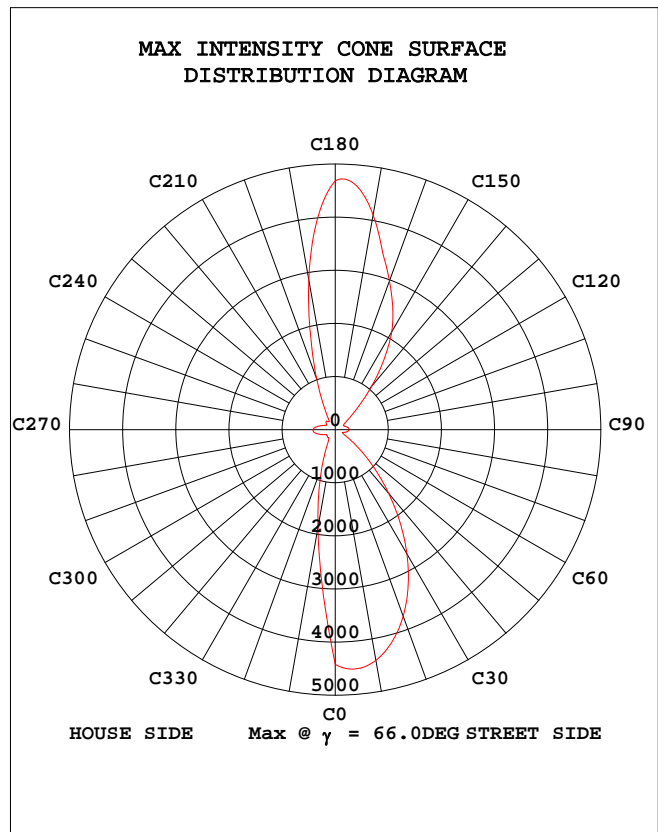
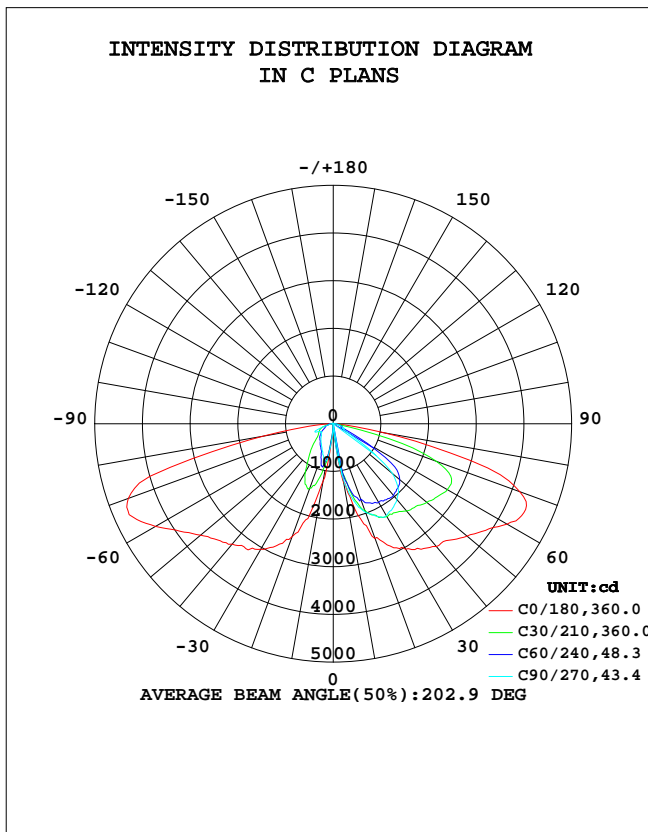


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.04V I:0.2651A P:57.706W PF:0.9891 Freq:50.01Hz Lamp Flux:6649x1 lm		
NAME: T-221LED60-24	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 115.22 lm/W			
MODEL: 5050	40K RA70 TYPE III L	I _{max} (cd)	4686	η street_up(%)	0.5
NOMINAL POWER(W)	60	LOR(%)	100.0	η street_down(%)	67.2
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	6649	η house_up(%)	0.6
NOMINAL FLUX(lm)	6649	MAXIMUM @ (C, γ)	180,66.0	η house_down(%)	31.8
LAMPS INSIDE	1	η up(%)	1.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	η down(%)	99.0	SLI	21.234



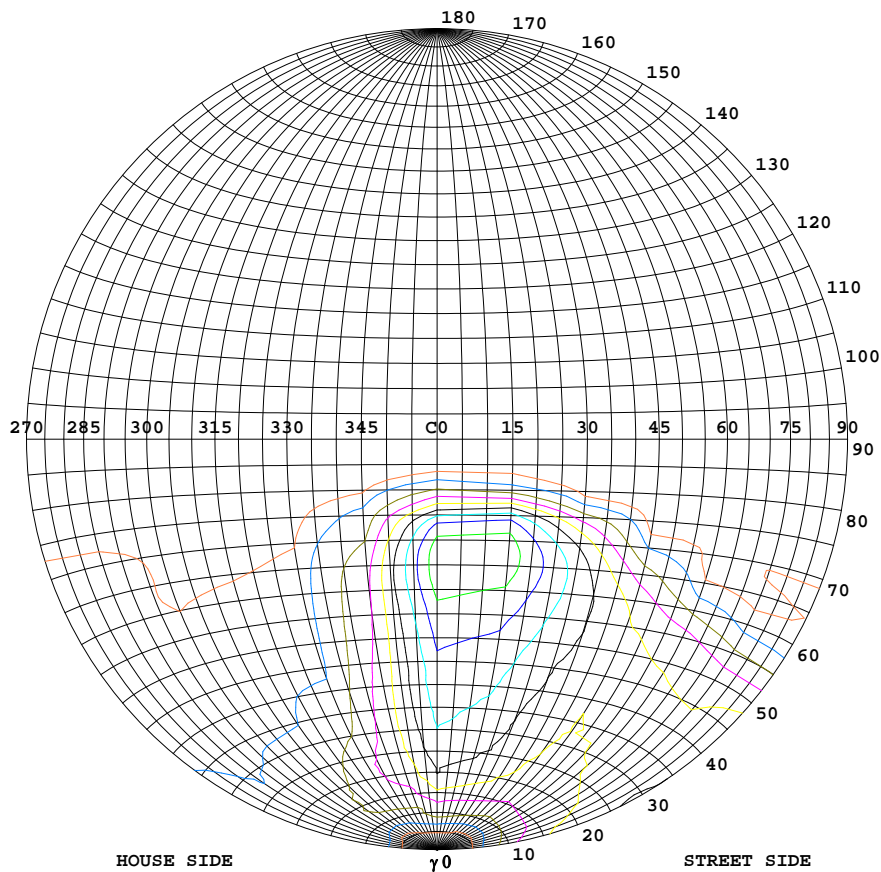
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-09-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 26.000m [K=1.0000]
Remarks: T-221LED60-24(5050 40K RA70 TYPE III)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.04V I:0.2651A P:57.706W PF:0.9891 Freq:50.01Hz Lamp Flux:6649x1 lm		
NAME: T-221LED60-24	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



Classification:

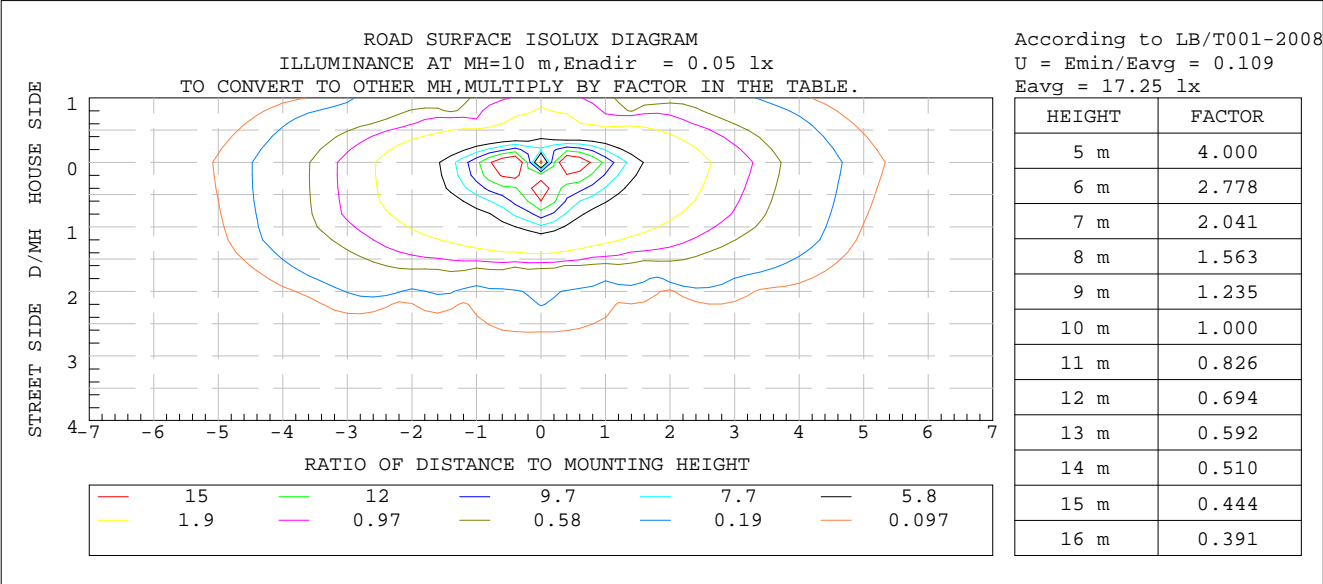
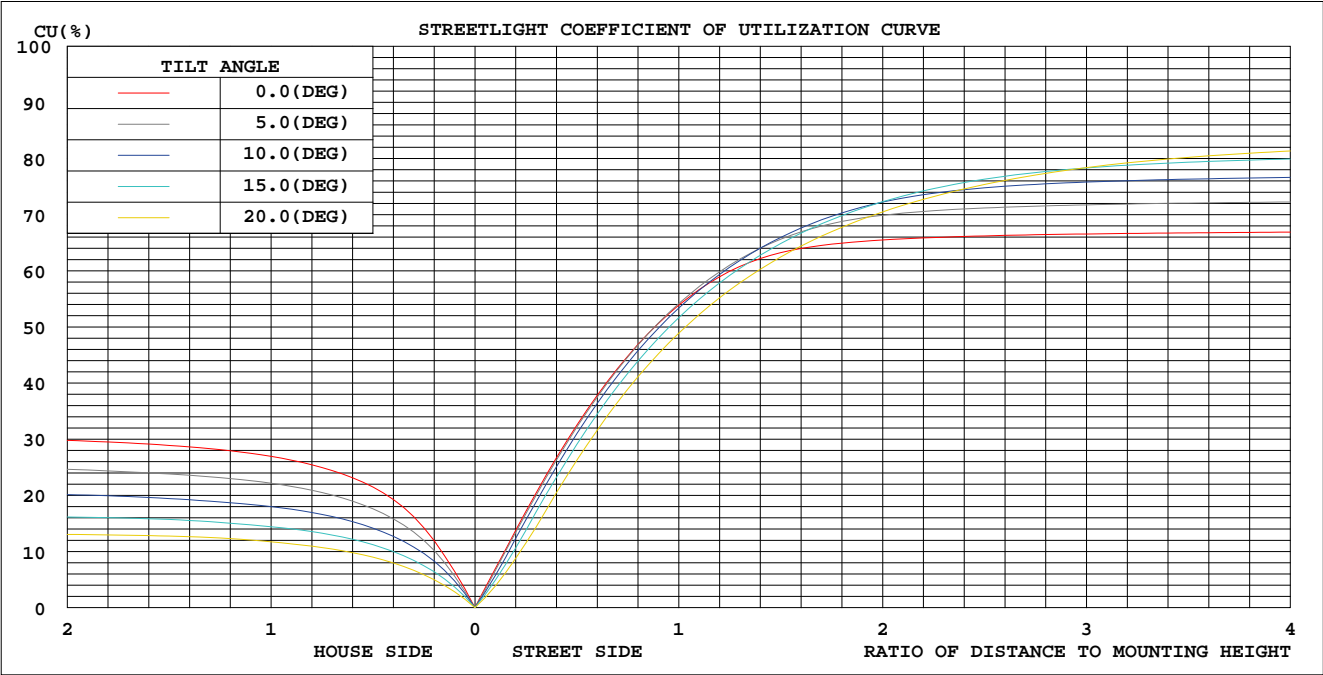
IES:Type V - Short
 CIE:Narrow - Intermediate
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:220.2cd/klm
 Max.At90:7.315cd/klm
 Max.80-90:220.2cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4686
90%	4218
80%	3749
70%	3280
60%	2812
50%	2343
40%	1875
30%	1406
20%	937
10%	469
5%	234

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: T-221LED60-24(5050 40K RA70 TYPEIII)L

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:26.000m [K=1.0000]
Remarks: T-221LED60-24(5050 40K RA70 TYPEIII)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:220.04V I:0.2651A P:57.706W PF:0.9891 Freq:50.01Hz Lamp Flux:6649x1 lm		
NAME: T-221LED60-24	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	1257	836.7	1117	746.2	1208	697.3	785.7	680.8	0- 10	41.18	41.18	0.62,0.62
20	2561	1730	1978	1554	2514	1080	645.1	925.8	10- 20	366.8	408.0	6.14,6.14
30	3041	1862	2225	1649	3040	567.5	502.4	540.1	20- 30	717.2	1125	16.9,16.9
40	3363	1980	2077	1747	3297	454.2	403.6	432.5	30- 40	978.7	2104	31.6,31.6
50	3665	2043	1613	1785	3635	406.8	338.5	372.7	40- 50	1180	3283	49.4,49.4
60	4211	1791	288.9	1439	4305	317.6	322.4	287.0	50- 60	1259	4542	68.3,68.3
70	4159	479.8	172.0	234.5	4573	161.3	328.9	150.4	60- 70	1191	5733	86.2,86.2
80	1065	128.3	105.0	167.9	1464	83.93	84.04	85.86	70- 80	733.1	6466	97.2,97.2
90	37.63	33.03	33.20	34.73	45.52	24.31	29.72	23.17	80- 90	114.9	6581	99,99
100	11.81	4.419	5.215	4.433	9.927	10.69	7.032	6.224	90-100	20.55	6601	99.3,99.3
110	11.39	3.808	1.982	3.895	9.093	6.125	2.429	4.965	100-110	7.344	6608	99.4,99.4
120	11.74	4.352	2.822	4.640	10.31	7.893	4.660	6.568	110-120	6.659	6615	99.5,99.5
130	12.43	6.448	4.795	6.346	12.72	10.60	8.184	9.499	120-130	7.314	6622	99.6,99.6
140	13.58	8.551	6.783	8.265	14.62	12.47	11.15	11.69	130-140	7.653	6630	99.7,99.7
150	15.24	11.97	9.699	11.35	16.63	15.67	13.33	14.57	140-150	7.547	6638	99.8,99.8
160	16.57	15.06	12.34	14.14	17.20	17.05	14.56	15.95	150-160	6.619	6644	99.9,99.9
170	12.57	10.22	9.672	9.509	12.43	11.31	10.73	10.50	160-170	3.962	6648	100,100
180	6.272	5.796	5.497	5.389	6.502	5.904	5.301	5.387	170-180	0.7718	6649	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

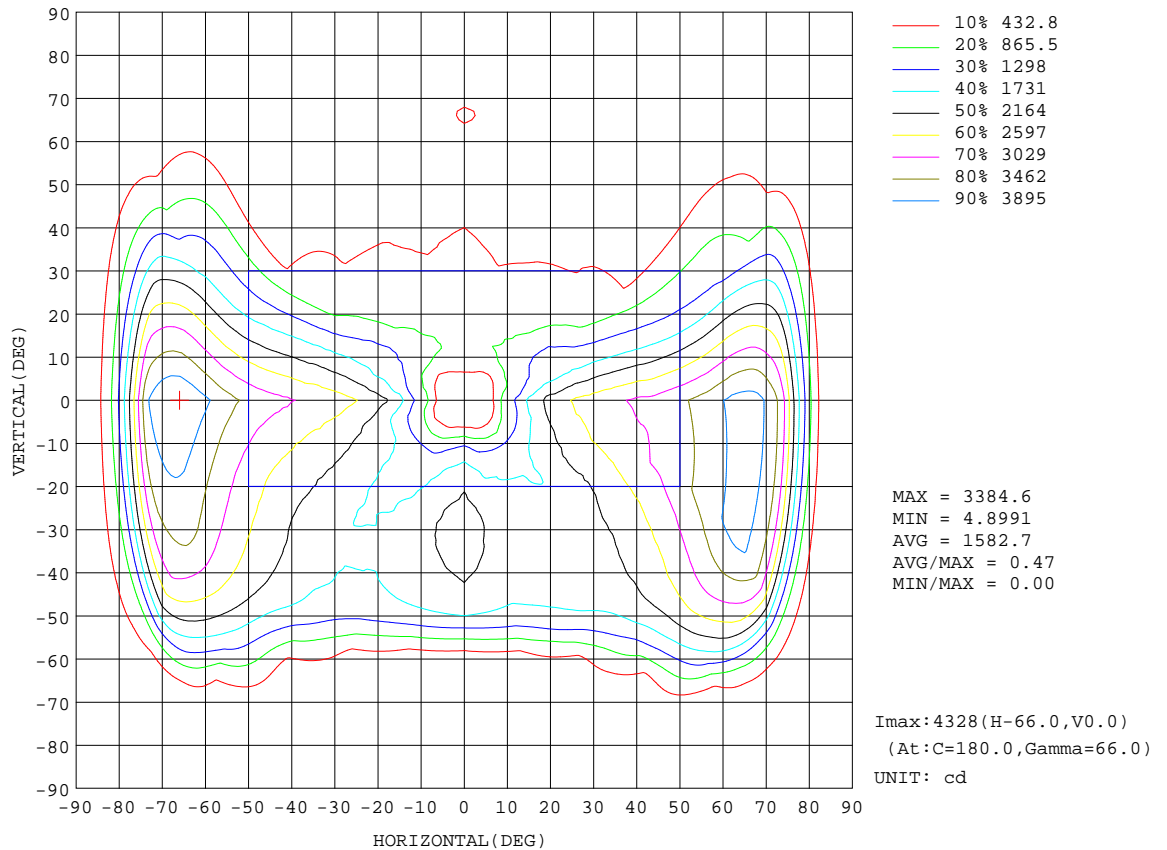
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: T-221LED60-24(5050 40K RA70 TYPEIII)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

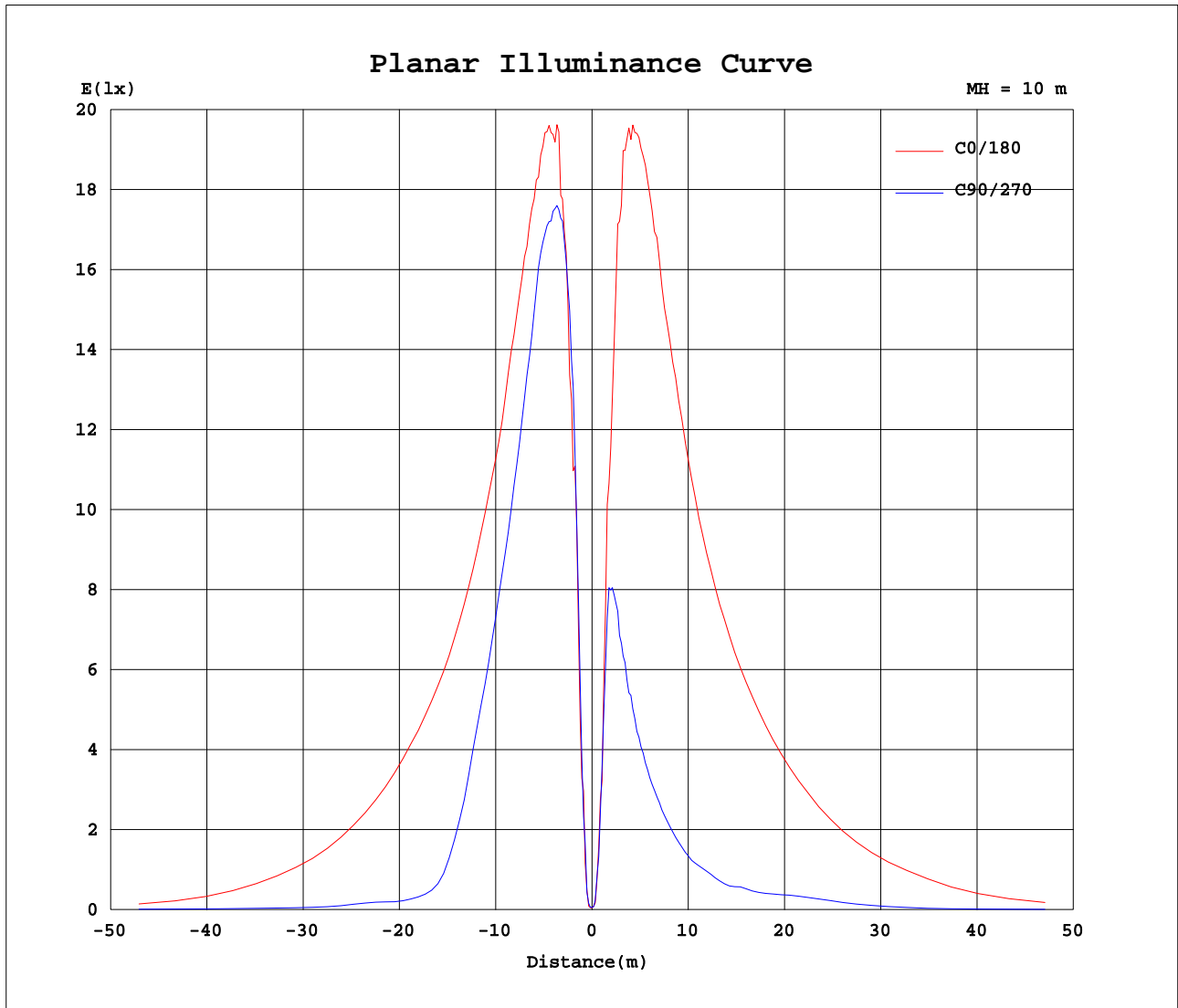
Test:U:220.04V I:0.2651A P:57.706W PF:0.9891 Freq:50.01Hz Lamp Flux:6649x1 lm		
NAME: T-221LED60-24	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: T-221LED60-24(5050 40K RA70 TYPEIII)L

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-09-26

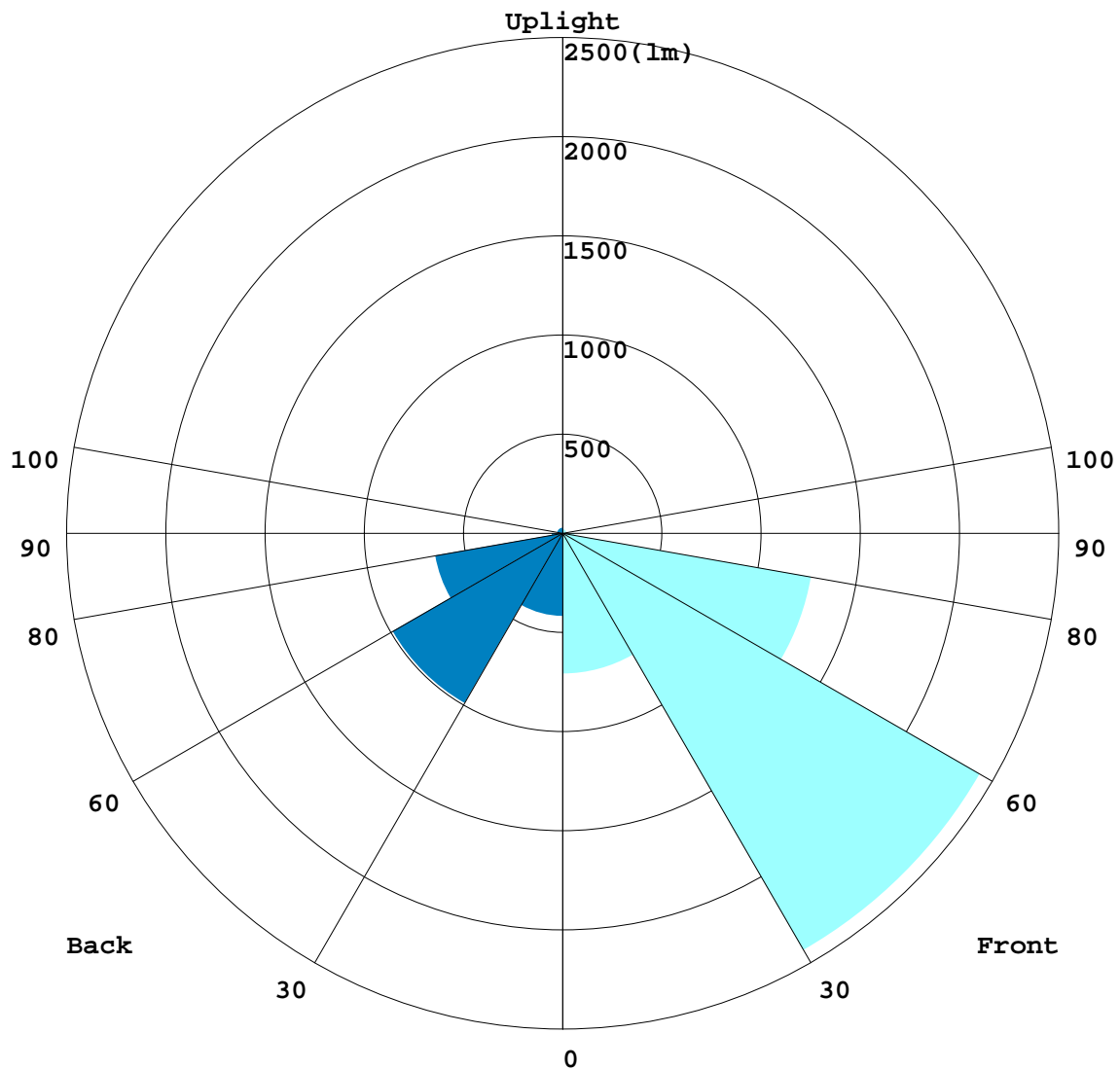
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 26.000m [K=1.0000]
Remarks: T-221LED60-24(5050 40K RA70 TYPEIII)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:220.04V I:0.2651A P:57.706W PF:0.9891 Freq:50.01Hz Lamp Flux:6649x1 lm		
NAME: T-221LED60-24	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

LUMINAIRE CLASSIFICATION SYSTEM(LCS) GRAPH



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:26.000m [K=1.0000]
Remarks: T-221LED60-24(5050 40K RA70 TYPEIII)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:220.04V I:0.2651A P:57.706W PF:0.9891 Freq:50.01Hz Lamp Flux:6649x1 lm		
NAME: T-221LED60-24	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	707.75	10.6
FM - Front-Medium(30-60)	2427.8	36.5
FH - Front-High(60-80)	1271.4	19.1
FVH - Front-Very High(80-90)	60.324	0.9
Total Forward Light	4498	67.6

BL - Back-Low(0-30)	417.44	6.3
BM - Back-Medium(30-60)	989.02	14.9
BH - Back-High(60-80)	652.3	9.8
BVH - Back-Very High(80-90)	54.577	0.8
Total Back Light	2151	32.4

UL - Uplight-Low(90-100)	20.548	0.3
UH - Uplight-High(100-180)	47.869	0.7
Total Up Light	68.417	1.0

BUG(Back,Up,Glare) Rating	B2-U2-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	2113.3	37.713	2151
Street Side	4467.2	30.704	4498

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-26

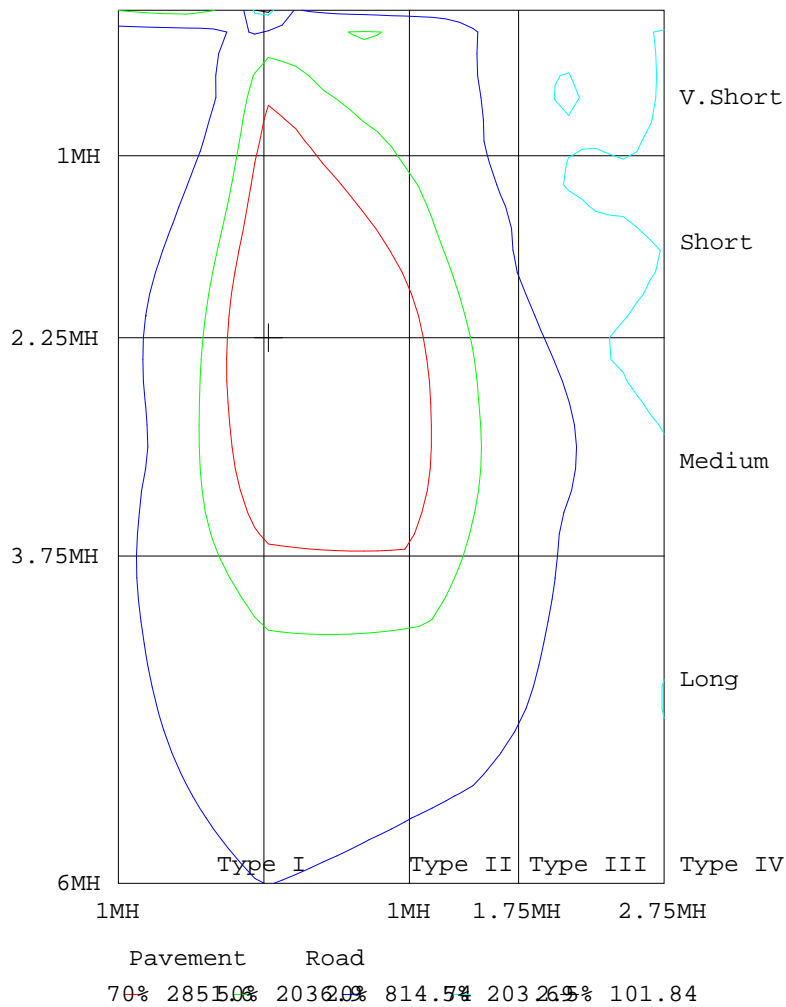
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: T-221LED60-24(5050 40K RA70 TYPEIII)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:220.04V I:0.2651A P:57.706W PF:0.9891 Freq:50.01Hz Lamp Flux:6649x1 lm		
NAME: T-221LED60-24	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

ROAD SURFACE ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-26

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: T-221LED60-24(5050 40K RA70 TYPEIII)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.04V I:0.2651A P:57.706W PF:0.9891 Freq:50.01Hz Lamp Flux:6649x1 lm																			
NAME: T-221LED60-24										TYPE:					WEIGHT:				
SPEC.:										DIM.:					SERIAL No.:				
MFR.: KLED										SUR.:					Shielding 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	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31	5.31
5	326	304	201	128	180	203	219	203	176	149	139	232	302	245	204	163	164	215	230
10	1257	1047	949	837	826	992	1117	1027	816	746	817	931	1208	915	816	697	683	709	786
15	1974	1737	1563	1402	1493	1469	1677	1530	1392	1332	1401	1443	2060	1475	1214	1071	919	721	772
20	2561	2205	1926	1730	1678	1728	1978	1793	1575	1554	1821	1911	2514	1770	1433	1080	758	587	645
25	2829	2482	2120	1762	1831	1903	2141	1967	1672	1608	1908	2181	2823	1900	1399	808	606	516	558
30	3041	2676	2249	1862	1910	1950	2225	2020	1734	1649	1976	2313	3040	2000	1170	567	541	455	502
35	3215	2831	2275	1933	1946	1936	2170	1996	1741	1698	2024	2393	3197	2030	914	491	480	412	454
40	3363	2975	2389	1980	1964	1873	2077	1914	1731	1747	2062	2477	3297	1999	739	454	439	376	404
45	3452	3145	2450	2009	1913	1777	1929	1801	1690	1768	2097	2585	3444	1932	575	426	403	332	355
50	3665	3324	2564	2043	1821	1560	1613	1562	1557	1785	2209	2705	3635	1868	438	407	351	302	338
55	3901	3562	2667	1982	1576	985	864	929	1241	1710	2298	2892	3929	1837	379	365	308	262	294
60	4211	3833	2761	1791	831	322	289	297	578	1439	2336	3146	4305	1855	348	318	240	250	322
65	4411	4114	2738	1211	253	181	243	195	212	762	2193	3408	4635	1810	315	249	192	276	417
70	4159	4048	2298	480	189	202	172	181	203	235	1714	3385	4573	1479	266	161	175	269	329
75	2974	3109	1210	139	160	145	152	147	143	139	757	2701	3537	900	183	113	138	151	128
80	1065	742	183	128	102	104	105	103	108	168	161	687	1464	297	97.5	83.9	101	87.1	84.0
85	141	169	68.5	67.5	73.9	62.7	61.3	62.0	69.2	90.6	69.5	113	372	77.7	73.1	49.3	83.8	61.7	57.0
90	37.6	48.6	40.2	33.0	39.1	35.3	33.2	37.3	34.4	34.7	40.5	44.4	45.5	36.8	38.2	24.3	37.9	34.8	29.7
95	17.8	19.1	17.6	12.8	15.4	16.2	13.3	16.4	16.7	13.9	18.7	20.7	17.7	21.0	20.5	14.7	17.8	19.6	16.7
100	11.8	11.0	7.89	4.42	5.31	7.06	5.21	7.07	6.16	4.43	7.82	10.5	9.93	13.6	11.1	10.7	9.80	9.90	7.03
105	10.70	9.60	7.16	4.03	4.45	3.83	2.03	3.98	4.39	4.00	7.00	9.30	8.86	12.2	10.5	5.68	7.15	6.33	2.85
110	11.4	9.43	6.66	3.81	4.24	3.63	1.98	3.68	4.18	3.89	6.57	9.14	9.09	12.2	10.5	6.12	7.15	6.03	2.43
115	11.5	9.27	6.61	3.81	4.08	3.63	2.03	3.68	4.12	3.89	6.46	8.93	9.50	12.2	10.7	6.73	7.31	6.29	3.17
120	11.7	9.27	6.72	4.35	4.61	3.93	2.82	3.98	4.49	4.64	6.62	9.04	10.31	12.4	11.1	7.89	8.11	7.21	4.66
125	12.2	10.03	7.59	5.51	5.40	5.05	3.81	4.78	5.32	5.39	7.52	9.67	11.6	13.0	11.6	9.33	9.28	8.44	6.45
130	12.4	10.15	8.37	6.45	6.09	5.47	4.79	5.54	6.26	6.35	8.11	10.0	12.7	13.5	12.4	10.6	10.3	9.71	8.18
135	12.7	10.9	9.20	7.45	6.62	6.28	5.79	6.19	7.14	7.10	8.92	10.6	13.6	13.9	12.9	11.5	11.2	10.8	9.72
140	13.6	11.8	10.6	8.55	7.89	7.20	6.78	7.20	7.83	8.27	9.87	11.4	14.6	14.5	13.6	12.5	12.3	11.9	11.1
145	14.6	12.8	11.8	10.20	9.11	8.43	8.31	8.36	8.97	9.71	11.5	12.3	15.8	15.1	14.5	14.0	13.5	12.9	12.4
150	15.2	13.9	13.2	12.0	10.9	10.1	9.70	9.91	10.5	11.4	12.5	13.2	16.6	15.9	15.8	15.7	14.8	13.9	13.3
155	16.1	14.6	14.5	13.9	12.8	11.6	11.3	11.2	12.1	13.1	13.6	14.0	17.3	16.4	16.7	17.0	15.9	14.9	14.4
160	16.6	15.4	14.9	15.1	13.8	12.8	12.3	12.4	13.1	14.1	14.3	14.3	17.2	16.4	16.5	17.0	16.4	15.2	14.6
165	16.2	14.8	14.4	14.5	13.6	12.7	12.4	12.4	12.9	13.6	13.7	13.6	16.2	15.5	15.5	15.7	15.2	14.3	13.8
170	12.6	11.6	10.7	10.22	9.83	9.72	9.67	9.73	9.58	9.51	9.75	10.4	12.4	11.9	11.7	11.3	10.7	10.5	10.7
175	8.07	7.47	6.95	6.57	6.31	6.29	6.25	6.20	6.07	6.04	6.32	6.77	7.88	7.61	7.37	7.00	6.40	6.38	6.58
180	6.27	6.01	5.89	5.80	5.56	5.36	5.50	5.29	5.38	5.39	5.24	5.44	6.50	6.23	6.06	5.90	5.56	5.41	5.30

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:26.000m [K=1.0000]
Remarks: T-221LED60-24(5050 40K RA70 TYPEIII)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.04V I:0.2651A P:57.706W PF:0.9891 Freq:50.01Hz Lamp Flux:6649x1 lm		
NAME: T-221LED60-24	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345														
0	5.31	5.31	5.31	5.31	5.31														
5	220	147	131	230	265														
10	712	673	681	825	868														
15	694	831	974	1148	1314														
20	558	672	926	1345	1540														
25	472	543	724	1255	1655														
30	421	483	540	936	1703														
35	381	432	464	721	1680														
40	343	384	433	557	1612														
45	305	354	403	418	1535														
50	285	313	373	378	1447														
55	260	277	334	355	1397														
60	273	229	287	324	1355														
65	318	196	217	284	1240														
70	286	185	150	224	923														
75	145	131	116	142	595														
80	85.0	113	85.9	86.4	197														
85	60.8	74.3	49.3	56.5	65.4														
90	34.0	36.8	23.2	31.5	32.9														
95	18.2	16.1	25.0	17.7	18.2														
100	9.26	9.43	6.22	9.87	11.6														
105	5.84	6.58	4.86	8.81	10.5														
110	5.54	6.53	4.97	8.70	10.5														
115	5.74	6.68	5.45	8.86	10.6														
120	6.70	7.31	6.57	9.40	10.8														
125	7.96	8.52	8.11	10.4	11.5														
130	9.27	9.77	9.50	11.2	12.2														
135	10.4	10.7	10.5	11.7	12.5														
140	11.5	11.7	11.7	12.7	13.4														
145	12.5	12.8	13.0	13.8	14.1														
150	13.4	14.1	14.6	14.8	15.0														
155	14.4	15.3	16.0	15.8	15.6														
160	14.4	15.4	16.0	16.1	15.5														
165	14.0	14.3	14.8	14.9	14.6														
170	11.0	10.8	10.5	10.5	10.8														
175	6.83	6.92	6.55	6.29	6.54														
180	5.49	5.48	5.39	5.39	5.34														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-26

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
γ Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:26.000m [K=1.0000]
Remarks: T-221LED60-24(5050 40K RA70 TYPEIII)L