

HITECHLED OPTOELECTRONICS CO.,LTD.

Light Output Ratio: 100.0%

Luminaire Power: 62.4 W

I80 = 39.0 cd per klm. I88 = 18.6 cd per klm.

I90 = 16.5 cd per klm. I80/I88 = 2.092

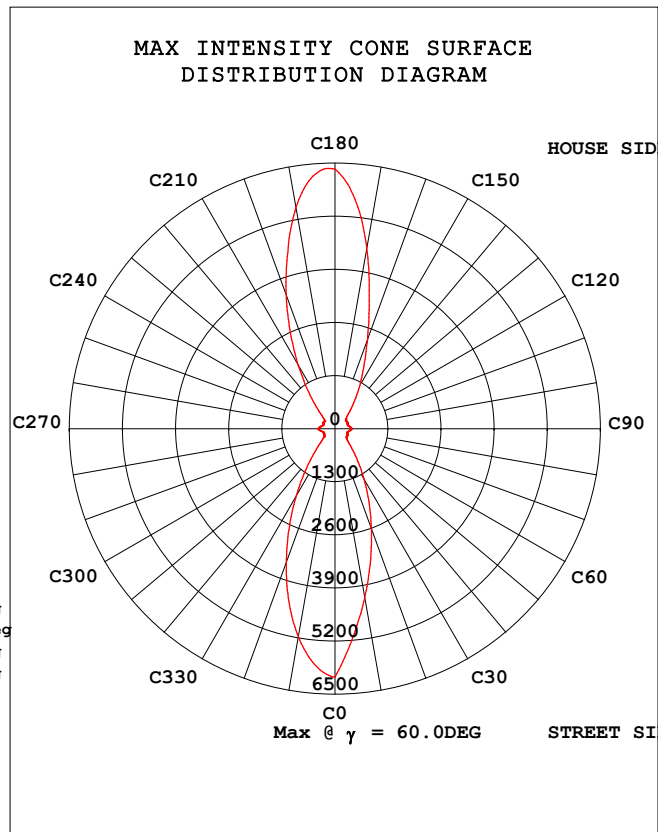
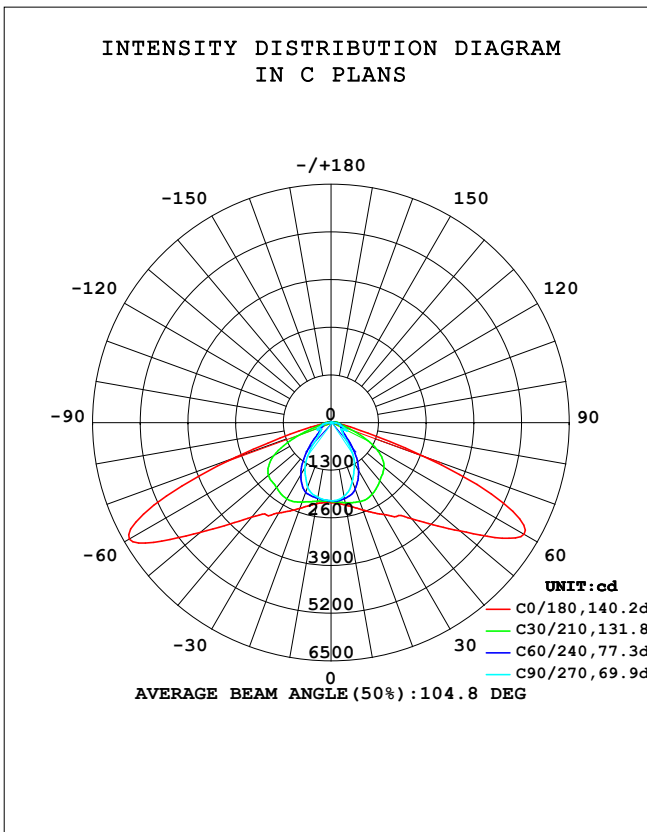
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YU
Test Date:2016-03-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:9.300m [K=1.0000]
Remarks: 60W LED,100W SUNPOWER SOLAR PANEL

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:32.00V I:1.950A P:62.40W PF:1.000 Lamp Flux:7772.56x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 60W LED light,100W Sunpower solar panel	DIM.:	SERIAL No.:
MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 124.56 lm/W			
MODEL	HT-SS-1H60	I _{max} (cd)	6352	η street_up (%)	0.7
NOMINAL POWER (W)	60	LOR (%)	100.0	η street_down (%)	51.9
RATED VOLTAGE (V)		TOTAL FLUX (lm)	7773	η house_up (%)	0.6
NOMINAL FLUX (lm)	7772.56	MAXIMUM @ (C,γ)	180,60.0	η house_down (%)	46.9
LAMPS INSIDE	1	η up (%)	1.2	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)		η down (%)	98.8	SLI	18.894



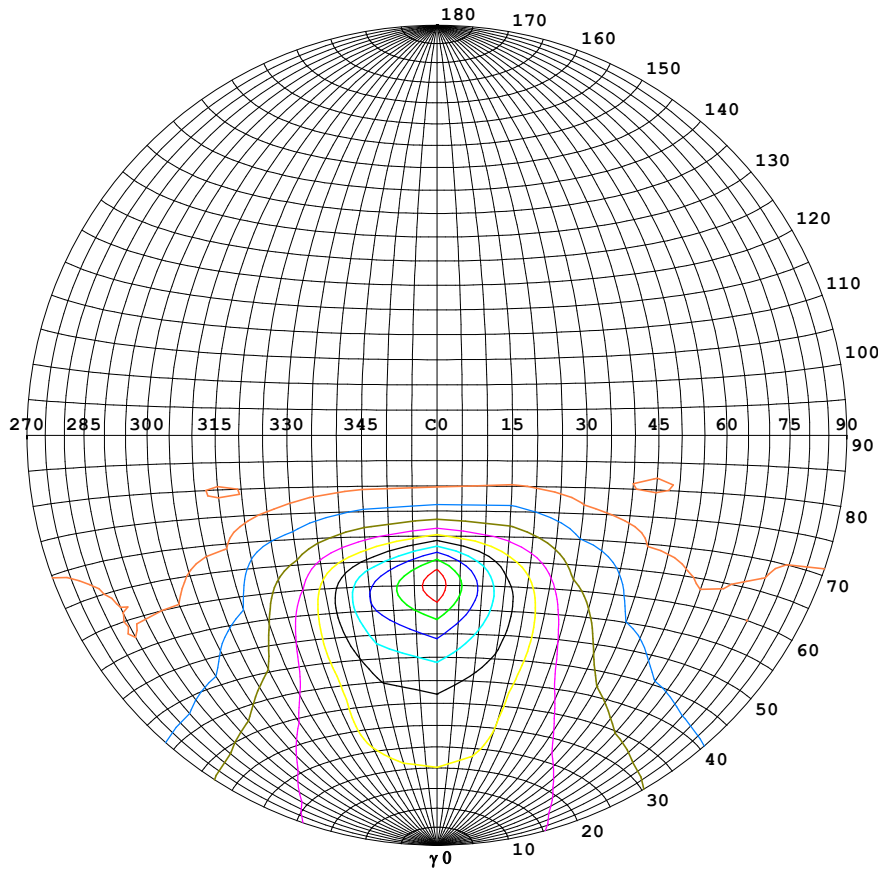
C Range: 0 - 360DEG
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 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: YU
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 9.300m [K=1.0000]
 Remarks: 60W LED, 100W SUNPOWER SOLAR PANEL

Note: SLI: Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:32.00V I:1.950A P:62.40W PF:1.000 Lamp Flux:7772.56x1 lm		
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Classification:

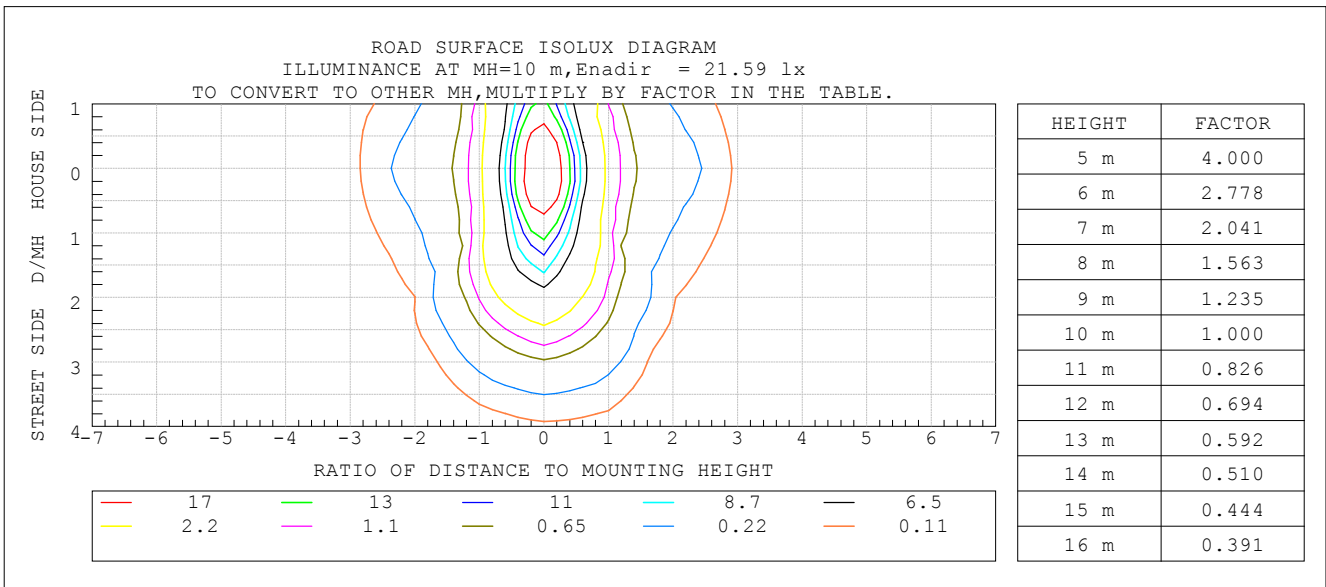
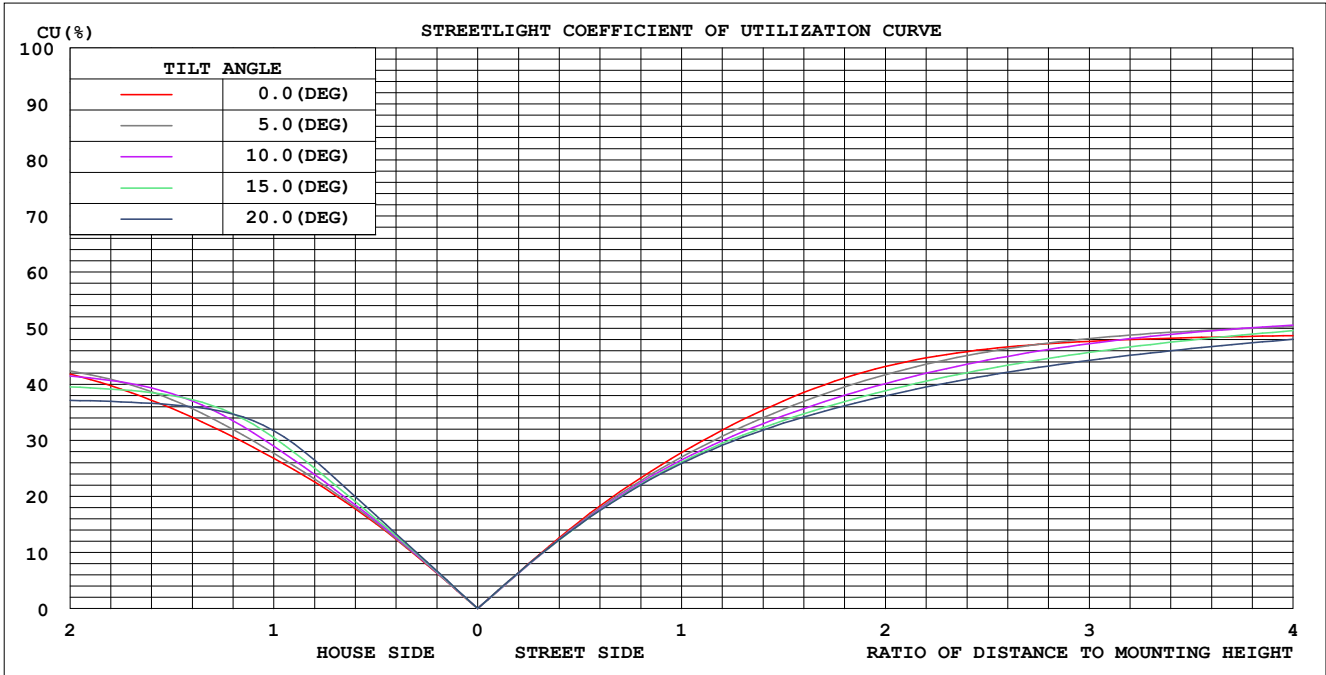
IES:Type III - Short
 CIE:Broad - Intermediate
 IES:Semi cut-off
 CIE:Semi-cut-off
 Max.At80:47.34cd/klm
 Max.At90:26.60cd/klm
 Max.80-90:47.34cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	6352
— 90%	5717
— 80%	5082
— 70%	4447
— 60%	3811
— 50%	3176
— 40%	2541
— 30%	1906
— 20%	1270
— 10%	635
— 5%	318

C Range: 0 - 360DEG
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 Test Date:2016-03-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:9.300m [K=1.0000]
 Remarks: 60W LED,100W SUNPOWER SOLAR PANEL

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature: 25.3DEG
Operators: YU
Test Date: 2016-03-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity: 65.0%
Test Distance: 9.300m [K=1.0000]
Remarks: 60W LED, 100W SUNPOWER SOLAR PANEL

ZONAL FLUX DIAGRAM

Test:U:32.00V I:1.950A P:62.40W PF:1.000 Lamp Flux:7772.56x1 lm		
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MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2285	2165	2045	2099	2248	2138	2071	2171	0- 10	204.8	204.8	2.64,2.64
20	2537	2108	1706	2014	2489	2161	1870	2232	10- 20	609.2	814.0	10.5,10.5
30	2901	1807	1283	1697	2842	1980	1429	2064	20- 30	959.8	1774	22.8,22.8
40	3425	1383	679.2	1259	3371	1541	730.7	1617	30- 40	1174	2948	37.9,37.9
50	4599	854.2	402.6	735.6	4660	932.0	384.6	1014	40- 50	1287	4234	54.5,54.5
60	6085	472.9	402.3	412.0	6352	465.0	416.9	538.8	50- 60	1490	5724	73.6,73.6
70	2663	312.6	340.7	301.1	2768	286.1	311.6	303.1	60- 70	1299	7024	90.4,90.4
80	303.0	341.6	236.5	327.6	317.8	300.3	201.6	348.5	70- 80	479.0	7502	96.5,96.5
90	128.5	123.8	22.14	121.3	112.9	96.55	16.81	107.9	80- 90	175.7	7678	98.8,98.8
100	114.2	67.13	23.27	49.16	83.50	33.45	18.69	49.58	90-100	91.24	7769	100,100
110	0	0	0	0	0	0	0	0	100-110	3.128	7773	100,100
120	0	0	0	0	0	0	0	0	110-120	0	7773	100,100
130	0	0	0	0	0	0	0	0	120-130	0	7773	100,100
140	0	0	0	0	0	0	0	0	130-140	0	7773	100,100
150	0	0	0	0	0	0	0	0	140-150	0	7773	100,100
160	0	0	0	0	0	0	0	0	150-160	0	7773	100,100
170	0	0	0	0	0	0	0	0	160-170	0	7773	100,100
180	0	0	0	0	0	0	0	0	170-180	0	7773	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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Operators:YU
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γ Range: 0 - 180DEG
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ISOCANDELA DIAGRAM

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Conical surface Flux(90deg):

3571 lm

%lum = 45.9%

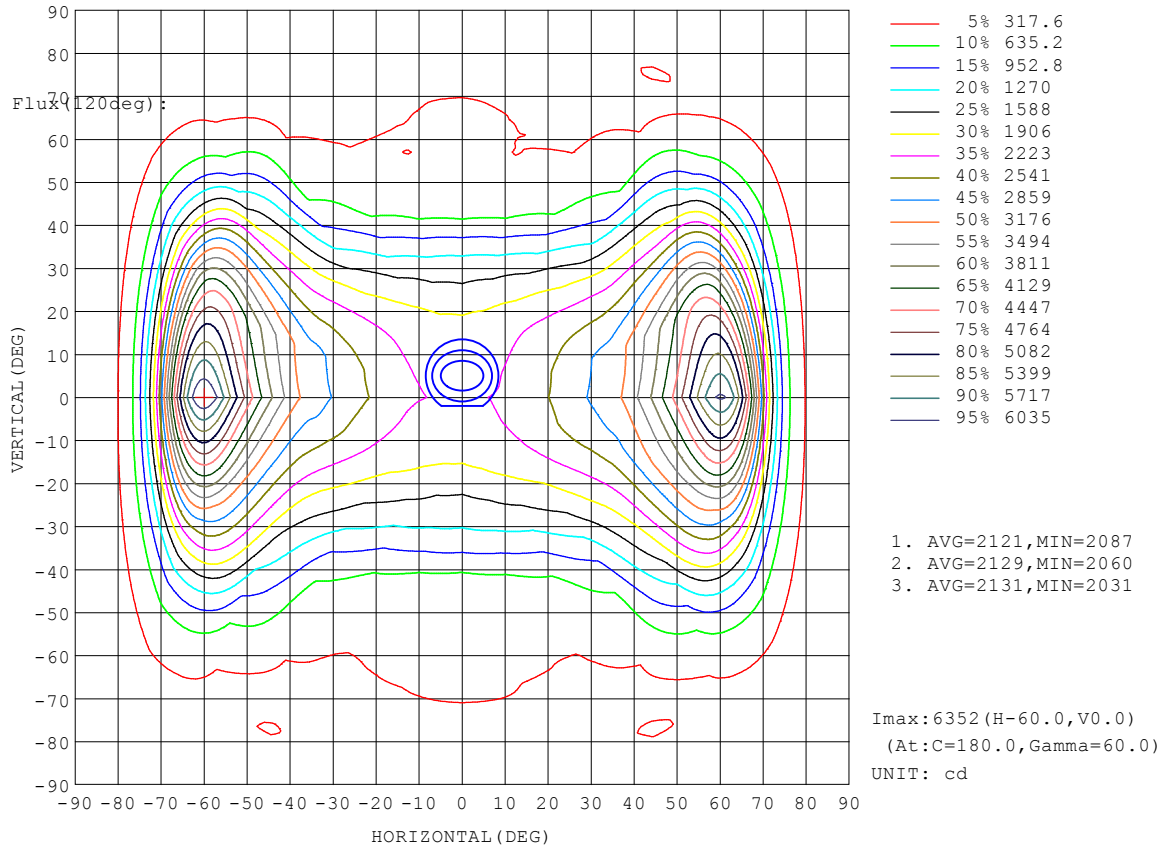
%lamp = 45.9%

Conical surface Flux(20deg):

5724.5 lm

%lum = 73.6%

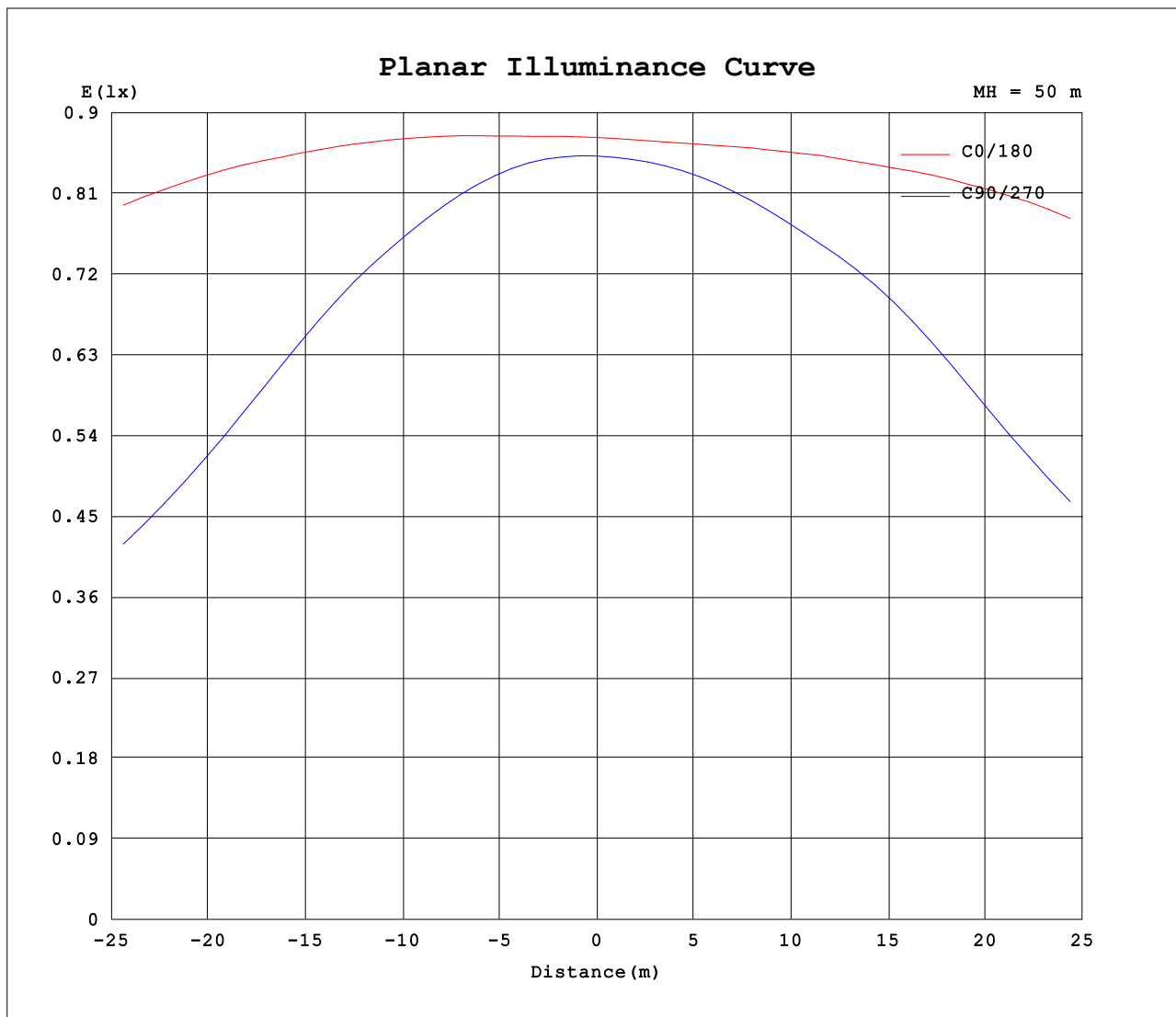
%lamp = 73.6%



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 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:YU
 Test Date:2016-03-02

γ Range: 0 - 180DEG
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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
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Planar Illuminance Curve



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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 9.300m [K=1.0000]
 Remarks: 60W LED, 100W SUNPOWER SOLAR PANEL

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:32.00V I:1.950A P:62.40W PF:1.000 Lamp Flux:7772.56x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
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Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	2181	2166	2154	2144	2137	2140	2130	2132	2125	2123	2129	2130	2181	2166	2154	2144	2137	2140	2130
5	2211	2194	2177	2159	2141	2136	2119	2120	2113	2116	2126	2131	2191	2172	2152	2134	2120	2120	2113
10	2285	2259	2220	2165	2110	2075	2045	2051	2065	2099	2142	2172	2248	2220	2181	2138	2097	2080	2071
15	2392	2347	2260	2155	2054	1970	1917	1934	1985	2067	2165	2250	2346	2308	2234	2152	2073	2026	2011
20	2537	2459	2293	2108	1933	1786	1706	1739	1859	2014	2177	2349	2489	2434	2305	2161	2025	1902	1870
25	2709	2585	2301	1973	1735	1572	1483	1529	1668	1872	2168	2460	2660	2583	2378	2108	1873	1696	1649
30	2901	2685	2253	1807	1512	1357	1283	1320	1449	1697	2108	2557	2842	2740	2405	1980	1656	1469	1429
35	3124	2765	2174	1610	1252	1094	1021	1066	1188	1492	1999	2612	3076	2944	2379	1798	1374	1162	1114
40	3425	2903	2072	1383	946	768	679	744	890	1259	1863	2670	3371	3132	2317	1541	1028	794	731
45	3941	3126	1987	1110	671	513	478	501	630	987	1730	2845	3920	3473	2282	1225	705	511	479
50	4599	3324	1891	854	471	425	403	415	446	736	1613	3059	4660	3885	2230	932	465	399	385
55	5463	3449	1712	638	381	349	348	345	370	546	1467	3241	5642	4305	2086	661	356	331	339
60	6085	3362	1429	473	344	317	402	326	340	412	1225	3246	6352	4476	1808	465	334	318	417
65	5187	2785	1038	377	305	331	456	350	300	350	906	2779	5335	3715	1333	359	285	312	403
70	2663	1708	642	313	300	308	341	304	294	301	569	1787	2768	2081	762	286	268	308	312
75	847	783	365	248	287	259	244	245	263	235	340	861	904	861	364	213	244	230	232
80	303	334	257	342	211	191	236	186	195	328	250	368	318	318	234	300	167	154	202
85	173	206	184	192	142	122	131	125	136	206	179	211	160	184	161	156	104	82.6	83.3
90	128	185	173	124	96.1	38.9	22.1	33.5	84.2	121	158	177	113	194	156	96.5	61.3	25.3	16.8
95	120	150	142	114	62.5	29.0	22.2	23.9	50.6	95.1	130	146	105	115	105	75.6	33.2	18.0	17.6
100	114	128	103	67.1	40.2	26.2	23.3	24.1	28.5	49.2	79.8	98.2	83.5	90.6	62.3	33.4	22.6	19.0	18.7
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: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:YU
 Test Date:2016-03-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity:65.0%
 Test Distance:9.300m [K=1.0000]
 Remarks: 60W LED,100W SUNPOWER SOLAR PANEL

LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

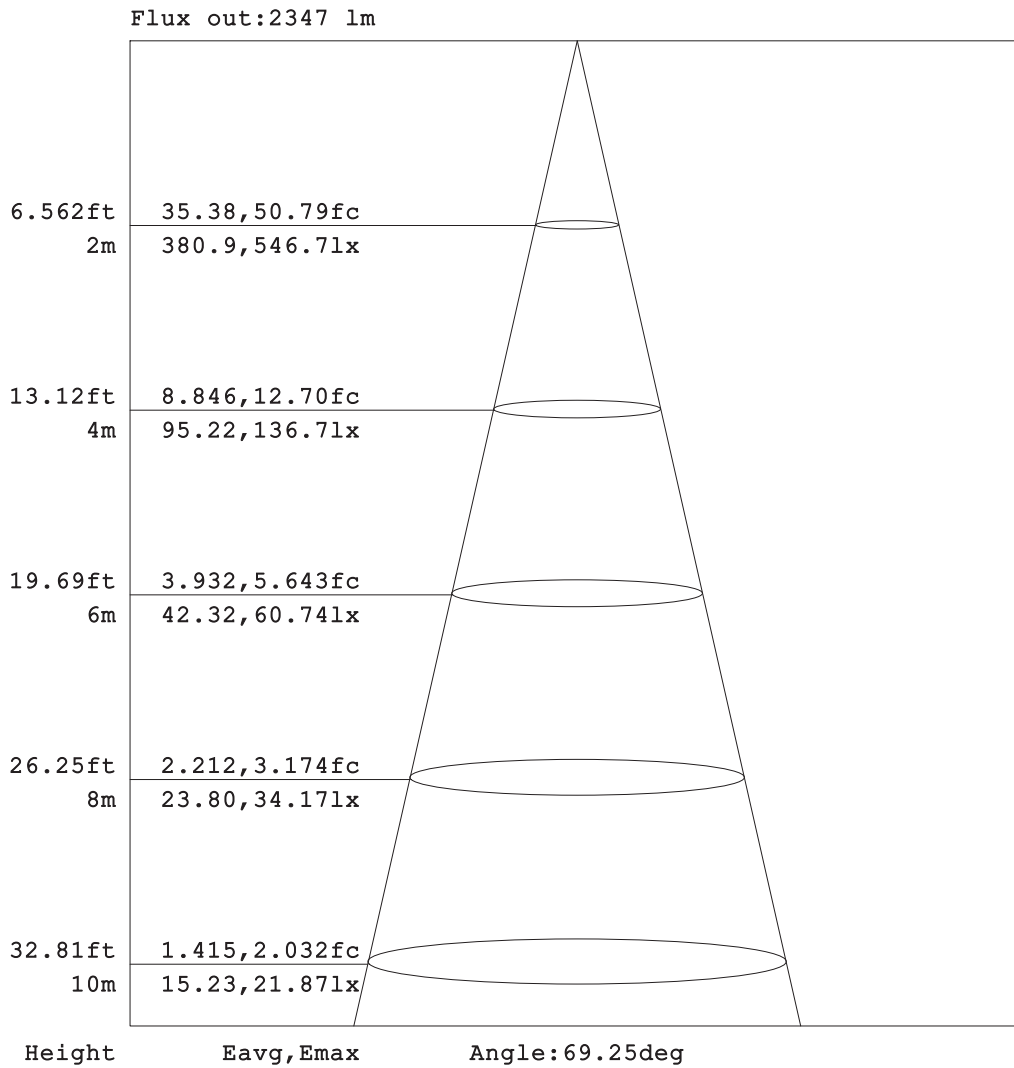
C (DEG) γ (DEG)	285	300	315	330	345														
0	2132	2125	2123	2129	2130														
5	2123	2127	2139	2157	2168														
10	2095	2126	2171	2216	2245														
15	2052	2119	2206	2292	2355														
20	1938	2080	2232	2388	2497														
25	1733	1927	2191	2465	2648														
30	1505	1714	2064	2483	2812														
35	1186	1431	1877	2448	2959														
40	805	1074	1617	2388	3195														
45	517	733	1302	2371	3549														
50	402	489	1014	2334	3961														
55	331	366	742	2197	4368														
60	311	321	539	1902	4374														
65	298	286	398	1382	3315														
70	288	272	303	786	1727														
75	223	251	228	390	692														
80	153	168	348	241	290														
85	80.3	110	145	173	186														
90	27.9	72.6	108	173	207														
95	21.0	43.1	70.4	130	133														
100	21.1	29.0	49.6	80.7	99.7														
105	0.00	0.00	0.00	0.00	0.00														
110	0.00	0.00	0.00	0.00	0.00														
115	0.00	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.00	0.00	0.00	0.00														
145	0.00	0.00	0.00	0.00	0.00														
150	0.00	0.00	0.00	0.00	0.00														
155	0.00	0.00	0.00	0.00	0.00														
160	0.00	0.00	0.00	0.00	0.00														
165	0.00	0.00	0.00	0.00	0.00														
170	0.00	0.00	0.00	0.00	0.00														
175	0.00	0.00	0.00	0.00	0.00														
180	0.00	0.00	0.00	0.00	0.00														

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 C Interval: 15.0DEG
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 Humidity:65.0%
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AAI Figure

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MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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