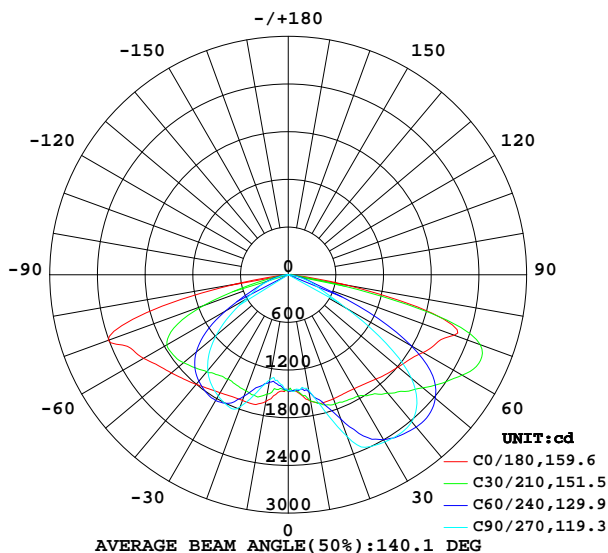
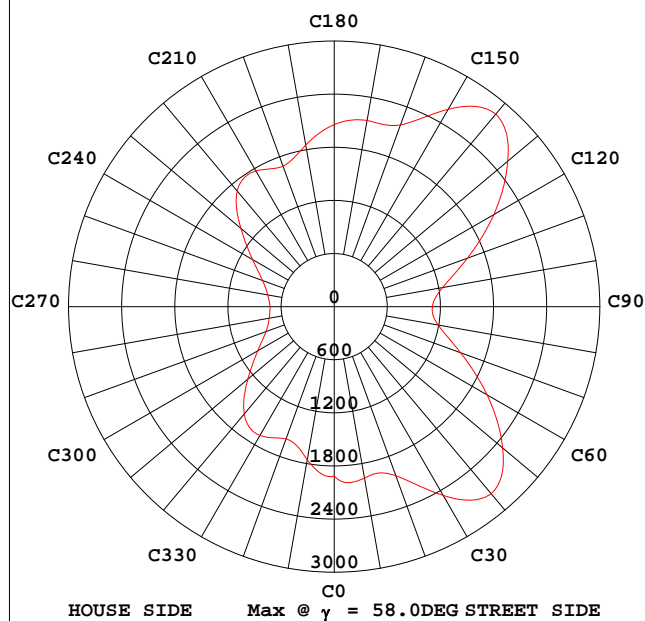


STREETLIGHT PHOTOMETRIC TEST REPORT

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

DATA OF LAMP		PHOTOMETRIC DATA Eff: 115.00 lm/W			
MODEL	LD70LMA 3M 3030	Imax(cd)	2838	η street_up(%)	0.2
NOMINAL POWER(W)	70	LOR(%)	100.0	η street_down(%)	58.1
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	8050	η house_up(%)	0.2
NOMINAL FLUX(lm)	8050	MAXIMUM @ (C, γ)	140,58.0	η house_down(%)	41.5
LAMPS INSIDE	1	η up(%)	0.4	76 FLASHAREA(m2)	0.05000
TEST VOLTAGE(V)	220.1	η down(%)	99.6	SLI	23.313

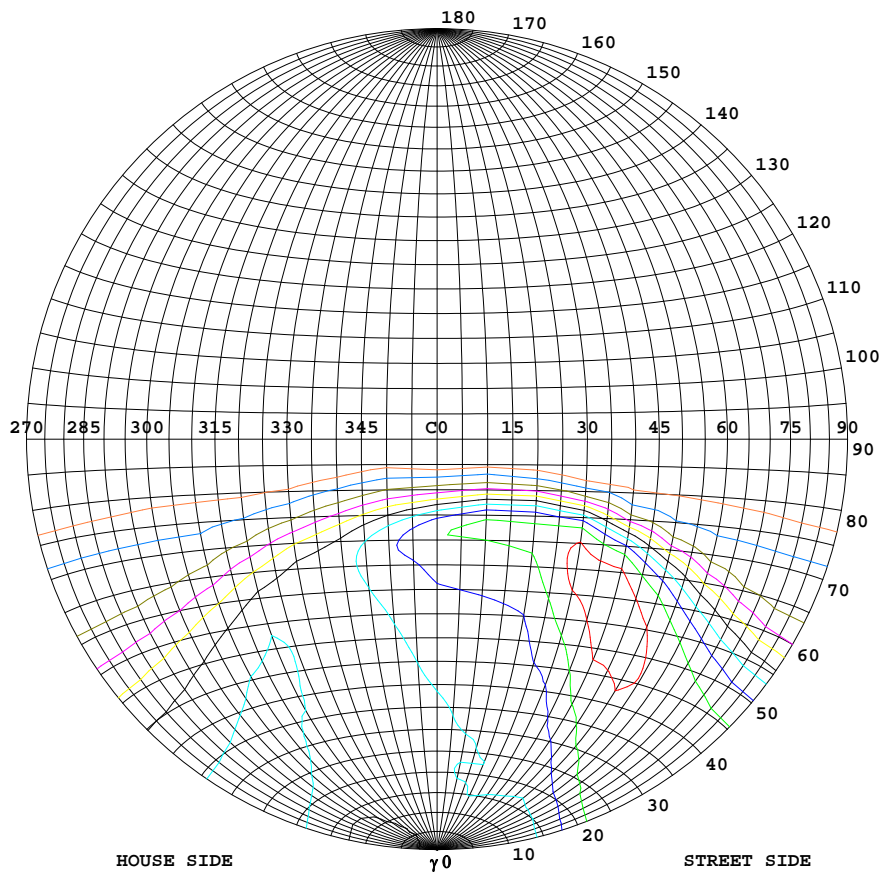
INTENSITY DISTRIBUTION DIAGRAM
IN C PLANSMAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017.10.31

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:

STREETLIGHT ISOCANDELA DIAGRAM

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



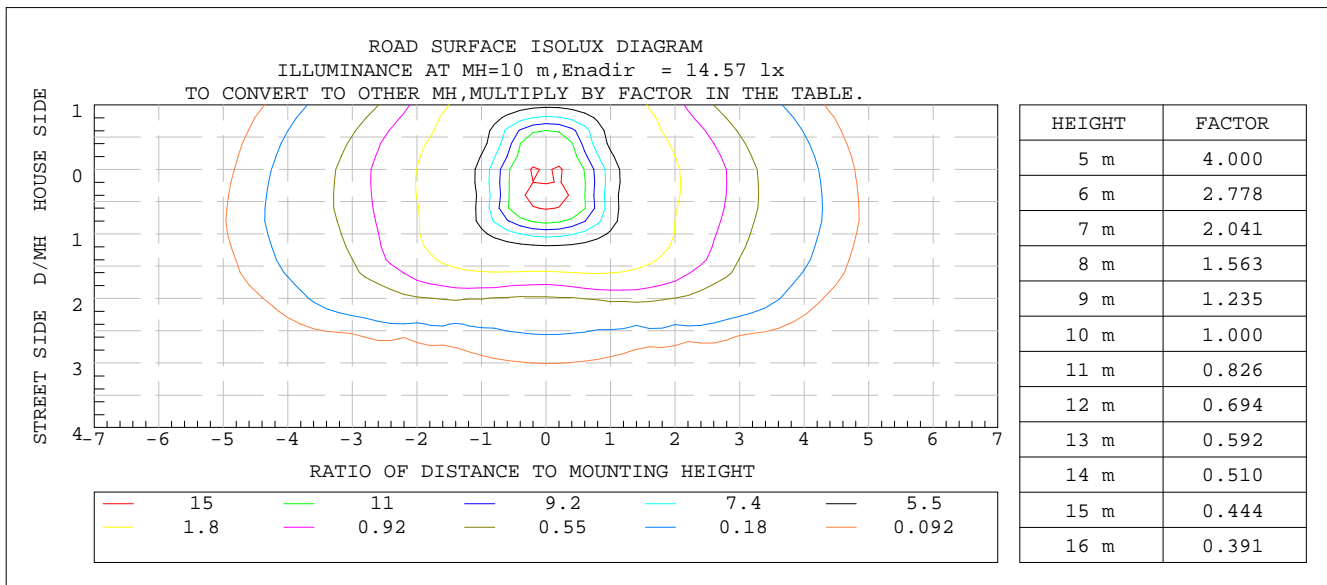
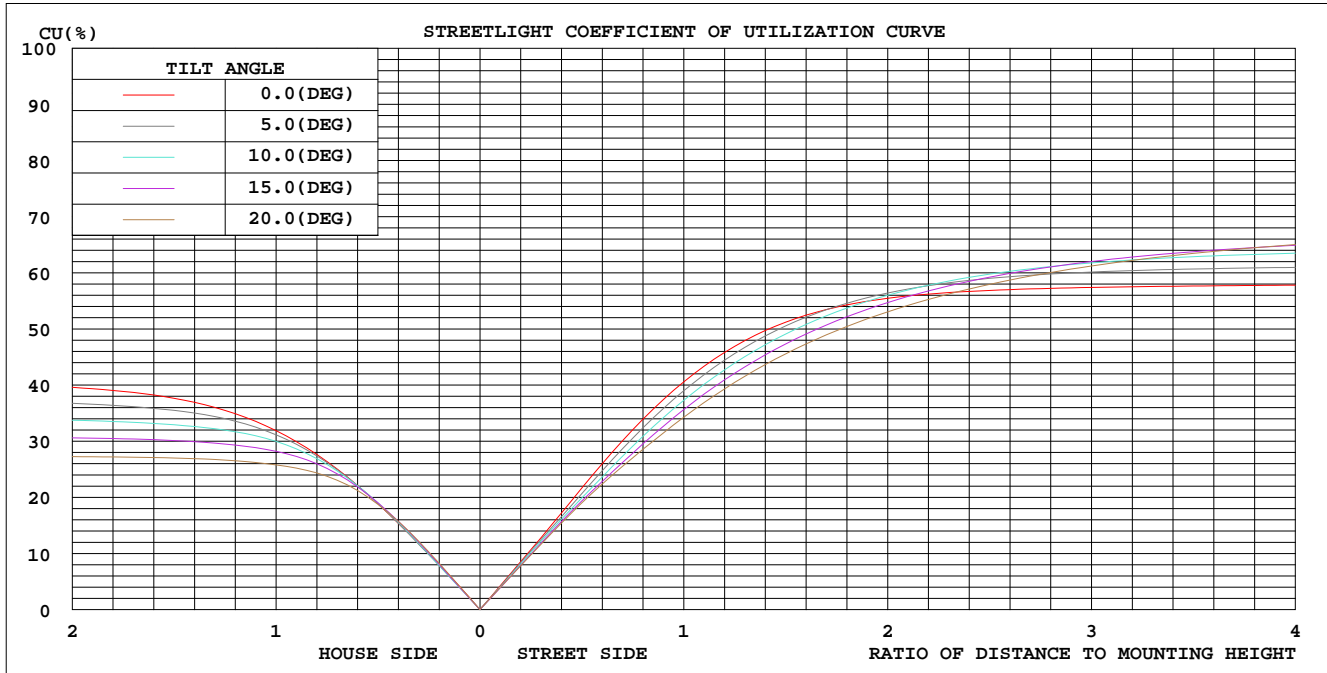
Classification:

IES:Type III - Short
 CIE:Broad - Short
 IES:Semi cut-off
 CIE:Non-cut-off
 Max.At80:113.8cd/klm
 Max.At90:9.946cd/klm
 Max.80-90:113.8cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2838
90%	2554
80%	2271
70%	1987
60%	1703
50%	1419
40%	1135
30%	851
20%	568
10%	284
5%	142

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2017.10.31

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:

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: 2017.10.31

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:

ZONAL FLUX DIAGRAM

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

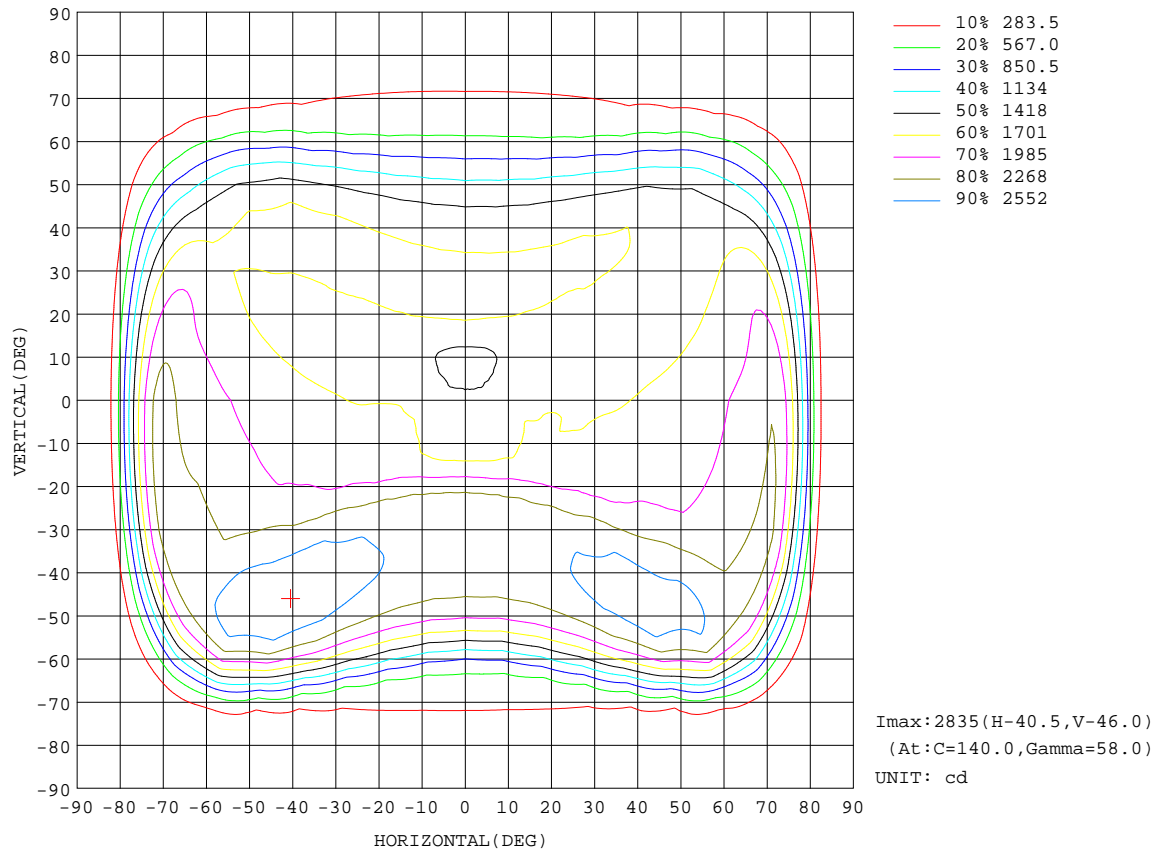
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	1615	1541	1471	1559	1619	1448	1347	1436	0- 10	139.6	139.6	1.73,1.73
20	1662	1769	2165	1811	1684	1530	1770	1508	10- 20	464.1	603.8	7.5,7.5
30	1656	2107	2429	2185	1715	1696	1763	1667	20- 30	852.4	1456	18.1,18.1
40	1715	2423	2417	2500	1801	1808	1575	1744	30- 40	1211	2667	33.1,33.1
50	1807	2620	2019	2692	1921	1774	1182	1672	40- 50	1498	4165	51.7,51.7
60	1958	2572	850.1	2644	2102	1424	624.9	1315	50- 60	1593	5758	71.5,71.5
70	2225	1507	335.7	1578	2412	554.8	334.5	527.9	60- 70	1385	7143	88.7,88.7
80	727.2	146.2	78.51	153.7	648.9	119.9	77.95	117.0	70- 80	783.2	7926	98.5,98.5
90	5.591	26.54	4.504	25.43	6.374	23.50	4.897	23.96	80- 90	91.48	8018	99.6,99.6
100	8.302	22.21	7.155	20.73	8.942	22.53	8.843	23.52	90-100	31.00	8049	100,100
110	0	0	0	0	0	0	0	0	100-110	1.347	8050	100,100
120	0	0	0	0	0	0	0	0	110-120	0	8050	100,100
130	0	0	0	0	0	0	0	0	120-130	0	8050	100,100
140	0	0	0	0	0	0	0	0	130-140	0	8050	100,100
150	0	0	0	0	0	0	0	0	140-150	0	8050	100,100
160	0	0	0	0	0	0	0	0	150-160	0	8050	100,100
170	0	0	0	0	0	0	0	0	160-170	0	8050	100,100
180	0	0	0	0	0	0	0	0	170-180	0	8050	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:2017.10.31

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:

ISOCANDELA DIAGRAM

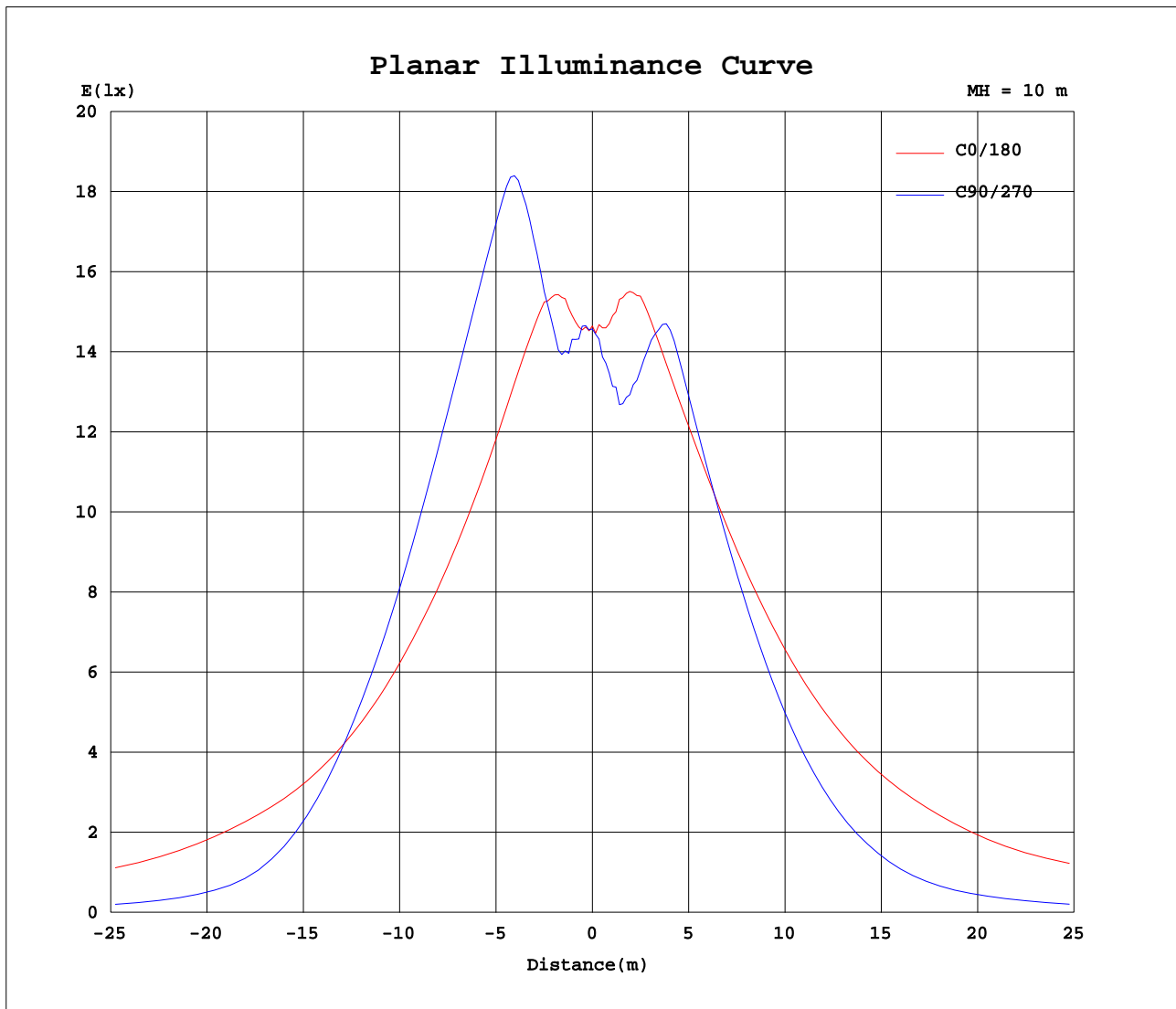
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:21cm*16cm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.10.31

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:

Planar Illuminance Curve



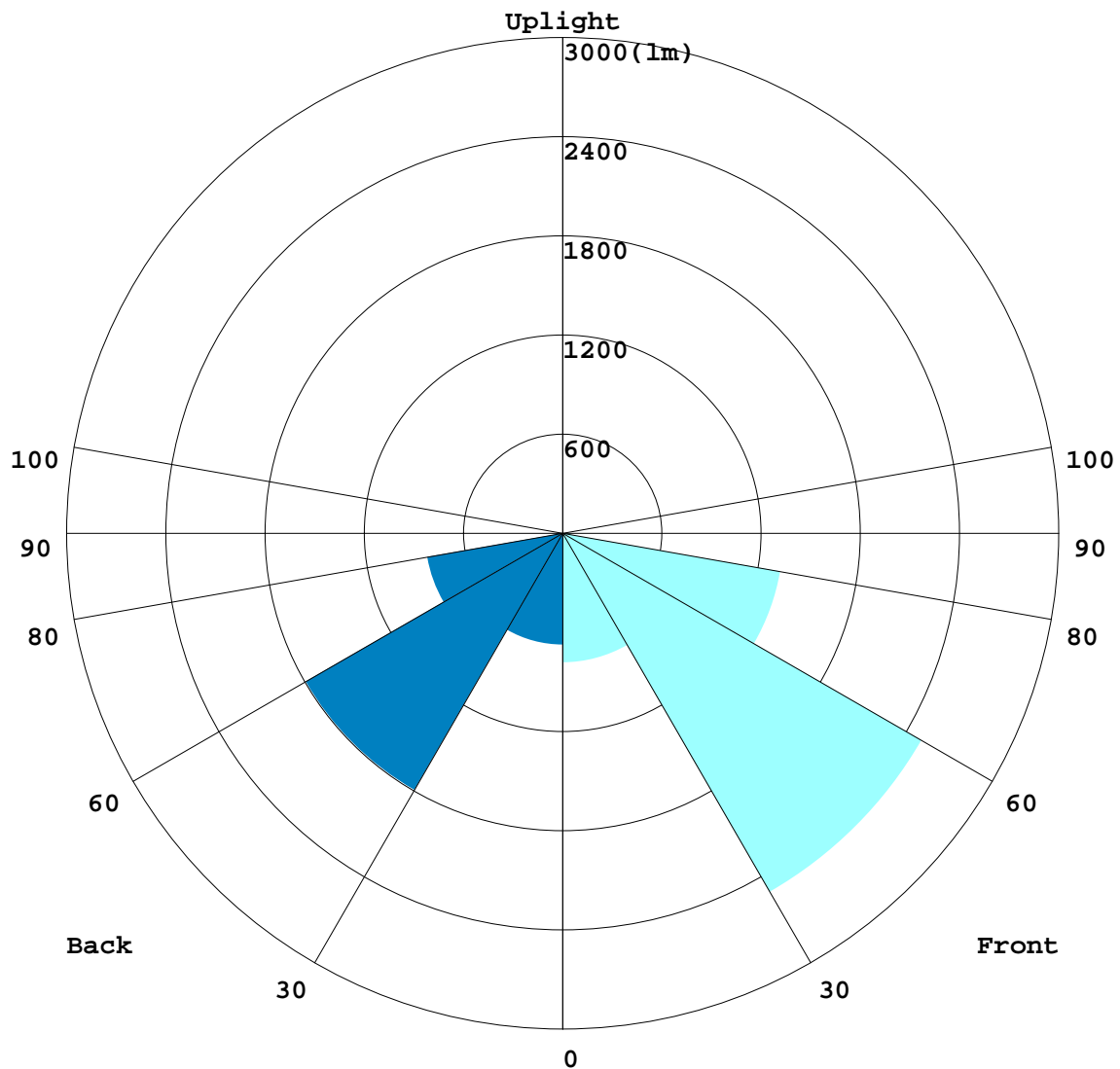
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2017.10.31

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:

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:2017.10.31

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:

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)	782.13	9.7
FM - Front-Medium(30-60)	2506.9	31.1
FH - Front-High(60-80)	1336.5	16.6
FVH - Front-Very High(80-90)	52.145	0.6
Total Forward Light	4694.3	58.3

BL - Back-Low(0-30)	674.04	8.4
BM - Back-Medium(30-60)	1794.5	22.3
BH - Back-High(60-80)	831.93	10.3
BVH - Back-Very High(80-90)	39.34	0.5
Total Back Light	3355.6	41.7

UL - Uplight-Low(90-100)	30.996	0.4
UH - Uplight-High(100-180)	1.3466	0.0
Total Up Light	32.342	0.4

BUG(Back,Up,Glare) Rating	B2-U2-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3339.8	15.723	3355.6
Street Side	4677.7	16.62	4694.3

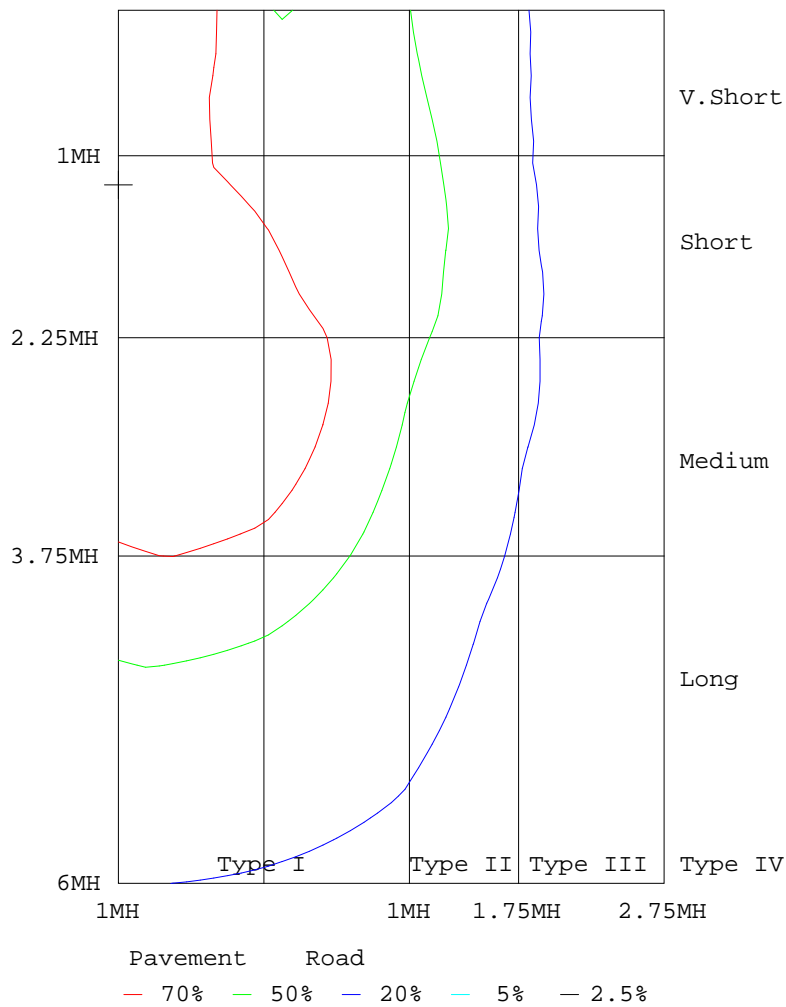
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2017.10.31

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:

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:2017.10.31

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

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

Table--1

UNIT: cd

C(°) γ (°)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	1465	1467	1465	1465	1465	1462	1465	1460	1464	1457	1463	1455	1460	1454	1457	1452	1452	1449	1465
5	1492	1489	1497	1478	1479	1463	1463	1449	1459	1447	1464	1456	1469	1470	1484	1482	1494	1492	1487
10	1615	1632	1623	1612	1559	1522	1499	1487	1472	1471	1482	1497	1508	1536	1582	1637	1648	1646	1619
15	1670	1672	1709	1693	1688	1650	1657	1703	1756	1773	1760	1712	1676	1679	1723	1742	1755	1712	1688
20	1662	1711	1706	1726	1740	1799	1932	2039	2145	2165	2156	2064	1961	1835	1787	1783	1763	1762	1684
25	1653	1685	1713	1746	1808	2022	2238	2344	2381	2390	2392	2369	2277	2075	1874	1804	1784	1741	1690
30	1656	1712	1737	1766	1968	2246	2398	2420	2423	2429	2434	2445	2443	2320	2050	1837	1827	1795	1715
35	1679	1743	1779	1841	2152	2416	2466	2451	2443	2446	2454	2477	2511	2479	2237	1925	1866	1826	1751
40	1715	1775	1808	1946	2330	2516	2503	2457	2421	2417	2435	2486	2550	2581	2418	2050	1908	1870	1801
45	1761	1817	1858	2077	2468	2591	2499	2390	2306	2290	2324	2423	2553	2655	2557	2188	1975	1922	1857
50	1807	1856	1912	2213	2619	2620	2416	2210	2056	2019	2083	2258	2480	2686	2698	2338	2024	1987	1921
55	1862	1916	1984	2375	2720	2567	2220	1851	1575	1503	1617	1919	2294	2640	2802	2480	2113	2070	1995
60	1958	2018	2079	2528	2761	2384	1787	1266	930	850	981	1351	1887	2463	2825	2645	2229	2194	2102
65	2051	2145	2198	2644	2604	1899	1114	633	489	489	505	695	1217	1996	2648	2742	2336	2283	2188
70	2225	2268	2344	2571	2011	1003	441	351	336	336	341	362	485	1093	2062	2606	2460	2475	2412
75	1879	2169	2117	1839	763	302	242	221	198	193	200	226	249	332	822	1782	2019	2064	1849
80	727	916	823	405	155	137	115	98.7	84.5	78.5	85.9	99.8	118	142	166	392	681	756	649
85	60.8	118	97.5	78.3	56.3	42.6	31.2	27.7	23.0	20.5	23.1	28.0	31.8	43.4	56.6	78.4	96.0	101	47.8
90	5.59	80.1	72.2	51.8	32.5	20.6	13.9	9.69	6.60	4.50	6.48	9.46	13.5	19.7	31.1	49.7	69.1	77.2	6.37
95	6.85	73.5	65.4	47.0	30.5	20.4	14.5	10.5	7.43	5.73	7.21	10.1	13.8	19.4	28.8	44.3	61.2	69.2	7.45
100	8.30	57.8	51.0	37.1	25.6	18.8	14.4	11.2	8.45	7.16	8.16	10.7	13.6	17.7	23.8	34.0	46.0	52.4	8.94
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:2017.10.31

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:

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	1467	1465	1465	1465	1462	1465	1460	1464	1457	1463	1455	1460	1454	1457	1452	1452	1449		
5	1482	1461	1451	1413	1406	1396	1372	1365	1362	1366	1366	1388	1405	1406	1451	1472	1478		
10	1591	1555	1524	1478	1417	1374	1361	1341	1347	1332	1355	1368	1405	1466	1504	1547	1584		
15	1686	1627	1581	1516	1471	1462	1481	1511	1532	1512	1479	1449	1457	1496	1551	1595	1647		
20	1647	1616	1553	1520	1540	1626	1694	1744	1770	1741	1689	1617	1531	1485	1525	1580	1602		
25	1649	1595	1535	1540	1667	1785	1828	1825	1817	1816	1812	1774	1655	1508	1488	1544	1616		
30	1659	1581	1514	1616	1776	1828	1804	1776	1763	1765	1780	1795	1749	1585	1475	1524	1599		
35	1662	1569	1539	1702	1827	1805	1747	1706	1688	1693	1717	1759	1778	1671	1494	1516	1608		
40	1685	1577	1595	1787	1828	1749	1664	1604	1575	1587	1628	1695	1760	1729	1537	1514	1632		
45	1718	1585	1657	1821	1796	1661	1534	1450	1410	1428	1491	1594	1713	1750	1598	1520	1650		
50	1758	1614	1721	1838	1711	1511	1339	1230	1182	1207	1291	1437	1612	1732	1642	1534	1679		
55	1811	1656	1764	1782	1541	1267	1062	950	904	929	1014	1194	1434	1671	1664	1569	1721		
60	1884	1710	1764	1614	1234	912	721	650	625	638	690	851	1136	1493	1661	1604	1789		
65	1994	1705	1590	1231	783	559	473	462	459	459	462	527	720	1140	1506	1630	1883		
70	1966	1472	1130	682	428	355	345	340	335	338	340	347	406	650	1116	1467	1923		
75	1394	867	497	301	235	224	203	187	176	184	198	220	230	297	514	921	1420		
80	516	259	154	125	115	106	93.3	86.1	77.9	84.3	91.1	103	112	122	157	310	581		
85	99.2	75.3	56.2	44.7	37.0	31.2	27.8	25.2	21.4	24.6	27.3	30.4	36.0	44.5	56.1	78.7	108		
90	69.3	57.6	40.7	27.5	19.5	14.1	10.2	7.12	4.90	6.99	10.1	14.3	19.7	28.2	42.1	60.5	73.8		
95	63.2	53.4	38.6	27.3	20.4	15.6	11.6	8.51	6.65	8.50	11.8	15.9	20.9	28.3	40.4	56.8	68.8		
100	49.7	43.0	32.7	25.0	20.1	16.4	13.0	10.2	8.84	10.3	13.4	17.0	20.9	26.2	34.8	46.9	55.9		
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:2017.10.31

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: