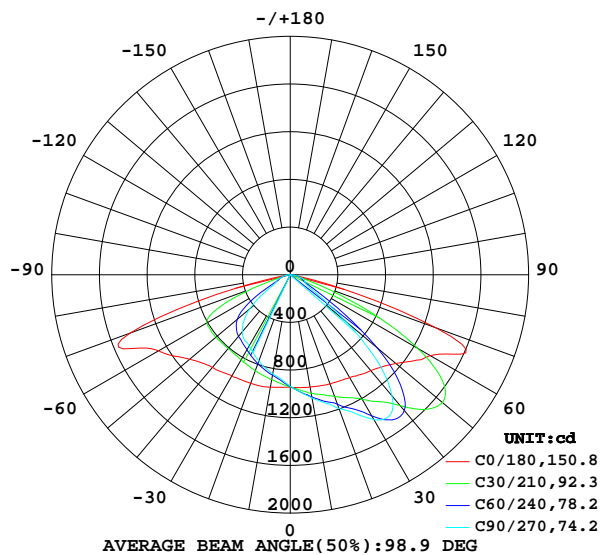
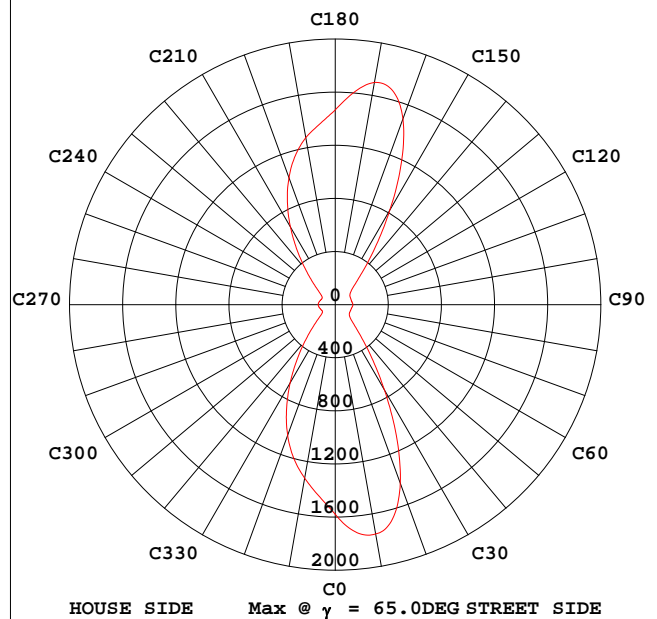


STREETLIGHT PHOTOMETRIC TEST REPORT

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

DATA OF LAMP		PHOTOMETRIC DATA Eff: 135.00 lm/W			
MODEL	LD28Kmini 2M 3030	Imax(cd)	1753	η street_up(%)	0.0
NOMINAL POWER(W)	28	LOR(%)	100.0	η street_down(%)	59.1
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3780	η house_up(%)	0.0
NOMINAL FLUX(lm)	3780	MAXIMUM @ (C, γ)	10,65.0	η house_down(%)	40.8
LAMPS INSIDE	1	η up(%)	0.1	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220.1	η down(%)	99.9	SLI	18.858

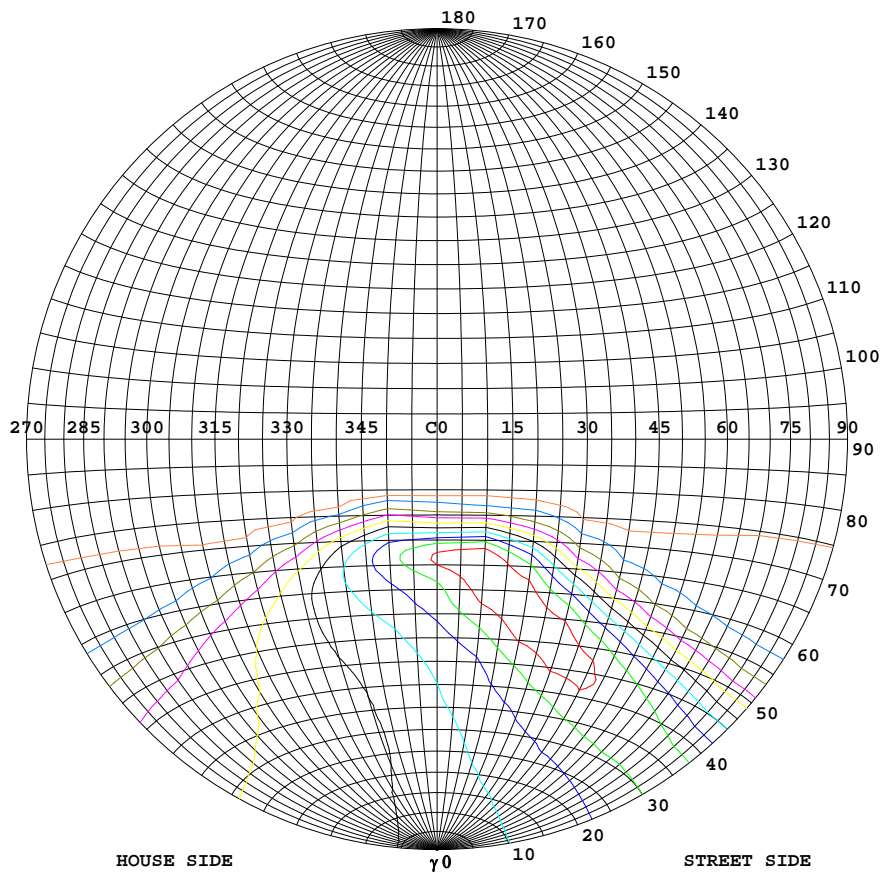
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

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:



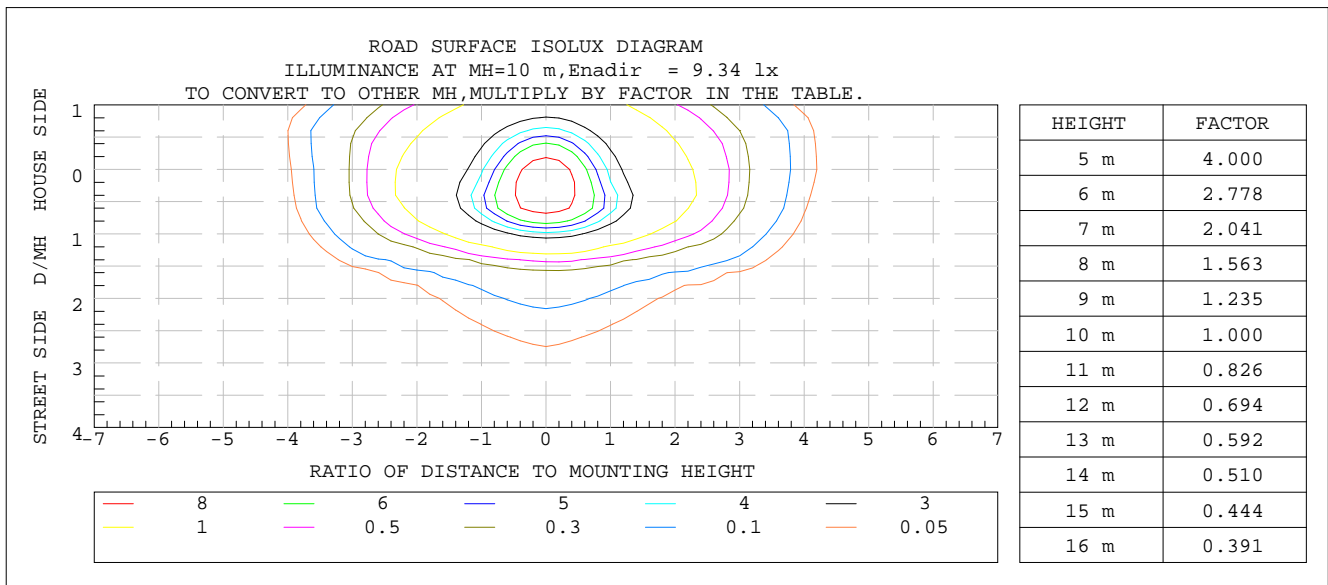
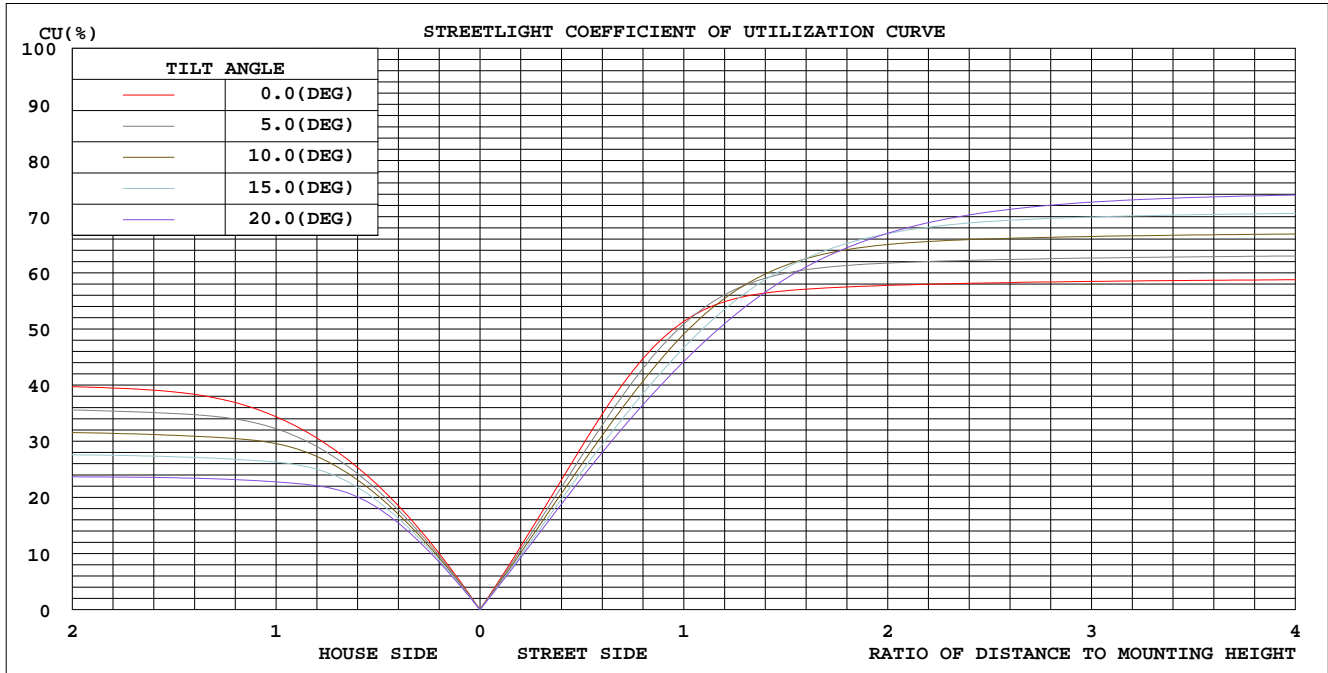
Classification:

IES:Type II - Short
 CIE:Narrow - Intermediate
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:22.57cd/klm
 Max.At90:0.9116cd/klm
 Max.80-90:22.57cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	1753
90%	1577
80%	1402
70%	1227
60%	1052
50%	876
40%	701
30%	526
20%	351
10%	175
5%	88

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:

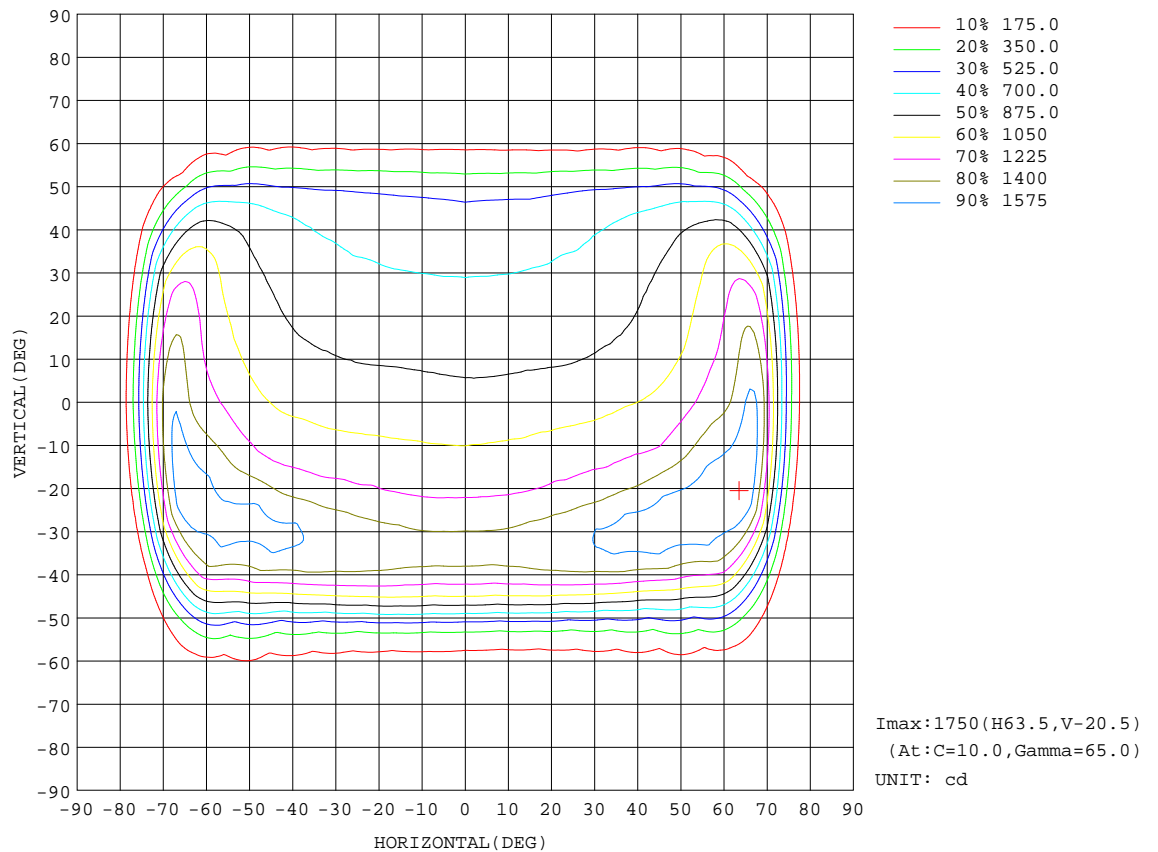
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	956.7	1028	1049	1022	958.0	872.1	845.4	866.3	0- 10	89.93	89.93	2.38,2.38
20	974.4	1123	1193	1116	969.5	823.5	770.1	822.3	10- 20	272.3	362.3	9.58,9.58
30	995.6	1294	1404	1269	979.8	772.2	692.0	776.3	20- 30	460.3	822.6	21.8,21.8
40	1050	1548	1328	1511	1015	729.5	626.3	742.0	30- 40	660.0	1483	39.2,39.2
50	1157	1355	608.5	1363	1103	686.3	441.9	704.1	40- 50	787.6	2270	60.1,60.1
60	1358	507.4	153.1	548.4	1277	483.8	147.4	488.3	50- 60	719.8	2990	79.1,79.1
70	1299	107.2	124.2	117.1	1426	106.0	105.0	102.9	60- 70	558.4	3548	93.9,93.9
80	46.72	49.85	56.40	52.60	85.30	35.24	40.78	32.52	70- 80	205.4	3754	99.3,99.3
90	2.442	1.692	0.3433	2.002	3.063	1.654	0.5274	1.710	80- 90	23.83	3778	99.9,99.9
100	3.952	1.660	0.6862	1.507	4.301	2.454	0.9986	2.671	90-100	1.893	3780	100,100
110	0	0	0	0	0	0	0	0	100-110	0.1214	3780	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3780	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3780	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3780	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3780	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3780	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3780	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3780	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

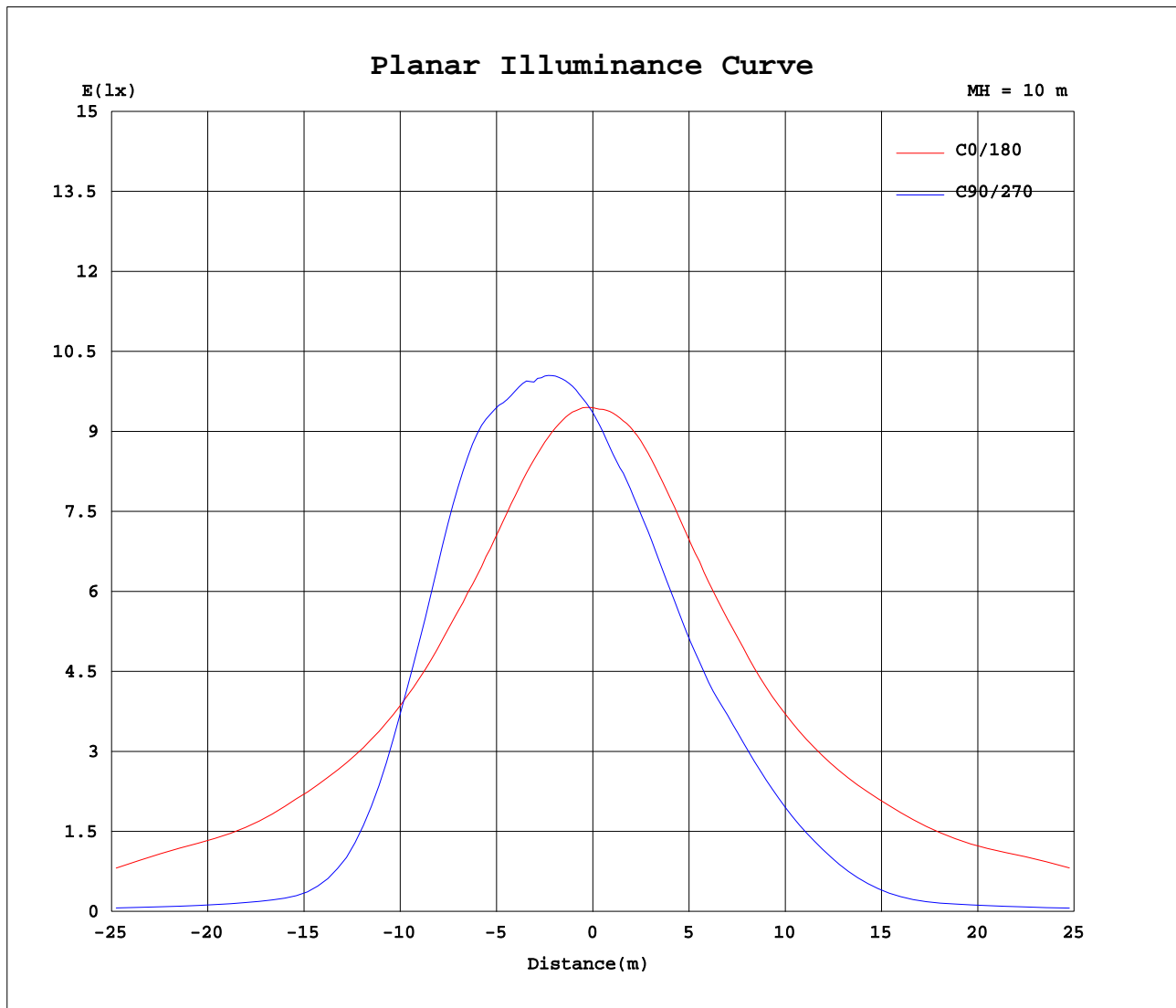
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



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



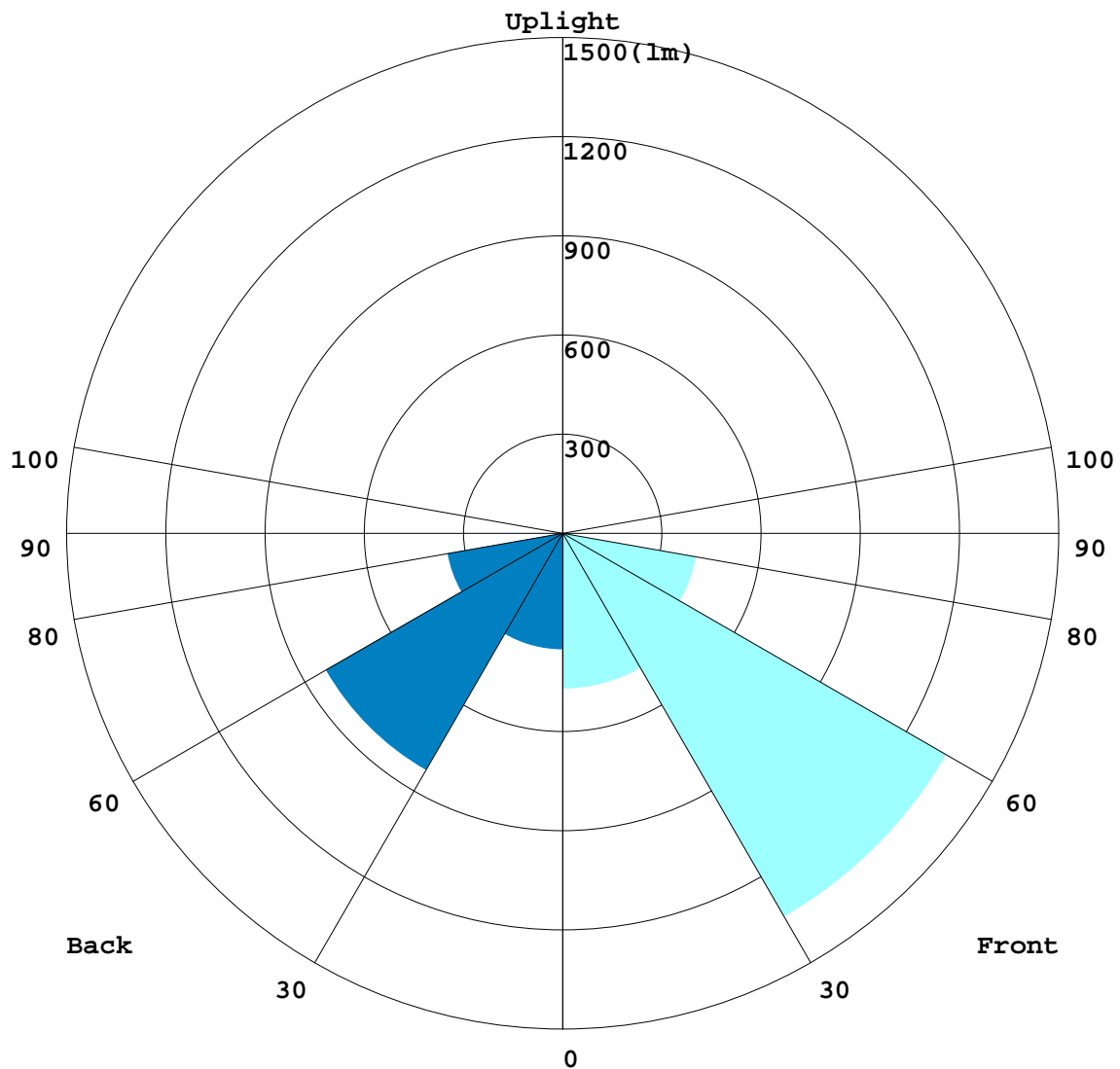
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.11.9

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)	470.59	12.5
FM - Front-Medium(30-60)	1340	35.5
FH - Front-High(60-80)	409.91	10.8
FVH - Front-Very High(80-90)	14.849	0.4
Total Forward Light	2236.2	59.2

BL - Back-Low(0-30)	352	9.3
BM - Back-Medium(30-60)	827.41	21.9
BH - Back-High(60-80)	353.91	9.4
BVH - Back-Very High(80-90)	8.9851	0.2
Total Back Light	1543.5	40.8

UL - Uplight-Low(90-100)	1.8926	0.1
UH - Uplight-High(100-180)	0.12143	0.0
Total Up Light	2.014	0.1

BUG(Back,Up,Glare) Rating	B1-U1-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1542.3	1.1564	1543.5
Street Side	2235.3	0.85758	2236.2

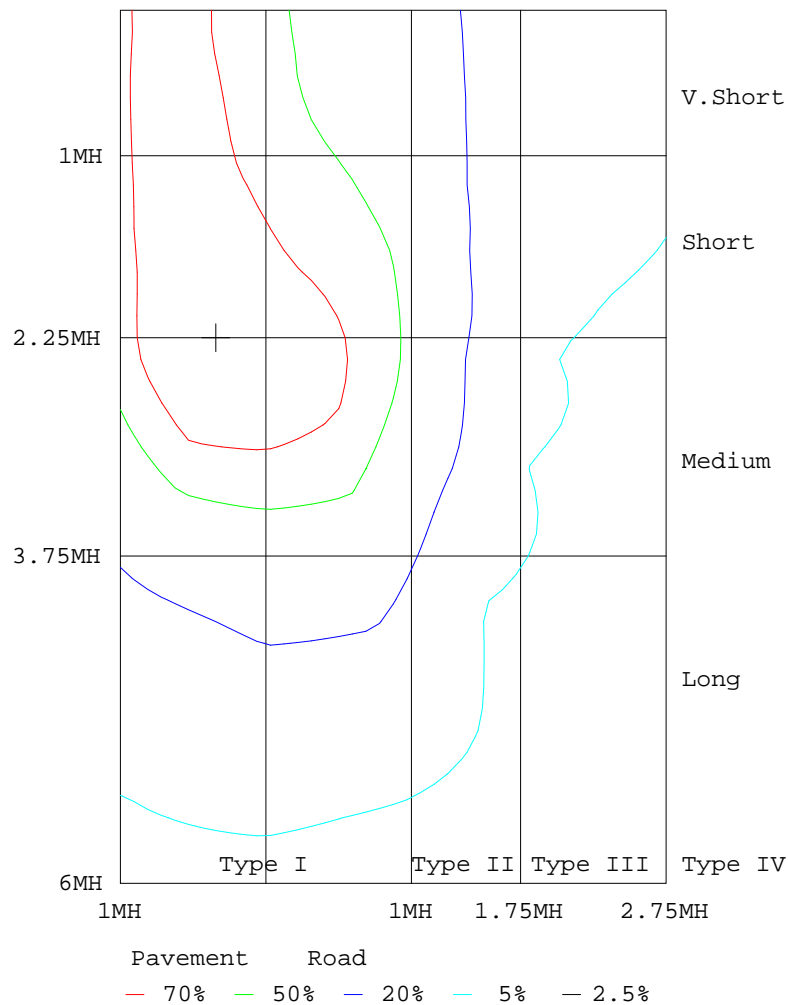
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.11.9

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	945	943	942	943	940	939	939	937	937	936	934	934	934	933	933	932	932	932	945
5	950	954	965	970	977	983	988	990	992	989	988	985	982	976	969	961	954	943	948
10	957	974	995	1009	1025	1031	1040	1045	1051	1049	1047	1044	1037	1027	1018	1003	987	966	958
15	965	993	1020	1041	1065	1081	1098	1106	1110	1111	1110	1106	1093	1077	1060	1038	1014	985	967
20	974	1016	1052	1086	1114	1132	1156	1181	1192	1193	1189	1174	1149	1126	1106	1076	1039	998	970
25	982	1040	1094	1138	1176	1216	1241	1259	1277	1281	1273	1256	1233	1206	1160	1120	1071	1018	973
30	996	1069	1140	1209	1270	1317	1366	1381	1397	1404	1393	1368	1344	1292	1247	1172	1109	1041	980
35	1024	1110	1194	1301	1395	1466	1487	1459	1445	1447	1445	1449	1469	1428	1352	1258	1150	1070	997
40	1050	1152	1285	1433	1548	1549	1488	1398	1334	1328	1338	1401	1478	1521	1501	1366	1227	1102	1015
45	1092	1205	1411	1599	1604	1482	1308	1164	1064	1049	1074	1179	1317	1474	1571	1531	1326	1141	1047
50	1157	1327	1588	1667	1497	1213	949	755	627	608	649	784	981	1231	1495	1621	1499	1248	1103
55	1260	1503	1692	1563	1163	764	477	332	264	253	277	361	509	803	1197	1560	1629	1382	1189
60	1358	1648	1659	1237	680	335	195	154	150	153	152	159	208	367	730	1285	1635	1551	1277
65	1578	1753	1433	741	280	145	124	124	128	134	128	126	128	155	312	824	1491	1700	1466
70	1299	1358	877	285	113	101	102	105	115	124	114	106	105	107	128	352	1016	1451	1426
75	435	431	241	81.7	74.9	78.4	80.8	84.3	82.2	84.0	83.3	84.7	82.0	80.9	82.1	101	317	559	637
80	46.7	69.9	65.3	47.3	47.3	52.4	60.9	57.9	52.9	56.4	53.0	58.3	61.2	53.5	51.7	54.4	81.6	79.4	85.3
85	19.4	42.6	28.9	17.7	23.7	23.9	24.2	24.3	24.8	4.17	24.5	25.0	25.3	25.1	25.3	19.7	35.8	44.0	25.9
90	2.44	2.28	1.99	1.78	1.64	1.75	1.79	2.33	2.37	0.34	2.04	2.59	2.14	2.04	1.97	2.17	2.21	2.49	3.06
95	3.09	2.84	2.38	1.86	1.37	0.96	0.67	0.55	0.45	0.47	0.44	0.52	0.62	0.85	1.22	1.72	2.22	2.70	3.38
100	3.95	3.62	3.08	2.48	1.91	1.41	1.04	0.83	0.74	0.69	0.70	0.78	0.98	1.26	1.75	2.32	2.93	3.50	4.30
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	943	942	943	940	939	939	937	937	936	934	934	934	933	933	932	932	932		
5	939	927	916	907	898	891	884	883	881	882	882	888	893	900	909	918	927		
10	937	914	894	879	865	856	850	847	845	846	850	854	861	872	886	903	921		
15	935	901	875	858	839	826	816	809	809	810	815	825	838	853	870	892	920		
20	926	886	858	835	812	795	781	774	770	775	780	792	812	832	855	881	917		
25	918	873	840	811	783	761	744	734	729	733	745	762	784	812	841	871	913		
30	914	865	826	790	754	726	709	697	692	696	709	728	760	793	830	868	915		
35	919	862	813	769	727	698	680	673	670	671	674	701	733	777	823	873	925		
40	927	865	808	753	706	675	655	634	626	628	641	672	717	767	824	881	942		
45	952	878	811	741	681	639	603	572	552	564	588	635	691	764	834	901	973		
50	997	908	814	722	651	579	516	469	442	462	500	576	662	746	844	938	1027		
55	1057	946	814	697	572	450	355	299	278	295	342	446	581	718	849	987	1098		
60	1145	989	808	588	380	242	177	152	147	150	172	238	381	596	835	1035	1198		
65	1278	1019	675	350	171	114	114	124	129	123	113	112	168	348	680	1048	1326		
70	1235	806	329	120	92.1	94.3	97.5	105	105	104	96.8	93.3	90.8	115	312	789	1194		
75	632	237	76.3	72.1	71.6	71.0	63.5	65.9	72.2	64.4	62.0	69.2	69.7	69.3	72.8	196	537		
80	68.0	51.6	48.7	36.4	34.0	37.0	33.7	38.9	40.8	37.9	32.8	35.7	31.7	33.3	44.5	46.7	49.4		
85	27.5	24.2	14.2	12.2	10.3	10.2	8.50	7.07	2.21	6.71	7.99	9.48	9.43	11.1	12.7	19.3	21.2		
90	2.85	3.45	2.27	1.84	1.46	1.30	1.09	0.72	0.53	0.70	0.94	1.18	1.50	1.92	2.32	2.63	2.79		
95	3.40	3.16	2.63	1.97	1.29	0.88	0.72	0.66	0.61	0.66	0.74	0.99	1.50	2.16	2.79	3.23	3.45		
100	4.31	4.04	3.52	2.84	2.07	1.48	1.13	1.03	1.00	1.06	1.26	1.65	2.30	3.04	3.64	4.10	4.33		
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