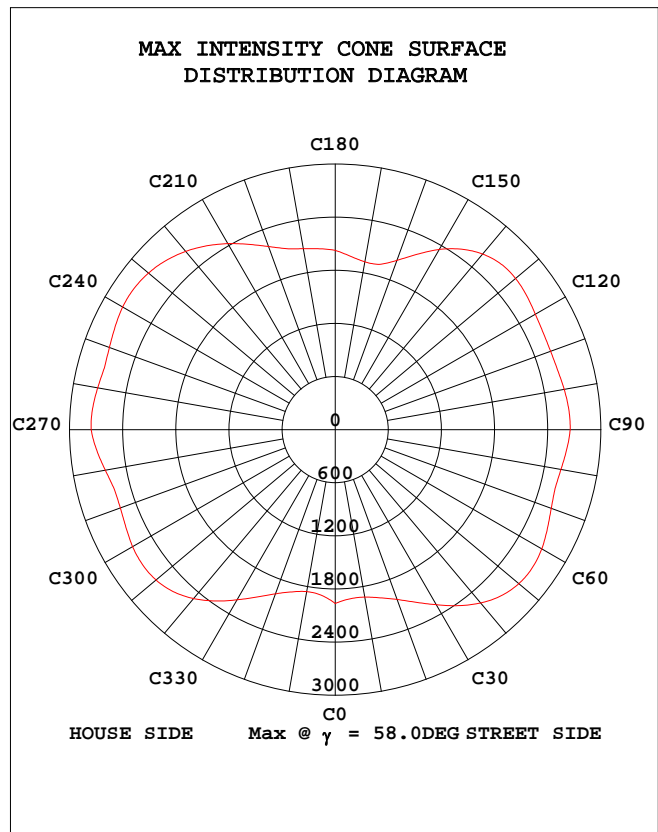
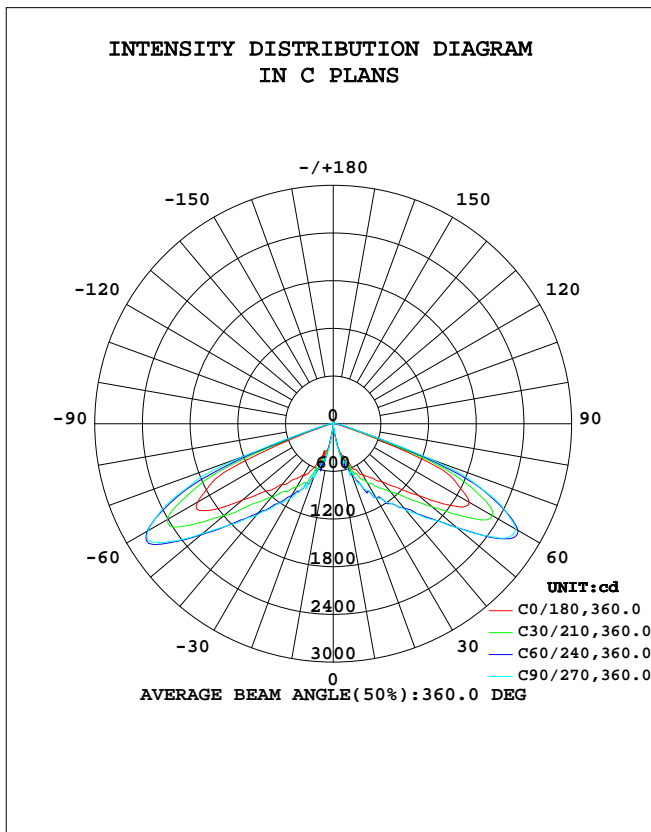


## EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:221.13V I:0.2303A P:49.547W PF:0.9729 Freq:50.01Hz Lamp Flux:6668.17x1 lm		
NAME: T-101-50W-18	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 134.58 lm/W			
MODEL 5050	40K RA70 TM1T18	I <sub>max</sub> (cd)	2773	η street_up(%)	0.6
NOMINAL POWER(W)	50	LOR(%)	100.0	η street_down(%)	49.1
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	6668	η house_up(%)	0.6
NOMINAL FLUX(lm)	6668.17	MAXIMUM @(C,γ )	240,58.0	η house_down(%)	49.6
LAMPS INSIDE	1	η up(%)	1.3	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)		η down(%)	98.7	SLI	16.169



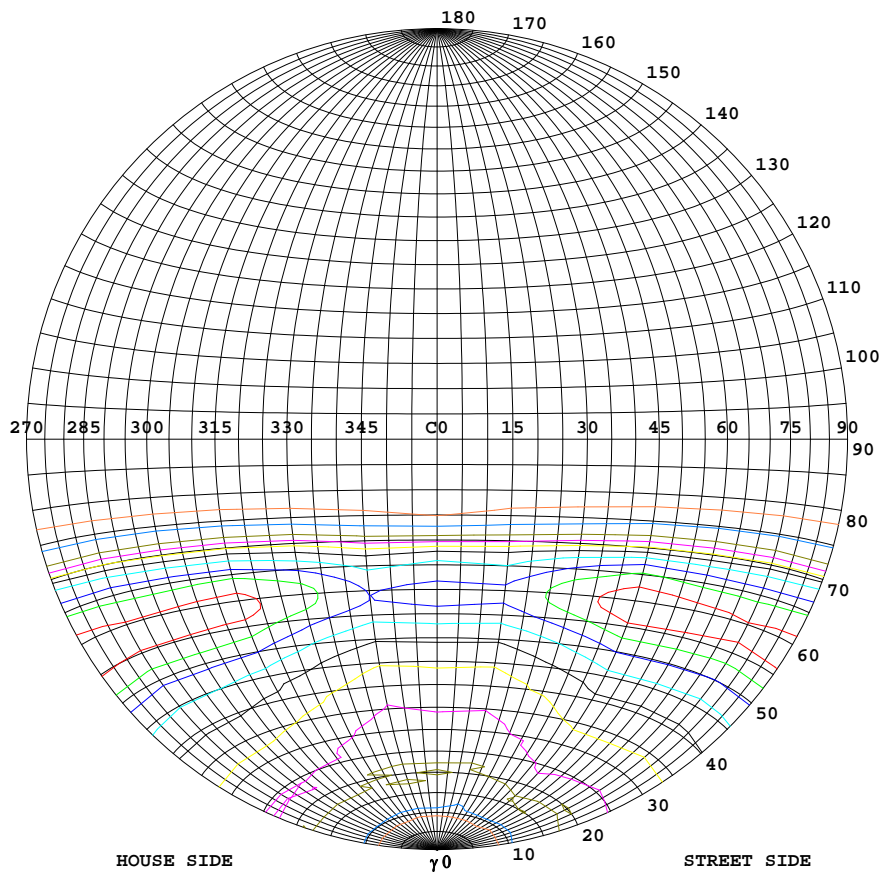
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-05-10

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-101-50W-18(5050 40K RA70 TM1T18)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## STREETLIGHT ISOCANDELA DIAGRAM

Test:U:221.13V I:0.2303A P:49.547W PF:0.9729 Freq:50.01Hz Lamp Flux:6668.17x1 lm		
NAME: T-101-50W-18	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



### Classification:

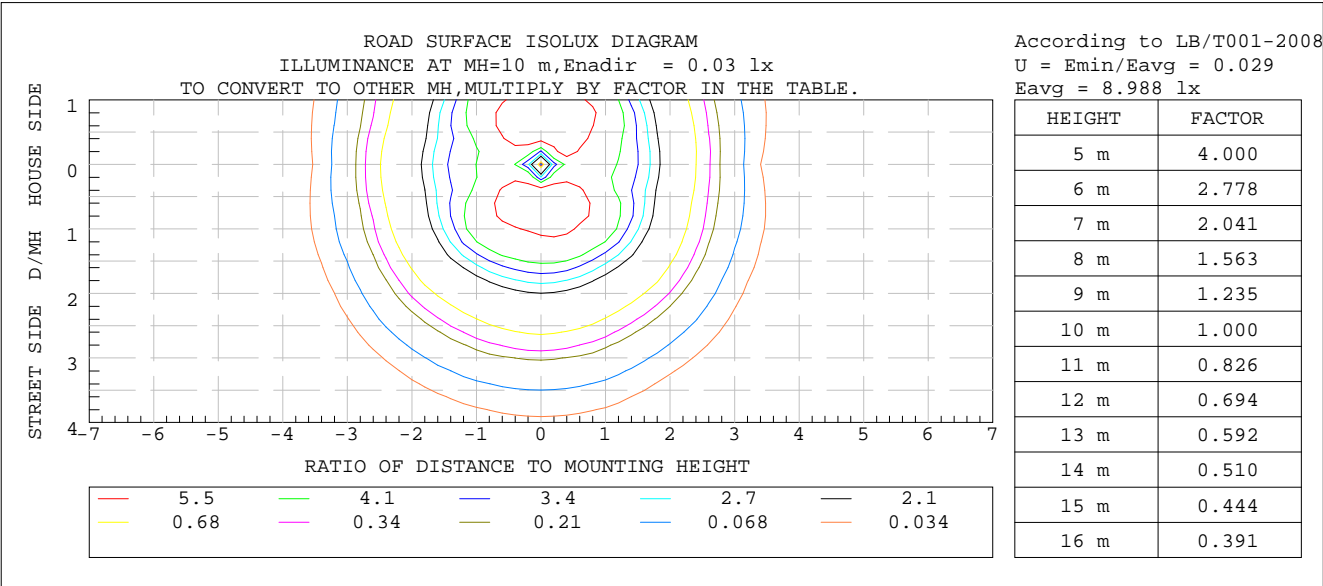
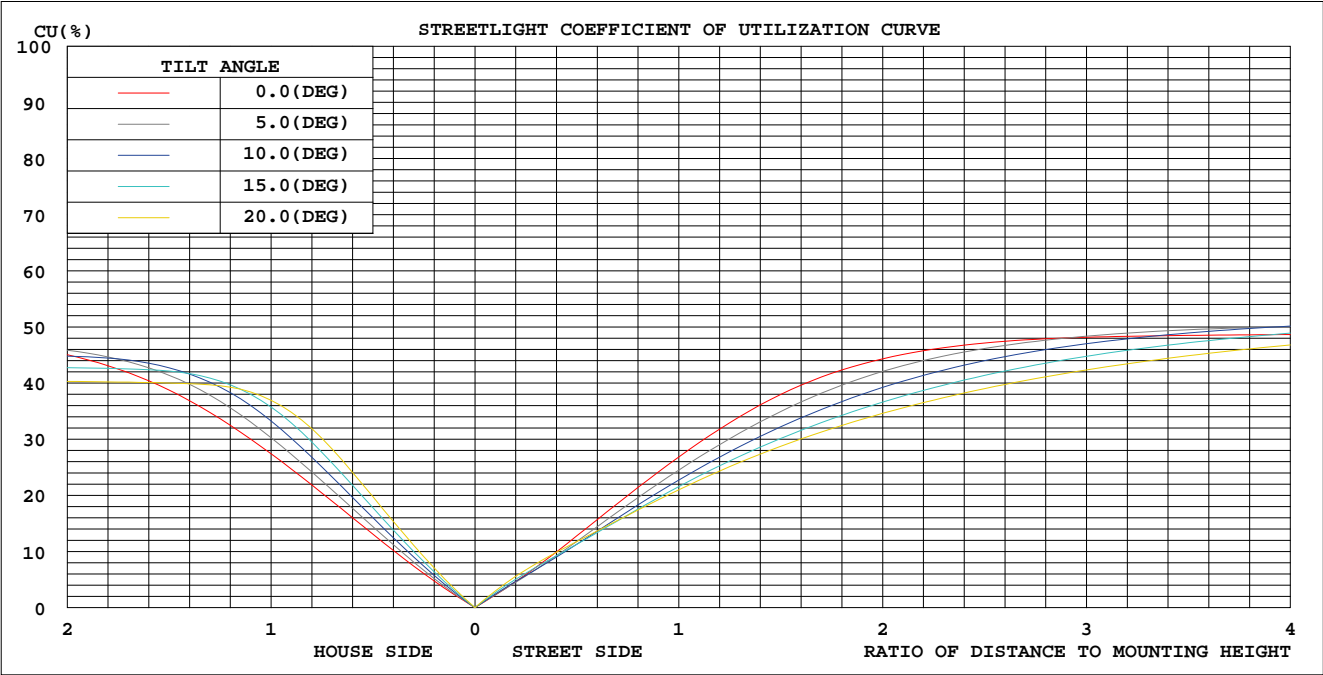
IES:Type V - Very Short  
 CIE:Broad - Short  
 IES:Cut-off  
 CIE:Full cut-off  
 Max.At80:15.66cd/klm  
 Max.At90:4.954cd/klm  
 Max.80-90:15.66cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	2773
90%	2496
80%	2219
70%	1941
60%	1664
50%	1387
40%	1109
30%	832
20%	555
10%	277
5%	139

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-05-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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-101-50W-18(5050 40K RA70 TM1T18)

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:2023-05-10

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-101-50W-18(5050 40K RA70 TM1T18)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ZONAL FLUX DIAGRAM

Test:U:221.13V I:0.2303A P:49.547W PF:0.9729 Freq:50.01Hz Lamp Flux:6668.17x1 lm		
NAME: T-101-50W-18	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum, lamp
10	220.2	201.1	280.6	205.9	205.7	222.2	261.5	264.3	0- 10	8.012	8.012	0.12,0.12
20	658.7	629.4	650.3	615.2	510.9	720.0	729.6	566.9	10- 20	130.5	138.5	2.08,2.08
30	735.9	991.0	1070	992.4	732.7	1023	1085	953.0	20- 30	364.3	502.8	7.54,7.54
40	954.0	1338	1419	1349	998.4	1419	1508	1308	30- 40	679.2	1182	17.7,17.7
50	1408	1945	2031	1981	1495	2092	2146	1948	40- 50	1175	2357	35.3,35.3
60	1973	2661	2655	2611	1970	2650	2691	2566	50- 60	1992	4349	65.2,65.2
70	718.0	1153	1310	1037	537.6	964.1	1220	1076	60- 70	1859	6209	93.1,93.1
80	40.17	93.65	104.4	94.06	38.08	87.83	94.87	86.74	70- 80	317.3	6526	97.9,97.9
90	8.275	28.93	32.04	31.03	8.345	30.45	31.77	27.76	80- 90	57.62	6583	98.7,98.7
100	5.494	9.901	17.54	10.24	5.494	10.07	15.71	9.211	90-100	19.05	6603	99,99
110	7.046	9.242	12.20	9.595	7.386	9.304	10.83	9.267	100-110	10.50	6613	99.2,99.2
120	9.738	11.05	11.51	11.25	10.35	11.29	11.68	11.64	110-120	10.32	6623	99.3,99.3
130	11.58	12.65	12.13	13.62	12.34	12.87	11.57	13.79	120-130	10.62	6634	99.5,99.5
140	14.22	11.94	13.13	12.46	15.09	12.00	13.44	12.53	130-140	10.33	6644	99.6,99.6
150	14.32	20.52	15.10	22.72	14.60	20.96	14.47	22.95	140-150	9.831	6654	99.8,99.8
160	26.28	15.48	13.30	15.45	27.79	16.97	13.05	14.78	150-160	8.886	6663	99.9,99.9
170	9.819	14.74	5.698	15.38	9.857	6.710	8.033	12.70	160-170	4.556	6668	100,100
180	1.992	1.835	2.168	1.844	2.047	2.034	2.222	2.151	170-180	0.6280	6668	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

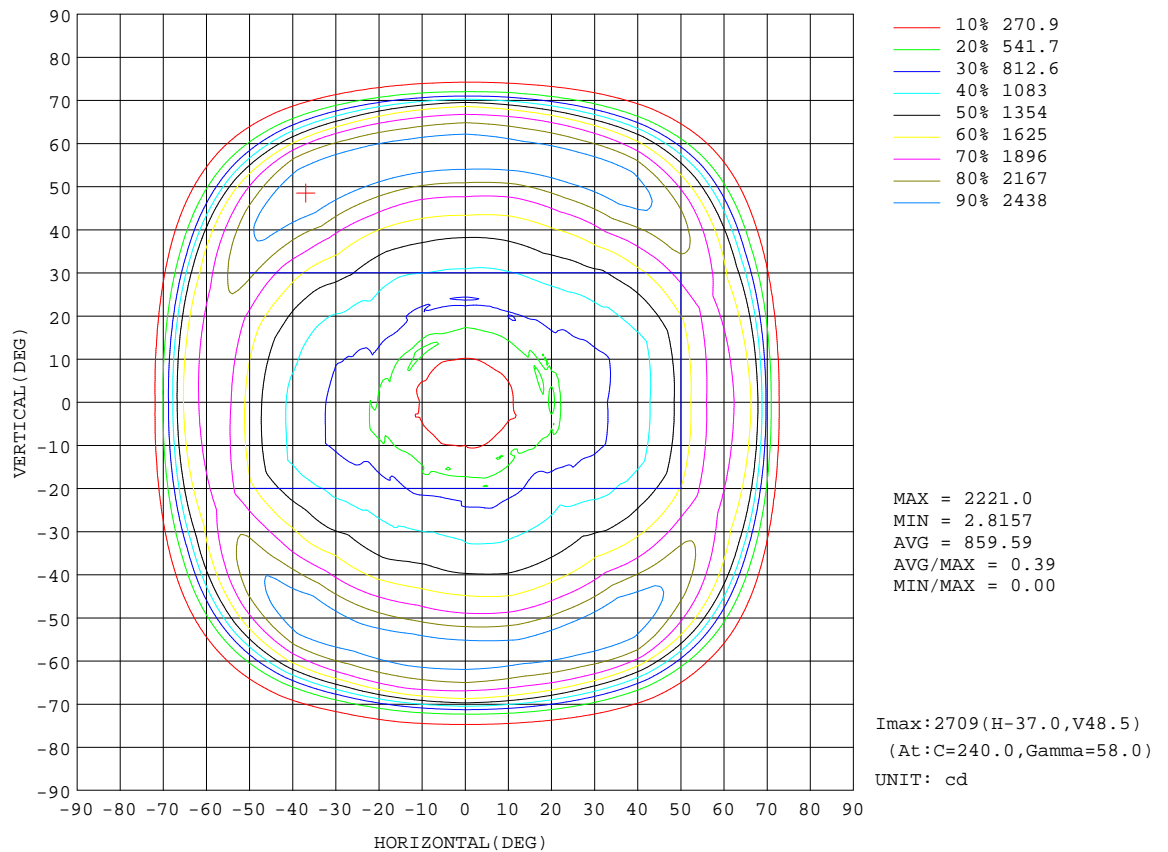
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-05-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 $\gamma$  Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity:38.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: T-101-50W-18(5050 40K RA70 TM1T18)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## ISOCANDELA DIAGRAM

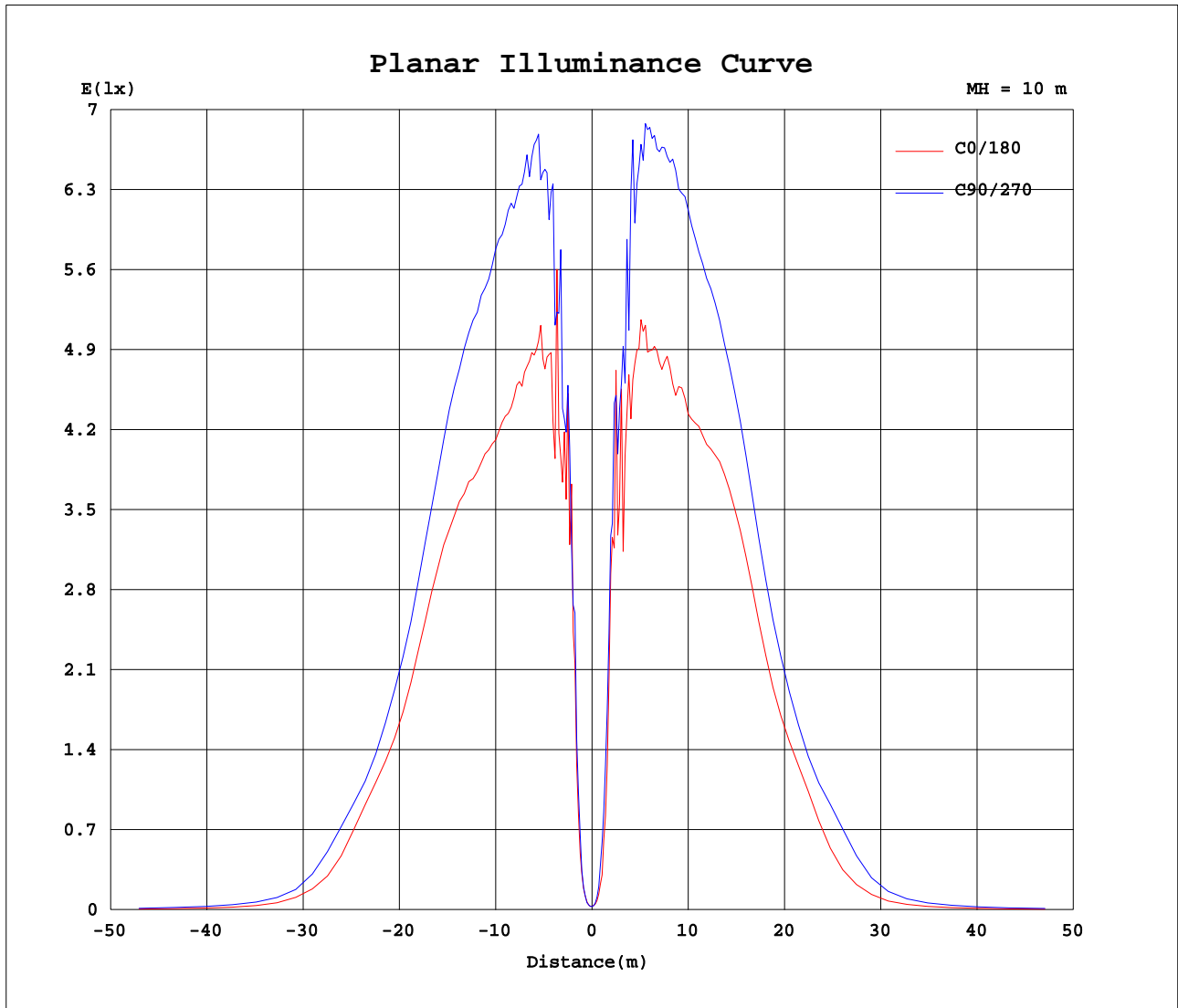
Test:U:221.13V I:0.2303A P:49.547W PF:0.9729 Freq:50.01Hz Lamp Flux:6668.17x1 lm		
NAME: T-101-50W-18	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-05-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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-101-50W-18(5050 40K RA70 TM1T18)

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 13.9DEG  
Operators: CS01  
Test Date: 2023-05-10

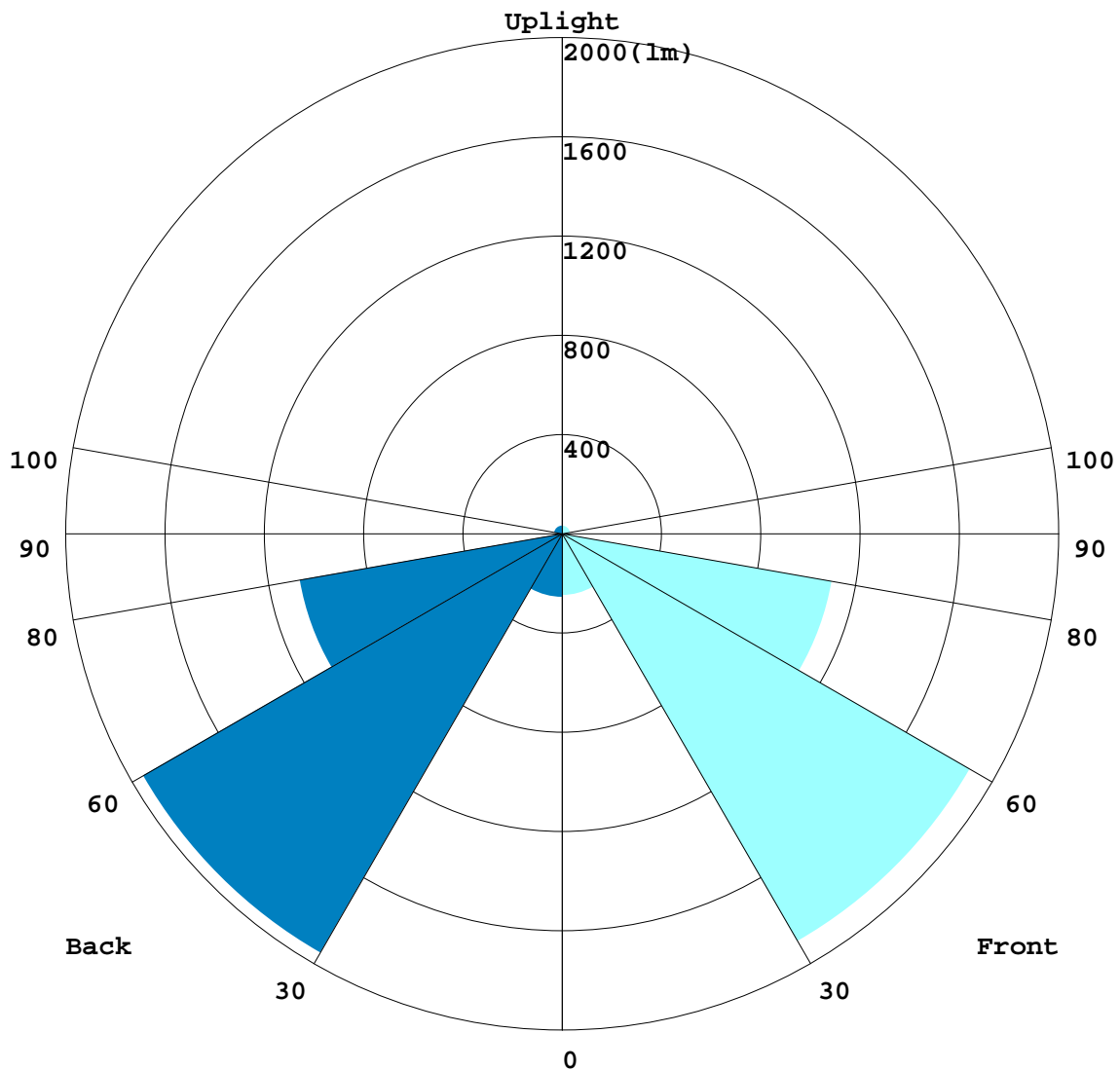
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity: 38.0%  
Test Distance: 26.000m [K=1.0000]  
Remarks: T-101-50W-18(5050 40K RA70 TM1T18)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LCS REPORT

Test:U:221.13V I:0.2303A P:49.547W PF:0.9729 Freq:50.01Hz Lamp Flux:6668.17x1 lm		
NAME: T-101-50W-18	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:2023-05-10

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  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-101-50W-18(5050 40K RA70 TM1T18)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## BUG REPORT

Test:U:221.13V I:0.2303A P:49.547W PF:0.9729 Freq:50.01Hz Lamp Flux:6668.17x1 lm		
NAME: T-101-50W-18	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

### IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	247.68	3.7
FM - Front-Medium(30-60)	1896.6	28.4
FH - Front-High(60-80)	1102.6	16.5
FVH - Front-Very High(80-90)	29.337	0.4
Total Forward Light	3318.7	49.8

BL - Back-Low(0-30)	255.11	3.8
BM - Back-Medium(30-60)	1949.8	29.2
BH - Back-High(60-80)	1073.9	16.1
BVH - Back-Very High(80-90)	28.284	0.4
Total Back Light	3349.5	50.2

UL - Uplight-Low(90-100)	19.05	0.3
UH - Uplight-High(100-180)	65.672	1.0
Total Up Light	84.722	1.3

BUG(Back,Up,Glare) Rating	B3-U3-G1
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3307.2	42.278	3349.5
Street Side	3276.3	42.444	3318.7

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:13.9DEG  
 Operators:CS01  
 Test Date:2023-05-10

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-101-50W-18(5050 40K RA70 TM1T18)

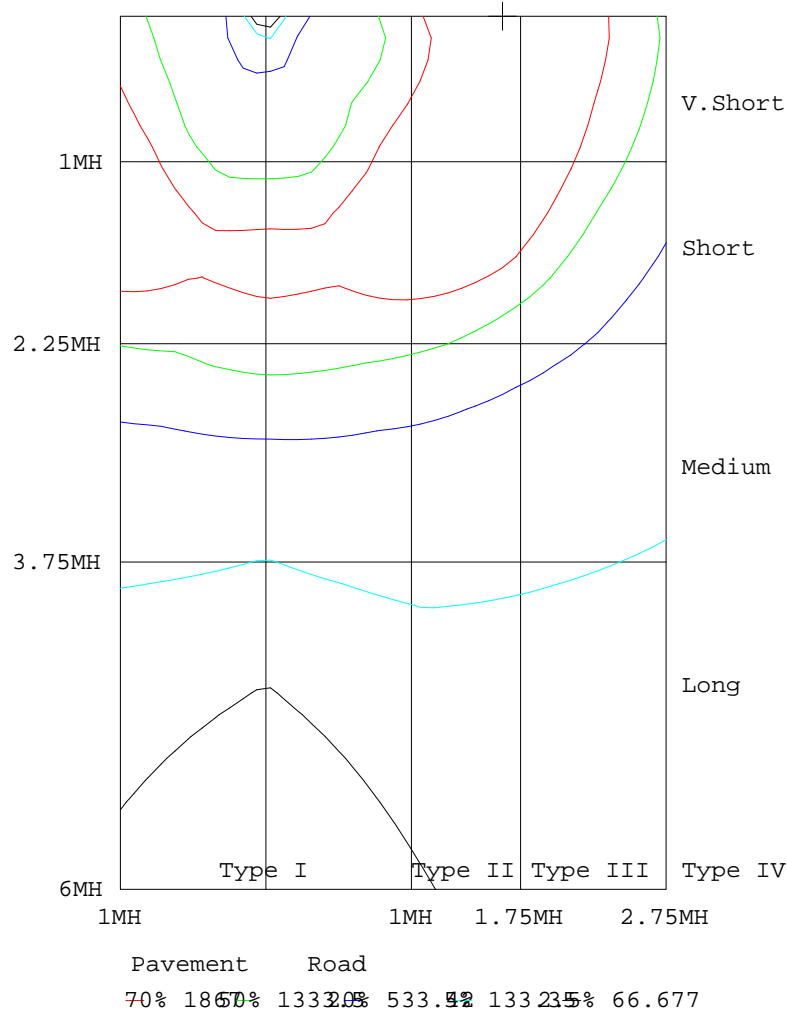


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:221.13V I:0.2303A P:49.547W PF:0.9729 Freq:50.01Hz Lamp Flux:6668.17x1 lm		
NAME: T-101-50W-18	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:2023-05-10

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-101-50W-18(5050 40K RA70 TM1T18)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.13V I:0.2303A P:49.547W PF:0.9729 Freq:50.01Hz Lamp Flux:6668.17x1 lm																			
NAME: T-101-50W-18										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	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93
5	18.5	19.7	25.4	30.5	24.7	19.5	20.5	20.4	22.6	23.5	27.2	21.7	22.0	22.9	17.2	20.5	22.4	31.5	40.6
10	220	154	178	201	222	217	281	252	229	206	184	182	206	232	254	222	211	267	261
15	389	484	448	505	599	391	479	522	449	474	472	366	355	366	580	594	616	508	457
20	659	422	629	629	658	523	650	596	651	615	590	483	511	549	638	720	700	665	730
25	634	601	697	873	915	809	894	911	920	810	712	609	642	674	829	874	895	835	880
30	736	719	860	991	1072	994	1070	1079	1057	992	840	690	733	797	920	1023	1034	1029	1085
35	835	838	972	1164	1227	1159	1212	1186	1155	1126	998	815	850	938	1038	1204	1230	1228	1245
40	954	972	1132	1338	1390	1348	1419	1396	1374	1349	1163	951	998	1111	1222	1419	1463	1458	1508
45	1134	1157	1325	1587	1660	1609	1687	1684	1652	1609	1400	1160	1197	1304	1419	1697	1763	1752	1787
50	1408	1429	1629	1945	2034	1971	2031	2045	2018	1981	1717	1457	1495	1606	1797	2092	2168	2109	2146
55	1784	1784	2047	2430	2514	2413	2501	2454	2457	2465	2120	1792	1901	1980	2229	2541	2640	2565	2602
60	1973	1985	2313	2661	2687	2552	2655	2546	2567	2611	2326	1902	1970	2066	2409	2650	2705	2620	2691
65	1681	1661	1942	2255	2203	2130	2238	2124	2109	2112	1846	1541	1631	1686	1903	2148	2161	2109	2213
70	718	779	970	1153	1189	1220	1310	1171	1070	1037	822	600	538	641	826	964	1044	1098	1220
75	129	180	200	242	261	255	260	252	228	218	178	154	101	158	181	199	215	218	230
80	40.2	82.0	85.9	93.6	97.7	101	104	102	88.2	94.1	84.6	80.2	38.1	80.1	85.0	87.8	91.3	91.1	94.9
85	20.1	52.1	53.6	53.4	55.8	55.7	59.2	57.0	49.6	54.7	53.4	52.0	20.4	52.7	54.2	53.4	56.1	53.9	56.9
90	8.28	31.7	30.4	28.9	30.1	30.0	32.0	31.3	26.4	31.0	31.5	33.0	8.35	32.7	31.7	30.4	32.1	30.2	31.8
95	7.17	22.1	18.8	14.5	9.73	8.73	9.91	9.73	9.11	16.5	20.3	22.7	7.21	22.3	20.5	16.3	11.2	10.8	13.0
100	5.49	8.95	7.85	9.90	14.8	15.7	17.5	16.2	13.0	10.2	8.59	9.52	5.49	9.30	7.93	10.1	13.3	14.8	15.7
105	5.22	7.82	7.04	9.30	12.4	13.1	14.7	13.4	11.7	9.71	7.38	7.95	5.66	8.21	6.94	8.86	11.2	12.3	12.1
110	7.05	9.30	8.92	9.24	10.9	11.1	12.2	11.2	10.5	9.60	8.72	9.46	7.39	9.75	8.29	9.30	10.31	10.16	10.8
115	8.40	10.2	10.0	10.0	10.7	10.6	11.5	10.7	10.4	10.0	10.3	10.4	9.32	10.9	10.4	10.2	10.9	10.3	11.0
120	9.74	11.2	11.0	11.1	11.6	11.1	11.5	10.9	11.3	11.2	11.5	11.6	10.3	12.2	11.1	11.3	11.8	11.2	11.7
125	10.8	11.8	11.6	12.6	12.5	11.4	12.7	11.1	12.1	13.0	12.7	12.3	11.4	12.5	12.3	12.4	11.6	11.0	12.3
130	11.6	12.7	12.6	12.7	11.3	10.2	12.1	9.79	11.3	13.6	13.4	13.0	12.3	13.4	13.2	12.9	11.1	9.56	11.6
135	12.7	13.1	13.0	12.8	13.9	11.5	14.8	10.9	14.8	13.8	14.2	14.2	13.6	14.5	14.0	12.7	13.9	11.7	15.2
140	14.2	14.6	13.6	11.9	17.3	12.6	13.1	11.9	17.9	12.5	15.1	15.4	15.1	15.8	14.2	12.0	17.5	12.1	13.4
145	15.1	15.0	11.3	16.4	19.5	13.4	14.9	15.6	20.4	18.2	12.8	16.3	16.1	15.8	12.1	15.8	19.9	14.1	14.9
150	14.3	15.1	12.9	20.5	21.1	15.7	15.1	18.8	21.7	22.7	14.1	14.5	14.6	14.5	13.2	21.0	21.5	15.8	14.5
155	23.4	23.4	17.8	19.0	19.2	18.7	12.3	18.5	19.0	22.0	18.0	22.9	21.8	22.6	17.4	19.7	20.9	16.8	10.8
160	26.3	25.9	23.7	15.5	12.6	21.7	13.3	22.2	15.0	15.4	23.1	26.9	27.8	27.2	25.4	17.0	14.8	21.3	13.1
165	21.0	20.7	17.5	13.2	10.4	9.83	7.49	9.75	10.4	11.0	18.0	22.5	24.3	24.2	21.9	14.3	12.0	15.2	11.2
170	9.82	10.7	11.6	14.7	13.8	8.31	5.70	6.72	11.2	15.4	13.5	11.3	9.86	10.1	7.59	6.71	10.00	10.7	8.03
175	4.80	5.48	5.41	5.55	5.37	4.96	4.75	4.76	5.30	5.69	5.89	6.07	4.85	5.09	3.72	2.96	3.24	3.29	3.24
180	1.99	1.87	1.84	1.83	2.06	2.13	2.17	1.98	1.97	1.84	1.83	2.00	2.05	2.15	2.00	2.03	2.23	2.25	2.22

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-05-10

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-101-50W-18(5050 40K RA70 TM1T18)

# EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.13V I:0.2303A P:49.547W PF:0.9729 Freq:50.01Hz Lamp Flux:6668.17x1 lm		
NAME: T-101-50W-18	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345													
0	2.93	2.93	2.93	2.93	2.93													
5	37.3	31.6	32.3	38.9	26.3													
10	234	269	264	209	215													
15	485	481	478	390	378													
20	612	713	567	622	475													
25	846	896	791	684	581													
30	1006	1043	953	820	689													
35	1179	1194	1106	923	804													
40	1408	1444	1308	1100	934													
45	1675	1692	1564	1308	1121													
50	2019	2049	1948	1607	1395													
55	2461	2498	2387	1987	1726													
60	2511	2579	2566	2249	1886													
65	2087	2098	2105	1851	1566													
70	1114	1093	1076	957	703													
75	220	225	219	193	166													
80	89.1	89.0	86.7	79.0	74.2													
85	51.9	52.6	50.0	49.1	48.0													
90	29.0	29.3	27.8	27.8	28.9													
95	12.4	12.9	17.5	19.7	20.1													
100	14.5	13.8	9.21	7.59	8.21													
105	12.2	11.7	8.77	7.01	7.79													
110	10.1	10.4	9.27	8.94	9.36													
115	10.2	10.8	10.6	10.8	10.7													
120	11.2	11.9	11.6	11.7	11.7													
125	11.0	12.0	13.0	12.3	12.3													
130	9.14	11.3	13.8	13.5	13.5													
135	11.3	15.0	13.6	14.4	14.1													
140	12.2	18.4	12.5	14.5	15.3													
145	14.6	20.9	18.3	11.6	14.6													
150	17.4	21.6	22.9	14.4	15.5													
155	16.7	16.8	22.3	18.2	24.1													
160	15.9	18.4	14.8	20.1	26.5													
165	8.25	14.4	17.4	13.7	19.8													
170	6.16	9.36	12.7	9.03	6.95													
175	3.07	3.14	3.03	2.85	3.84													
180	2.20	2.19	2.15	2.16	2.06													

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:13.9DEG  
Operators:CS01  
Test Date:2023-05-10

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-101-50W-18(5050 40K RA70 TM1T18)