

HITECHLED OPTOELECTRONICS CO.,LTD.



Light Output Ratio:	100.0%
Luminaire Power:	25.53 W

I80 = 22.8 cd per klm.	I88 = 16.9 cd per klm.
I90 = 16.7 cd per klm.	I80/I88 = 1.347

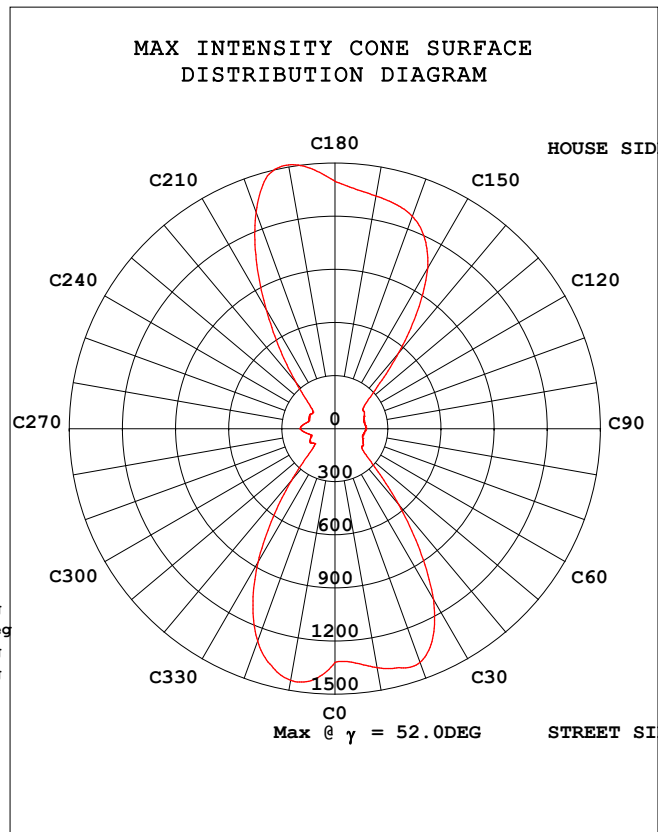
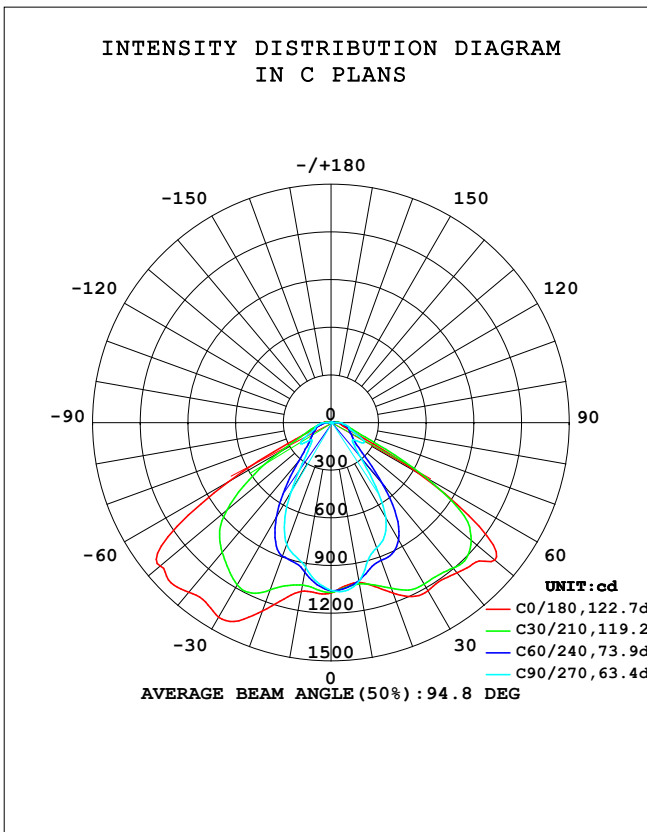
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YU
Test Date:2016-03-02

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: 25W LED,50W SUNPOWER SOLAR PANEL

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:37.00V I:0.6900A P:25.53W PF:1.000 Lamp Flux:2859.09x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 25W LED light,50W Sunpower Solar Panel	DIM.:	SERIAL No.:
MFR.: Hitechled Optoelectronics Co.,Ltd	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 111.99 lm/W			
MODEL	HT-SS-5025	I _{max} (cd)	1479	η street_up (%)	0.6
NOMINAL POWER (W)	25	LOR (%)	100.0	η street_down (%)	50.8
RATED VOLTAGE (V)		TOTAL FLUX (lm)	2859	η house_up (%)	0.6
NOMINAL FLUX (lm)	2859.09	MAXIMUM @ (C, γ)	195,52.0	η house_down (%)	48.1
LAMPS INSIDE	1	η up (%)	1.1	76 FLASHAREA (m2)	0.00100
TEST VOLTAGE (V)		η down (%)	98.9	SLI	16.429



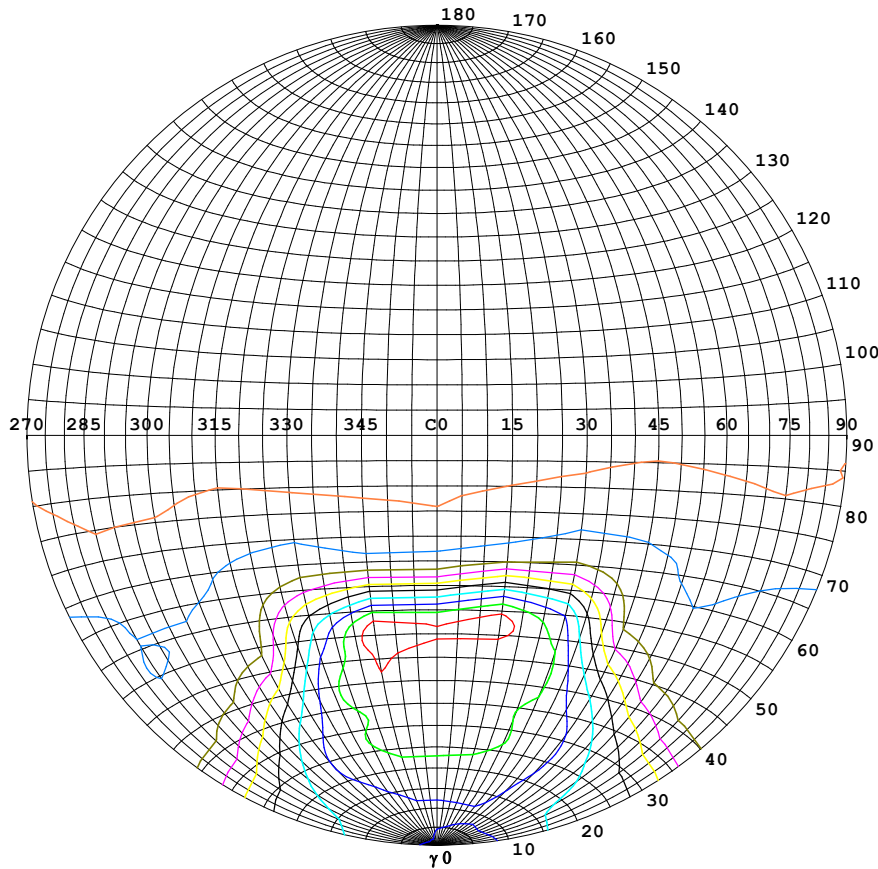
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: YU
 Test Date: 2016-03-02

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: 25W LED, 50W SUNPOWER SOLAR PANEL

Note: SLI: Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:37.00V I:0.6900A P:25.53W PF:1.000 Lamp Flux:2859.09x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
SPEC.: 25W LED light,50W Sunpower Solar Panel	DIM.:	SERIAL No.:
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Classification:

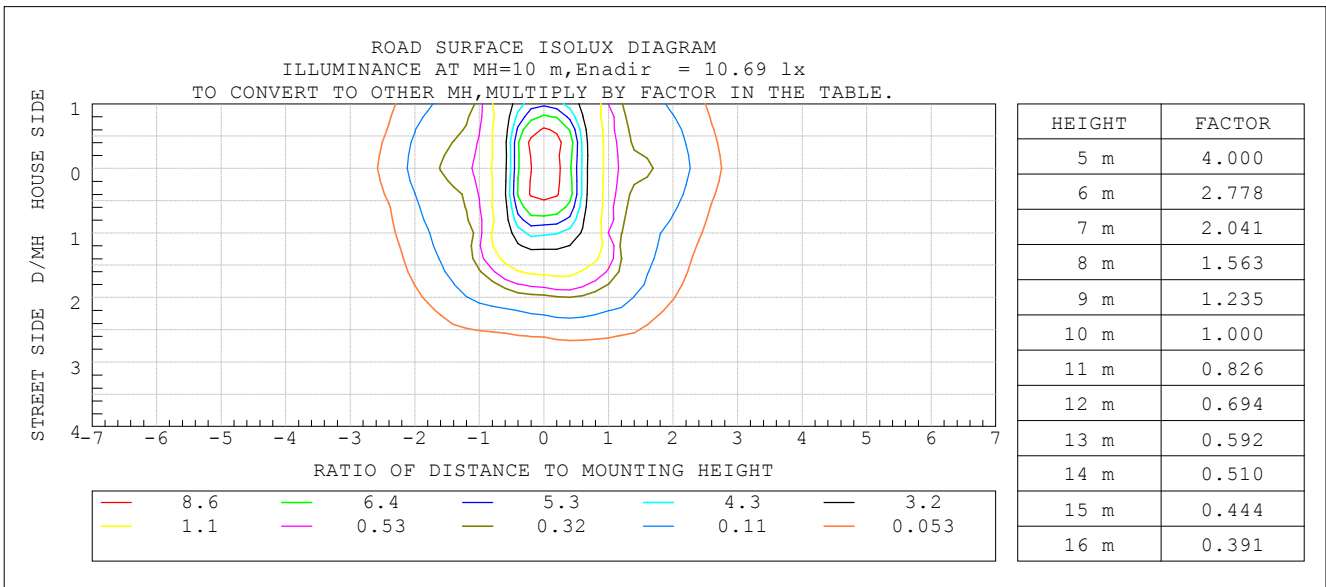
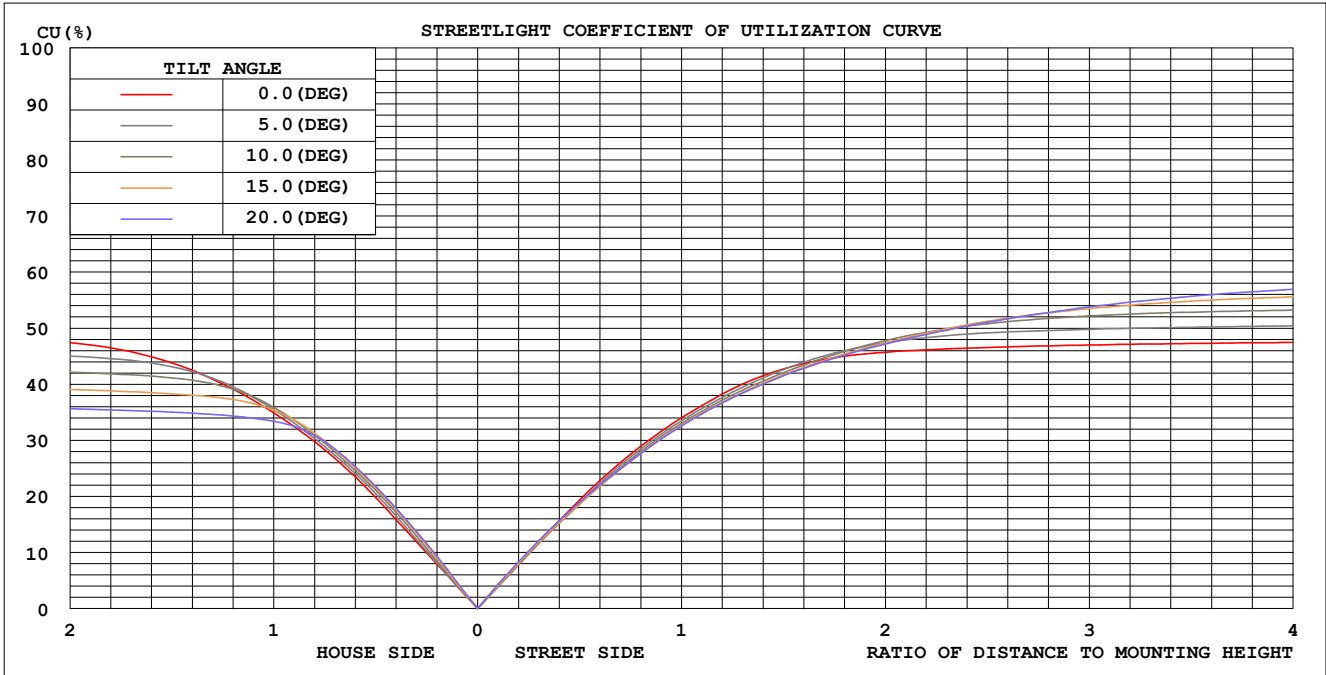
IES:Type II - Short
 CIE:Average - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:38.15cd/klm
 Max.At90:19.74cd/klm
 Max.80-90:38.15cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
I _{max} =100%	1479
— 90%	1331
— 80%	1183
— 70%	1035
— 60%	887
— 50%	739
— 40%	592
— 30%	444
— 20%	296
— 10%	148
— 5%	74

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: 25W LED,50W 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: 25W LED, 50W SUNPOWER SOLAR PANEL

ZONAL FLUX DIAGRAM

Test:U:37.00V I:0.6900A P:25.53W PF:1.000 Lamp Flux:2859.09x1 lm		
NAME: All-in-one Solar LED Street Light	TYPE: Outdoor light	WEIGHT:
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γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1022	1026	1014	1051	1079	998.3	925.1	975.0	0- 10	98.36	98.36	3.44,3.44
20	1142	1026	840.2	1016	1261	999.0	816.3	1021	10- 20	283.9	382.3	13.4,13.4
30	1222	1046	690.2	1078	1414	942.1	506.3	979.1	20- 30	469.3	851.6	29.8,29.8
40	1234	868.1	298.6	866.6	1393	626.8	220.6	659.4	30- 40	550.7	1402	49,49
50	1347	428.3	177.7	423.3	1403	258.3	174.7	255.6	40- 50	546.1	1948	68.1,68.1
60	636.6	201.3	242.0	200.3	749.3	157.8	198.7	163.0	50- 60	489.4	2438	85.3,85.3
70	106.5	149.3	131.3	155.5	114.3	129.1	107.9	130.0	60- 70	223.0	2661	93.1,93.1
80	65.07	105.4	96.33	109.1	62.60	74.11	75.73	76.07	70- 80	105.2	2766	96.7,96.7
90	47.61	51.48	10.59	50.19	42.72	24.08	29.20	27.52	80- 90	61.42	2827	98.9,98.9
100	32.02	22.75	9.486	23.79	31.48	17.18	8.834	16.99	90-100	30.61	2858	100,100
110	0	0	0	0	0	0	0	0	100-110	1.094	2859	100,100
120	0	0	0	0	0	0	0	0	110-120	0	2859	100,100
130	0	0	0	0	0	0	0	0	120-130	0	2859	100,100
140	0	0	0	0	0	0	0	0	130-140	0	2859	100,100
150	0	0	0	0	0	0	0	0	140-150	0	2859	100,100
160	0	0	0	0	0	0	0	0	150-160	0	2859	100,100
170	0	0	0	0	0	0	0	0	160-170	0	2859	100,100
180	0	0	0	0	0	0	0	0	170-180	0	2859	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Humidity:65.0%
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ISOCANDELA DIAGRAM

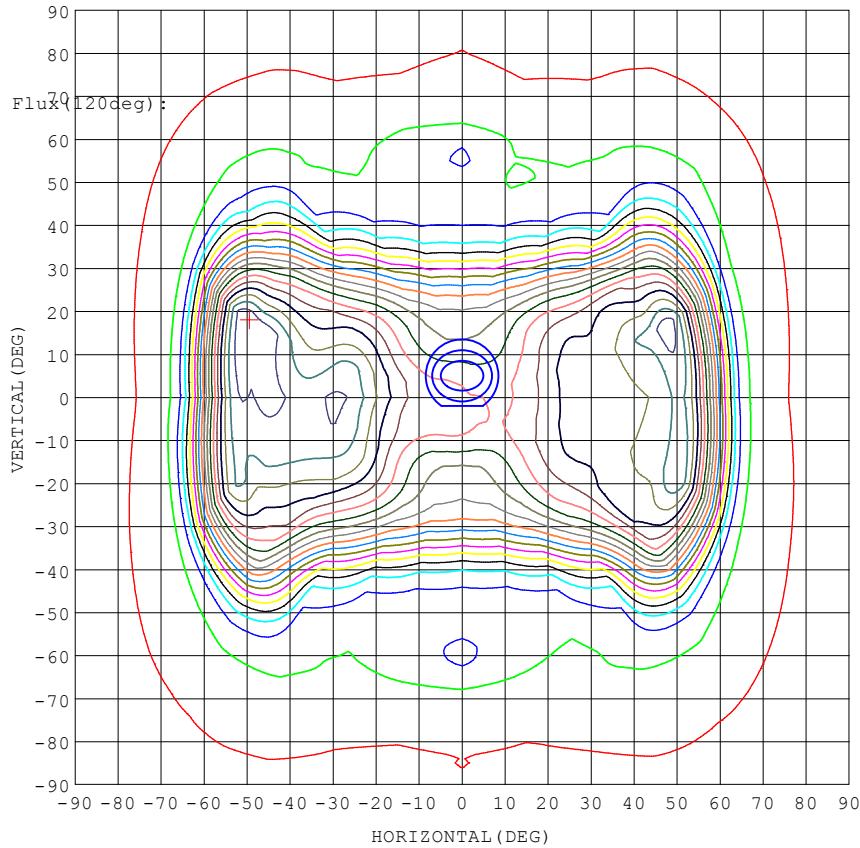
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Conical surface Flux(90deg):

1677.2 lm
 %lum = 58.7%
 %lamp = 58.7%

Conical surface Flux(20deg):

2437.7 lm
 %lum = 85.3%
 %lamp = 85.3%



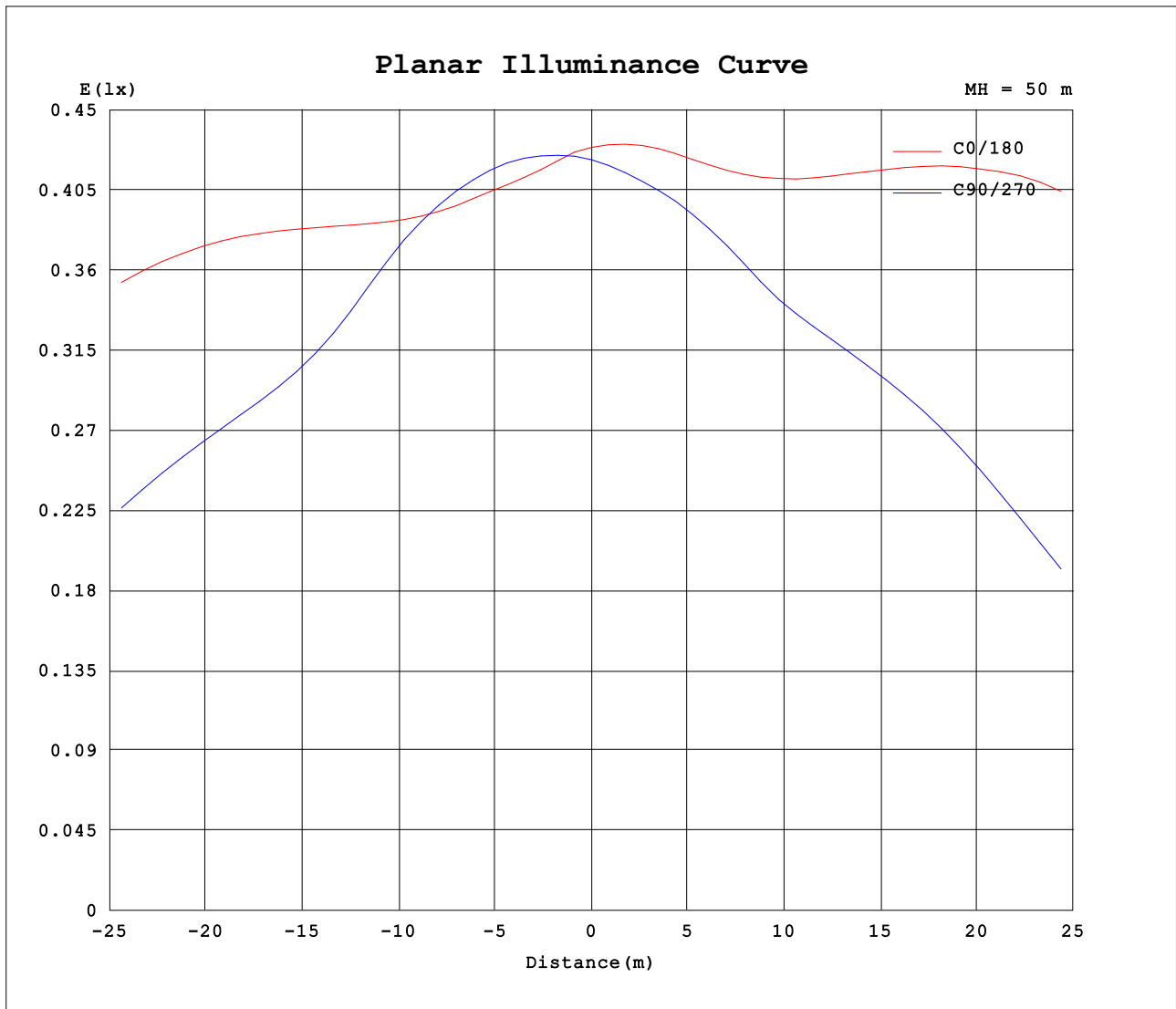
- 5% 73.78
 - 10% 147.6
 - 15% 221.3
 - 20% 295.1
 - 25% 368.9
 - 30% 442.7
 - 35% 516.5
 - 40% 590.2
 - 45% 664.0
 - 50% 737.8
 - 55% 811.6
 - 60% 885.4
 - 65% 959.2
 - 70% 1033
 - 75% 1107
 - 80% 1180
 - 85% 1254
 - 90% 1328
 - 95% 1402
1. AVG=1003,MIN=953.6
 2. AVG=1000,MIN=908.5
 3. AVG=994.4,MIN=883.2

Imax:1476 (H=49.5,V18.0)
 (At:C=195.0,Gamma=52.0)
 UNIT: cd

C Range: 0 - 360DEG
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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	1073	1071	1069	1066	1058	1056	1056	1054	1054	1054	1055	1055	1073	1071	1069	1066	1058	1056	1056
5	1032	1036	1042	1046	1045	1054	1063	1069	1073	1077	1078	1078	1076	1065	1053	1040	1023	1014	1009
10	1022	1026	1031	1026	1010	1007	1014	1022	1033	1051	1063	1072	1079	1066	1038	998	956	931	925
15	1067	1068	1059	1017	951	909	900	912	950	1018	1080	1109	1149	1131	1061	978	909	877	871
20	1142	1137	1109	1026	923	861	840	855	912	1016	1130	1202	1261	1226	1120	999	896	828	816
25	1208	1198	1162	1049	911	818	795	820	916	1070	1228	1323	1375	1327	1183	1009	828	718	694
30	1222	1212	1173	1046	851	718	690	727	861	1078	1276	1397	1414	1323	1181	942	689	536	506
35	1210	1206	1174	990	719	540	492	551	727	1002	1251	1381	1379	1264	1126	808	504	345	317
40	1234	1247	1195	868	510	336	299	345	521	867	1191	1364	1393	1300	1066	627	322	231	221
45	1261	1273	1207	667	304	221	212	228	315	657	1139	1349	1425	1408	993	409	219	178	175
50	1347	1365	1152	428	205	172	178	180	212	423	1089	1306	1403	1446	856	258	175	152	175
55	1138	1298	1025	267	169	151	205	158	176	266	968	1337	1253	1395	631	184	149	178	234
60	637	830	686	201	147	161	242	177	155	200	752	1040	749	922	383	158	132	171	199
65	195	292	324	172	130	148	178	163	138	172	396	503	249	353	211	148	112	130	136
70	106	130	168	149	120	113	131	122	123	155	190	154	114	130	144	129	99.3	93.9	108
75	78.1	94.2	117	124	110	97.1	118	102	108	131	126	99.8	77.7	91.6	103	102	77.7	77.2	96.8
80	65.1	74.6	85.5	105	86.0	76.5	96.3	80.6	84.9	109	92.2	80.4	62.6	66.5	73.8	74.1	59.7	57.4	75.7
85	53.1	65.3	65.6	76.6	65.0	55.1	75.9	56.0	65.9	80.1	70.7	68.5	48.2	56.1	48.5	43.6	38.9	44.4	65.5
90	47.6	56.4	56.3	51.5	38.5	19.3	10.6	21.9	38.8	50.2	53.7	55.3	42.7	50.3	35.7	24.1	15.0	27.9	29.2
95	38.8	45.3	39.5	39.0	23.1	10.7	9.09	11.1	27.7	37.5	40.5	49.1	34.0	39.0	31.4	22.8	10.5	8.30	8.13
100	32.0	29.7	26.0	22.8	13.9	10.4	9.49	10.1	18.4	23.8	32.8	48.4	31.5	27.6	21.6	17.2	10.3	8.95	8.83
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
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 Test Speed: HIGH
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 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: 25W LED,50W SUNPOWER SOLAR PANEL

LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--2

UNIT: cd

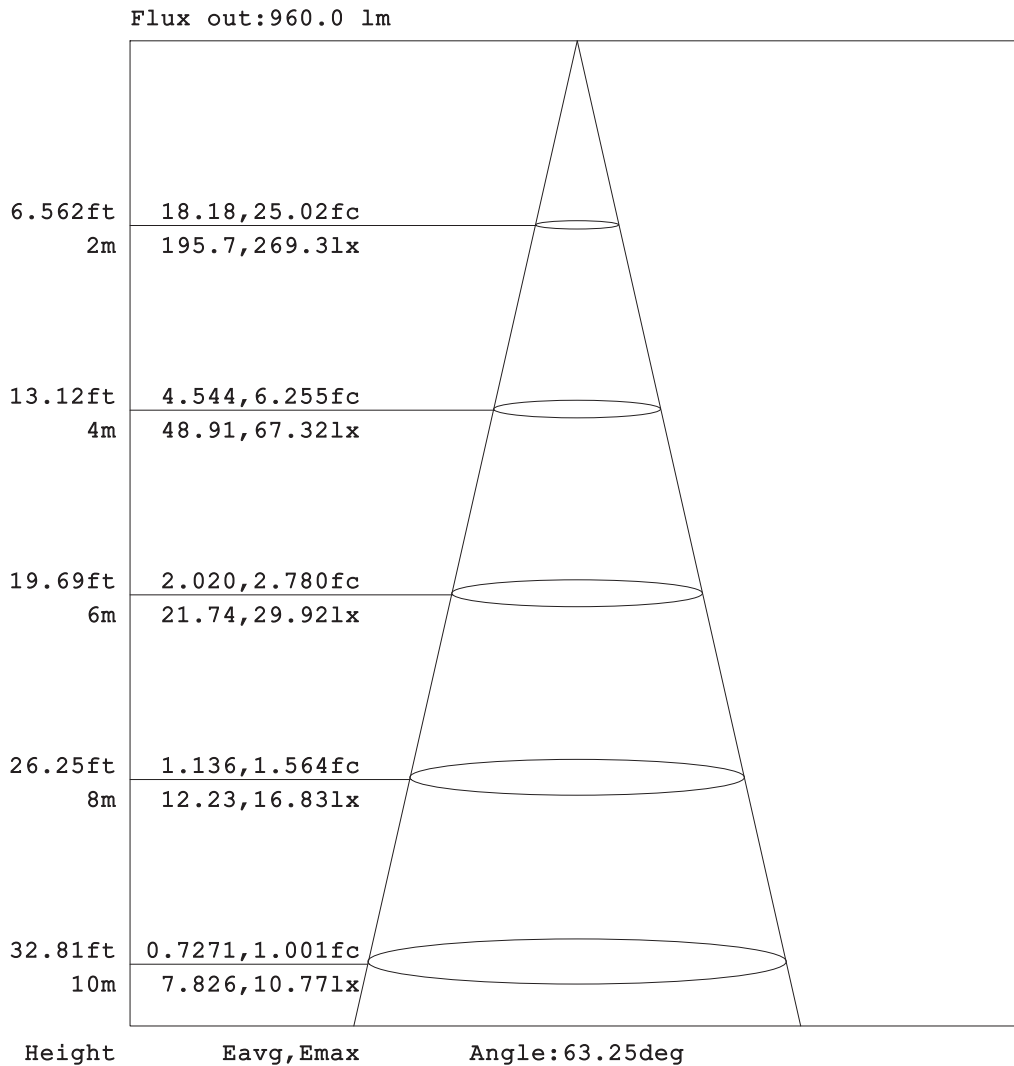
C (DEG) γ (DEG)	285	300	315	330	345														
0	1054	1054	1054	1055	1055														
5	1000	999	1001	1006	1013														
10	926	947	975	1002	1018														
15	886	924	977	1031	1067														
20	838	914	1021	1095	1139														
25	726	859	1035	1161	1203														
30	547	724	979	1173	1201														
35	351	538	851	1170	1219														
40	231	338	659	1162	1306														
45	175	218	426	1071	1350														
50	146	171	256	932	1441														
55	146	153	191	723	1155														
60	139	141	163	415	637														
65	114	123	155	215	186														
70	89.4	103	130	142	108														
75	71.1	79.3	103	97.7	85.8														
80	52.0	59.0	76.1	70.0	65.2														
85	35.5	36.5	42.0	48.7	56.8														
90	26.1	17.3	27.5	38.8	50.2														
95	8.78	11.7	21.0	34.9	40.6														
100	9.63	11.1	17.0	20.8	24.6														
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.

C Range: 0 - 360DEG
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