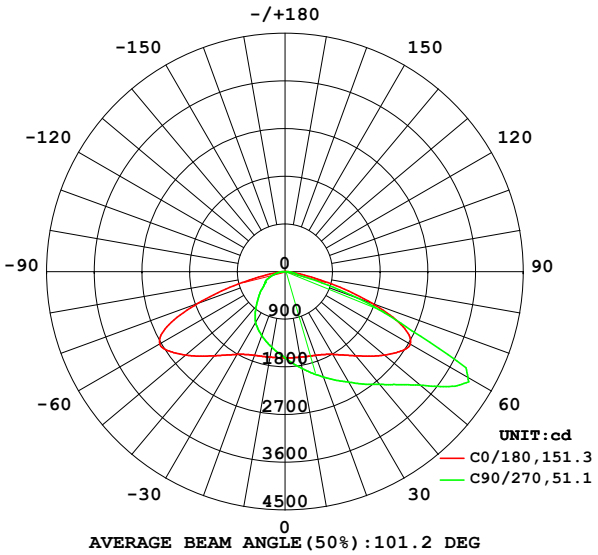
STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.1V I:0.3257A P:72.80W PF:0.9716 Lamp Flux:9127.79x1 lm		
NAME: WP01-70	TYPE:70W	WEIGHT:
SPEC.:5000K Ra80 40*150DEG R08401	DIM.: 0.296*0.15*0.223	SERIAL No.:
MFR.:	SUR.:0.265*0.085	Shielding Angle:

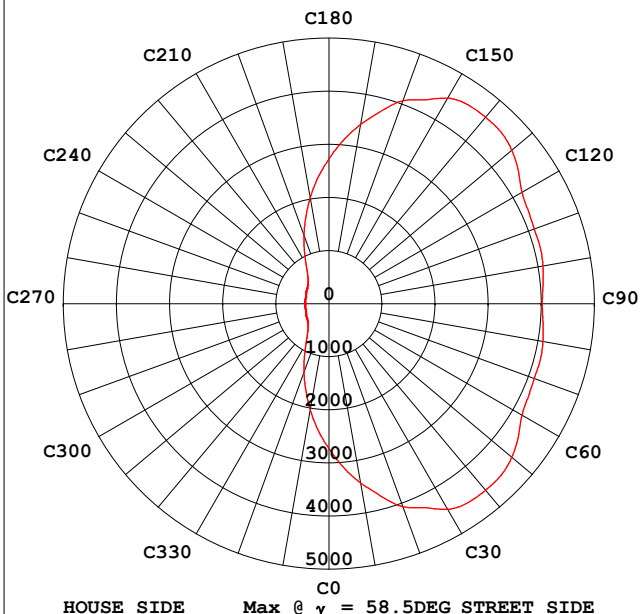
DATA OF LAMP		PHOTOMETRIC DATA Eff: 125.38 lm/W			
MODEL	WP01-70	Imax(cd)	4586	η street_up(%)	0.0
NOMINAL POWER(W)	70	LOR(%)	100.0	η street_down(%)	72.7
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	9128	η house_up(%)	0.0
NOMINAL FLUX(lm)	9127.79	MAXIMUM @(C,γ)	40,58.5	η house_down(%)	27.3
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	230	η down(%)	100.0	SLI	

INTENSITY DISTRIBUTION DIAGRAM
IN C PLANS



AVERAGE BEAM ANGLE(50%):101.2 DEG

MAX INTENSITY CONE SURFACE
DISTRIBUTION DIAGRAM



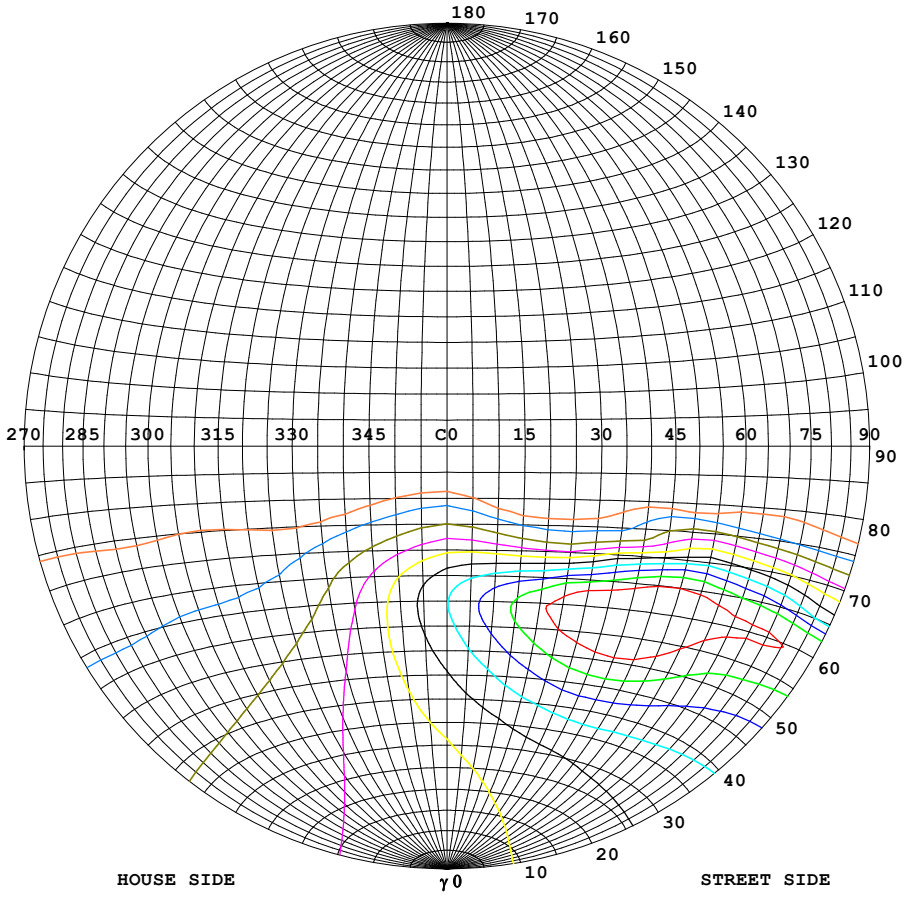
HOUSE SIDE Max @ γ = 58.5DEG STREET SIDE

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Note: SLI:Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM



Classification:

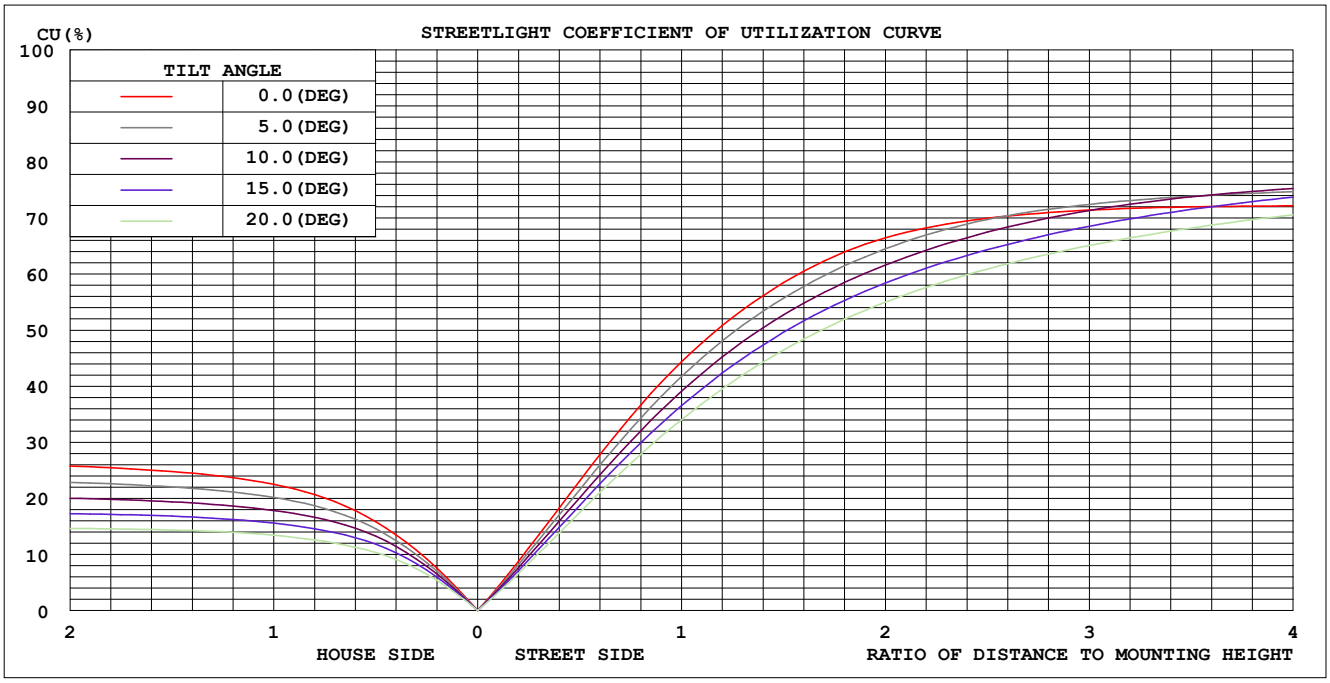
IES:Type III - Short
CIE:Broad - Short
IES:Full cut-off
CIE:Semi-cut-off
Max.At80:36.66cd/klm
Max.At90:0cd/klm
Max.80-90:36.66cd/klm

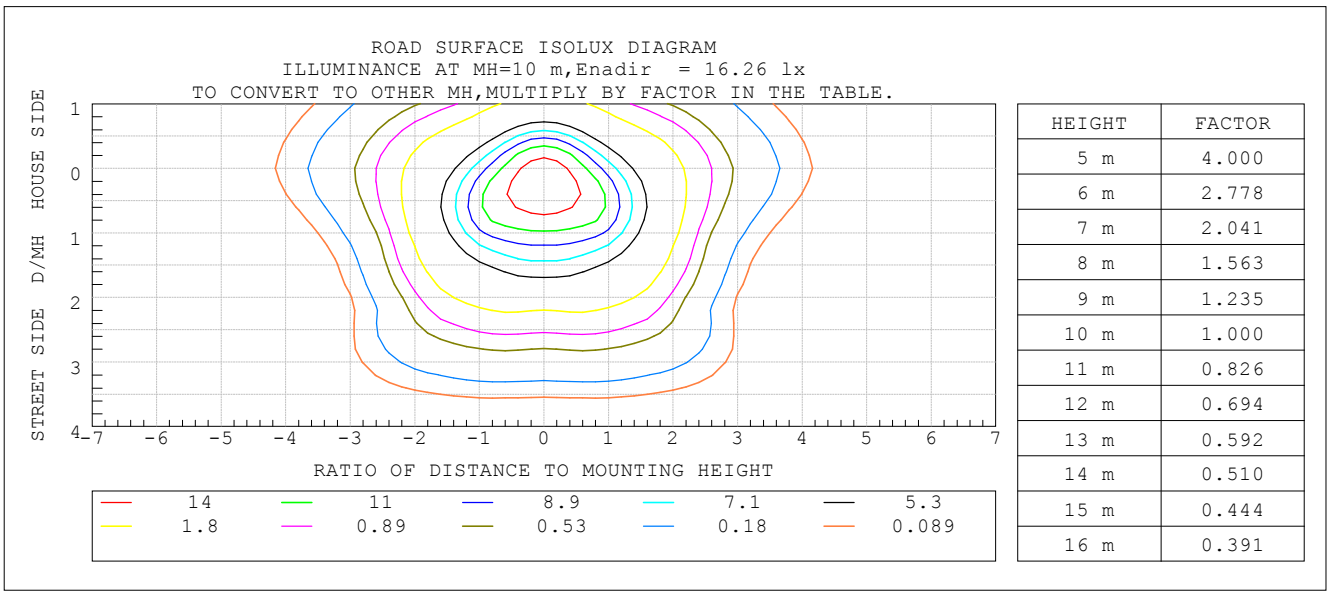
ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4586
90%	4128
80%	3669
70%	3210
60%	2752
50%	2293
40%	1834
30%	1376
20%	917
10%	459
5%	229

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

COEFFICIENT OF UTILIZATION CURVE AND ISOLUX DIAGRAM





HEIGHT	FACTOR
5 m	4.000
6 m	2.778
7 m	2.041
8 m	1.563
9 m	1.235
10 m	1.000
11 m	0.826
12 m	0.694
13 m	0.592
14 m	0.510
15 m	0.444
16 m	0.391

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

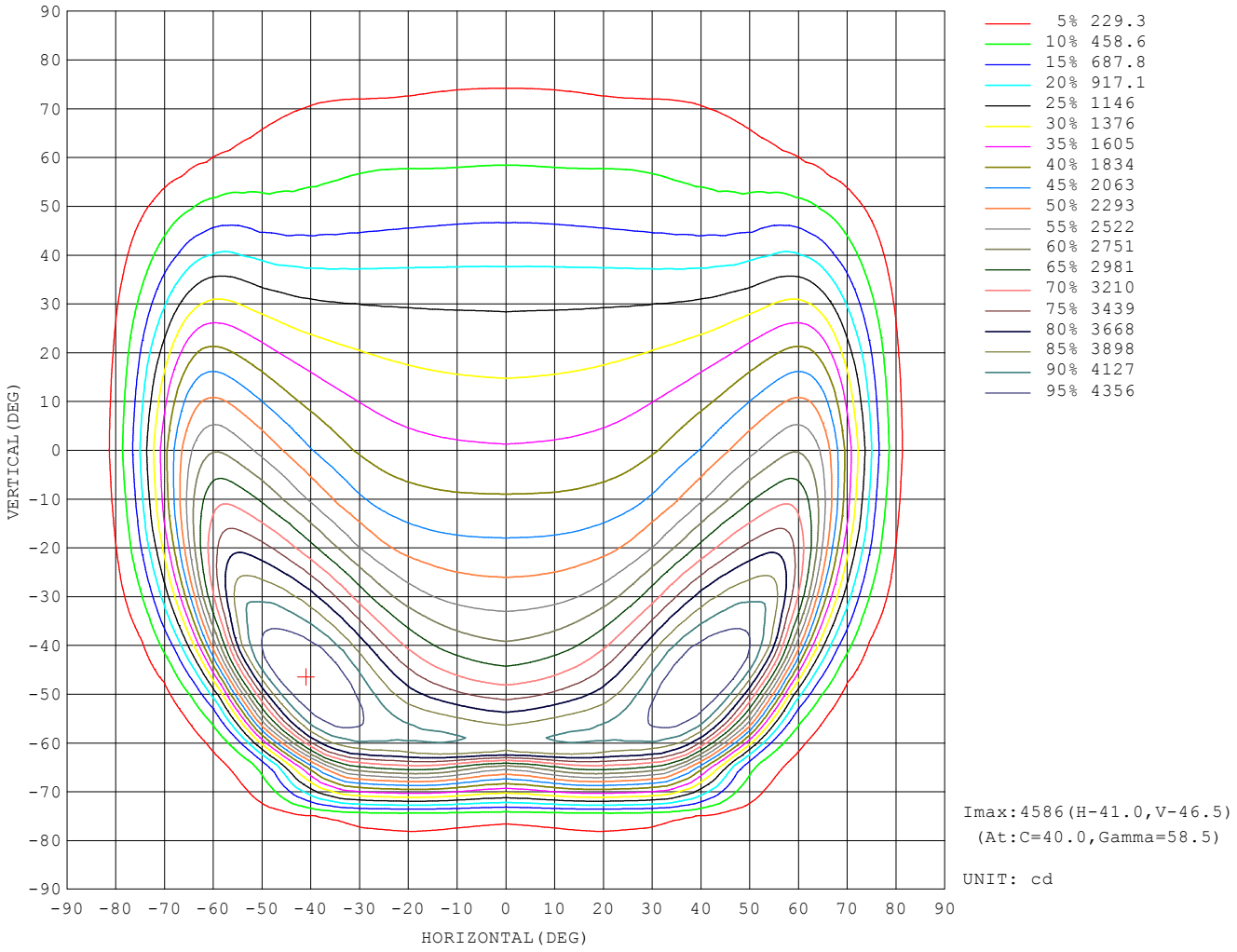
ZONAL FLUX DIAGRAM

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
5	1632	1710	1741	1710	1632	1568	1539	1568	0- 5	39.07	39.07	0.43,0.43
10	1641	1796	1856	1796	1641	1512	1452	1512	5- 10	117.7	156.8	1.72,1.72
15	1657	1886	1985	1886	1657	1458	1370	1458	10- 15	197.1	353.9	3.88,3.88
20	1684	1999	2115	1999	1684	1405	1289	1405	15- 20	277.8	631.8	6.92,6.92
25	1728	2135	2261	2135	1728	1350	1203	1350	20- 25	360.4	992.2	10.9,10.9
30	1806	2324	2407	2324	1806	1287	1117	1287	25- 30	447.3	1439	15.8,15.8
35	1924	2609	2593	2609	1924	1211	984.6	1211	30- 35	542.2	1982	21.7,21.7
40	2075	2982	2779	2982	2075	1117	851.8	1117	35- 40	648.2	2630	28.8,28.8
45	2261	3472	3019	3472	2261	975.5	721.6	975.5	40- 45	766.8	3397	37.2,37.2
50	2454	4021	3336	4021	2454	816.9	616.3	816.9	45- 50	899.0	4296	47.1,47.1
55	2636	4450	3782	4450	2636	656.0	506.9	656.0	50- 55	1038	5333	58.4,58.4
60	2734	4559	3986	4559	2734	522.3	442.7	522.3	55- 60	1155	6488	71.1,71.1
65	2460	4094	2634	4094	2460	419.4	398.3	419.4	60- 65	1142	7630	83.6,83.6
70	1746	2335	1445	2335	1746	347.4	305.9	347.4	65- 70	850.4	8480	92.9,92.9
75	922.1	898.7	256.2	898.7	922.1	233.5	213.6	233.5	70- 75	426.1	8907	97.6,97.6
80	334.6	158.7	173.1	158.7	334.6	112.9	144.4	112.9	75- 80	144.4	9051	99.2,99.2
85	64.63	81.51	90.04	81.51	64.63	58.62	75.23	58.62	80- 85	58.33	9109	99.8,99.8
90	0	0	0	0	0	0	0	0	85- 90	18.52	9128	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

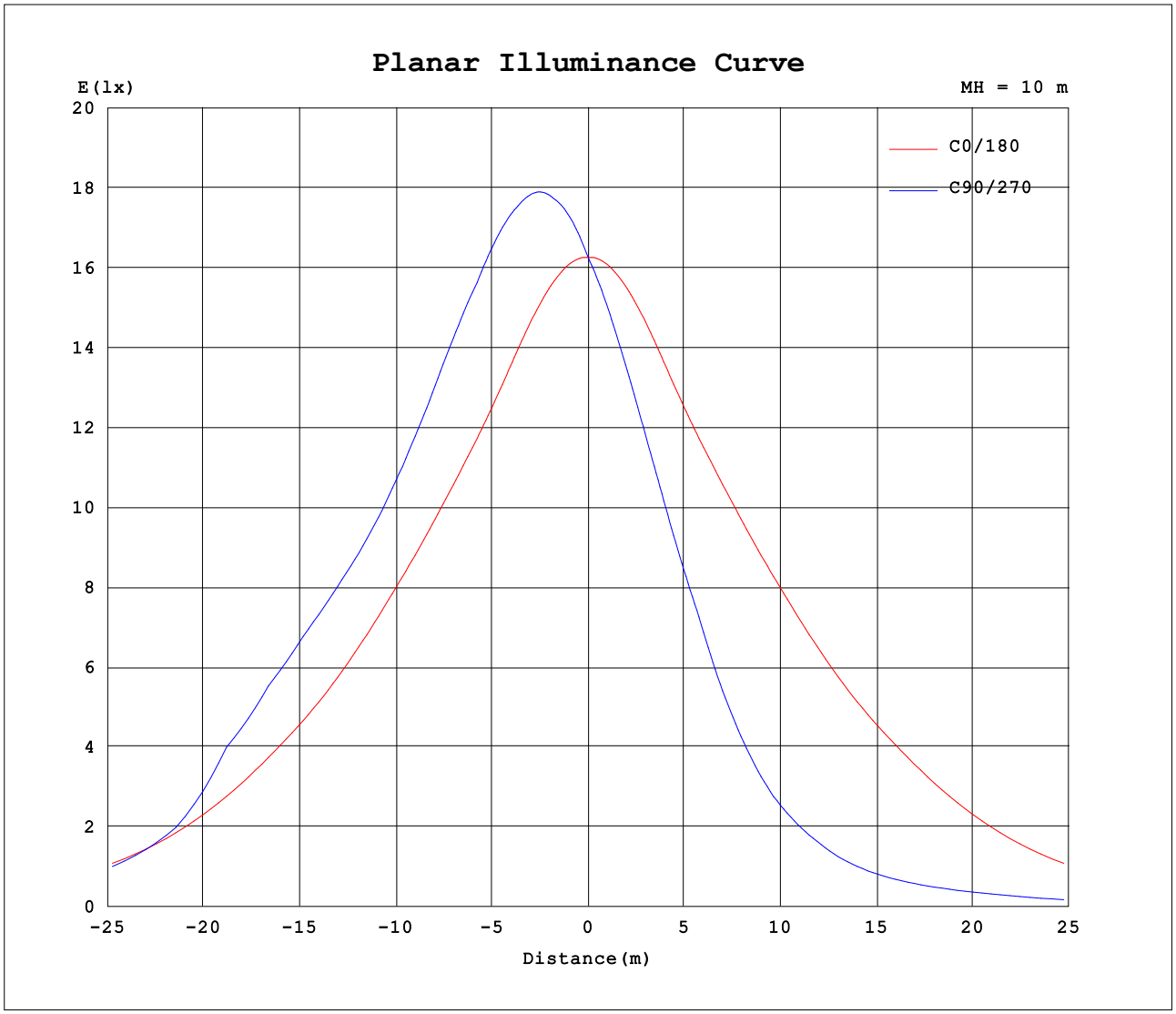
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

Planar Illuminance Curve



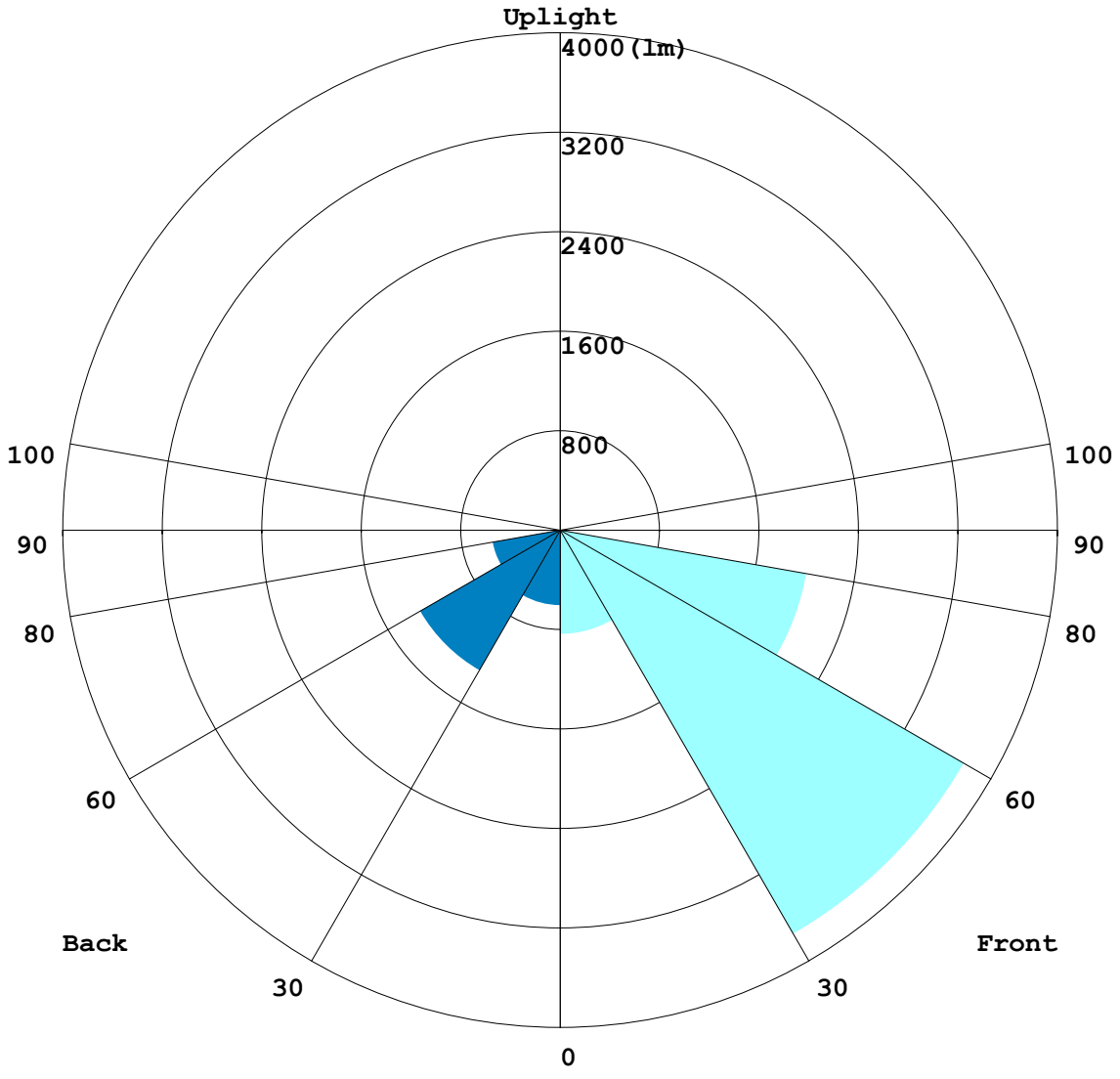
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LCS REPORT

Test:U:230.1V I:0.3257A P:72.80W PF:0.9716 Lamp Flux:9127.79x1 lm		
NAME: WP01-70	TYPE:70W	WEIGHT:
SPEC.:5000K Ra80 40*150DEG R08401	DIM.: 0.296*0.15*0.223	SERIAL No.:
MFR.:	SUR.:0.265*0.085	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

BUG REPORT

Test:U:230.1V I:0.3257A P:72.80W PF:0.9716 Lamp Flux:9127.79x1 lm		
NAME: WP01-70	TYPE:70W	WEIGHT:
SPEC.:5000K Ra80 40*150DEG R08401	DIM.: 0.296*0.15*0.223	SERIAL No.:
MFR.:	SUR.:0.265*0.085	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	834.61	9.1
FM - Front-Medium(30-60)	3748.9	41.1
FH - Front-High(60-80)	2011.1	22.0
FVH - Front-Very High(80-90)	41.479	0.5
Total Forward Light	6636	72.7
BL - Back-Low(0-30)	604.85	6.6
BM - Back-Medium(30-60)	1299.9	14.2
BH - Back-High(60-80)	551.67	6.0
BVH - Back-Very High(80-90)	35.378	0.4
Total Back Light	2491.7	27.3
UL - Uplight-Low(90-100)	0	0.0
UH - Uplight-High(100-180)	0	0.0
Total Up Light	0	0.0

BUG(Back,Up,Glare) Rating	B2-U0-G2

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2491.7	0	2491.7
Street Side	6636	0	6636

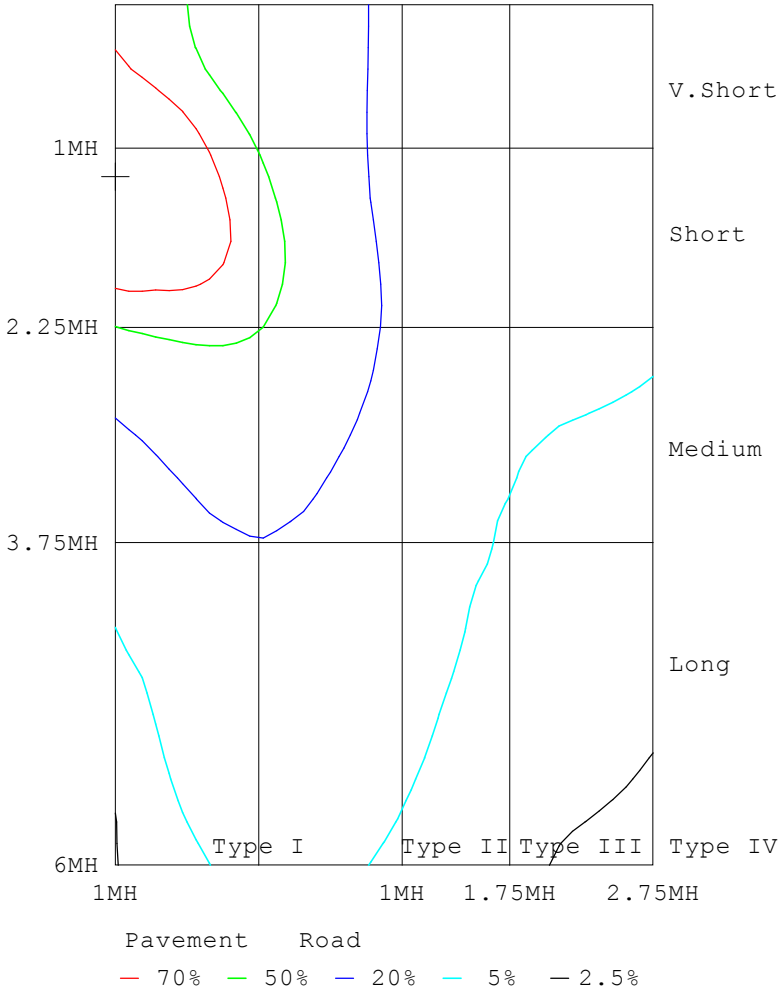
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

ROAD ISOCANDELA REPORT

Test:U:230.1V I:0.3257A P:72.80W PF:0.9716 Lamp Flux:9127.79x1 lm		
NAME: WP01-70	TYPE:70W	WEIGHT:
SPEC.:5000K Ra80 40*150DEG R08401	DIM.: 0.296*0.15*0.223	SERIAL No.:
MFR.:	SUR.:0.265*0.085	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626
5	1632	1641	1651	1661	1670	1679	1688	1696	1703	1710	1717	1723	1728	1732	1736	1738	1740	1741	1741
10	1641	1660	1680	1698	1717	1734	1751	1767	1782	1796	1808	1819	1829	1837	1844	1850	1854	1856	1856
15	1657	1687	1716	1744	1771	1796	1821	1843	1864	1886	1906	1925	1942	1955	1966	1975	1982	1985	1985
20	1684	1725	1765	1802	1838	1872	1904	1940	1971	1999	2025	2047	2065	2081	2093	2103	2110	2115	2115
25	1728	1784	1835	1883	1926	1976	2026	2068	2104	2135	2158	2185	2210	2227	2241	2251	2257	2261	2261
30	1806	1885	1956	2017	2083	2153	2209	2249	2284	2324	2356	2378	2390	2398	2402	2407	2408	2409	2407
35	1924	2038	2139	2226	2339	2424	2480	2542	2586	2609	2612	2608	2615	2612	2610	2609	2605	2600	2593
40	2075	2236	2377	2529	2674	2780	2890	2960	2984	2982	2971	2940	2908	2879	2849	2828	2810	2794	2779
45	2261	2475	2663	2884	3065	3240	3381	3459	3492	3472	3416	3335	3250	3182	3129	3089	3063	3039	3019
50	2454	2727	2987	3255	3495	3716	3886	3989	4042	4021	3911	3774	3644	3540	3481	3438	3399	3363	3336
55	2636	2963	3287	3598	3878	4117	4283	4440	4488	4450	4343	4168	4015	3923	3889	3875	3845	3810	3782
60	2734	3078	3410	3714	4046	4216	4473	4534	4550	4559	4518	4378	4237	4160	4160	4176	4110	4030	3986
65	2460	2675	2863	3017	3115	3389	3551	3726	3925	4094	4121	4006	3870	3666	3514	3316	3034	2759	2634
70	1746	1757	1667	1535	1441	1421	1654	1963	2132	2335	2489	2585	2402	2211	2046	1867	1674	1514	1445
75	922	820	618	433	354	336	357	363	582	899	1056	1037	870	693	550	425	331	276	256
80	335	238	112	98.1	90.7	89.7	113	147	157	159	180	200	210	208	207	198	187	178	173
85	64.6	36.8	28.2	26.1	21.8	29.1	37.5	58.0	74.4	81.5	91.7	103	108	108	107	103	97.0	92.7	90.0
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626
5	1741	1740	1738	1736	1732	1728	1723	1717	1710	1703	1696	1688	1679	1670	1661	1651	1641	1632	1624
10	1856	1854	1850	1844	1837	1829	1819	1808	1796	1782	1767	1751	1734	1717	1698	1680	1660	1641	1626
15	1985	1982	1975	1966	1955	1942	1925	1906	1886	1864	1843	1821	1796	1771	1744	1716	1687	1657	1634
20	2115	2110	2103	2093	2081	2065	2047	2025	1999	1971	1940	1904	1872	1838	1802	1765	1725	1684	1652
25	2261	2257	2251	2241	2227	2210	2185	2158	2135	2104	2068	2026	1976	1926	1883	1835	1784	1728	1685
30	2409	2408	2407	2402	2398	2390	2378	2356	2324	2284	2249	2209	2153	2083	2017	1956	1885	1806	1745
35	2600	2605	2609	2610	2612	2615	2608	2612	2609	2586	2542	2480	2424	2339	2226	2139	2038	1924	1833
40	2794	2810	2828	2849	2879	2908	2940	2971	2982	2984	2960	2890	2780	2674	2529	2377	2236	2075	1943
45	3039	3063	3089	3129	3182	3250	3335	3416	3472	3492	3459	3381	3240	3065	2884	2663	2475	2261	2074
50	3363	3399	3438	3481	3540	3644	3774	3911	4021	4042	3989	3886	3716	3495	3255	2987	2727	2454	2212
55	3810	3845	3875	3889	3923	4015	4168	4343	4450	4488	4440	4283	4117	3878	3598	3287	2963	2636	2333
60	4030	4110	4176	4160	4160	4237	4378	4518	4559	4550	4534	4473	4216	4046	3714	3410	3078	2734	2385
65	2759	3034	3316	3514	3666	3870	4006	4121	4094	3925	3726	3551	3389	3115	3017	2863	2675	2460	2156
70	1514	1674	1867	2046	2211	2402	2585	2489	2335	2132	1963	1654	1421	1441	1535	1667	1757	1746	1540
75	276	331	425	550	693	870	1037	1056	899	582	363	357	336	354	433	618	820	922	817
80	178	187	198	207	208	210	200	180	159	157	147	113	89.7	90.7	98.1	112	238	335	295
85	92.7	97.0	103	107	108	108	103	91.7	81.5	74.4	58.0	37.5	29.1	21.8	26.1	28.2	36.8	64.6	65.3
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--3 UNIT: cd

C(DEG) / γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626
5	1616	1609	1601	1594	1587	1580	1574	1568	1563	1558	1553	1549	1546	1543	1541	1540	1539	1540	1541
10	1610	1595	1580	1565	1551	1537	1524	1512	1501	1491	1481	1473	1466	1461	1456	1453	1452	1453	1456
15	1611	1587	1564	1541	1519	1497	1477	1458	1441	1426	1412	1400	1390	1382	1377	1373	1370	1373	1377
20	1619	1586	1553	1520	1489	1459	1431	1405	1381	1360	1342	1327	1314	1304	1296	1292	1289	1292	1296
25	1641	1595	1551	1506	1462	1421	1383	1350	1320	1292	1268	1249	1233	1221	1212	1207	1203	1207	1212
30	1681	1616	1553	1491	1433	1380	1332	1287	1248	1215	1188	1166	1149	1136	1127	1121	1117	1121	1127
35	1739	1645	1556	1474	1399	1327	1264	1211	1168	1132	1091	1057	1031	1012	998	989	985	989	998
40	1807	1677	1556	1446	1344	1257	1182	1117	1052	999	956	922	895	877	864	856	852	856	864
45	1881	1706	1545	1397	1268	1162	1061	975	908	855	812	779	755	737	729	724	722	724	729
50	1965	1730	1513	1321	1160	1017	904	817	750	703	671	649	636	628	622	618	616	618	622
55	2025	1729	1451	1210	1003	844	731	656	608	579	560	546	533	521	513	509	507	509	513
60	2024	1667	1338	1044	809	660	572	522	493	483	473	460	447	440	440	442	443	442	440
65	1818	1449	1115	832	620	495	440	419	416	413	402	388	383	386	392	397	398	397	392
70	1269	994	745	554	424	356	343	347	350	335	317	303	298	300	304	306	306	306	304
75	649	501	370	268	221	216	225	233	237	228	214	205	204	209	212	214	214	214	212
80	235	163	129	123	114	108	104	113	134	139	135	132	134	139	143	144	144	144	143
85	33.7	29.1	24.9	37.2	45.0	49.5	53.4	58.6	69.4	73.3	71.0	69.4	70.0	72.8	74.5	75.1	75.2	75.1	74.5
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Table--4 UNIT: cd

γ (DEG) \ C(DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626	1626				
5	1543	1546	1549	1553	1558	1563	1568	1574	1580	1587	1594	1601	1609	1616	1624				
10	1461	1466	1473	1481	1491	1501	1512	1524	1537	1551	1565	1580	1595	1610	1626				
15	1382	1390	1400	1412	1426	1441	1458	1477	1497	1519	1541	1564	1587	1611	1634				
20	1304	1314	1327	1342	1360	1381	1405	1431	1459	1489	1520	1553	1586	1619	1652				
25	1221	1233	1249	1268	1292	1320	1350	1383	1421	1462	1506	1551	1595	1641	1685				
30	1136	1149	1166	1188	1215	1248	1287	1332	1380	1433	1491	1553	1616	1681	1745				
35	1012	1031	1057	1091	1132	1168	1211	1264	1327	1399	1474	1556	1645	1739	1833				
40	877	895	922	956	999	1052	1117	1182	1257	1344	1446	1556	1677	1807	1943				
45	737	755	779	812	855	908	975	1061	1162	1268	1397	1545	1706	1881	2074				
50	628	636	649	671	703	750	817	904	1017	1160	1321	1513	1730	1965	2212				
55	521	533	546	560	579	608	656	731	844	1003	1210	1451	1729	2025	2333				
60	440	447	460	473	483	493	522	572	660	809	1044	1338	1667	2024	2385				
65	386	383	388	402	413	416	419	440	495	620	832	1115	1449	1818	2156				
70	300	298	303	317	335	350	347	343	356	424	554	745	994	1269	1540				
75	209	204	205	214	228	237	233	225	216	221	268	370	501	649	817				
80	139	134	132	135	139	134	113	104	108	114	123	129	163	235	295				
85	72.8	70.0	69.4	71.0	73.3	69.4	58.6	53.4	49.5	45.0	37.2	24.9	29.1	33.7	65.3				
90	0.00	0.00	0.00	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: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-04-12

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:9.500m [K=1.0000]
Remarks: