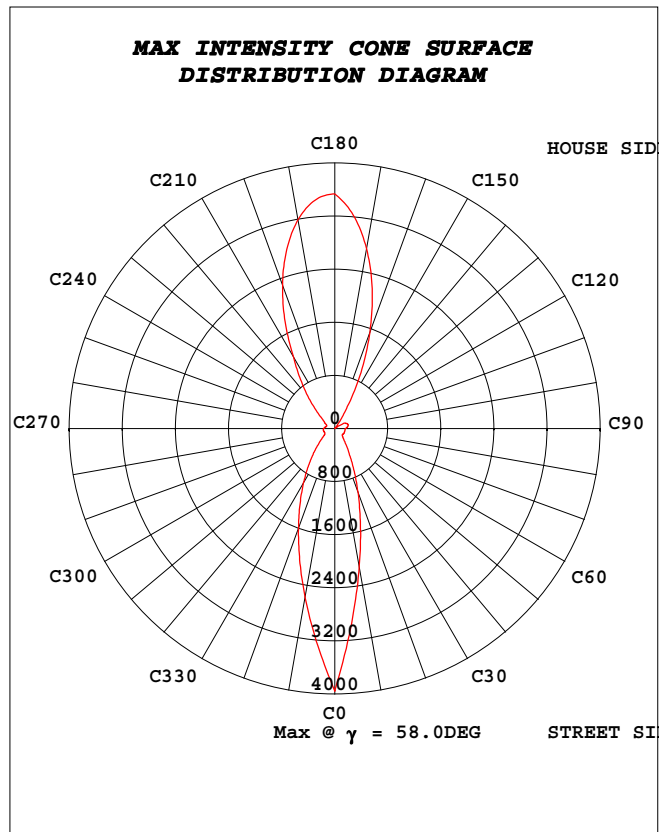
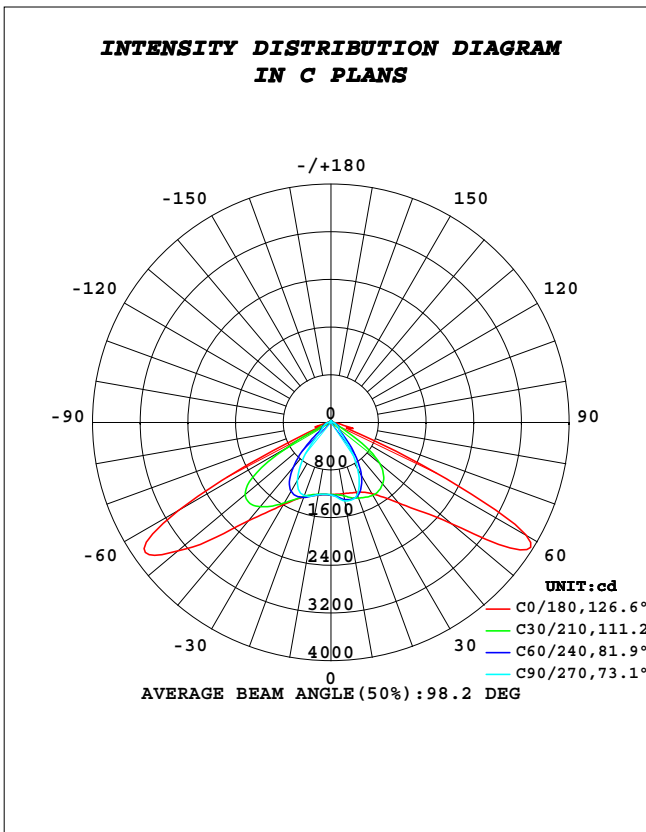


STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:30.00V I:1.000A P:30.00W PF:1.000 Lamp Flux:4385.22x1 lm		
NAME: 40PCS-30W	TYPE:CREE 3030 LED	
MFR.: HITECHLED		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 146.17 lm/W			
MODEL	HT-SWD-5030	Imax(cd)	3954	η street_up(%)	2.1
NOMINAL POWER(W)	30	LOR(%)	100.0	η street_down(%)	50.6
RATED VOLTAGE(V)	30	TOTAL FLUX(lm)	4385	η house_up(%)	1.5
NOMINAL FLUX(lm)	4385.22	MAXIMUM @(C, γ)	0,58.0	η house_down(%)	45.8
LAMPS INSIDE	1	η up(%)	3.6	76 FLASHAREA(m2)	
TEST VOLTAGE(V)	30	η down(%)	96.4	SLI	



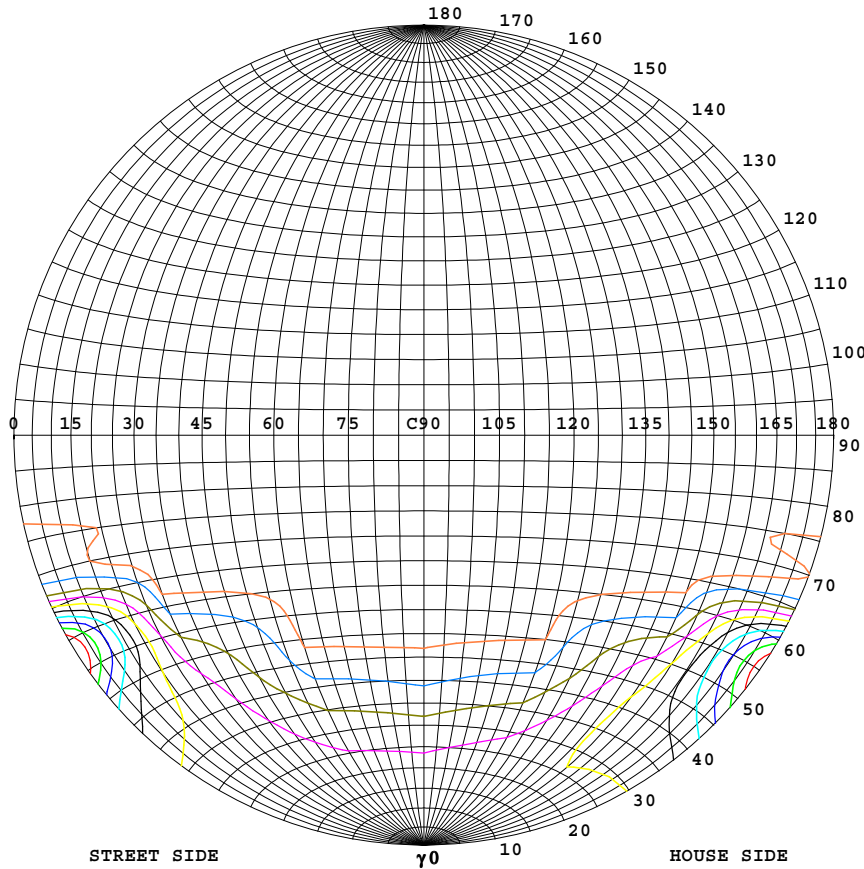
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

Note: SLI: Specific Luminaire Index

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:30.00V I:1.000A P:30.00W PF:1.000 Lamp Flux:4385.22x1 lm		
NAME: 40PCS-30W	TYPE:CREE 3030 LED	
MFR.: HITECHLED		



Classification:

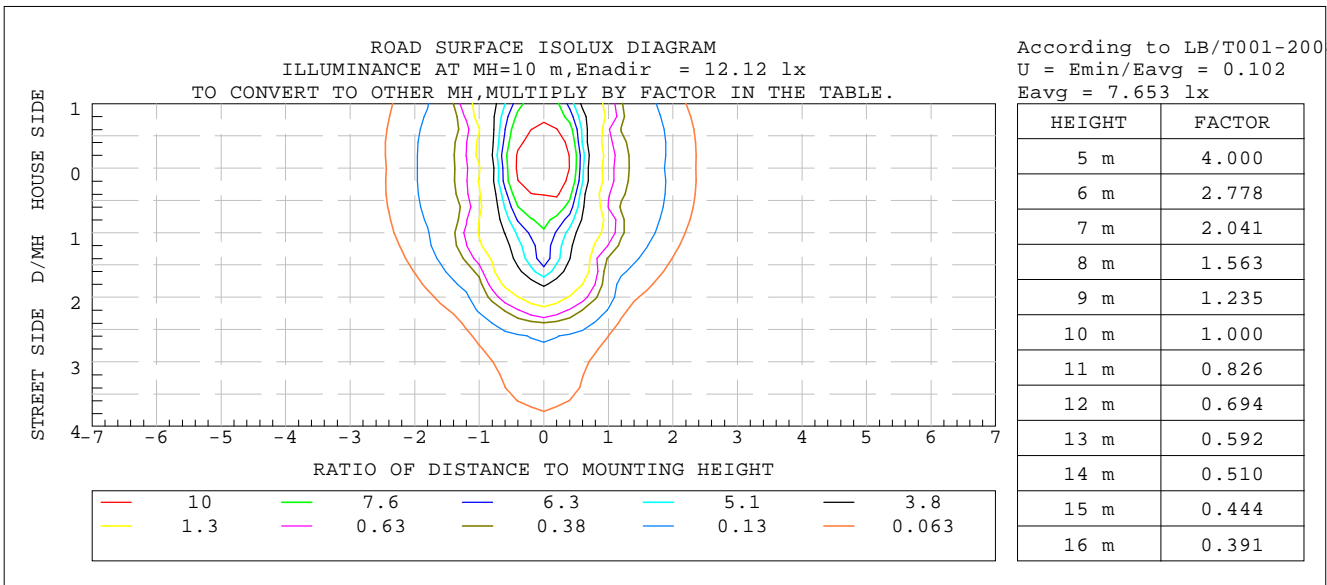
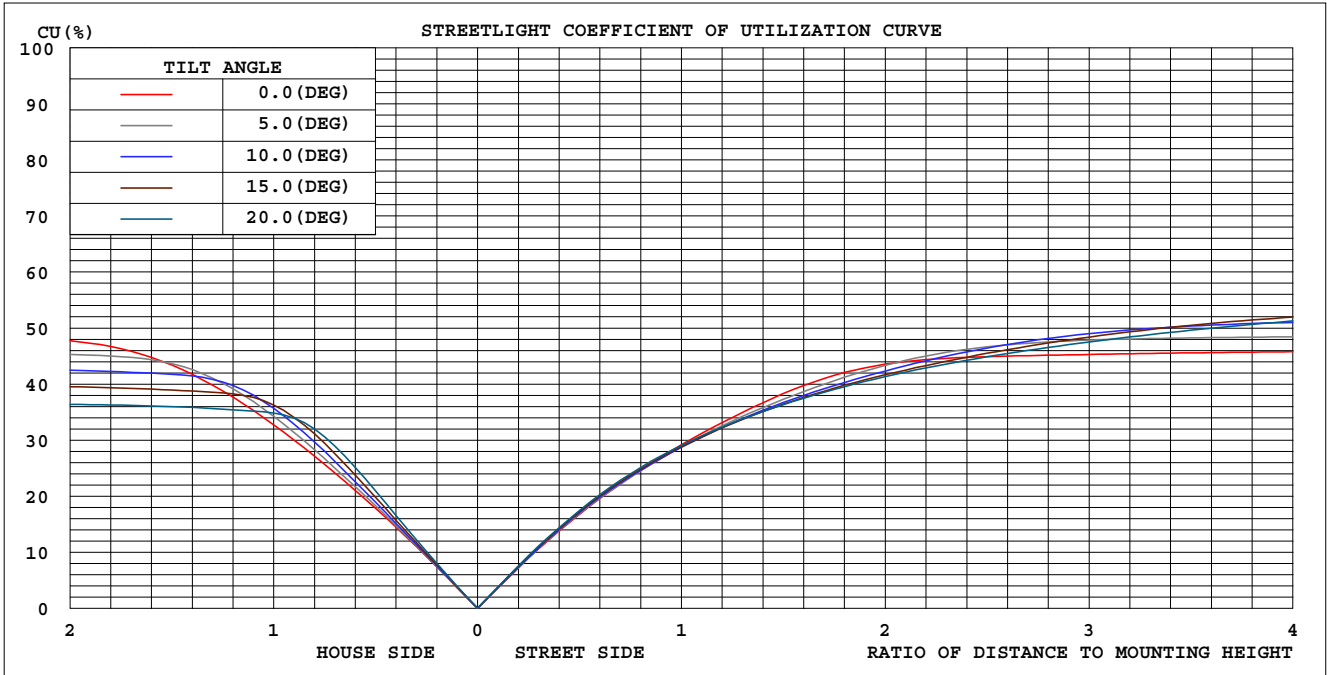
IES:Type III - Short
 CIE:Broad - Short
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:32.80cd/klm
 Max.At90:10.22cd/klm
 Max.80-90:32.80cd/klm
 NRB 5101:Limited[2.1%]

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3954
90%	3559
80%	3163
70%	2768
60%	2372
50%	1977
40%	1582
30%	1186
20%	791
10%	395
5%	198

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2018-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity:65.0%
Test Distance:8.000m [K=0.7063]
Remarks:

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

ZONAL FLUX DIAGRAM

Test:U:30.00V I:1.000A P:30.00W PF:1.000 Lamp Flux:4385.22x1 lm		
NAME: 40PCS-30W	TYPE:CREE 3030 LED	
MFR.: HITECHLED		

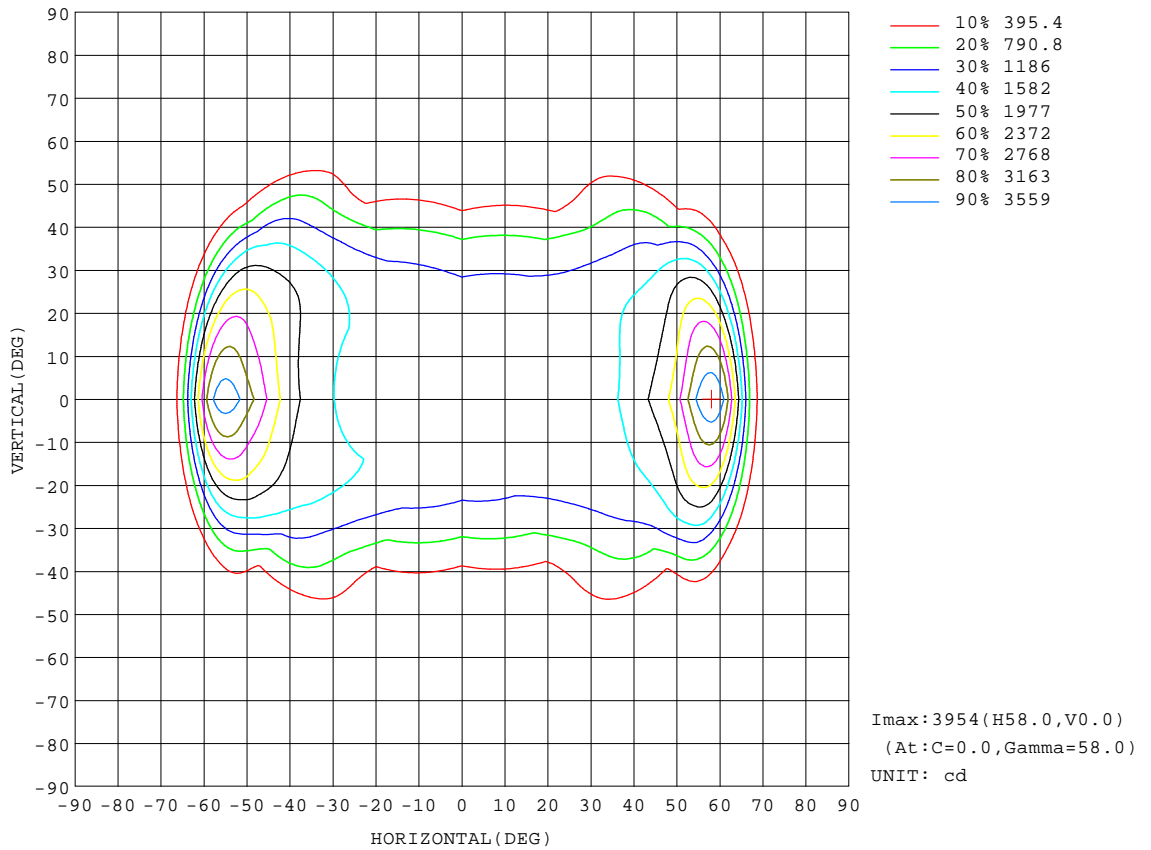
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1215	1284	1336	1320	1240	1230	1234	1222	0- 10	118.4	118.4	2.7,2.7
20	1251	1331	1289	1427	1336	1330	1306	1284	10- 20	368.6	487.1	11.1,11.1
30	1382	1218	898.8	1381	1592	1449	1130	1318	20- 30	614.5	1102	25.1,25.1
40	1763	923.9	339.3	1104	2157	1420	622.8	1179	30- 40	784.8	1886	43,43
50	2650	626.1	176.7	716.3	3353	1123	216.1	859.2	40- 50	866.8	2753	62.8,62.8
60	3777	225.7	133.1	213.7	2964	521.2	159.3	432.9	50- 60	918.8	3672	83.7,83.7
70	279.3	104.9	90.96	106.5	195.3	133.3	106.9	128.6	60- 70	380.7	4053	92.4,92.4
80	143.9	58.99	45.81	57.88	100.9	75.35	67.01	79.15	70- 80	119.3	4172	95.1,95.1
90	42.50	24.83	17.43	22.42	44.80	30.29	26.85	37.81	80- 90	54.87	4227	96.4,96.4
100	27.82	24.93	17.61	23.33	31.12	26.47	21.91	28.40	90-100	29.90	4257	97.1,97.1
110	29.70	22.64	15.68	19.76	31.17	22.61	18.47	25.02	100-110	25.48	4282	97.7,97.7
120	31.22	22.76	15.15	19.02	31.54	20.36	17.22	23.54	110-120	22.39	4305	98.2,98.2
130	29.57	25.53	17.64	19.97	29.45	21.00	17.33	25.37	120-130	20.19	4325	98.6,98.6
140	27.52	28.38	22.11	21.65	28.13	22.14	20.70	28.35	130-140	18.58	4343	99,99
150	30.25	30.38	25.59	25.13	30.51	24.57	24.26	30.28	140-150	16.44	4360	99.4,99.4
160	32.97	32.21	28.45	29.16	32.48	27.88	26.86	31.75	150-160	13.35	4373	99.7,99.7
170	33.57	33.44	31.68	32.51	34.12	31.40	29.92	33.42	160-170	8.879	4382	99.9,99.9
180	34.94	33.81	32.99	34.64	34.96	33.83	33.01	34.64	170-180	3.171	4385	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2018-06-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.267
 Humidity:65.0%
 Test Distance:8.000m [K=0.7063]
 Remarks:

ISOCANDELA DIAGRAM

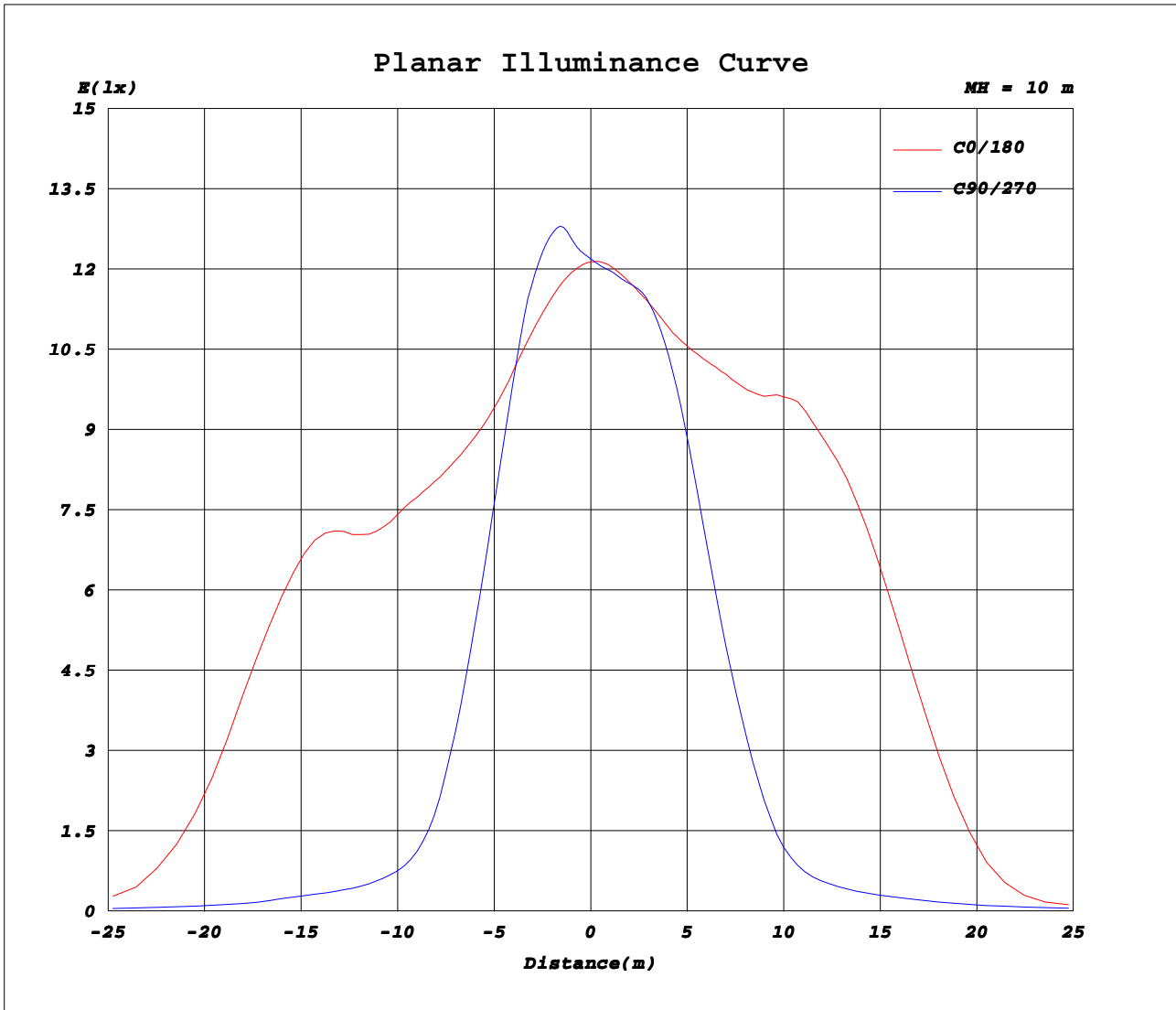
Test:U:30.00V I:1.000A P:30.00W PF:1.000 Lamp Flux:4385.22x1 lm		
NAME: 40PCS-30W	TYPE:CREE 3030 LED	
MFR.: HITECHLED		



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:30.00V I:1.000A P:30.00W PF:1.000 Lamp Flux:4385.22x1 lm		
NAME: 40PCS-30W	TYPE:CREE 3030 LED	
MFR.: HITECHLED		

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1213	1212	1219	1219	1228	1218	1213	1212	1219	1219	1228	1218							
5	1211	1221	1251	1264	1269	1243	1223	1211	1215	1213	1218	1208							
10	1215	1251	1316	1336	1347	1293	1240	1225	1234	1234	1231	1213							
15	1227	1308	1335	1347	1382	1387	1276	1260	1279	1283	1267	1226							
20	1251	1351	1311	1289	1382	1471	1336	1321	1339	1306	1306	1262							
25	1293	1386	1202	1129	1294	1557	1433	1423	1367	1270	1310	1326							
30	1382	1411	1024	899	1130	1633	1592	1560	1339	1130	1244	1391							
35	1534	1401	781	614	882	1660	1826	1712	1218	903	1087	1461							
40	1763	1351	497	339	581	1626	2157	1847	992	623	852	1507							
45	2097	1252	263	214	305	1504	2718	1923	694	338	563	1502							
50	2650	1067	185	177	197	1235	3353	1879	368	216	297	1421							
55	3675	725	162	168	168	697	3804	1610	206	180	198	1207							
60	3777	296	156	133	161	267	2964	873	169	159	167	698							
65	1665	144	130	112	134	162	713	272	147	123	145	239							
70	279	116	94.0	91.0	96.8	116	195	142	124	107	117	140							
75	388	82.9	81.1	73.1	83.3	86.3	253	105	94.9	84.8	88.1	99.6							
80	144	61.4	56.5	45.8	56.7	59.0	101	75.1	75.6	67.0	78.6	79.7							
85	65.9	50.7	36.2	28.9	32.0	40.8	65.1	55.4	54.0	46.8	55.8	62.9							
90	42.5	29.2	20.5	17.4	19.7	25.1	44.8	31.9	28.6	26.9	33.5	42.1							
95	41.2	28.8	22.6	19.5	21.5	27.7	46.6	29.9	22.6	21.6	24.9	31.5							
100	27.8	28.1	21.7	17.6	20.0	26.7	31.1	29.8	23.2	21.9	25.5	31.3							
105	28.3	27.3	20.2	16.2	17.5	25.4	31.4	28.2	21.4	20.0	23.8	29.8							
110	29.7	26.5	18.8	15.7	15.7	23.8	31.2	26.5	18.8	18.5	21.5	28.5							
115	32.8	26.4	18.2	15.4	15.0	22.8	33.6	24.5	17.4	17.8	20.0	27.7							
120	31.2	26.9	18.6	15.1	14.9	23.2	31.5	23.9	16.8	17.2	19.6	27.5							
125	30.8	27.8	20.4	15.8	16.1	22.6	29.3	24.2	16.8	16.8	19.9	28.6							
130	29.6	28.6	22.5	17.6	17.8	22.2	29.4	24.2	17.8	17.3	21.3	29.5							
135	28.3	29.5	24.7	19.8	19.5	21.8	28.7	23.8	19.2	18.9	23.1	30.7							
140	27.5	30.1	26.6	22.1	21.0	22.3	28.1	23.6	20.7	20.7	25.2	31.5							
145	28.4	30.6	28.2	24.0	22.3	24.1	29.2	24.4	21.8	22.6	26.9	32.0							
150	30.3	31.3	29.4	25.6	23.8	26.5	30.5	26.2	23.0	24.3	28.3	32.3							
155	31.9	32.2	30.4	26.9	25.6	28.6	31.6	27.9	24.3	25.6	29.3	32.7							
160	33.0	33.1	31.3	28.4	27.9	30.5	32.5	29.7	26.0	26.9	30.2	33.3							
165	33.4	33.7	32.2	30.1	30.2	31.8	33.4	31.4	28.1	28.3	31.1	34.0							
170	33.6	34.0	32.9	31.7	32.0	33.0	34.1	32.7	30.1	29.9	32.1	34.7							
175	34.3	34.3	33.2	32.7	33.2	34.5	34.7	33.9	31.8	31.7	33.2	35.3							
180	34.9	34.5	33.1	33.0	33.8	35.4	35.0	34.6	33.0	33.0	33.8	35.5							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2018-06-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.267
Humidity: 65.0%
Test Distance: 8.000m [K=0.7063]
Remarks: