

HITECHLED OPTOELECTRONICS CO., LTD.



Light Output Ratio: 100.0%

Luminaire Power: 49.88W

I80 = 38.6 cd per klm. I88 = 15.8 cd per klm.

I90 = 14.7 cd per klm. I80/I88 = 2.216

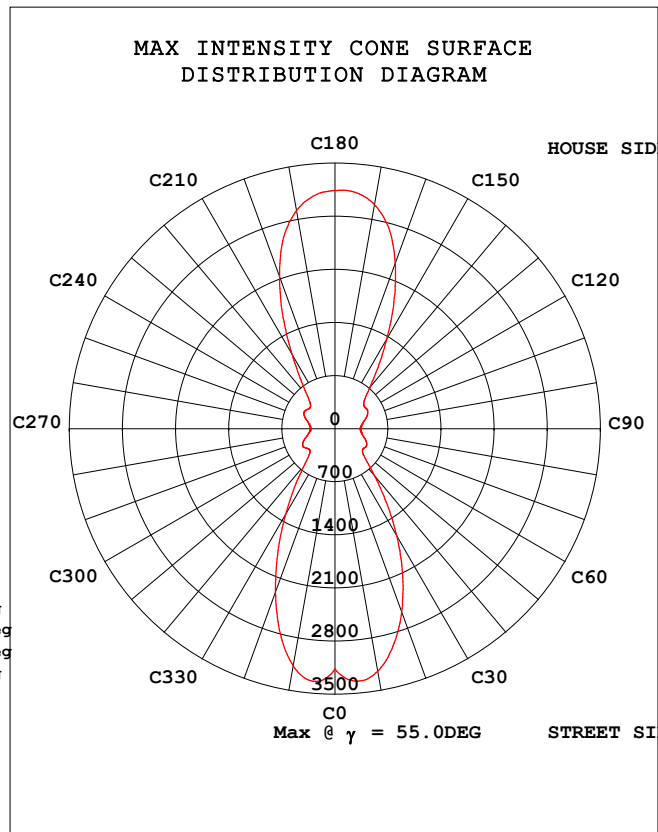
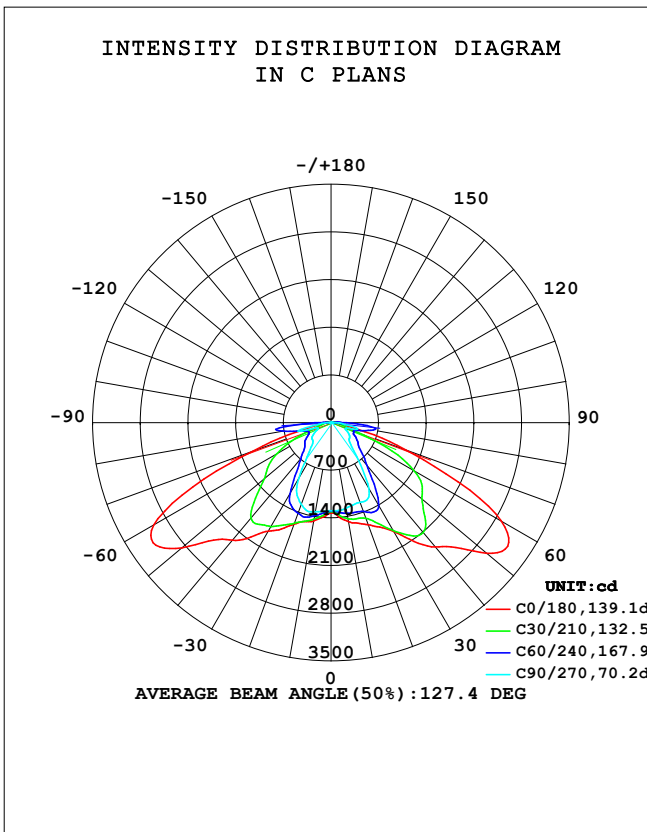
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: YU
Test Date: 2016-03-03

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: 50W LED lamp, 100W Sunpower Solar Panel

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:37.50V I:1.330A P:49.88W PF:1.000 Lamp Flux:5716.81x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 50W LED light,100W Sunpower solar panel	DIM.:	SERIAL No.:
MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 114.61 lm/W			
MODEL	HT-SS-1H50	I _{max} (cd)	3166	η street_up (%)	0.6
NOMINAL POWER (W)		LOR (%)	100.0	η street_down (%)	52.0
RATED VOLTAGE (V)		TOTAL FLUX (lm)	5717	η house_up (%)	0.6
NOMINAL FLUX (lm)	5716.81	MAXIMUM @ (C, γ)	0,55.0	η house_down (%)	46.8
LAMPS INSIDE	1	η up (%)	1.2	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)		η down (%)	98.8	SLI	18.206



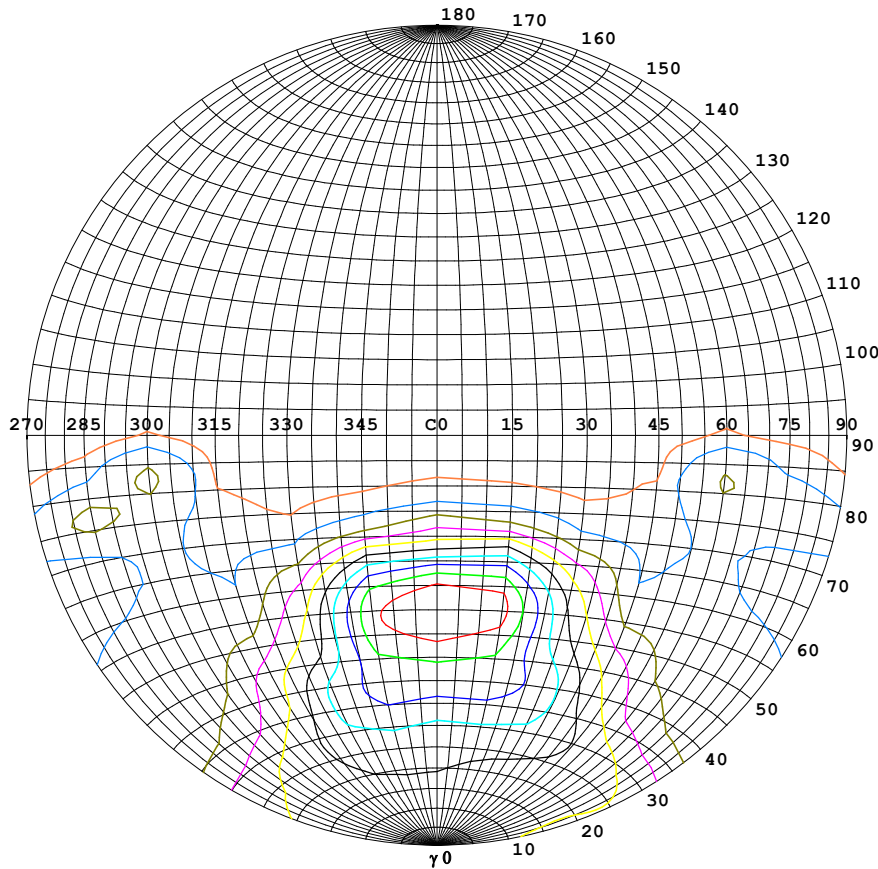
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 Temperature: 25.3DEG
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γ Range: 0 - 180DEG
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 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
 Humidity: 65.0%
 Test Distance: 8.100m [K=1.0000]
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Note: SLI: Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:37.50V I:1.330A P:49.88W PF:1.000 Lamp Flux:5716.81x1 lm		
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Classification:

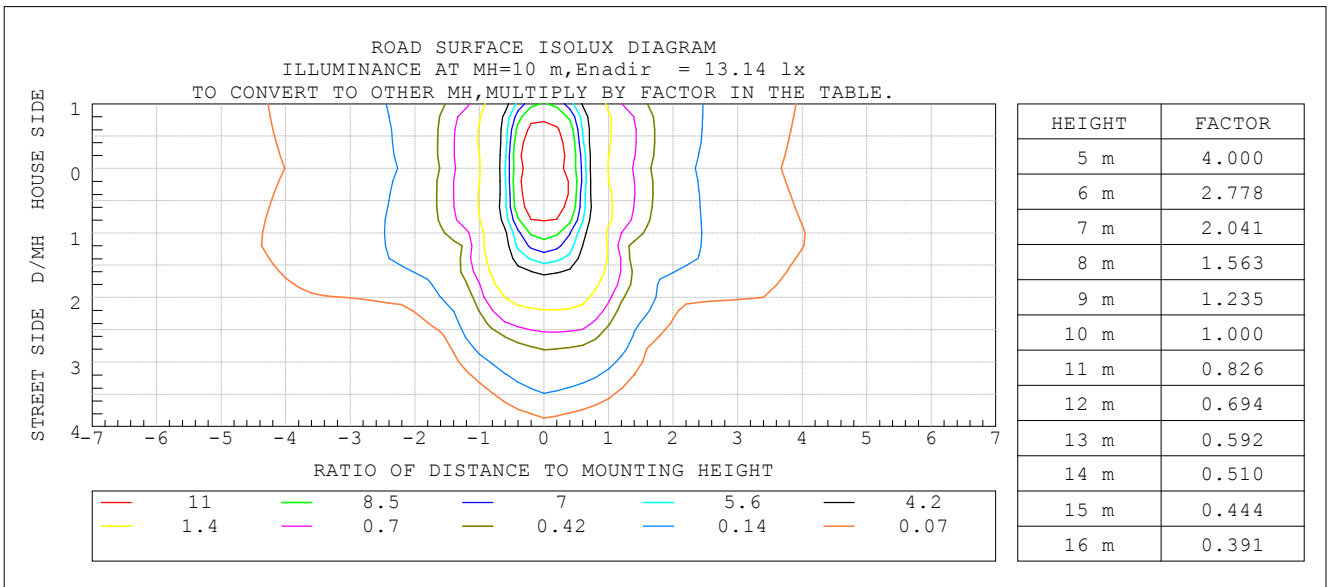
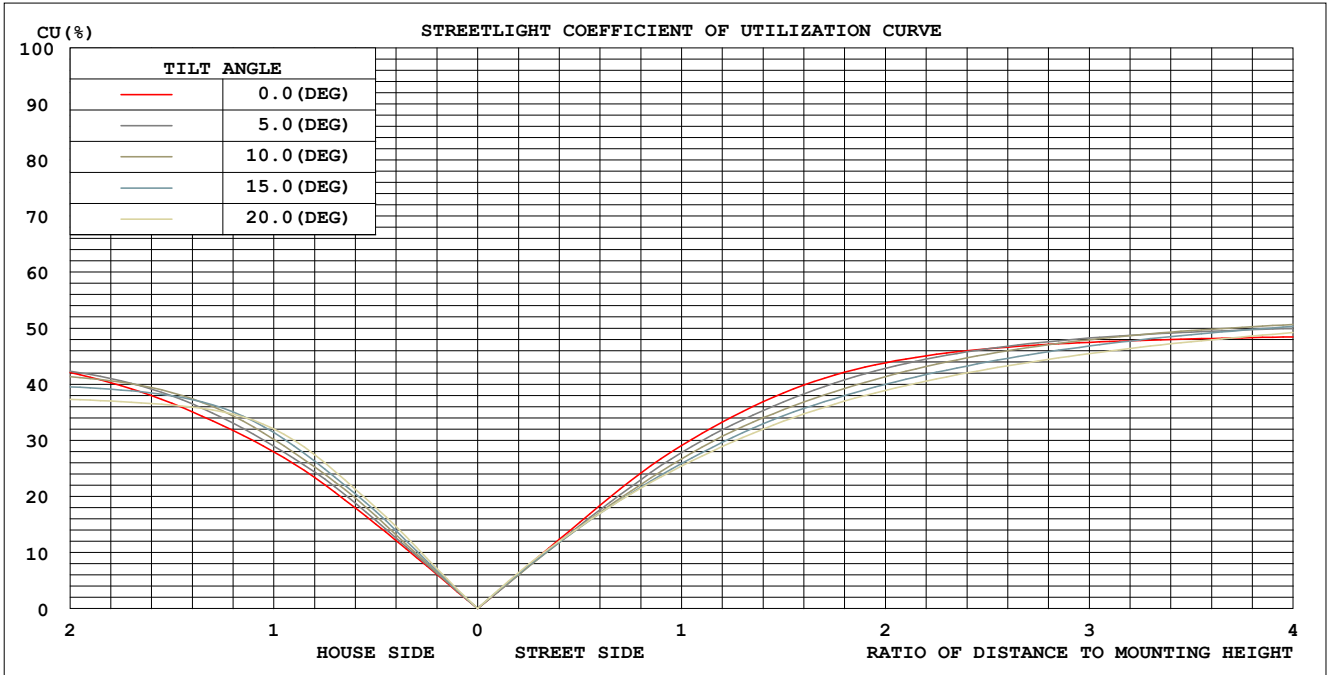
IES:Type III - Short
 CIE:Broad - Short
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:126.4cd/klm
 Max.At90:43.97cd/klm
 Max.80-90:143.9cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	3166
— 90%	2850
— 80%	2533
— 70%	2216
— 60%	1900
— 50%	1583
— 40%	1267
— 30%	950
— 20%	633
— 10%	317
— 5%	158

C Range: 0 - 360DEG
 C Interval: 15.0DEG
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 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:8.100m [K=1.0000]
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COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



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Test Date: 2016-03-03

γ Range: 0 - 180DEG
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Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.287
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ZONAL FLUX DIAGRAM

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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1475	1400	1278	1346	1467	1422	1331	1417	0- 10	129.6	129.6	2.27,2.27
20	1598	1453	1247	1400	1590	1504	1279	1515	10- 20	403.0	532.6	9.32,9.32
30	1848	1651	1112	1546	1841	1485	953.3	1522	20- 30	691.1	1224	21.4,21.4
40	2384	1398	496.1	1262	2255	1108	443.0	1197	30- 40	899.7	2123	37.1,37.1
50	2983	936.6	356.5	897.0	2858	739.4	369.4	778.3	40- 50	996.5	3120	54.6,54.6
60	2881	358.5	287.7	356.9	3008	351.9	262.3	334.6	50- 60	1071	4191	73.3,73.3
70	1168	235.6	244.1	262.1	1213	240.2	232.7	237.6	60- 70	814.8	5006	87.6,87.6
80	189.6	169.6	306.7	182.8	214.3	164.8	260.9	161.2	70- 80	409.8	5416	94.7,94.7
90	76.09	82.43	25.95	90.83	75.88	71.35	21.07	74.69	80- 90	230.3	5646	98.8,98.8
100	58.11	39.96	19.42	55.14	64.18	48.96	16.85	38.33	90-100	68.52	5715	100,100
110	0	0	0	0	0	0	0	0	100-110	2.246	5717	100,100
120	0	0	0	0	0	0	0	0	110-120	0	5717	100,100
130	0	0	0	0	0	0	0	0	120-130	0	5717	100,100
140	0	0	0	0	0	0	0	0	130-140	0	5717	100,100
150	0	0	0	0	0	0	0	0	140-150	0	5717	100,100
160	0	0	0	0	0	0	0	0	150-160	0	5717	100,100
170	0	0	0	0	0	0	0	0	160-170	0	5717	100,100
180	0	0	0	0	0	0	0	0	170-180	0	5717	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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ISOCANDELA DIAGRAM

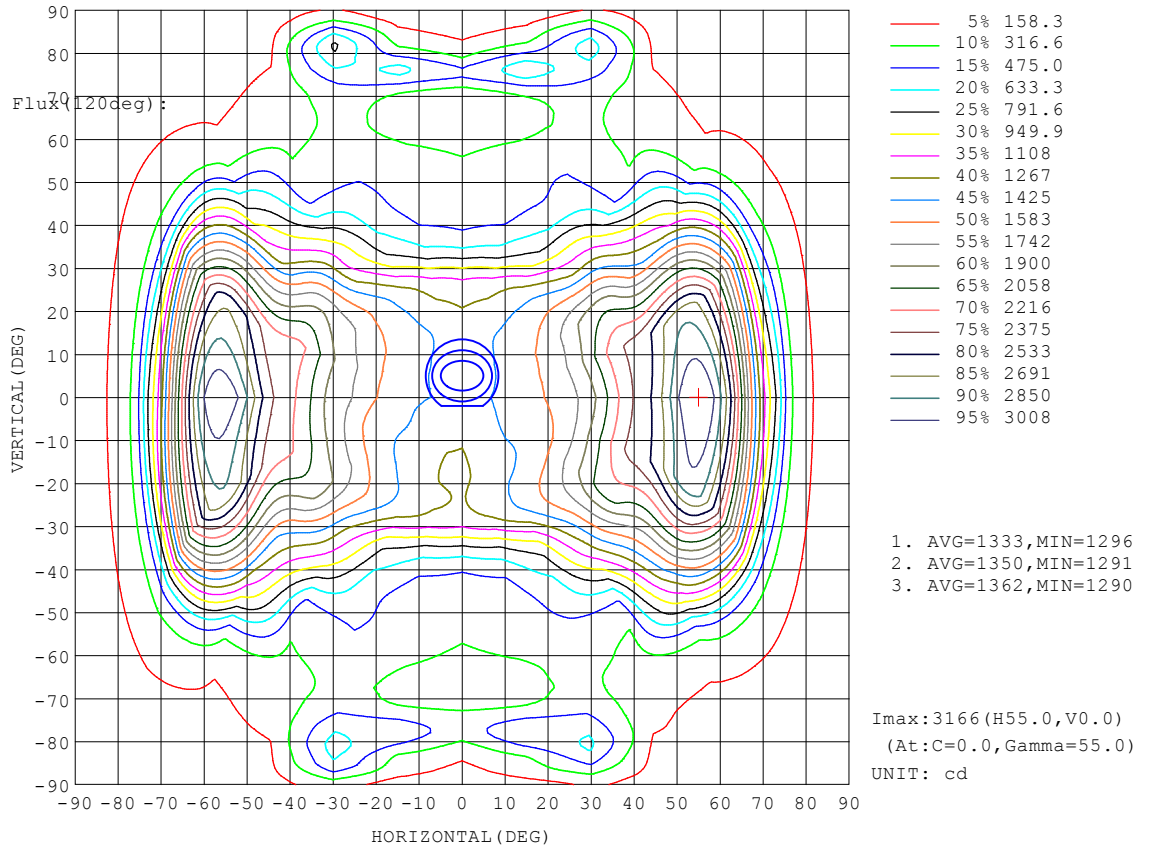
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Conical surface Flux(90deg):

2612.4 lm
 %lum = 45.7%
 %lamp = 45.7%

Conical surface Flux(20deg):

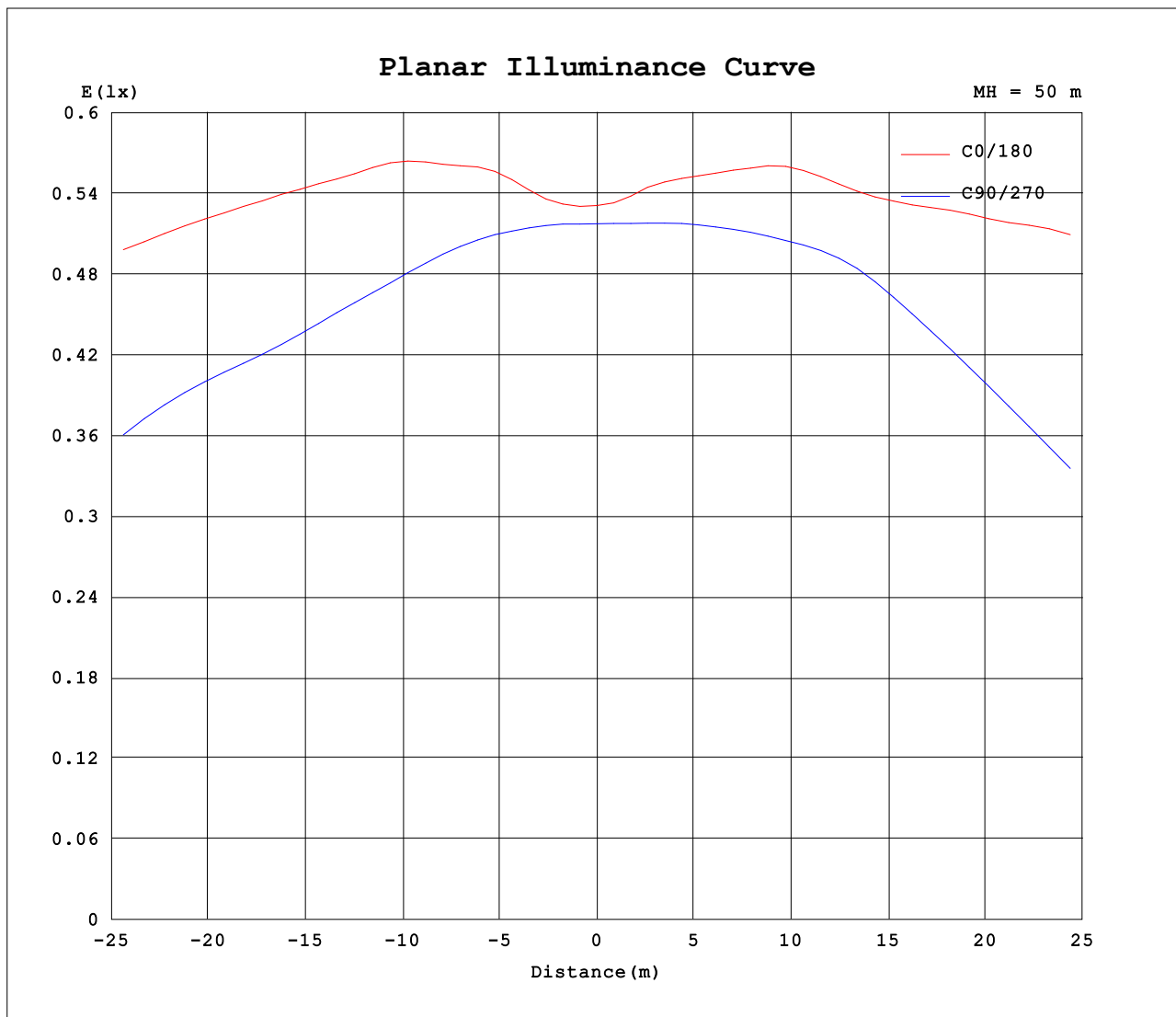
4191.1 lm
 %lum = 73.3%
 %lamp = 73.3%



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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	1328	1320	1310	1305	1301	1298	1294	1296	1289	1292	1293	1298	1328	1320	1310	1305	1301	1298	1294
5	1392	1378	1360	1339	1319	1303	1295	1300	1300	1313	1330	1342	1394	1387	1370	1355	1332	1315	1309
10	1475	1457	1432	1400	1354	1307	1278	1289	1308	1346	1377	1404	1467	1460	1439	1422	1387	1353	1331
15	1528	1499	1462	1419	1365	1296	1252	1261	1303	1366	1421	1456	1503	1503	1499	1481	1439	1378	1344
20	1598	1551	1498	1453	1389	1307	1247	1262	1328	1400	1446	1498	1590	1604	1574	1504	1418	1329	1279
25	1693	1663	1635	1559	1452	1327	1251	1280	1379	1475	1557	1616	1726	1737	1659	1527	1365	1232	1180
30	1848	1873	1832	1651	1404	1207	1112	1171	1326	1546	1741	1797	1841	1875	1763	1485	1210	1009	953
35	2128	2160	2023	1575	1106	841	754	815	1034	1464	1893	1992	2052	2093	1829	1295	890	672	617
40	2384	2399	2108	1398	821	575	496	557	758	1262	1926	2198	2255	2257	1830	1108	694	501	443
45	2595	2507	1948	1224	657	430	383	425	608	1125	1718	2252	2442	2252	1570	992	563	416	379
50	2983	2754	1747	937	531	397	357	402	512	897	1470	2439	2858	2410	1282	739	504	409	369
55	3166	2965	1635	579	477	388	335	398	497	562	1368	2744	3138	2618	1129	462	466	375	327
60	2881	2724	1404	359	413	337	288	358	452	357	1231	2810	3008	2561	918	352	400	313	262
65	2063	2090	993	293	367	283	236	300	392	316	902	2446	2244	2004	647	306	358	255	213
70	1168	1174	427	236	358	283	244	287	362	262	411	1612	1213	1070	305	240	373	273	233
75	508	394	197	187	454	468	393	457	460	210	186	568	494	324	168	187	470	610	502
80	190	171	133	170	631	558	307	519	657	183	136	214	214	165	121	165	722	438	261
85	116	111	103	121	535	269	148	257	634	138	107	129	124	108	98.5	121	669	194	111
90	76.1	81.4	82.3	82.4	187	80.8	26.0	73.2	251	90.8	84.8	89.5	75.9	83.3	72.5	71.4	180	31.0	21.1
95	67.2	67.1	62.2	69.3	119	26.6	18.8	24.6	135	77.4	69.5	78.0	72.0	68.1	61.2	63.7	99.8	19.7	15.4
100	58.1	49.2	42.2	40.0	32.9	20.7	19.4	20.3	81.7	55.1	53.1	62.4	64.2	52.2	46.8	49.0	49.6	17.4	16.9
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	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:8.100m [K=1.0000]
 Remarks: 50W LED lamp,100W Sunpower Solar Panel

LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--2

UNIT: cd

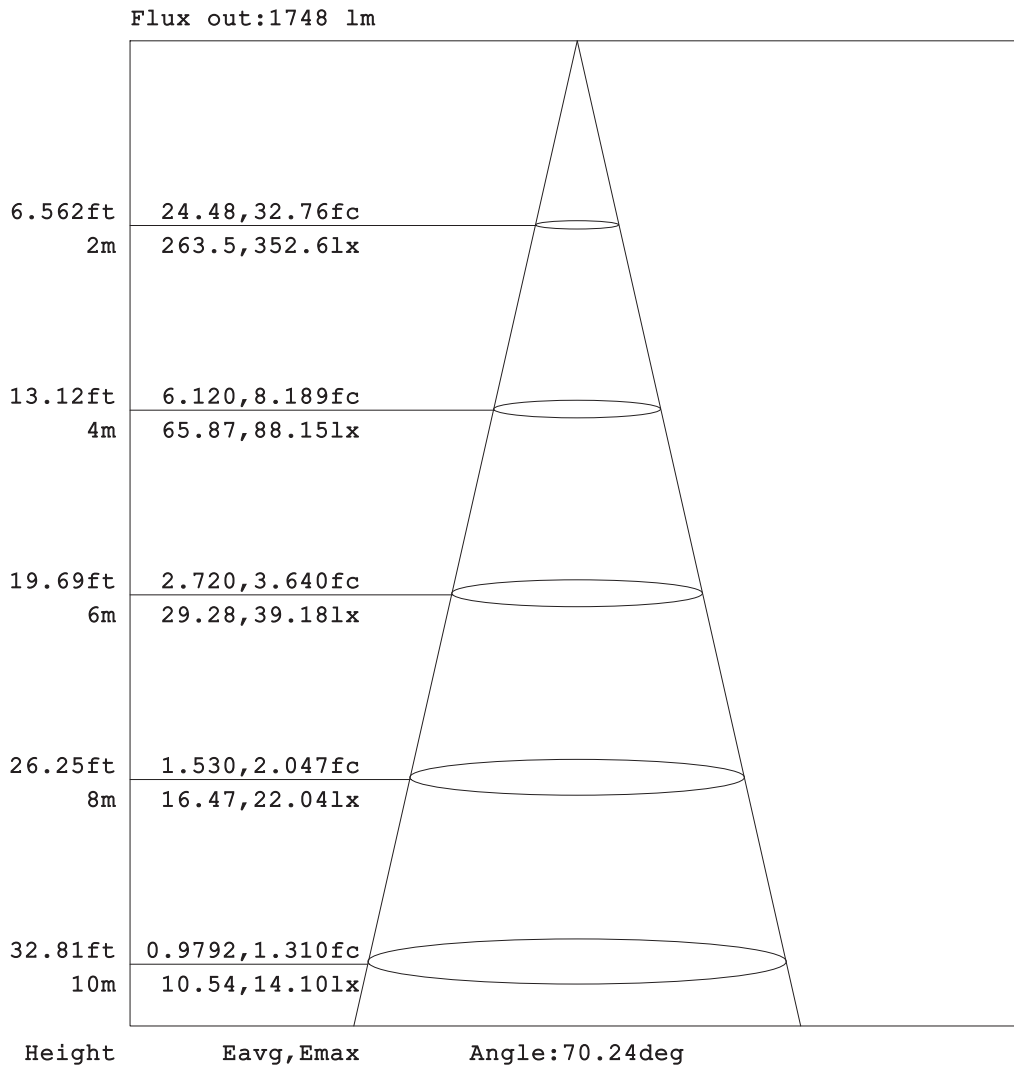
C (DEG) γ (DEG)	285	300	315	330	345														
0	1296	1289	1292	1293	1298														
5	1317	1324	1354	1372	1389														
10	1348	1383	1417	1437	1460														
15	1377	1429	1480	1500	1515														
20	1331	1421	1515	1587	1609														
25	1237	1376	1551	1692	1733														
30	1014	1213	1522	1852	1943														
35	685	909	1353	1971	2221														
40	507	713	1197	1951	2391														
45	414	574	1072	1664	2493														
50	412	496	778	1443	2730														
55	384	484	479	1305	2792														
60	322	413	335	1051	2479														
65	267	360	295	650	1798														
70	296	361	238	282	848														
75	662	443	188	155	277														
80	516	637	161	118	143														
85	212	597	120	95.7	96.6														
90	32.7	178	74.7	74.2	75.6														
95	19.1	95.2	55.8	57.0	60.1														
100	18.1	27.7	38.3	41.5	43.3														
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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