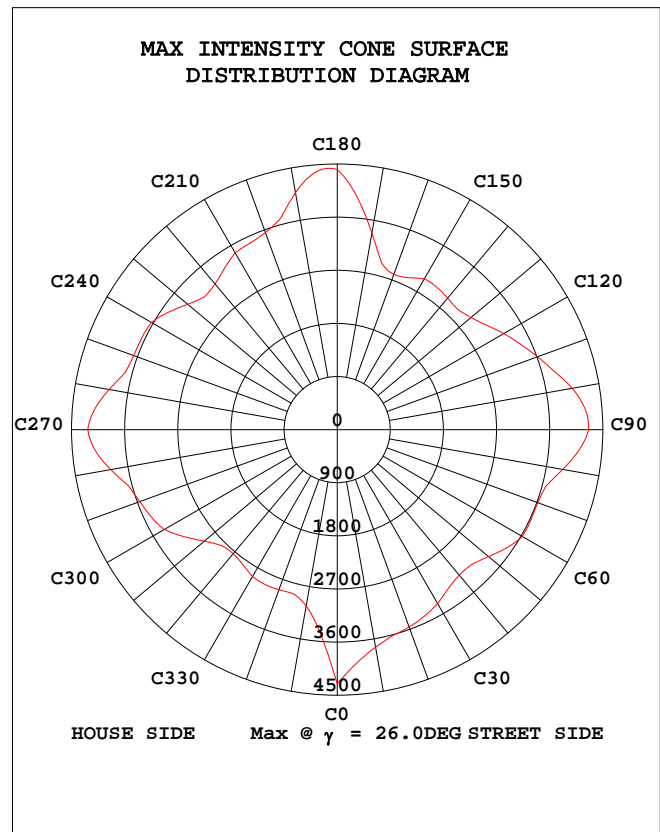
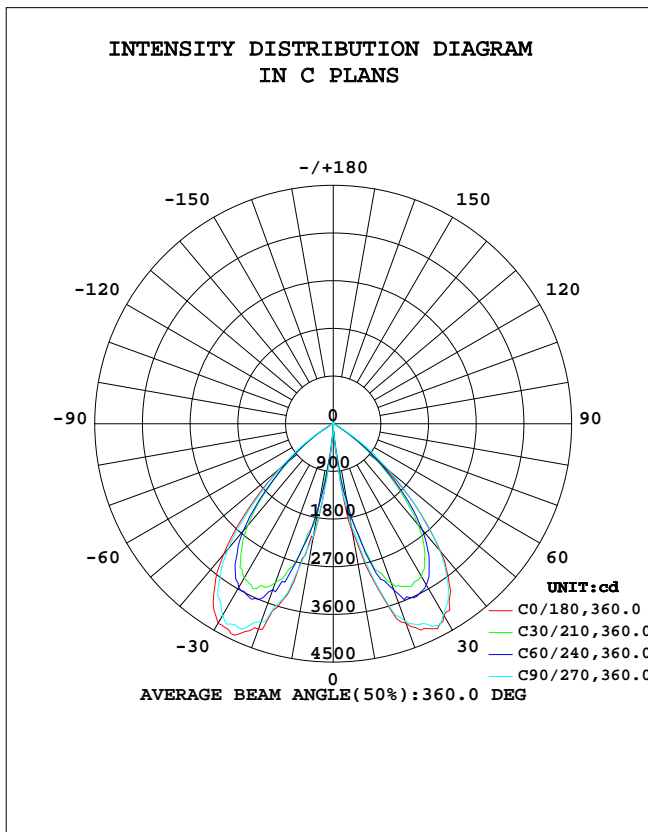


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.09V I:0.2648A P:57.622W PF:0.9889 Freq:50.01Hz Lamp Flux:6346.1x1 lm					
NAME: T-221LED60-24		TYPE:		WEIGHT:	
SPEC.:		DIM.:		SERIAL No.:	
MFR.: KLED		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 110.13 lm/W			
MODEL	5050 40K RA70 90°L	I _{max} (cd)	4406	η street_up(%)	0.6
NOMINAL POWER(W)	60	LOR(%)	100.0	η street_down(%)	49.6
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	6346	η house_up(%)	0.6
NOMINAL FLUX(lm)	6346.1	MAXIMUM @(C,γ)	180,26.0	η house_down(%)	49.2
LAMPS INSIDE	1	η up(%)	1.2	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	η down(%)	98.8	SLI	15.017



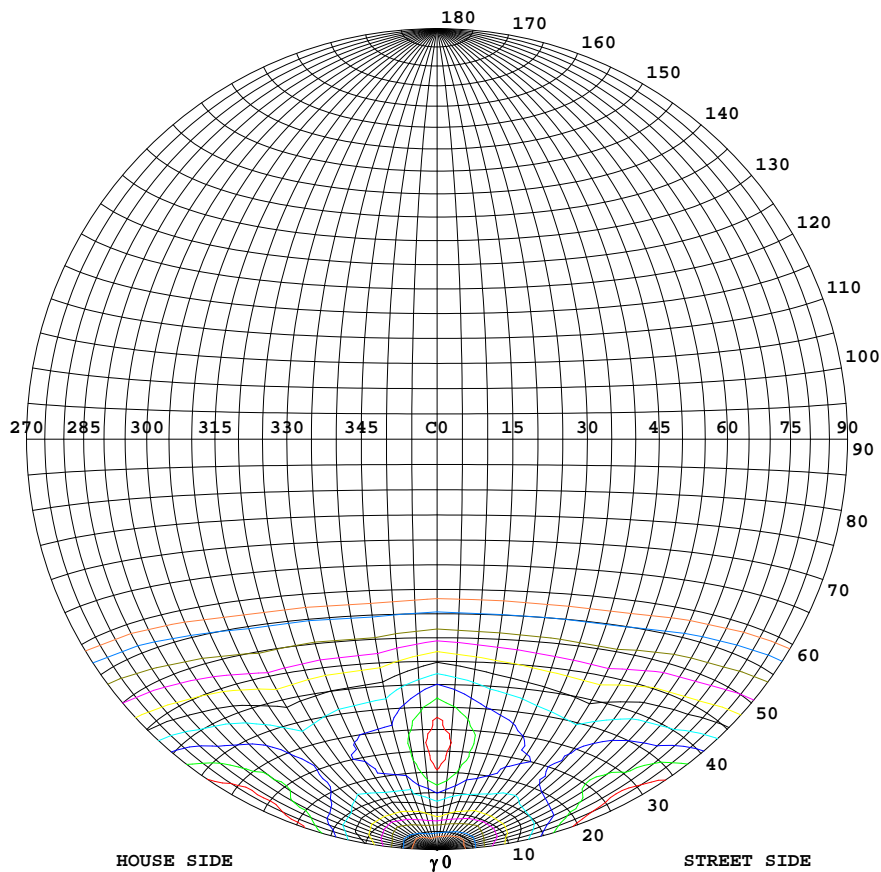
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-27

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 90°)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.09V I:0.2648A P:57.622W PF:0.9889 Freq:50.01Hz Lamp Flux:6346.1x1 lm		
NAME: T-221LED60-24	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



Classification:

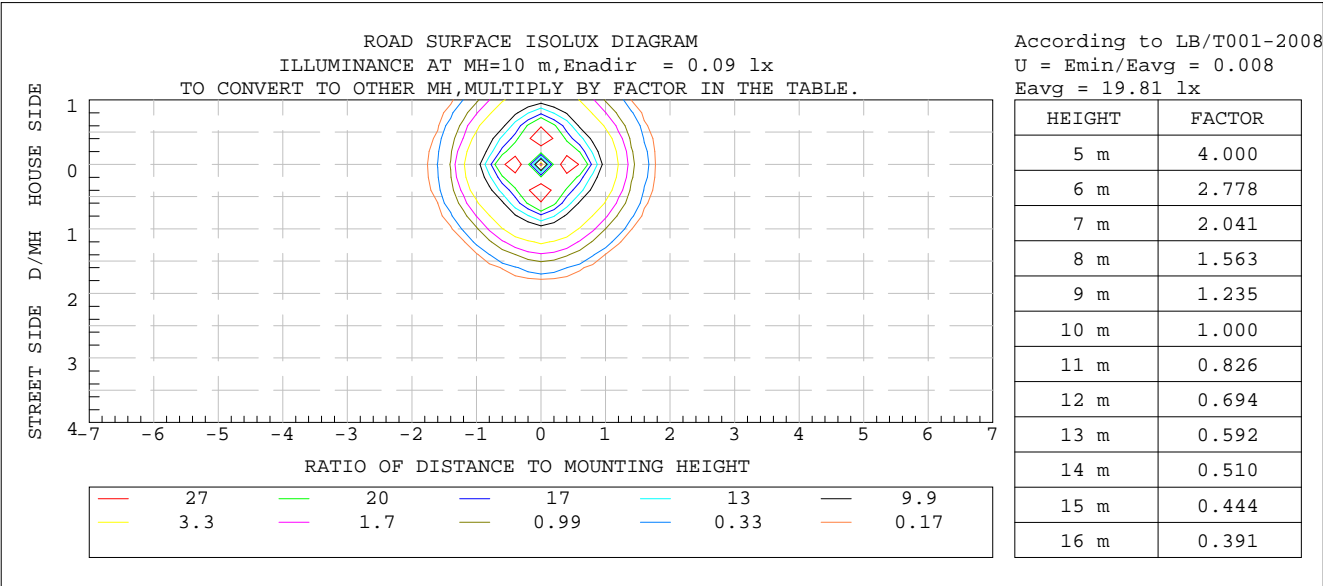
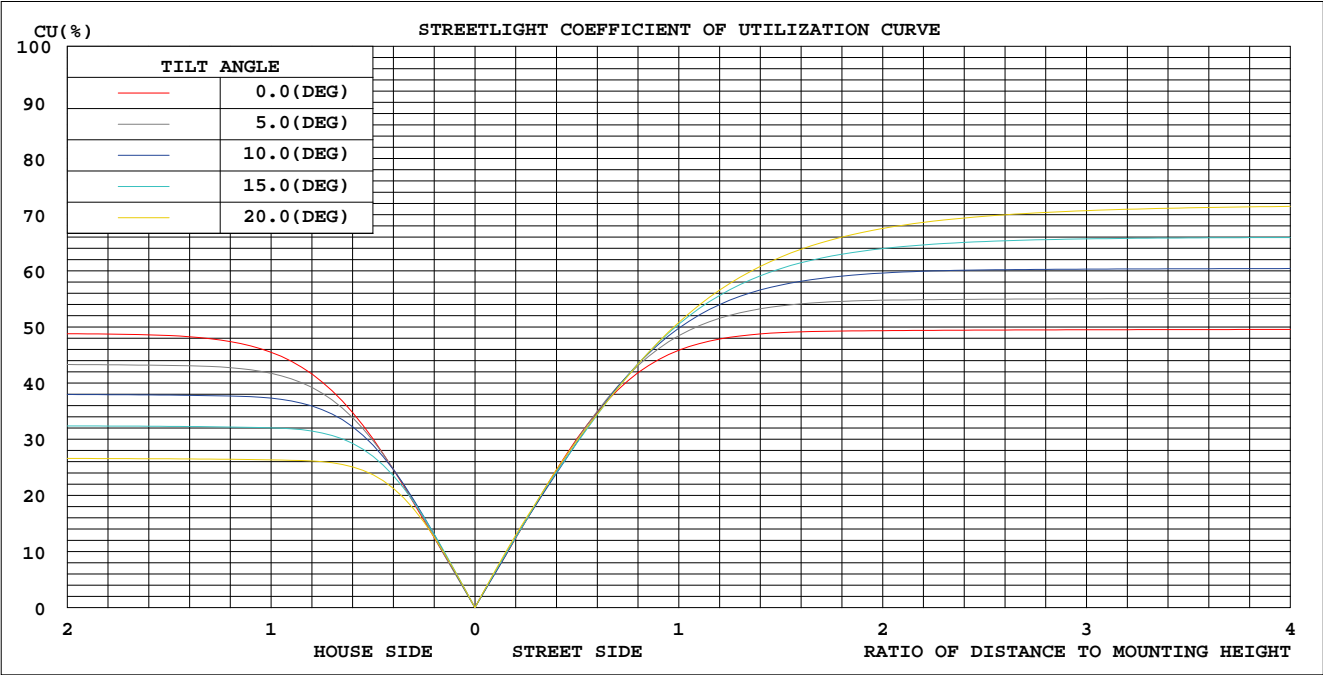
IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:3.810cd/klm
 Max.At90:1.932cd/klm
 Max.80-90:3.810cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4406
90%	3966
80%	3525
70%	3085
60%	2644
50%	2203
40%	1763
30%	1322
20%	881
10%	441
5%	220

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-27

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 90°)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:2022-09-27

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 90°)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:220.09V I:0.2648A P:57.622W PF:0.9889 Freq:50.01Hz Lamp Flux:6346.1x1 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	2052	1564	1942	1135	2204	1450	2148	1378	0- 10	76.81	76.81	1.21,1.21
20	4001	3162	3966	2652	4125	3005	3991	2691	10- 20	752.1	828.9	13.1,13.1
30	4175	3133	4158	2767	4350	3085	4173	2663	20- 30	1582	2411	38,38
40	3167	2283	3127	2038	3217	2272	3090	1925	30- 40	1896	4307	67.9,67.9
50	1217	1000	1383	918.9	1298	967.7	1296	809.9	40- 50	1376	5683	89.5,89.5
60	134.9	106.2	161.9	113.0	156.4	114.6	143.0	84.24	50- 60	478.5	6161	97.1,97.1
70	44.75	33.92	39.67	28.66	39.87	33.25	39.32	28.49	60- 70	63.26	6225	98.1,98.1
80	20.86	17.95	20.43	15.44	19.54	17.03	19.65	14.81	70- 80	29.75	6254	98.6,98.6
90	7.393	7.550	5.338	6.447	5.993	6.494	3.860	5.612	80- 90	15.78	6270	98.8,98.8
100	2.715	3.544	2.247	2.988	1.955	2.972	1.671	2.886	90-100	7.057	6277	98.9,98.9
110	2.662	3.544	2.193	2.987	2.446	3.487	2.299	3.244	100-110	5.417	6283	99,99
120	6.672	6.730	5.985	5.566	5.975	6.532	5.961	6.236	110-120	5.917	6289	99.1,99.1
130	13.47	12.63	12.32	10.72	13.06	12.81	12.97	11.75	120-130	9.365	6298	99.2,99.2
140	19.97	18.78	18.83	16.34	20.28	19.68	19.96	17.83	130-140	12.39	6310	99.4,99.4
150	25.95	26.80	24.75	22.91	26.78	27.15	26.27	24.31	140-150	13.92	6324	99.7,99.7
160	29.16	31.44	28.04	27.79	29.98	32.35	28.77	28.75	150-160	12.72	6337	99.9,99.9
170	21.28	20.35	20.56	18.73	22.70	22.07	21.14	18.46	160-170	7.634	6345	100,100
180	11.30	11.32	10.66	9.822	11.08	11.37	10.65	10.07	170-180	1.483	6346	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

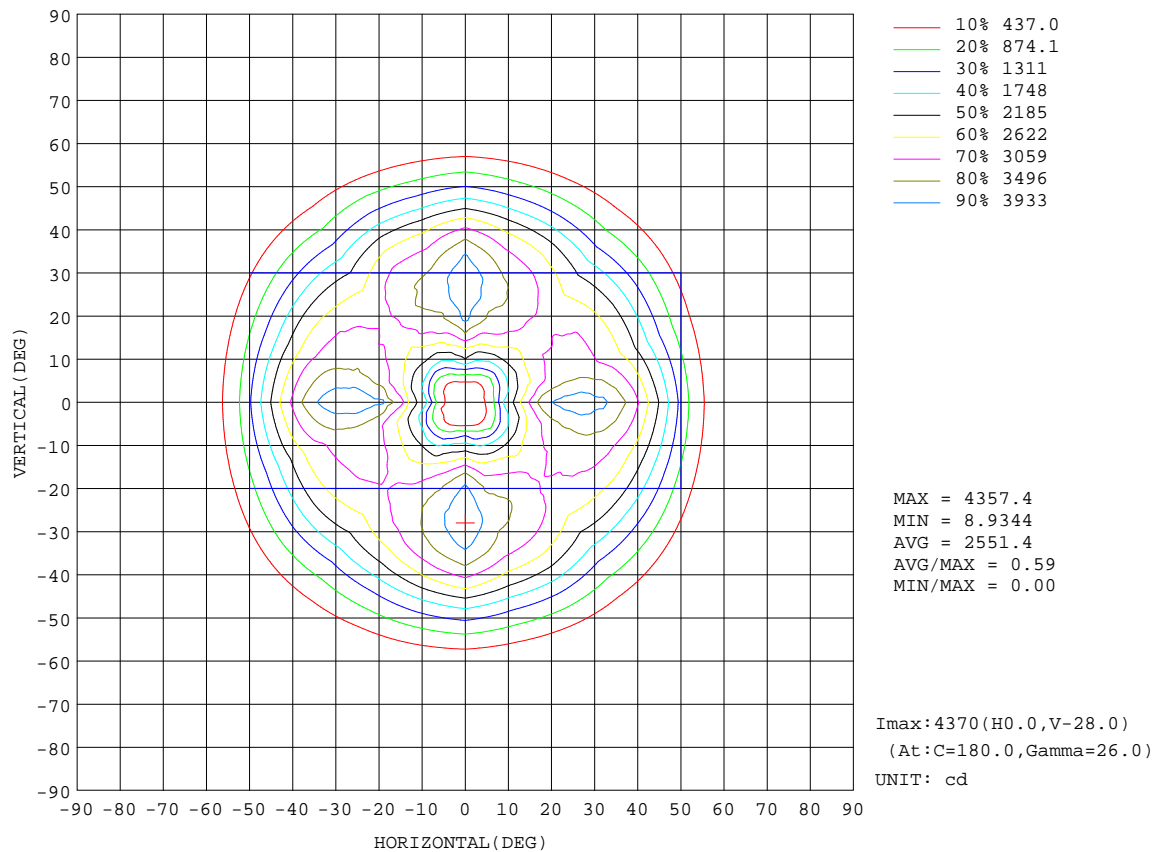
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-27

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 90°)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

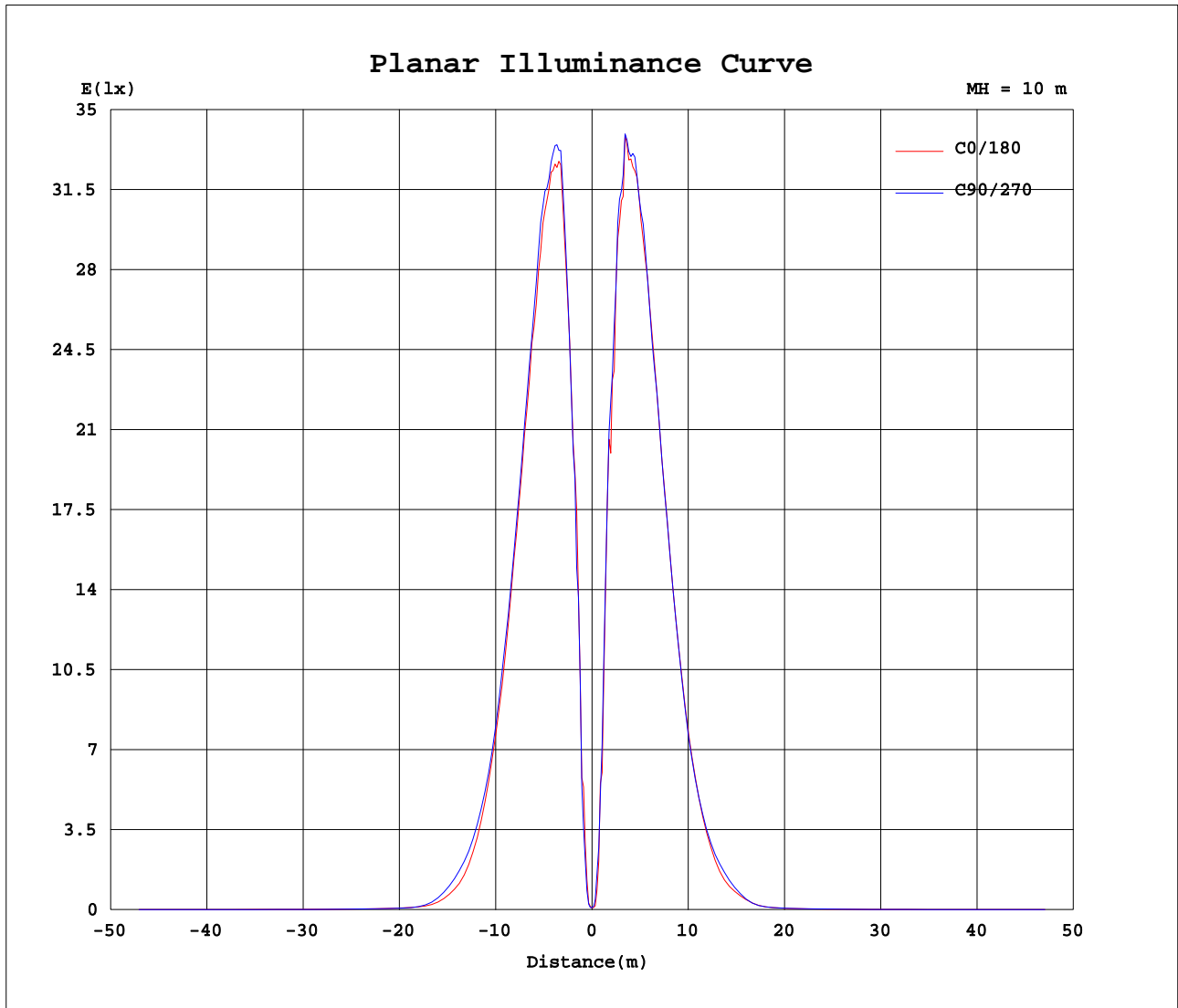
Test:U:220.09V I:0.2648A P:57.622W PF:0.9889 Freq:50.01Hz Lamp Flux:6346.1x1 lm		
NAME: T-221LED60-24	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-27

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 90°)L

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-09-27

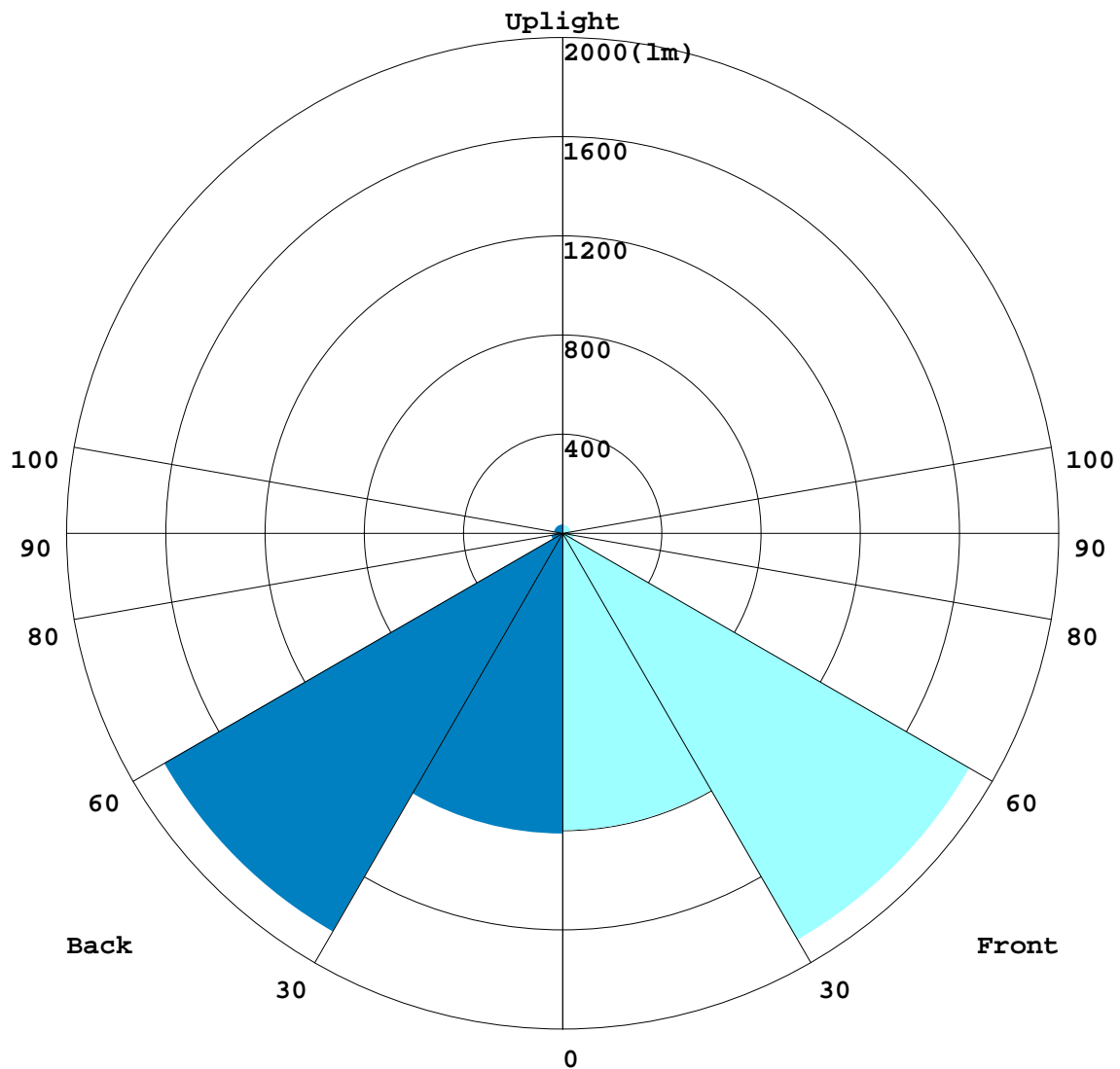
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 26.000m [K=1.0000]
Remarks: T-221LED60-24(5050 40K RA70 90°)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:220.09V I:0.2648A P:57.622W PF:0.9889 Freq:50.01Hz Lamp Flux:6346.1x1 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:2022-09-27

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 90°)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:220.09V I:0.2648A P:57.622W PF:0.9889 Freq:50.01Hz Lamp Flux:6346.1x1 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)	1198.8	18.9
FM - Front-Medium(30-60)	1894.6	29.9
FH - Front-High(60-80)	46.649	0.7
FVH - Front-Very High(80-90)	8.1323	0.1
Total Forward Light	3185.7	50.2

BL - Back-Low(0-30)	1212.2	19.1
BM - Back-Medium(30-60)	1855.8	29.2
BH - Back-High(60-80)	46.358	0.7
BVH - Back-Very High(80-90)	7.6523	0.1
Total Back Light	3160.4	49.8

UL - Uplight-Low(90-100)	7.0569	0.1
UH - Uplight-High(100-180)	68.849	1.1
Total Up Light	75.906	1.2

BUG(Back,Up,Glare) Rating	B3-U3-G0
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3122	38.34	3160.4
Street Side	3148.2	37.566	3185.7

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-09-27

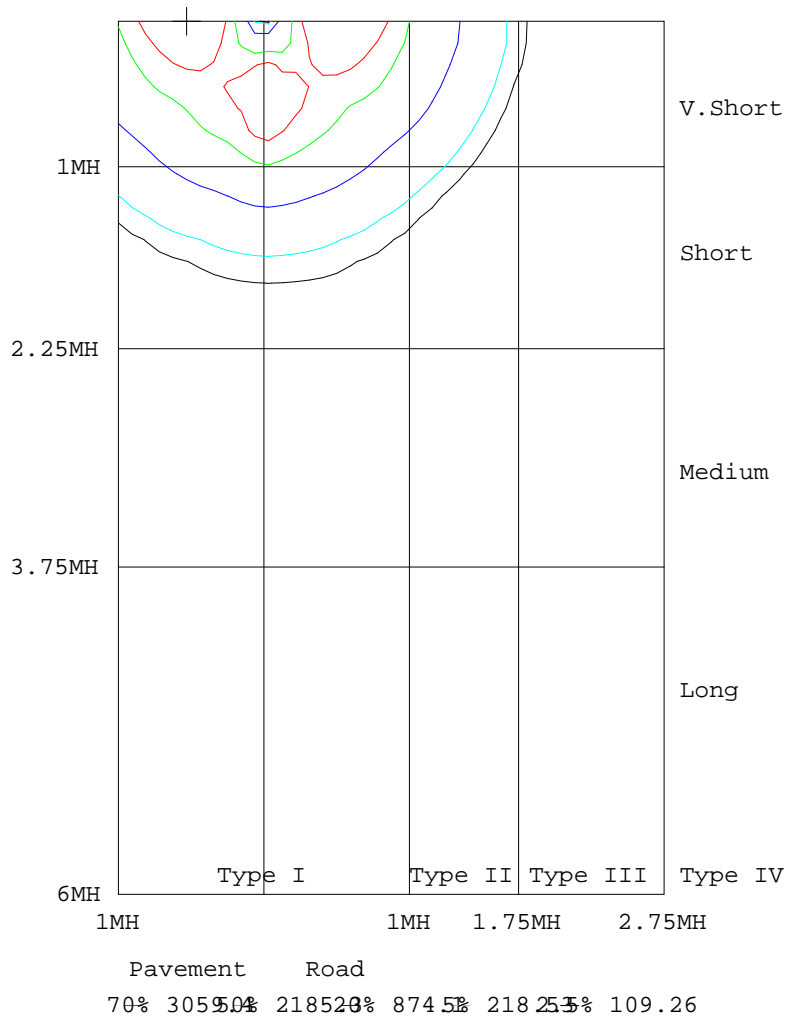
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: T-221LED60-24(5050 40K RA70 90°)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:220.09V I:0.2648A P:57.622W PF:0.9889 Freq:50.01Hz Lamp Flux:6346.1x1 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:2022-09-27

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 90°)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.09V I:0.2648A P:57.622W PF:0.9889 Freq:50.01Hz Lamp Flux:6346.1x1 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	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14
5	555	478	400	303	292	338	357	316	268	230	165	321	573	515	335	327	342	476	503
10	2052	1773	1673	1564	1461	1708	1942	1819	1328	1135	1085	1391	2204	1816	1592	1450	1568	1777	2148
15	3179	2840	2638	2542	2701	2755	3115	2832	2385	2163	2135	2125	3333	2783	2643	2485	2700	2720	3279
20	4001	3445	3189	3162	3333	3431	3966	3519	3005	2652	2713	2736	4125	3450	3189	3005	3336	3524	3991
25	4266	3581	3392	3271	3620	3660	4171	3747	3254	2873	2942	2897	4403	3645	3433	3122	3654	3704	4244
30	4175	3579	3330	3133	3514	3587	4158	3722	3204	2767	2843	2854	4350	3599	3360	3085	3570	3636	4173
35	3867	3268	3022	2806	3157	3303	3793	3413	2922	2470	2574	2640	3935	3294	3044	2785	3233	3259	3793
40	3167	2689	2495	2283	2618	2698	3127	2791	2363	2038	2148	2208	3217	2726	2515	2272	2643	2694	3090
45	2210	1936	1769	1641	1887	1949	2234	2012	1705	1475	1546	1592	2256	1928	1776	1596	1848	1889	2131
50	1217	1113	1064	1000	1156	1203	1383	1262	1077	919	961	969	1298	1151	1082	968	1146	1174	1296
55	486	472	472	465	554	610	709	657	549	467	464	463	553	538	521	476	554	601	667
60	135	132	123	106	119	132	162	147	121	113	125	127	156	148	142	115	129	135	143
65	71.8	73.0	67.2	51.4	57.6	59.3	62.9	61.4	53.4	42.4	48.5	49.9	62.7	65.9	65.6	52.5	62.9	63.6	65.3
70	44.8	46.8	43.8	33.9	39.4	40.0	39.7	40.5	37.6	28.7	34.3	34.2	39.9	43.3	42.6	33.2	40.4	39.8	39.3
75	30.3	33.2	31.8	24.8	29.8	30.0	26.4	30.0	28.4	20.7	25.4	25.1	27.1	31.1	30.8	23.6	29.6	28.6	25.7
80	20.9	24.2	23.9	18.0	22.9	22.8	20.4	22.7	21.8	15.4	19.4	19.0	19.5	23.1	23.2	17.0	22.5	21.5	19.7
85	13.9	17.9	17.9	12.3	16.9	16.4	11.8	16.4	15.9	10.7	14.5	14.2	12.4	16.8	16.8	11.5	15.9	15.1	10.1
90	7.39	12.3	12.2	7.55	11.6	10.8	5.34	10.6	10.8	6.45	10.0	9.65	5.99	11.1	11.2	6.49	10.6	9.62	3.86
95	3.92	8.48	8.43	4.24	8.49	8.24	3.45	7.92	7.91	3.66	7.00	6.80	2.54	7.46	7.61	3.26	7.48	7.20	2.24
100	2.72	7.35	7.45	3.54	7.37	6.89	2.25	6.47	6.72	2.99	6.26	5.86	1.96	6.46	6.87	2.97	6.70	6.02	1.67
105	2.66	7.02	7.16	3.54	6.99	6.56	2.14	6.15	6.40	2.99	5.88	5.62	2.06	6.41	6.59	3.03	6.54	5.97	1.83
110	2.66	6.74	6.93	3.54	6.81	6.40	2.19	6.04	6.24	2.99	5.73	5.29	2.45	6.46	6.65	3.49	6.65	6.13	2.30
115	3.80	6.91	7.04	4.22	6.87	6.77	3.18	6.36	6.35	3.49	5.87	5.62	3.53	7.08	7.22	4.29	7.21	6.83	3.50
120	6.67	9.17	9.34	6.73	9.15	8.87	5.99	8.23	8.11	5.57	7.33	7.17	5.98	8.92	8.94	6.53	8.95	8.67	5.96
125	10.08	11.9	11.7	9.77	11.7	11.6	9.29	11.1	10.7	8.24	9.60	9.57	9.34	11.6	11.6	9.62	11.5	11.4	9.37
130	13.5	14.4	14.1	12.6	13.9	14.0	12.3	13.6	13.2	10.7	11.6	11.7	13.1	14.8	14.5	12.8	14.3	14.4	13.0
135	16.4	17.2	16.9	15.4	16.5	16.7	15.4	16.3	15.6	13.3	13.8	14.0	16.6	17.8	17.4	16.0	17.1	17.2	16.5
140	20.0	20.3	20.0	18.8	19.5	19.6	18.8	19.1	18.3	16.3	16.4	16.6	20.3	21.0	20.6	19.7	20.2	20.4	20.0
145	23.2	23.4	23.3	22.6	22.9	22.6	22.2	22.1	21.5	19.5	19.3	19.3	24.0	24.3	24.1	23.3	23.7	23.6	23.6
150	25.9	26.3	26.9	26.8	26.2	25.2	24.7	24.7	24.6	22.9	22.0	21.6	26.8	27.0	27.4	27.2	27.3	26.5	26.3
155	28.1	28.3	29.7	29.8	28.6	27.3	27.0	26.8	27.3	26.0	24.4	23.6	29.1	29.4	30.5	30.8	30.4	28.9	28.3
160	29.2	29.4	30.8	31.4	30.1	28.8	28.0	27.9	28.2	27.8	26.1	25.3	30.0	30.3	31.5	32.4	31.6	29.6	28.8
165	27.9	28.2	29.0	29.1	28.4	27.0	27.0	27.2	27.1	26.2	25.2	24.4	28.9	29.5	29.8	30.4	29.8	28.1	27.3
170	21.3	21.6	21.1	20.3	20.0	20.2	20.6	20.9	20.0	18.7	18.5	18.9	22.7	23.5	22.9	22.1	21.4	21.0	21.1
175	13.5	13.7	13.4	12.9	13.0	13.1	13.1	13.1	12.6	11.8	11.8	12.2	14.2	14.8	14.5	13.9	13.0	12.8	13.0
180	11.3	11.3	11.2	11.3	11.1	10.9	10.7	10.6	10.5	9.82	9.57	9.30	11.1	11.6	11.7	11.4	11.1	10.8	10.7

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-27

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 90°)L

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.09V I:0.2648A P:57.622W PF:0.9889 Freq:50.01Hz Lamp Flux:6346.1x1 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	9.14	9.14	9.14	9.14	9.14														
5	470	345	358	397	465														
10	1743	1644	1378	1514	1484														
15	2789	2674	2284	2229	2332														
20	3492	3213	2691	2726	2785														
25	3686	3348	2780	2878	2881														
30	3592	3230	2663	2805	2794														
35	3252	2908	2375	2499	2541														
40	2689	2399	1925	2023	2071														
45	1881	1679	1349	1407	1437														
50	1146	1000	810	836	817														
55	586	480	384	377	360														
60	123	103	84.2	92.4	98.4														
65	62.3	54.6	44.4	54.6	58.3														
70	39.4	36.5	28.5	36.3	38.1														
75	28.7	27.1	20.9	26.6	27.5														
80	21.5	20.4	14.8	19.9	19.9														
85	15.1	14.8	9.91	14.7	14.5														
90	9.73	9.86	5.61	9.70	9.55														
95	7.27	7.09	2.89	6.60	6.41														
100	6.26	6.35	2.89	5.92	5.66														
105	6.26	6.30	2.94	5.92	5.66														
110	6.42	6.35	3.24	5.97	5.71														
115	7.17	7.00	4.21	6.56	6.33														
120	9.10	8.81	6.24	8.11	7.99														
125	11.9	11.4	9.02	10.4	10.3														
130	14.8	14.0	11.7	12.7	12.8														
135	17.8	16.9	14.6	15.2	15.4														
140	20.8	19.8	17.8	17.9	18.1														
145	23.8	23.0	21.2	21.0	20.8														
150	26.4	26.0	24.3	23.7	23.2														
155	28.5	28.7	27.3	26.0	25.1														
160	29.2	29.3	28.8	27.3	25.4														
165	28.0	27.3	26.2	25.0	23.9														
170	21.7	20.5	18.5	17.5	17.6														
175	13.7	13.2	11.6	10.9	10.9														
180	11.1	10.8	10.1	9.56	9.44														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-09-27

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 90°)L