

HITECHLED OPTOELECTRONICS CO.,LTD.



Light Output Ratio: 100.0%

Luminaire Power: 42.56W

I80 = 38.8 cd per klm. I88 = 14.5 cd per klm.

I90 = 14.6 cd per klm. I80/I88 = 2.181

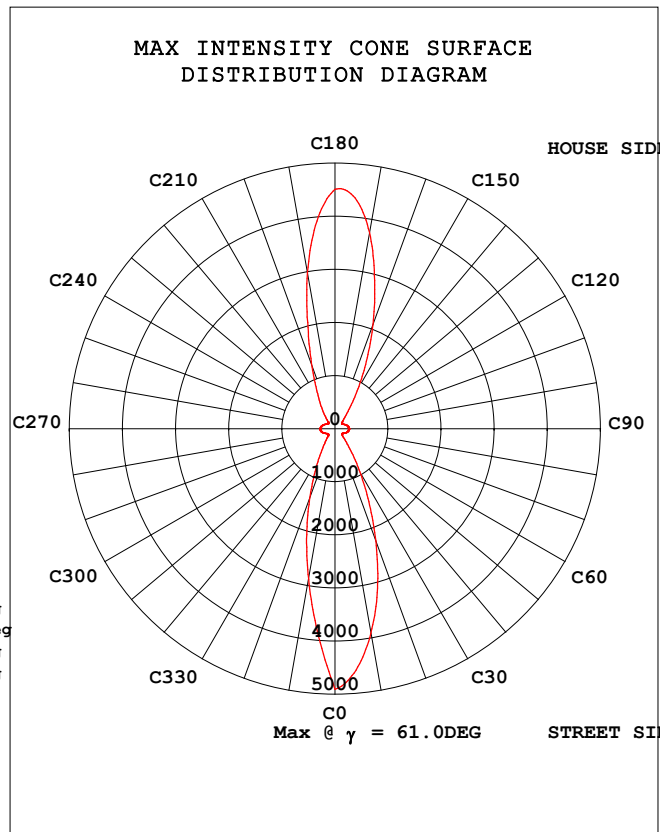
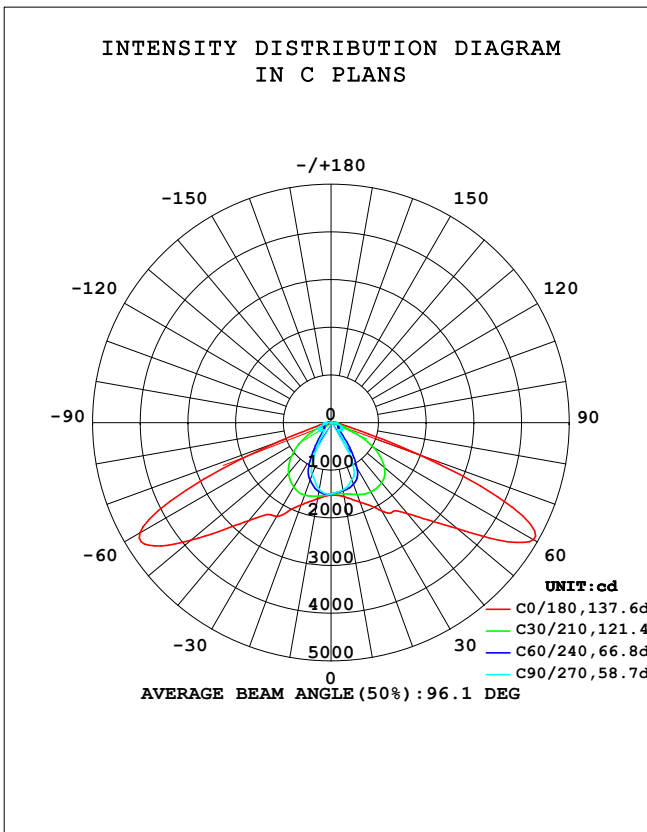
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YU
Test Date:2016-03-03

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:40W LED,80W SUNPOWER SOLAR PANEL

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:32.00V I:1.330A P:42.56W PF:1.000 Lamp Flux:5051.09x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 40W LED light,80W Sunpower solar panel	DIM.:	SERIAL No.:
MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 118.68 lm/W			
MODEL	HT-SS-8040	I _{max} (cd)	4906	η street_up (%)	0.6
NOMINAL POWER (W)		LOR (%)	100.0	η street_down (%)	51.5
RATED VOLTAGE (V)		TOTAL FLUX (lm)	5051	η house_up (%)	0.6
NOMINAL FLUX (lm)	5051.09	MAXIMUM @ (C, γ)	0,61.0	η house_down (%)	47.2
LAMPS INSIDE	1	η up (%)	1.3	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)		η down (%)	98.7	SLI	18.569



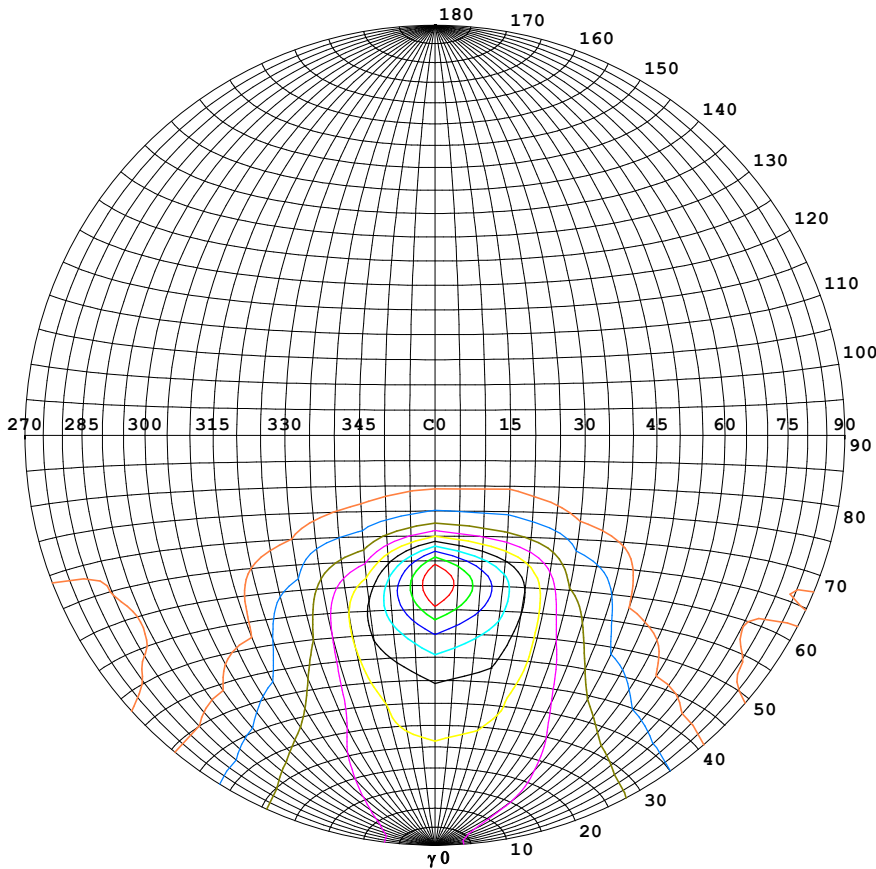
C Range: 0 - 360DEG
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 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: YU
 Test Date: 2016-03-03

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 8.200m [K=1.0000]
 Remarks: 40W LED lamp, 80W Sunpower Solar Panel

Note: SLI: Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:32.00V I:1.330A P:42.56W PF:1.000 Lamp Flux:5051.09x1 lm		
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Classification:

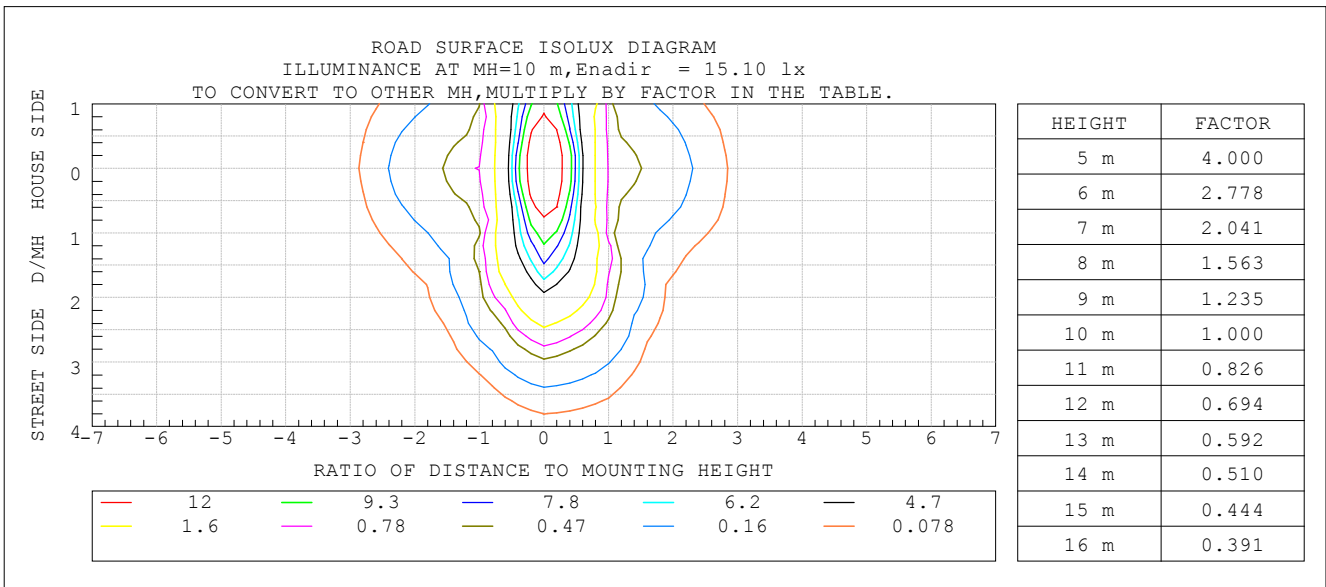
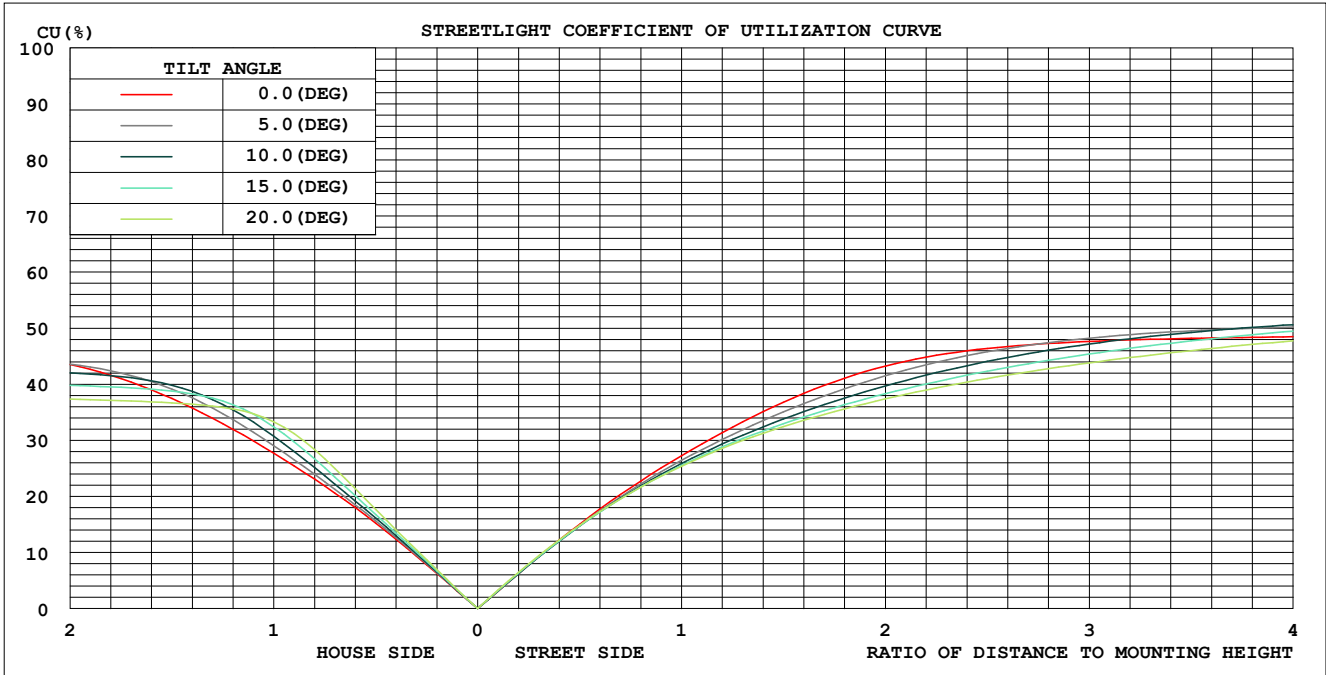
IES:Type III - Short
 CIE:Broad - Intermediate
 IES:None cut-off
 CIE:Semi-cut-off
 Max.At80:45.47cd/klm
 Max.At90:31.30cd/klm
 Max.80-90:45.47cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	4906
— 90%	4415
— 80%	3925
— 70%	3434
— 60%	2944
— 50%	2453
— 40%	1962
— 30%	1472
— 20%	981
— 10%	491
— 5%	245

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γ Range: 0 - 180DEG
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 Humidity:65.0%
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COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



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ZONAL FLUX DIAGRAM

Test:U:32.00V I:1.330A P:42.56W PF:1.000 Lamp Flux:5051.09x1 lm		
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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1581	1486	1434	1486	1623	1522	1426	1503	0- 10	143.3	143.3	2.84,2.84
20	1777	1490	1278	1511	1839	1429	1166	1410	10- 20	424.0	567.3	11.2,11.2
30	2140	1362	833.3	1350	2274	1147	587.7	1131	20- 30	661.6	1229	24.3,24.3
40	2494	944.9	269.3	892.8	2683	656.5	237.1	618.1	30- 40	750.9	1980	39.2,39.2
50	3465	434.3	260.5	409.6	3839	300.8	288.5	275.2	40- 50	840.4	2820	55.8,55.8
60	4906	227.4	271.7	219.8	4630	200.5	294.8	197.6	50- 60	1011	3831	75.8,75.8
70	1937	163.4	217.6	157.4	1176	149.9	226.2	154.1	60- 70	795.2	4626	91.6,91.6
80	222.4	132.8	93.81	131.3	160.0	115.7	93.67	121.7	70- 80	249.7	4876	96.5,96.5
90	73.21	78.58	15.47	74.32	71.96	68.87	12.09	75.88	80- 90	112.0	4988	98.7,98.7
100	51.01	32.73	13.84	33.28	50.46	30.00	11.54	24.29	90-100	61.49	5049	100,100
110	0	0	0	0	0	0	0	0	100-110	1.779	5051	100,100
120	0	0	0	0	0	0	0	0	110-120	0	5051	100,100
130	0	0	0	0	0	0	0	0	120-130	0	5051	100,100
140	0	0	0	0	0	0	0	0	130-140	0	5051	100,100
150	0	0	0	0	0	0	0	0	140-150	0	5051	100,100
160	0	0	0	0	0	0	0	0	150-160	0	5051	100,100
170	0	0	0	0	0	0	0	0	160-170	0	5051	100,100
180	0	0	0	0	0	0	0	0	170-180	0	5051	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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ISOCANDELA DIAGRAM

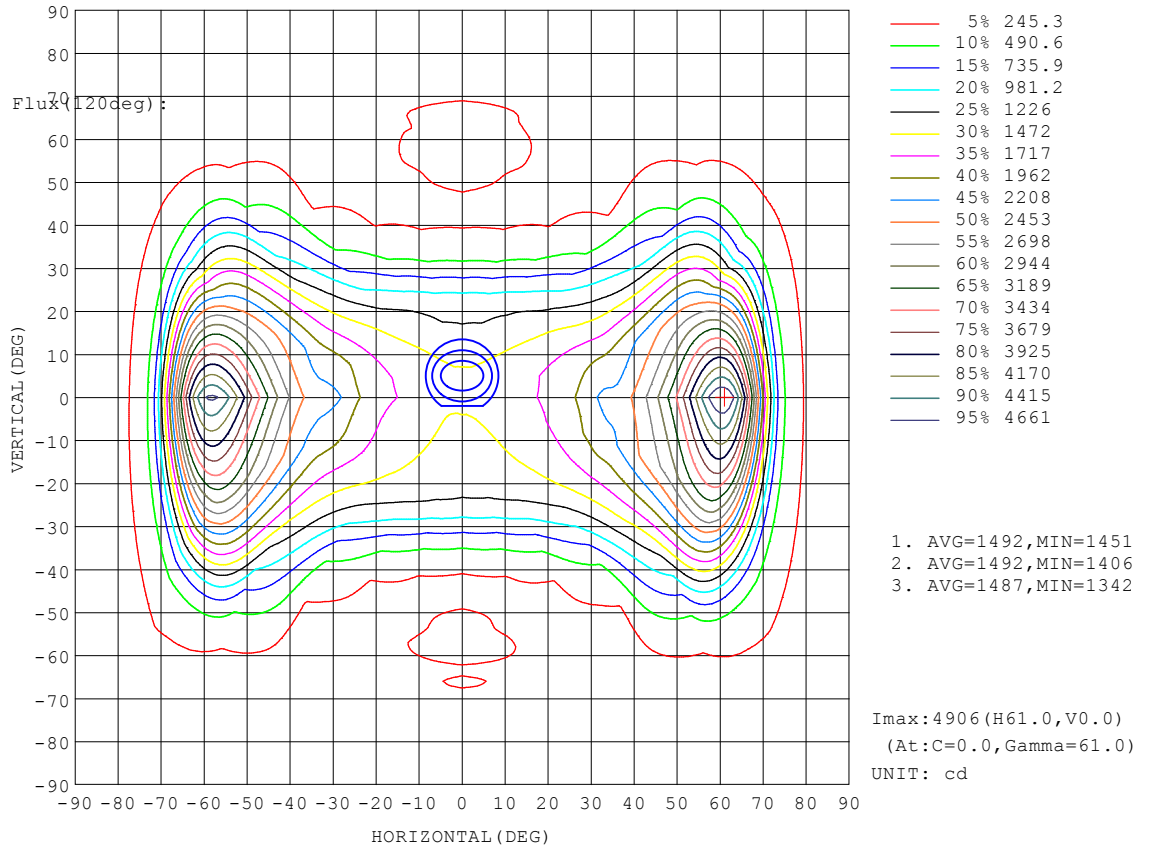
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Conical surface Flux(90deg):

2380.8 lm
 %lum = 47.1%
 %lamp = 47.1%

Conical surface Flux(20deg):

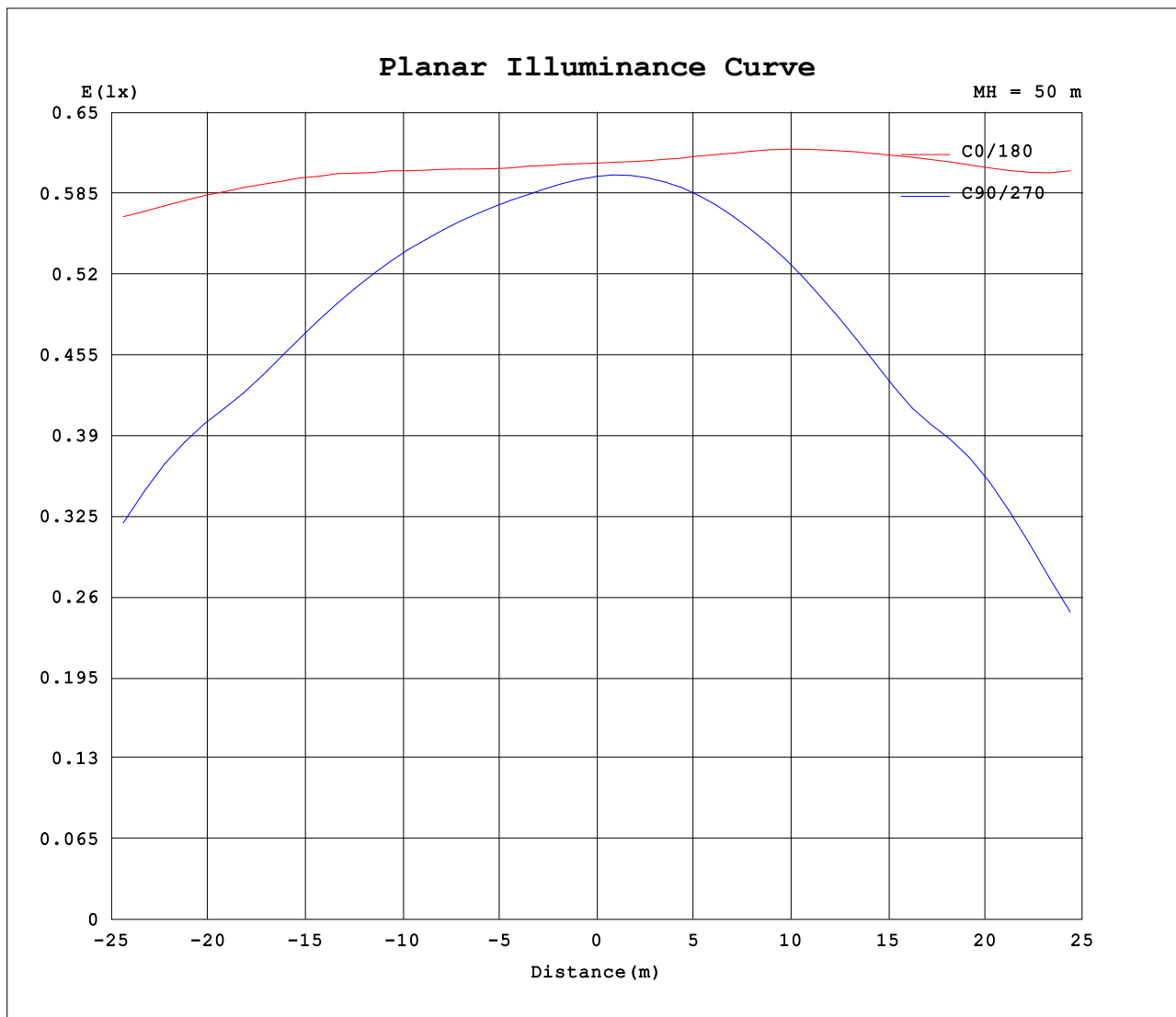
3830.9 lm
 %lum = 75.8%
 %lamp = 75.8%



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Planar Illuminance Curve



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LUMINOUS DISTRIBUTION INTENSITY DATA

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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	1524	1515	1507	1505	1500	1496	1497	1494	1492	1488	1489	1494	1524	1515	1507	1505	1500	1496	1497
5	1532	1515	1497	1487	1474	1466	1466	1465	1470	1475	1487	1504	1552	1545	1531	1520	1504	1492	1491
10	1581	1549	1515	1486	1456	1437	1434	1441	1461	1486	1519	1553	1623	1607	1566	1522	1472	1435	1426
15	1667	1616	1556	1494	1431	1388	1376	1397	1446	1507	1571	1627	1716	1686	1601	1496	1396	1318	1296
20	1777	1711	1607	1490	1377	1300	1278	1313	1397	1511	1628	1725	1839	1781	1617	1429	1279	1190	1166
25	1917	1823	1653	1450	1294	1194	1159	1208	1315	1465	1671	1854	2021	1906	1614	1321	1139	977	925
30	2140	1991	1677	1362	1084	893	833	904	1098	1350	1660	2026	2274	2034	1563	1147	844	633	588
35	2275	2162	1678	1181	778	562	492	561	780	1146	1606	2119	2358	2104	1487	903	534	366	336
40	2494	2315	1651	945	478	313	269	308	473	893	1553	2275	2683	2279	1390	657	323	245	237
45	2892	2544	1594	676	283	219	214	217	278	628	1495	2535	3175	2443	1252	445	230	215	222
50	3465	2784	1463	434	213	208	260	210	209	410	1383	2817	3839	2535	1075	301	205	214	289
55	4296	3064	1275	286	191	232	280	233	187	273	1193	3051	4511	2465	865	231	188	247	306
60	4906	3154	1008	227	178	243	272	242	176	220	934	2976	4630	2094	628	201	182	255	295
65	4196	2501	672	193	171	228	248	221	166	183	617	2217	3369	1342	391	174	182	239	309
70	1937	1182	368	163	162	214	218	200	155	157	341	1035	1176	582	234	150	169	210	226
75	505	437	212	137	164	176	175	167	161	134	197	408	338	264	164	128	157	154	156
80	222	230	162	133	110	137	93.8	137	108	131	151	224	160	193	149	116	99.1	112	93.7
85	96.3	158	129	99.7	86.2	75.6	112	78.7	82.8	92.0	122	154	85.4	138	112	84.8	73.2	57.9	117
90	73.2	120	113	78.6	53.0	24.1	15.5	22.3	48.2	74.3	107	122	72.0	158	121	68.9	42.4	16.9	12.1
95	68.2	101	87.3	68.7	28.2	15.0	13.6	14.8	34.6	71.9	96.4	116	65.2	95.9	82.2	65.2	26.2	11.2	10.3
100	51.0	55.5	51.0	32.7	20.8	15.5	13.8	14.3	18.0	33.3	55.2	68.7	50.5	54.4	46.0	30.0	15.2	12.0	11.5
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:2016-03-03

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.287
Humidity:65.0%
Test Distance:8.200m [K=1.0000]
Remarks: 40W LED lamp,80W Sunpower Solar Panel

LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--2

UNIT: cd

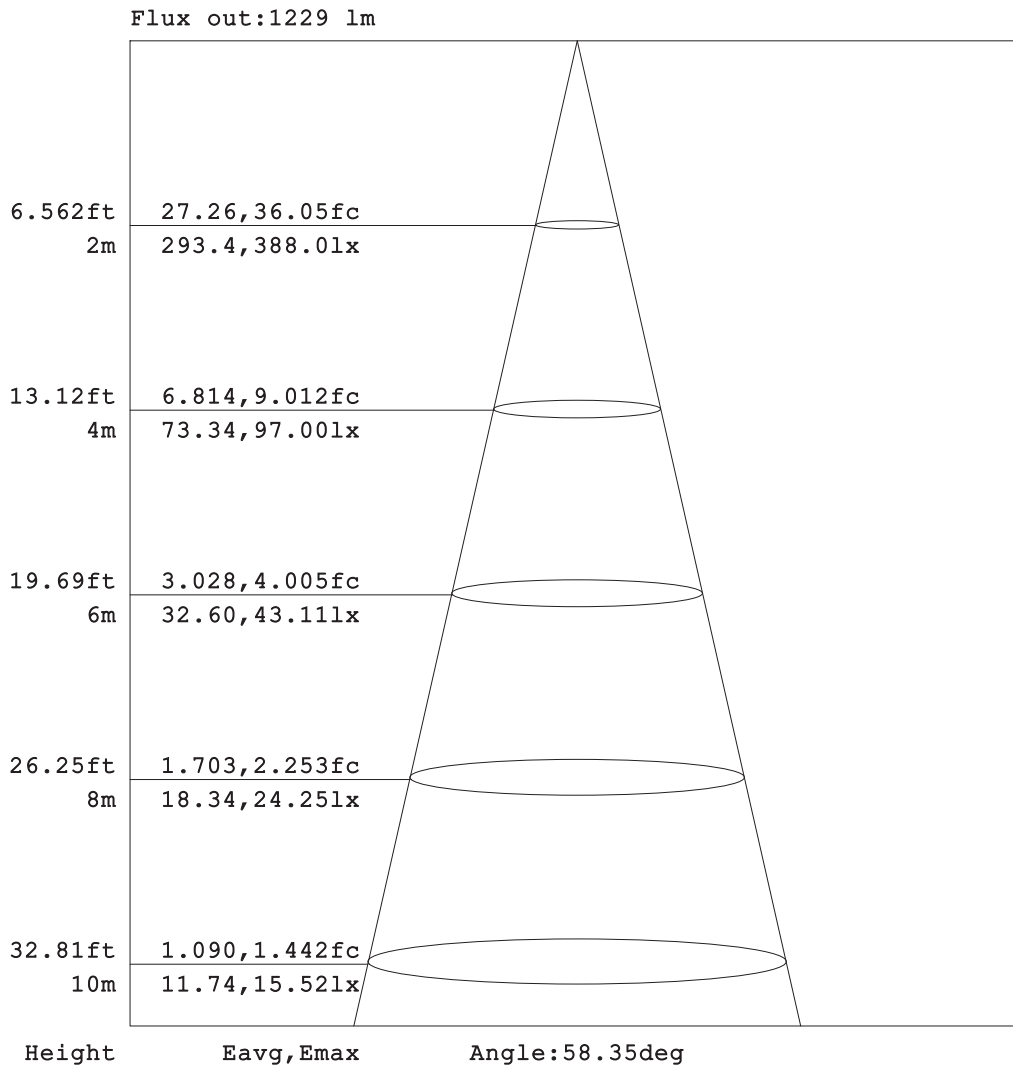
C (DEG) \ γ (DEG)	285	300	315	330	345														
0	1494	1492	1488	1489	1494														
5	1489	1496	1500	1508	1517														
10	1433	1464	1503	1544	1574														
15	1316	1388	1477	1574	1652														
20	1182	1265	1410	1588	1740														
25	971	1126	1300	1569	1836														
30	628	836	1131	1490	1919														
35	364	528	877	1384	1960														
40	245	317	618	1270	2127														
45	217	229	409	1130	2315														
50	218	206	275	978	2486														
55	255	191	216	807	2520														
60	265	187	198	593	2192														
65	243	186	180	380	1405														
70	206	169	154	246	607														
75	157	164	134	177	288														
80	111	104	122	152	196														
85	60.8	78.8	95.2	119	141														
90	17.9	47.5	75.9	119	147														
95	11.9	18.6	49.7	77.8	88.7														
100	13.1	17.3	24.3	42.2	46.0														
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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AAI Figure

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

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