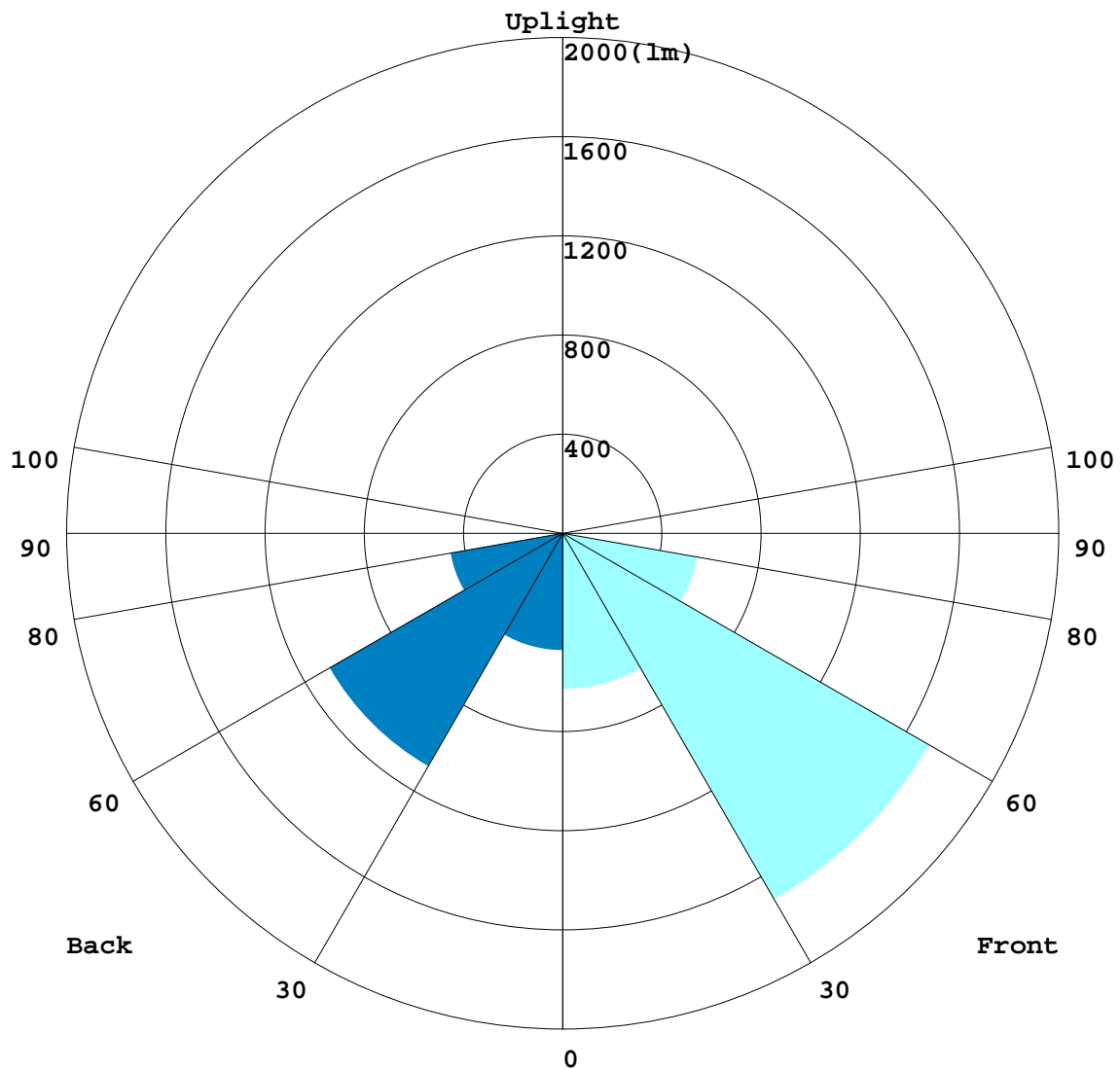
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.11.9

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.480m [K=1.0000]
Remarks: mini

LCS REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.9

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks: mini

BUG REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	628.29	12.7
FM - Front-Medium(30-60)	1706.4	34.5
FH - Front-High(60-80)	550.46	11.1
FVH - Front-Very High(80-90)	21.714	0.4
Total Forward Light	2908	58.9

BL - Back-Low(0-30)	472.06	9.6
BM - Back-Medium(30-60)	1085	22.0
BH - Back-High(60-80)	458.79	9.3
BVH - Back-Very High(80-90)	14.299	0.3
Total Back Light	2031.7	41.1

UL - Uplight-Low(90-100)	2.4883	0.1
UH - Uplight-High(100-180)	0.16014	0.0
Total Up Light	2.6484	0.1

BUG(Back,Up,Glare) Rating	B2-U1-G1
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2030.1	1.5413	2031.7
Street Side	2906.9	1.1071	2908

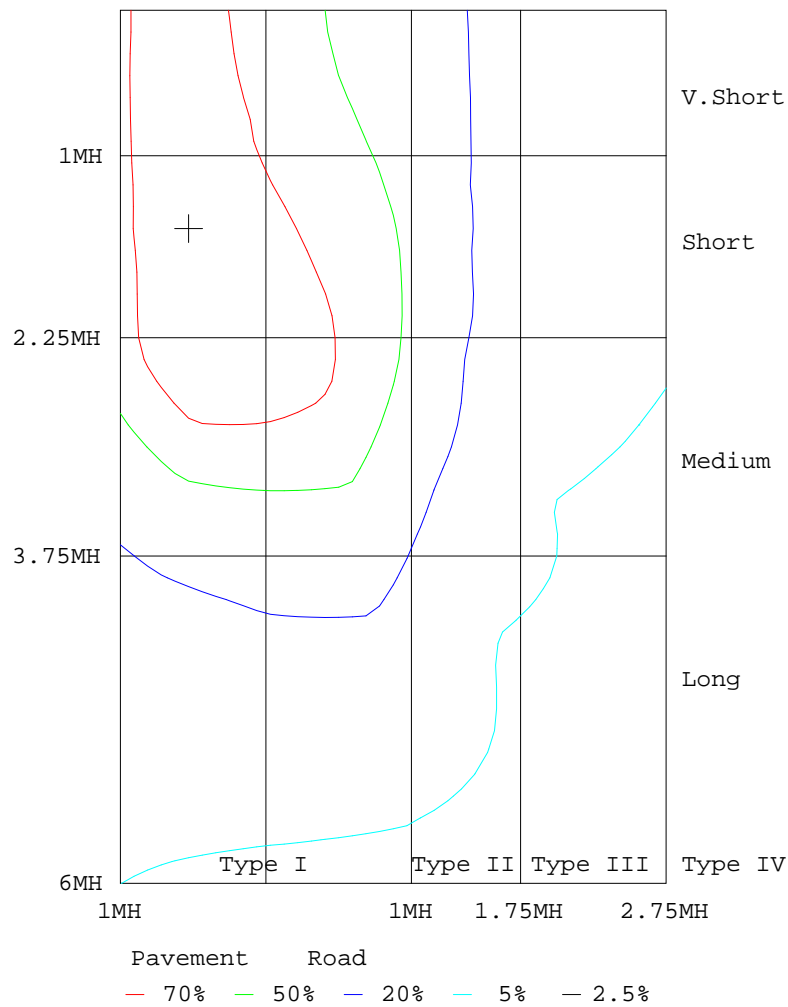
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.9

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks: mini

ROAD ISOCANDELA REPORT

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.9

γ Range: 0 - 100DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks: mini

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1251	1252	1253	1253	1251	1250	1252	1249	1251	1250	1248	1248	1249	1247	1248	1247	1247	1247	1251
5	1255	1266	1276	1288	1300	1310	1320	1326	1333	1333	1334	1329	1327	1315	1306	1292	1282	1266	1262
10	1258	1281	1308	1333	1354	1377	1395	1407	1415	1417	1421	1415	1409	1394	1378	1356	1331	1302	1280
15	1268	1306	1338	1374	1412	1444	1473	1495	1507	1511	1511	1504	1490	1468	1445	1411	1371	1331	1293
20	1272	1324	1382	1435	1485	1522	1558	1582	1603	1605	1605	1593	1574	1548	1510	1467	1417	1356	1308
25	1275	1345	1419	1493	1563	1612	1646	1672	1689	1695	1691	1681	1670	1643	1593	1532	1465	1387	1321
30	1290	1376	1465	1563	1653	1705	1731	1740	1752	1758	1758	1753	1759	1741	1697	1618	1529	1433	1345
35	1318	1417	1525	1649	1755	1793	1819	1806	1791	1790	1800	1829	1848	1831	1794	1721	1604	1498	1395
40	1343	1462	1605	1749	1861	1893	1827	1737	1677	1661	1680	1748	1838	1920	1908	1823	1694	1539	1412
45	1374	1509	1695	1872	1965	1849	1664	1493	1369	1332	1365	1487	1649	1841	1988	1954	1782	1600	1459
50	1439	1602	1816	2005	1887	1600	1275	1030	860	810	847	1001	1221	1546	1879	2056	1933	1713	1532
55	1536	1739	1989	1959	1564	1092	705	496	393	373	388	476	652	1014	1502	1963	2081	1852	1631
60	1632	1876	2035	1675	1016	528	308	241	232	235	232	239	292	482	928	1620	2055	1957	1710
65	1712	1997	1883	1142	476	240	197	192	192	196	188	188	191	225	415	1050	1846	2090	1807
70	1708	1901	1432	540	206	164	157	153	159	165	154	148	147	152	175	439	1233	1670	1592
75	874	878	566	185	129	121	116	117	108	107	104	112	109	108	107	131	376	546	637
80	177	165	145	92.1	74.7	75.9	85.6	78.6	67.9	69.0	65.4	75.4	79.8	67.7	58.2	68.4	105	113	105
85	40.6	74.8	64.8	33.3	37.2	37.8	38.1	35.9	33.1	8.05	29.7	30.0	30.8	29.4	28.5	19.9	39.5	55.2	27.9
90	3.40	4.15	3.74	3.53	3.29	2.86	2.27	2.16	1.48	0.52	0.97	0.98	0.91	1.03	1.34	1.81	2.35	2.86	3.59
95	3.83	3.51	2.91	2.28	1.73	1.22	0.93	0.77	0.72	0.68	0.71	0.77	0.93	1.21	1.71	2.32	3.01	3.64	4.51
100	4.93	4.54	3.83	3.09	2.41	1.82	1.41	1.16	1.04	1.00	1.03	1.13	1.36	1.75	2.36	3.08	3.90	4.70	5.69
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.9

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks: mini

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	1252	1253	1253	1251	1250	1252	1249	1251	1250	1248	1248	1249	1247	1248	1247	1247	1247		
5	1248	1237	1226	1216	1206	1201	1196	1192	1190	1187	1190	1194	1199	1205	1214	1223	1233		
10	1253	1230	1207	1188	1170	1156	1146	1140	1137	1138	1142	1148	1161	1173	1188	1207	1228		
15	1255	1220	1189	1160	1132	1110	1095	1086	1081	1083	1089	1100	1117	1139	1166	1196	1228		
20	1254	1209	1167	1128	1094	1065	1044	1031	1026	1028	1035	1051	1076	1106	1142	1182	1222		
25	1257	1200	1147	1100	1058	1019	992	976	969	973	982	1004	1034	1073	1117	1166	1215		
30	1270	1198	1132	1071	1021	977	947	930	922	924	936	958	993	1040	1095	1155	1214		
35	1291	1196	1112	1043	982	936	906	886	876	878	890	915	953	1007	1077	1151	1225		
40	1297	1193	1098	1018	947	896	854	823	810	816	835	871	917	978	1055	1144	1238		
45	1326	1204	1092	993	907	839	774	731	711	724	756	812	877	949	1042	1147	1255		
50	1372	1228	1087	960	848	745	651	593	569	589	639	724	820	919	1032	1164	1295		
55	1439	1252	1074	901	724	575	464	405	387	408	464	574	716	873	1018	1187	1351		
60	1506	1275	1030	739	490	336	261	244	242	250	273	357	513	745	989	1210	1421		
65	1573	1240	829	447	238	181	177	188	195	192	181	193	273	501	857	1215	1492		
70	1440	915	404	171	140	141	143	150	154	155	148	147	149	220	516	1055	1513		
75	683	266	108	104	101	102	95.6	93.4	103	98.8	101	109	112	117	161	458	980		
80	100	71.0	65.4	47.1	46.0	54.1	49.1	54.6	59.3	59.1	54.0	62.4	59.2	62.3	81.5	89.6	178		
85	29.5	23.3	17.1	15.3	13.3	13.2	10.9	9.22	6.81	14.2	16.0	18.6	19.5	23.7	27.7	45.9	49.9		
90	3.67	3.46	2.98	2.31	1.64	1.16	0.92	0.71	0.70	1.10	1.50	1.88	2.14	3.07	3.56	4.18	4.40		
95	4.56	4.26	3.63	2.82	1.96	1.33	1.05	0.93	0.90	0.92	1.03	1.31	1.96	2.75	3.47	4.01	4.29		
100	5.73	5.46	4.78	3.93	2.97	2.14	1.67	1.45	1.40	1.46	1.68	2.15	2.95	3.82	4.56	5.12	5.42		
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.9

γ Range: 0 - 100DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.480m [K=1.0000]
Remarks: mini