

HITECHLED OPTOELECTRONICS CO., LTD.



Light Output Ratio: 100.0%

Luminaire Power: 30.69W

I80 = 38.5 cd per klm. I88 = 16.4 cd per klm.

I90 = 14.4 cd per klm. I80/I88 = 2.351

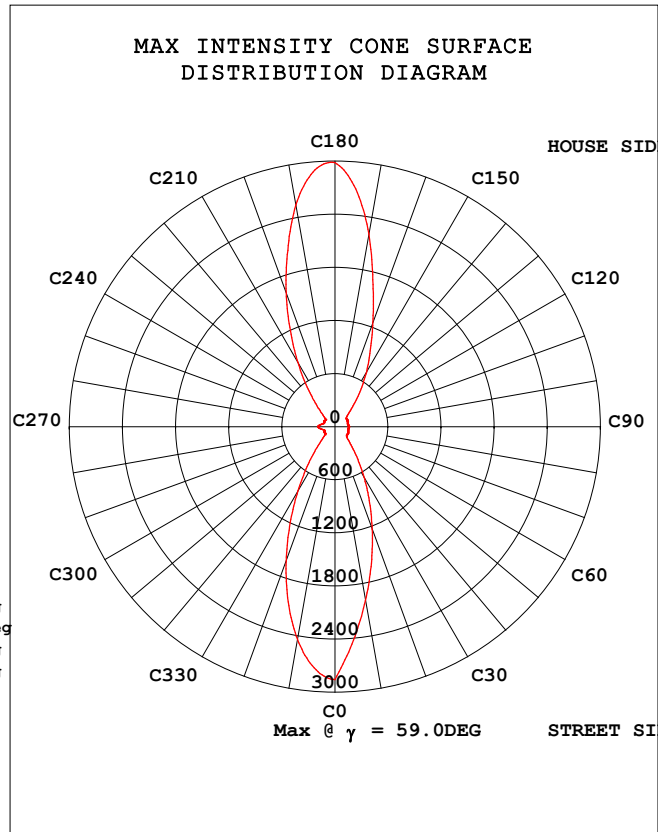
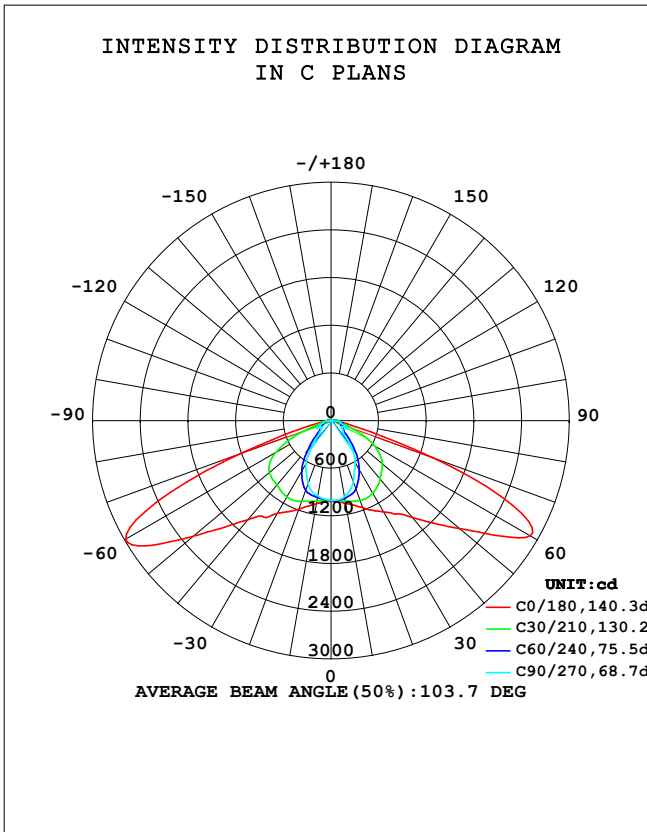
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: YU
Test Date: 2016-03-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity: 65.0%
Test Distance: 8.000m [K=1.0000]
Remarks: 30W LED, 60W SUNPOWER SOLAR PANEL

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:31.00V I:0.9900A P:30.69W PF:1.000 Lamp Flux:3613.24x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 30W LED light,60W Sunpower Solar Panel	DIM.:	SERIAL No.:
MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 117.73 lm/W			
MODEL	HT-SS-6030	I _{max} (cd)	2983	η street_up (%)	0.6
NOMINAL POWER (W)	30	LOR (%)	100.0	η street_down (%)	51.2
RATED VOLTAGE (V)		TOTAL FLUX (lm)	3613	η house_up (%)	0.5
NOMINAL FLUX (lm)	3613.24	MAXIMUM @ (C, γ)	180,59.0	η house_down (%)	47.6
LAMPS INSIDE	1	η up (%)	1.2	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)		η down (%)	98.8	SLI	17.827



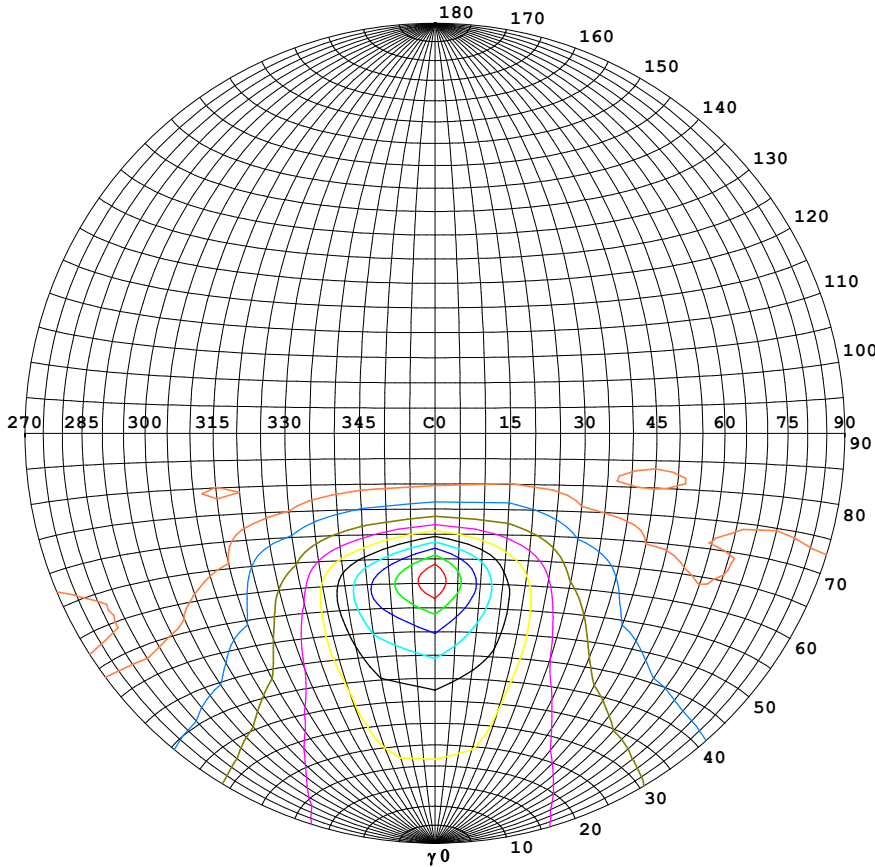
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: YU
 Test Date: 2016-03-02

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 8.000m [K=1.0000]
 Remarks: 30W LED, 60W SUNPOWER SOLAR PANEL

Note: SLI: Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:31.00V I:0.9900A P:30.69W PF:1.000 Lamp Flux:3613.24x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 30W LED light,60W Sunpower Solar Panel	DIM.:	SERIAL No.:
MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:



Classification:

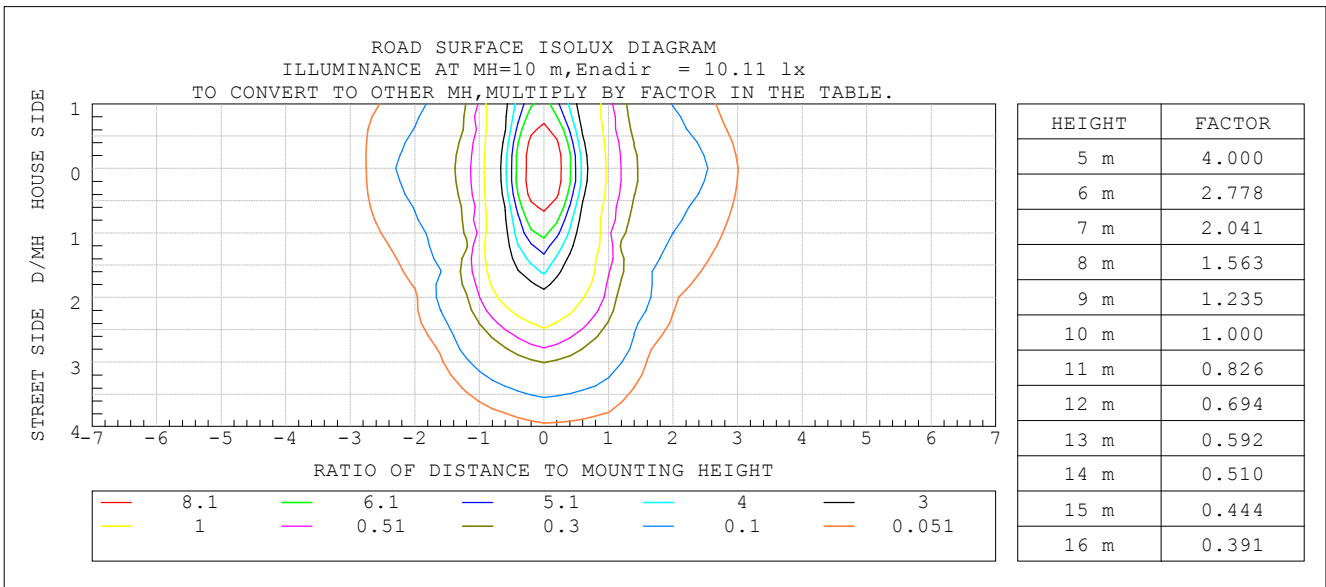
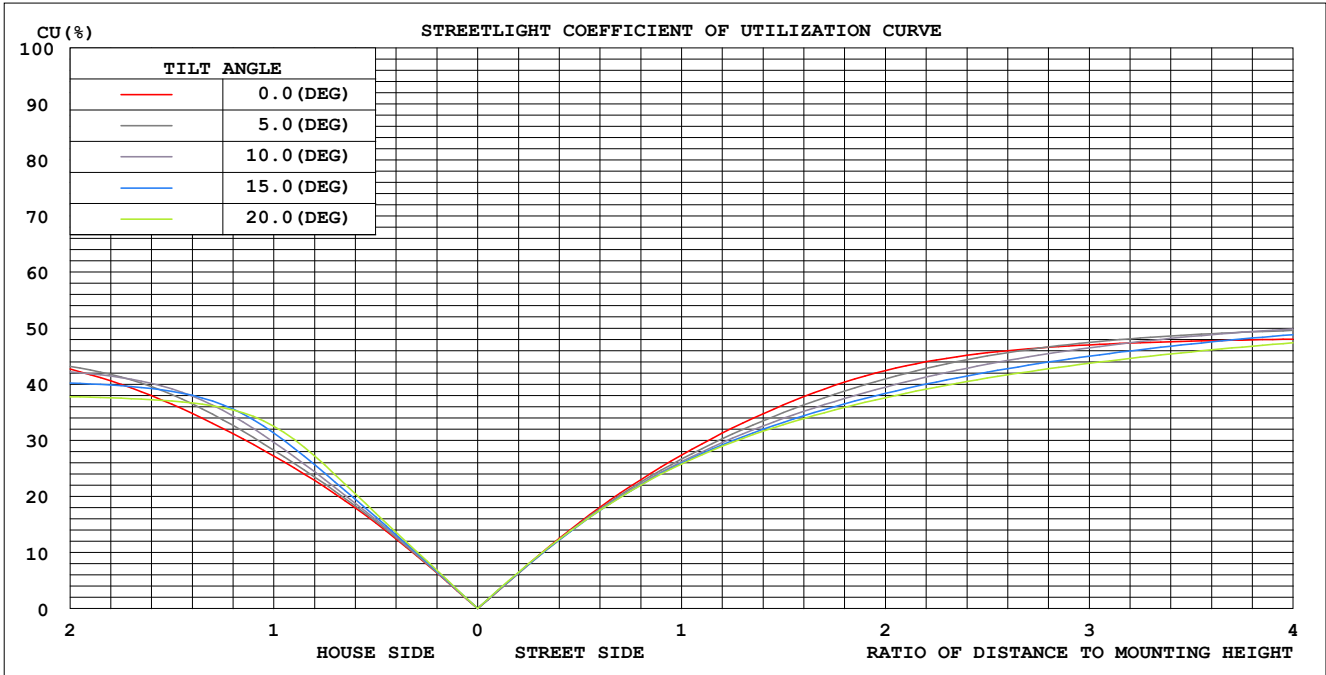
IES:Type III - Short
 CIE:Broad - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:47.84cd/klm
 Max.At90:24.91cd/klm
 Max.80-90:52.88cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2983
90%	2685
80%	2387
70%	2088
60%	1790
50%	1492
40%	1193
30%	895
20%	597
10%	298
5%	149

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:8.000m [K=1.0000]
 Remarks: 30W LED,60W SUNPOWER SOLAR PANEL

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



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: 8.000m [K=1.0000]
Remarks: 30W LED, 60W SUNPOWER SOLAR PANEL

ZONAL FLUX DIAGRAM

Test:U:31.00V I:0.9900A P:30.69W PF:1.000 Lamp Flux:3613.24x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 30W LED light,60W Sunpower Solar Panel	DIM.:	SERIAL No.:
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	1056	1018	973.8	1011	1062	1008	964.2	1013	0- 10	96.41	96.41	2.67,2.67
20	1169	992.2	819.0	988.1	1183	1012	847.7	1025	10- 20	286.6	383.0	10.6,10.6
30	1329	848.9	609.8	850.2	1348	907.1	631.9	921.4	20- 30	449.0	831.9	23,23
40	1592	645.5	344.7	643.3	1625	673.9	282.7	696.2	30- 40	545.4	1377	38.1,38.1
50	2112	380.5	192.1	392.8	2265	396.3	160.9	404.2	40- 50	597.6	1975	54.7,54.7
60	2898	204.5	158.5	214.6	2982	192.0	202.4	201.7	50- 60	693.8	2669	73.9,73.9
70	1361	148.2	178.4	149.4	1198	117.0	126.2	126.3	60- 70	603.4	3272	90.6,90.6
80	139.1	157.3	132.1	134.1	130.6	121.1	62.36	151.7	70- 80	218.9	3491	96.6,96.6
90	52.11	69.47	10.10	68.56	49.29	30.60	7.679	37.08	80- 90	79.91	3571	98.8,98.8
100	49.81	33.23	10.05	26.06	36.84	13.29	8.730	22.42	90-100	40.84	3612	100,100
110	0	0	0	0	0	0	0	0	100-110	1.417	3613	100,100
120	0	0	0	0	0	0	0	0	110-120	0	3613	100,100
130	0	0	0	0	0	0	0	0	120-130	0	3613	100,100
140	0	0	0	0	0	0	0	0	130-140	0	3613	100,100
150	0	0	0	0	0	0	0	0	140-150	0	3613	100,100
160	0	0	0	0	0	0	0	0	150-160	0	3613	100,100
170	0	0	0	0	0	0	0	0	160-170	0	3613	100,100
180	0	0	0	0	0	0	0	0	170-180	0	3613	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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:8.000m [K=1.0000]
Remarks: 30W LED,60W SUNPOWER SOLAR PANEL

ISOCANDELA DIAGRAM

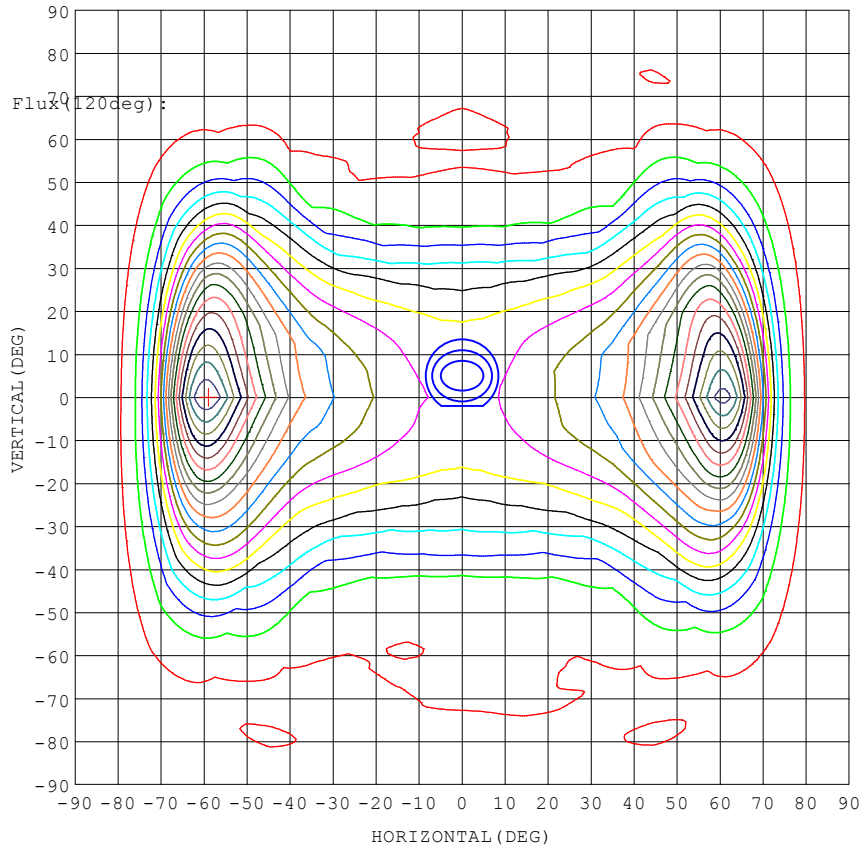
Test:U:31.00V I:0.9900A P:30.69W PF:1.000 Lamp Flux:3613.24x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 30W LED light,60W Sunpower Solar Panel	DIM.:	SERIAL No.:
MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:

Conical surface Flux(90deg):

1666.9 lm
 %lum = 46.1%
 %lamp = 46.1%

Conical surface Flux(20deg):

2668.8 lm
 %lum = 73.9%
 %lamp = 73.9%



- 5% 149.2
- 10% 298.3
- 15% 447.5
- 20% 596.7
- 25% 745.9
- 30% 895.0
- 35% 1044
- 40% 1193
- 45% 1343
- 50% 1492
- 55% 1641
- 60% 1790
- 65% 1939
- 70% 2088
- 75% 2238
- 80% 2387
- 85% 2536
- 90% 2685
- 95% 2834

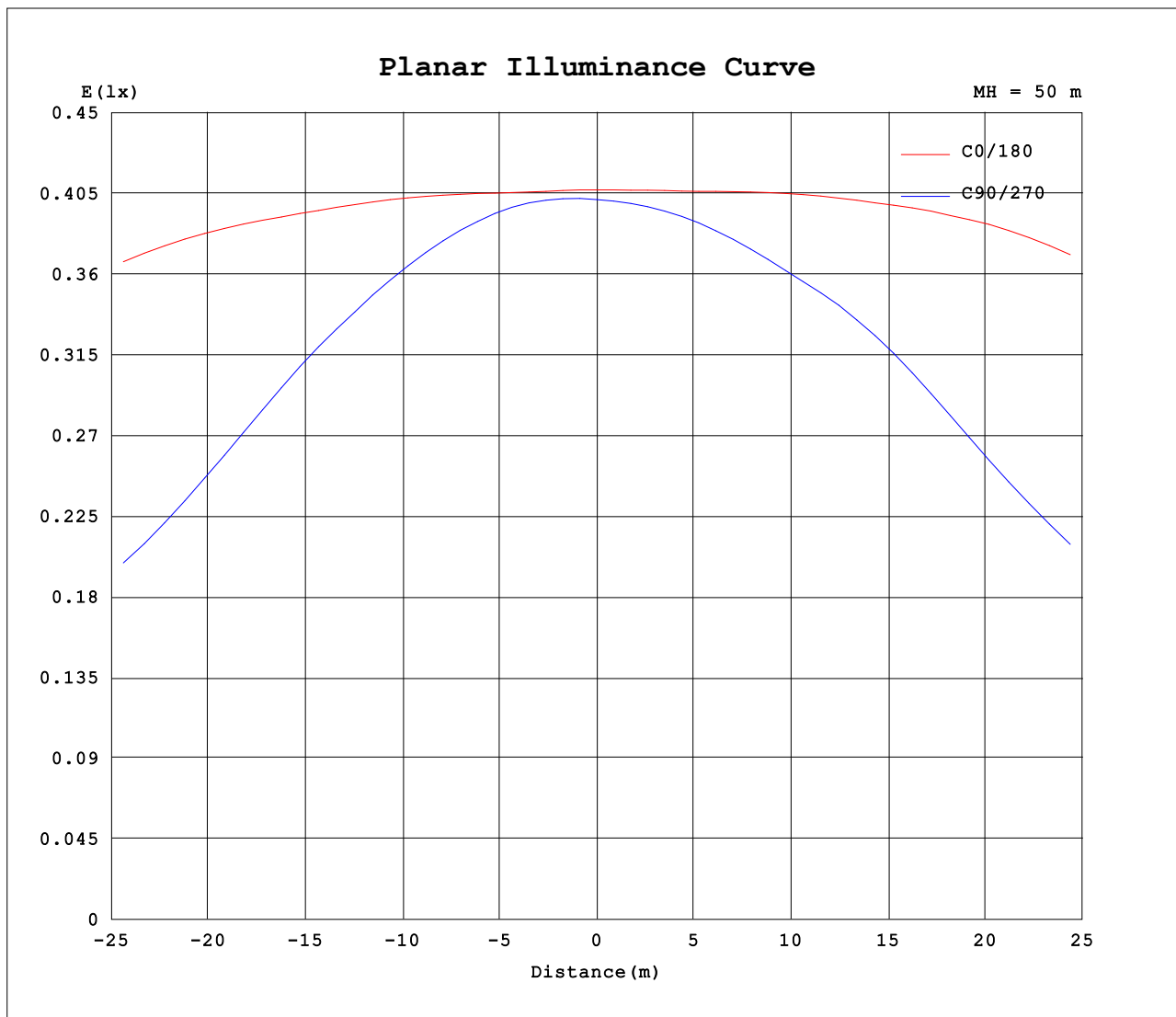
- 1. AVG=994.7,MIN=973.8
- 2. AVG=997.2,MIN=957.2
- 3. AVG=997.6,MIN=941.3

Imax:2983 (H=59.0, V0.0)
 (At:C=180.0, Gamma=59.0)
 UNIT: cd

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:8.000m [K=1.0000]
 Remarks: 30W LED,60W SUNPOWER SOLAR PANEL

Planar Illuminance Curve



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: 8.000m [K=1.0000]
 Remarks: 30W LED, 60W SUNPOWER SOLAR PANEL

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:31.00V I:0.9900A P:30.69W PF:1.000 Lamp Flux:3613.24x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 30W LED light,60W Sunpower Solar Panel	DIM.:	SERIAL No.:
MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:

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	1018	1013	1009	1010	1007	1004	1004	1003	1003	1005	1005	1009	1018	1013	1009	1010	1007	1004	1004
5	1026	1022	1017	1016	1010	1006	1005	1004	1006	1010	1012	1015	1028	1021	1011	1006	998	992	992
10	1056	1049	1033	1018	995	979	974	978	992	1011	1029	1042	1062	1049	1028	1008	984	967	964
15	1102	1089	1053	1011	966	932	914	930	959	1005	1051	1086	1113	1094	1053	1013	968	936	928
20	1169	1142	1068	992	916	849	819	845	911	988	1066	1139	1183	1156	1083	1012	935	867	848
25	1248	1202	1076	930	820	741	705	736	822	931	1074	1195	1263	1219	1110	975	852	765	741
30	1329	1250	1055	849	714	642	610	635	713	850	1055	1244	1348	1285	1111	907	740	649	632
35	1436	1295	1017	754	590	528	499	521	583	754	1010	1282	1484	1381	1089	816	591	483	459
40	1592	1367	961	645	448	379	345	372	445	643	953	1324	1625	1473	1061	674	423	310	283
45	1827	1464	903	509	320	250	225	243	320	514	896	1428	1897	1631	1045	528	274	201	197
50	2112	1541	845	380	221	206	192	197	216	393	859	1548	2265	1817	1015	396	185	165	161
55	2514	1593	755	281	184	171	164	165	176	298	803	1648	2734	2003	945	272	146	137	145
60	2898	1574	632	205	162	149	159	145	156	215	690	1645	2982	2045	808	192	137	140	202
65	2525	1335	460	170	145	165	220	164	140	173	510	1392	2409	1621	581	152	120	126	167
70	1361	821	287	148	148	154	178	141	137	149	317	890	1198	876	313	117	113	134	126
75	412	378	161	121	145	145	127	134	128	118	176	420	378	349	145	88.8	99.2	86.7	102
80	139	152	123	157	115	111	132	102	109	134	124	173	131	128	95.9	121	56.7	49.3	62.4
85	72.2	95.2	91.5	107	81.0	76.4	80.8	76.4	79.0	117	90.7	96.9	70.3	78.9	63.8	54.8	30.1	18.7	20.3
90	52.1	79.7	85.7	69.5	56.0	21.0	10.1	20.5	54.5	68.6	79.3	79.0	49.3	83.0	63.3	30.6	15.0	7.67	7.68
95	50.0	65.9	64.8	57.8	34.2	13.7	9.80	11.5	30.5	51.7	64.4	64.0	44.7	47.8	41.3	24.2	11.0	8.11	8.15
100	49.8	58.8	45.1	33.2	18.7	11.4	10.0	10.6	13.5	26.1	38.7	42.9	36.8	40.5	26.3	13.3	10.0	8.77	8.73
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:8.000m [K=1.0000]
 Remarks: 30W LED,60W SUNPOWER SOLAR PANEL

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:31.00V I:0.9900A P:30.69W PF:1.000 Lamp Flux:3613.24x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 30W LED light,60W Sunpower Solar Panel	DIM.:	SERIAL No.:
MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: cd

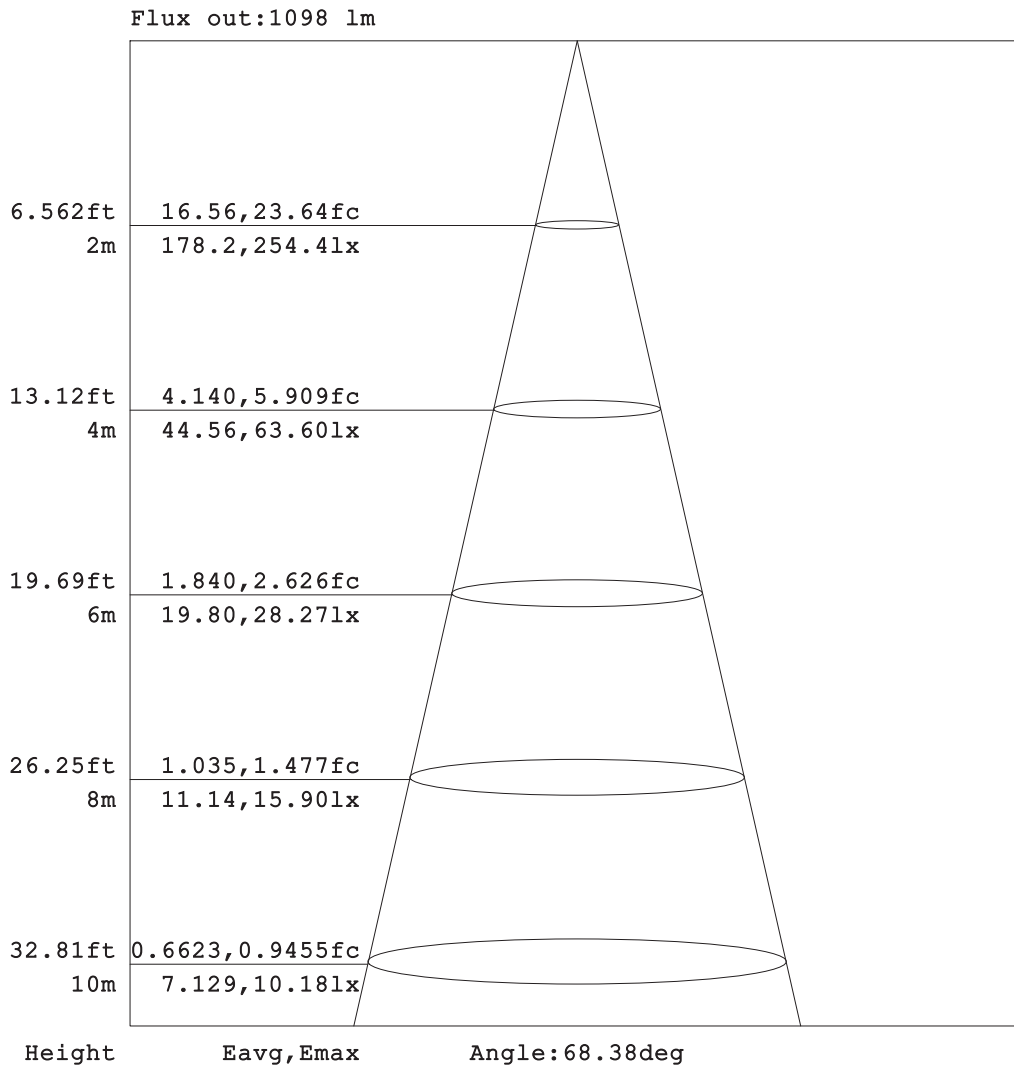
C (DEG) γ (DEG)	285	300	315	330	345														
0	1003	1003	1005	1005	1009														
5	993	998	1006	1011	1020														
10	971	989	1013	1034	1050														
15	943	979	1022	1061	1098														
20	874	947	1025	1099	1163														
25	773	862	988	1124	1227														
30	661	757	921	1120	1283														
35	494	615	834	1097	1364														
40	316	443	696	1066	1481														
45	206	285	540	1053	1636														
50	171	194	404	1019	1800														
55	141	155	280	939	1987														
60	135	136	202	802	2031														
65	127	123	156	576	1572														
70	129	115	126	314	806														
75	82.6	105	96.1	150	308														
80	51.3	60.4	152	97.5	129														
85	20.0	34.7	50.1	70.2	82.3														
90	8.82	20.4	37.1	70.1	90.0														
95	9.27	15.2	33.8	54.8	57.3														
100	9.87	12.2	22.4	37.1	45.8														
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														

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:8.000m [K=1.0000]
 Remarks: 30W LED,60W SUNPOWER SOLAR PANEL

AAI Figure

Test:U:31.00V I:0.9900A P:30.69W PF:1.000 Lamp Flux:3613.24x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 30W LED light,60W Sunpower Solar Panel	DIM.:	SERIAL No.:
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.

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: 8.000m [K=1.0000]
 Remarks: 30W LED, 60W SUNPOWER SOLAR PANEL