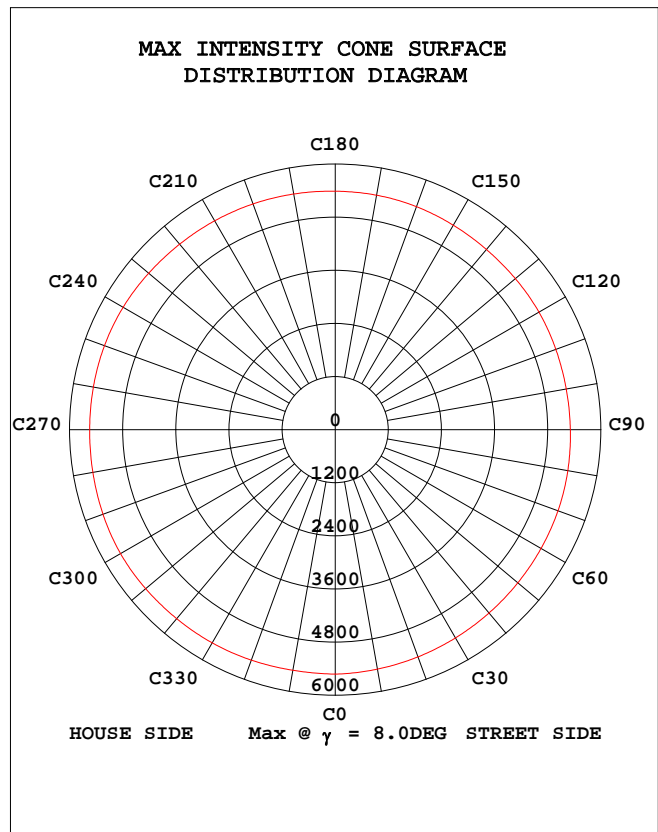
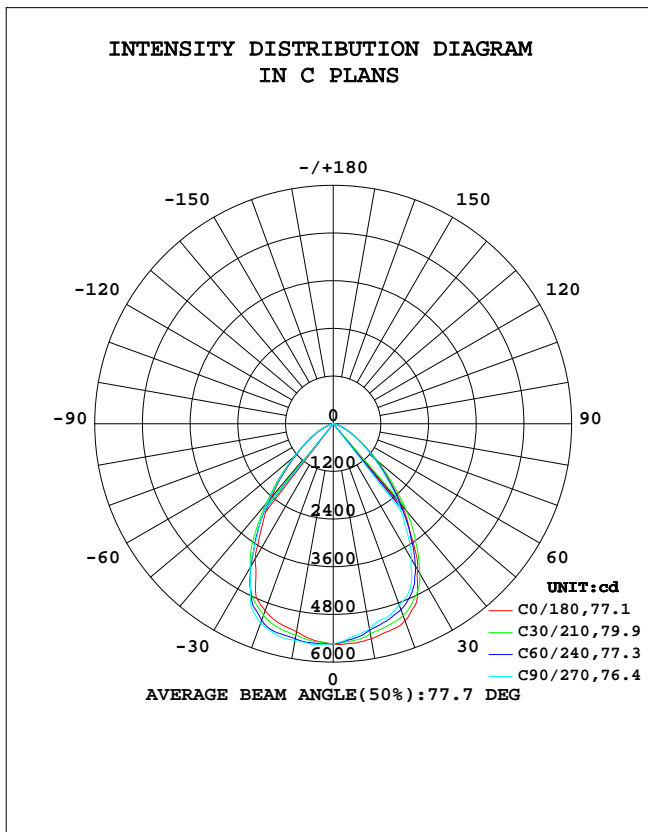


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.28V I:0.2763A P:59.400W PF:0.9761 Freq:50.01Hz Lamp Flux:9124.85x1 lm		
NAME: T-190B-46W-32	TYPE:	WEIGHT:1
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 153.62 lm/W			
MODEL	5050 40K RA70 T90	Imax(cd)	5600	η street_up(%)	0.2
NOMINAL POWER(W)	60	LOR(%)	100.0	η street_down(%)	49.7
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	9125	η house_up(%)	0.2
NOMINAL FLUX(lm)	9124.85	MAXIMUM @(C, γ)	300,8.0	η house_down(%)	49.9
LAMPS INSIDE	1	η up(%)	0.4	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	230.0	η down(%)	99.6	SLI	16.715



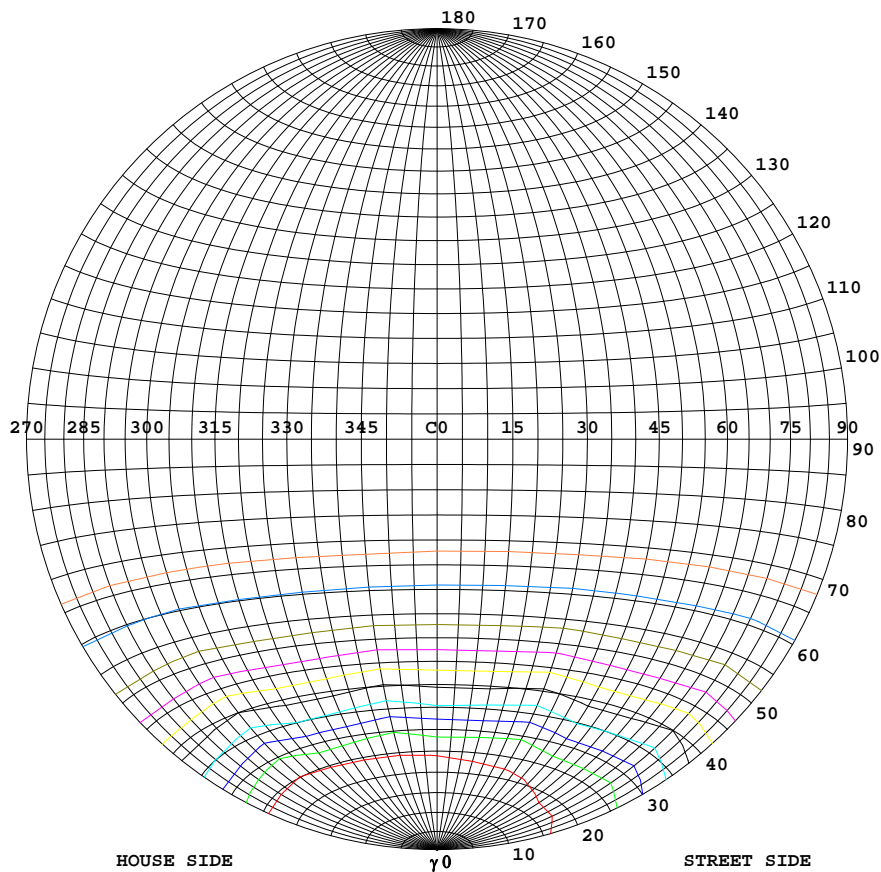
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-10-31

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-190B-60W-32(5050 40K RA70 T90)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.28V I:0.2763A P:59.400W PF:0.9761 Freq:50.01Hz Lamp Flux:9124.85x1 lm		
NAME: T-190B-46W-32	TYPE:	WEIGHT:1
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



Classification:

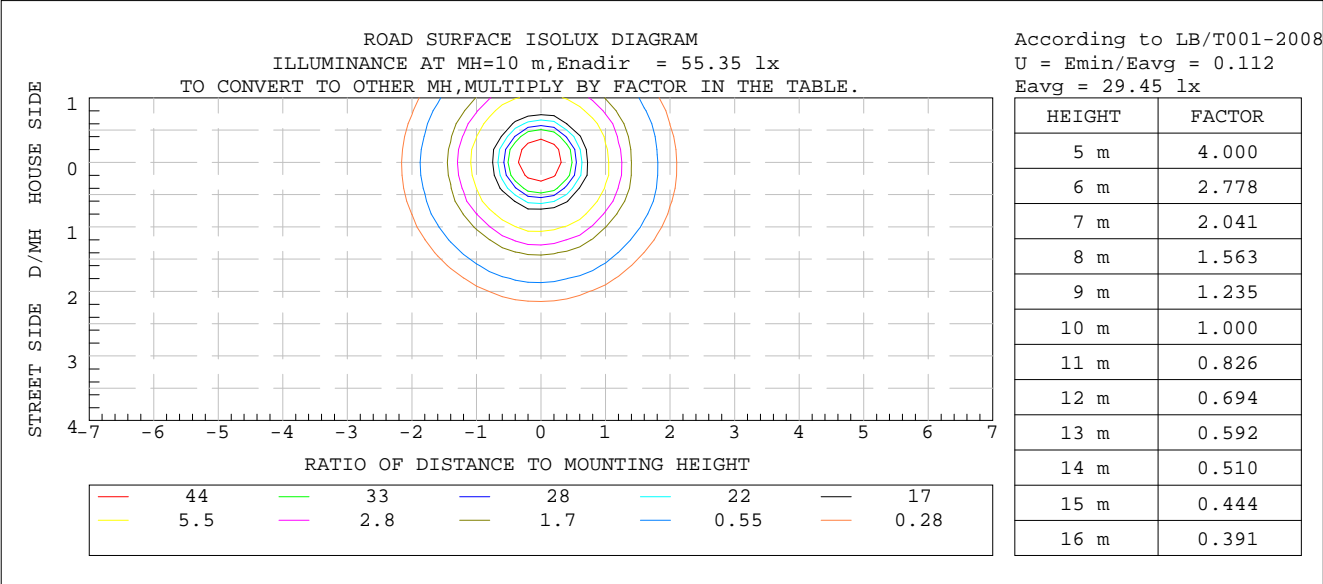
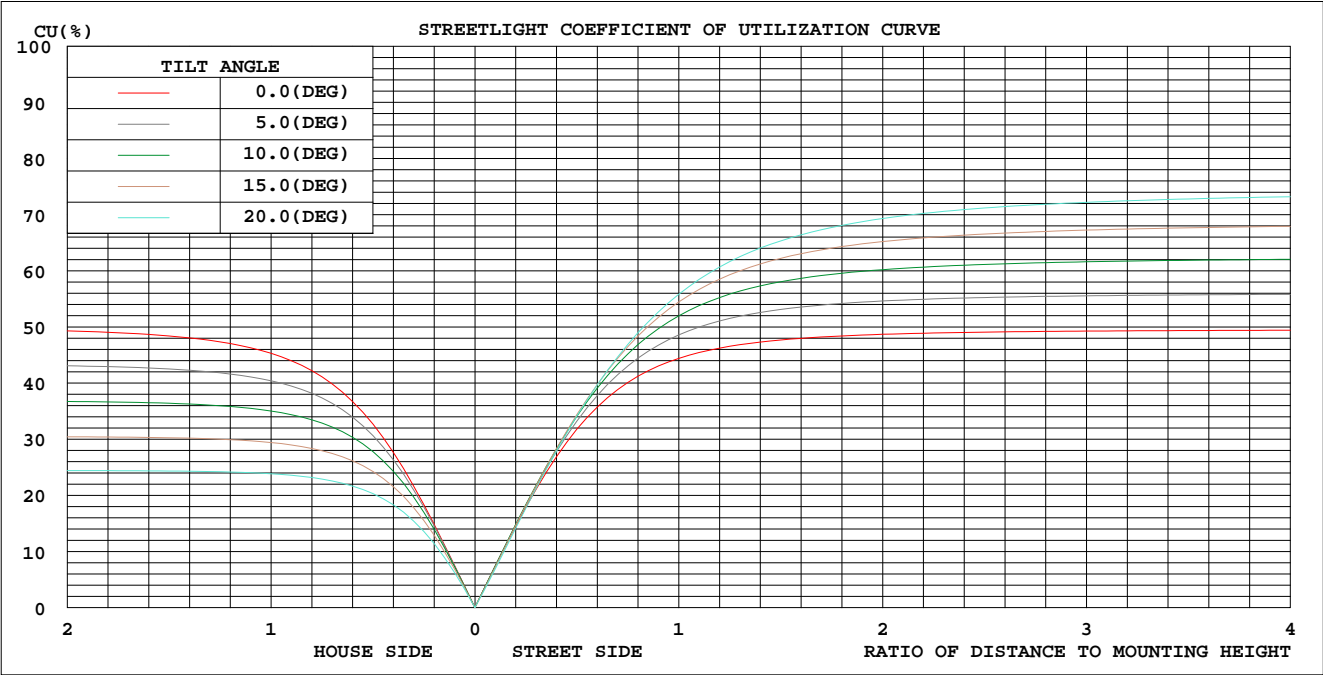
IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:5.830cd/klm
 Max.At90:0.9069cd/klm
 Max.80-90:5.830cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5600
90%	5040
80%	4480
70%	3920
60%	3360
50%	2800
40%	2240
30%	1680
20%	1120
10%	560
5%	280

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-10-31

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-190B-60W-32(5050 40K RA70 T90)

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG	γ Range: 0 - 180DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Temperature: 13.9DEG	Humidity: 38.0%
Operators: CS01	Test Distance: 26.000m [K=1.0000]
Test Date: 2022-10-31	Remarks: T-190B-60W-32(5050 40K RA70 T90)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:220.28V I:0.2763A P:59.400W PF:0.9761 Freq:50.01Hz Lamp Flux:9124.85x1 lm		
NAME: T-190B-46W-32	TYPE:	WEIGHT:1
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	5497	5313	5243	5220	5315	5437	5535	5563	0- 10	521.3	521.3	5.71,5.71
20	5274	5043	4857	4874	5009	5196	5343	5346	10- 20	1493	2015	22.1,22.1
30	4245	4092	3929	3923	3932	4048	4184	4235	20- 30	2177	4192	45.9,45.9
40	2710	2619	2523	2493	2430	2474	2544	2618	30- 40	2111	6303	69.1,69.1
50	1386	1369	1325	1291	1231	1234	1263	1319	40- 50	1483	7787	85.3,85.3
60	605.9	608.6	593.0	571.1	534.8	530.7	539.3	573.1	50- 60	807.6	8594	94.2,94.2
70	214.9	220.5	217.3	206.0	186.3	176.8	173.7	200.4	60- 70	357.6	8952	98.1,98.1
80	51.41	53.20	49.36	49.66	45.35	41.09	34.15	45.82	70- 80	114.0	9066	99.4,99.4
90	7.941	8.044	8.164	8.229	7.503	7.391	7.287	7.410	80- 90	21.05	9087	99.6,99.6
100	6.260	5.497	4.794	5.189	5.761	4.668	4.462	4.239	90-100	7.027	9094	99.7,99.7
110	4.135	2.989	5.495	2.769	3.589	2.774	4.734	2.725	100-110	4.646	9098	99.7,99.7
120	3.663	3.596	3.755	3.050	4.139	4.142	3.622	3.328	110-120	3.673	9102	99.8,99.8
130	4.186	4.058	3.967	4.006	5.392	4.457	4.793	4.417	120-130	3.537	9106	99.8,99.8
140	6.634	5.808	6.475	5.824	7.944	6.582	7.456	6.812	130-140	4.269	9110	99.8,99.8
150	8.592	8.365	9.901	9.044	10.12	9.680	10.35	9.482	140-150	5.156	9115	99.9,99.9
160	10.87	10.32	10.83	10.83	12.18	11.41	11.48	11.39	150-160	4.771	9120	99.9,99.9
170	14.29	13.79	15.17	14.15	14.60	14.40	14.78	14.83	160-170	3.529	9123	100,100
180	15.12	14.46	16.05	14.93	15.23	14.46	15.24	15.26	170-180	1.424	9125	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

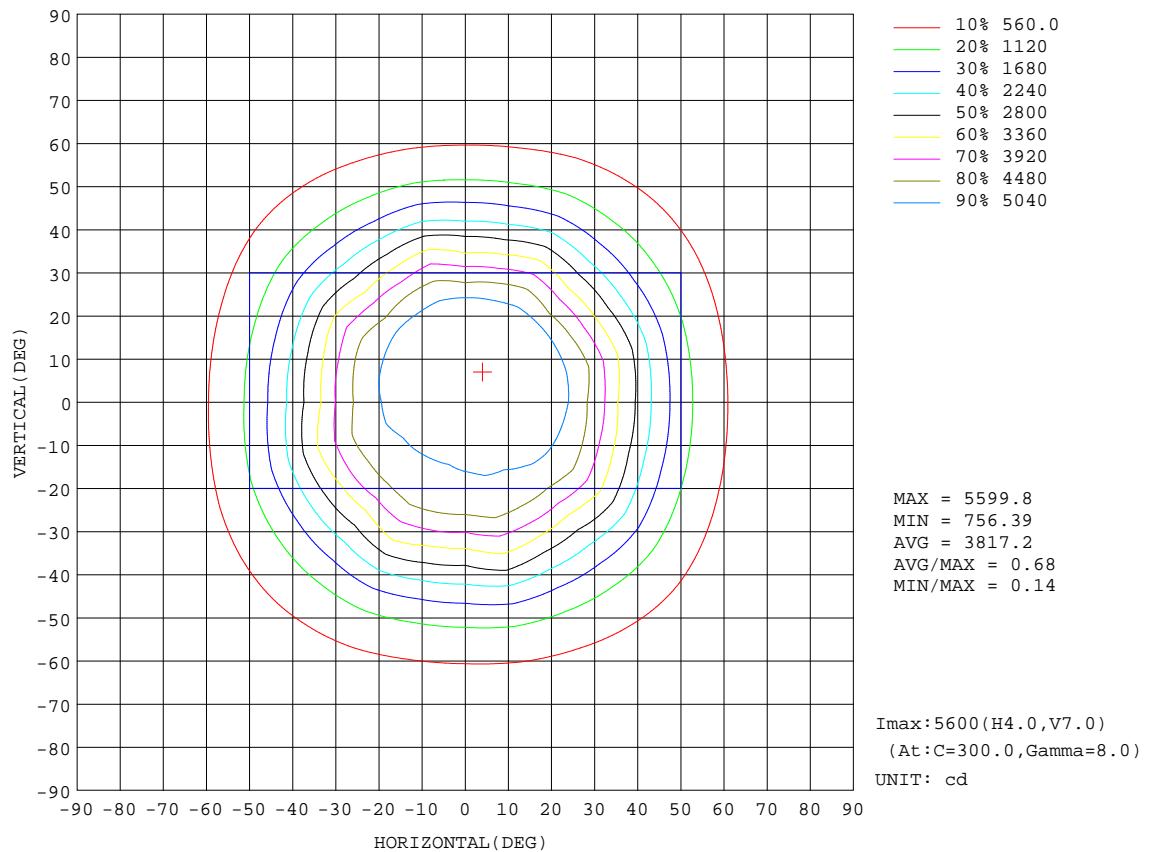
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-10-31

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-190B-60W-32(5050 40K RA70 T90)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

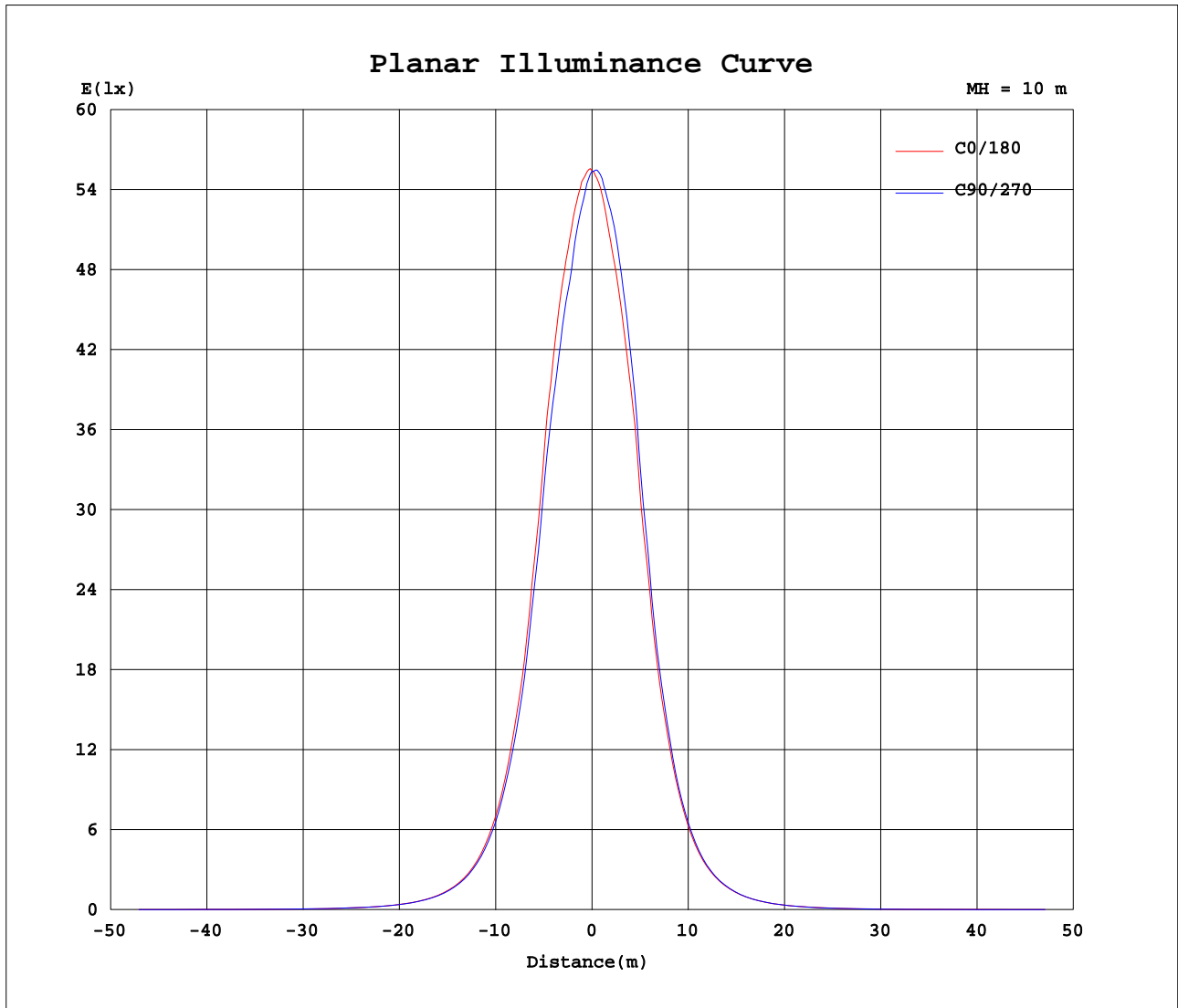
Test:U:220.28V I:0.2763A P:59.400W PF:0.9761 Freq:50.01Hz Lamp Flux:9124.85x1 lm		
NAME: T-190B-46W-32	TYPE:	WEIGHT:1
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-10-31

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-190B-60W-32(5050 40K RA70 T90)

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-10-31

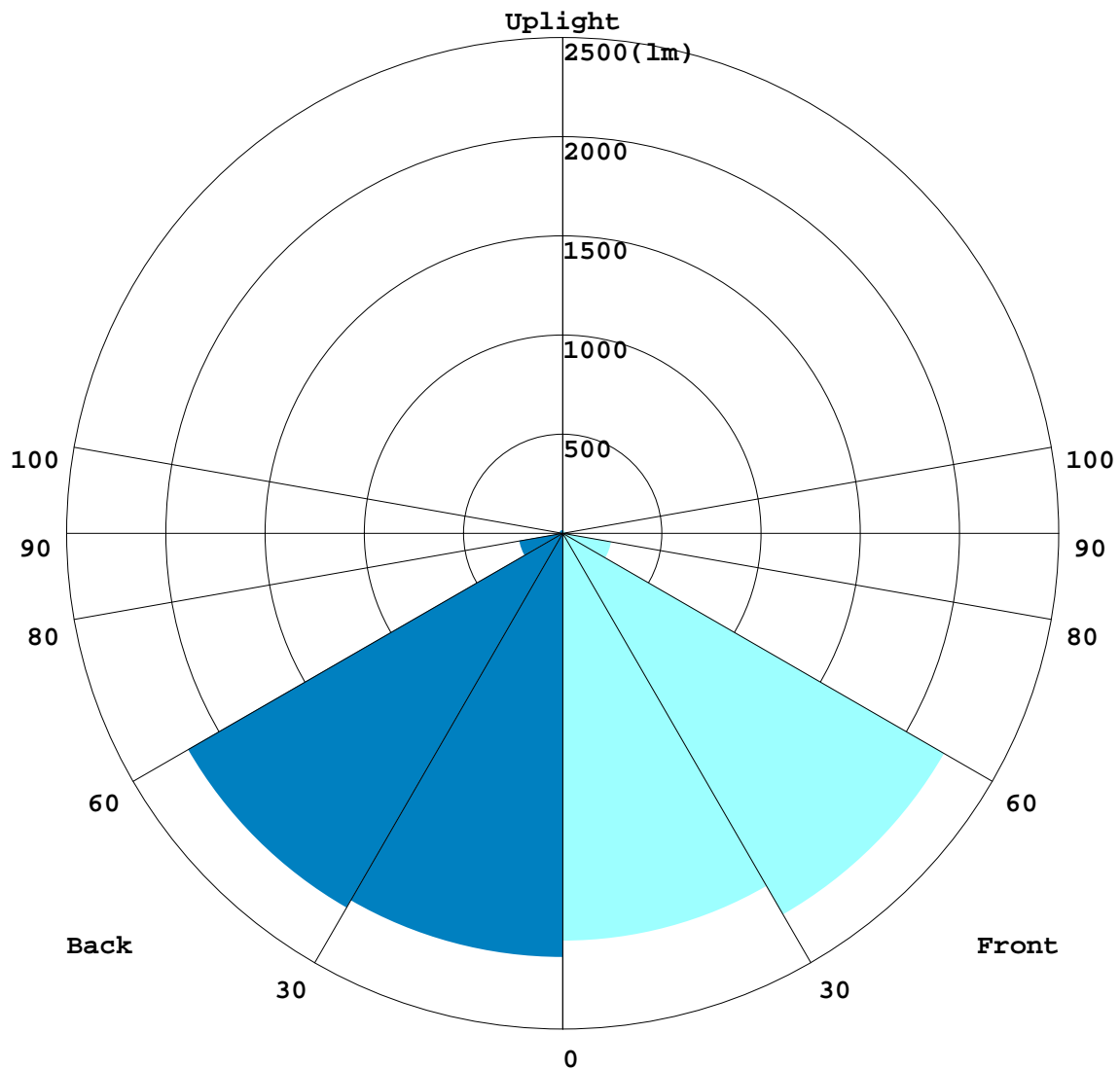
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 26.000m [K=1.0000]
Remarks: T-190B-60W-32(5050 40K RA70 T90)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:220.28V I:0.2763A P:59.400W PF:0.9761 Freq:50.01Hz Lamp Flux:9124.85x1 lm		
NAME: T-190B-46W-32	TYPE:	WEIGHT:1
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:2022-10-31

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-190B-60W-32(5050 40K RA70 T90)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:220.28V I:0.2763A P:59.400W PF:0.9761 Freq:50.01Hz Lamp Flux:9124.85x1 lm		
NAME: T-190B-46W-32	TYPE:	WEIGHT:1
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	2054.8	22.5
FM - Front-Medium(30-60)	2221.6	24.3
FH - Front-High(60-80)	249.2	2.7
FVH - Front-Very High(80-90)	11.625	0.1
Total Forward Light	4556	49.9

BL - Back-Low(0-30)	2137.4	23.4
BM - Back-Medium(30-60)	2180.4	23.9
BH - Back-High(60-80)	222.45	2.4
BVH - Back-Very High(80-90)	9.4289	0.1
Total Back Light	4568.9	50.1

UL - Uplight-Low(90-100)	7.0274	0.1
UH - Uplight-High(100-180)	31.005	0.3
Total Up Light	38.033	0.4

BUG(Back,Up,Glare) Rating	B3-U2-G1
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	4549.6	19.236	4568.9
Street Side	4537.2	18.797	4556

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-10-31

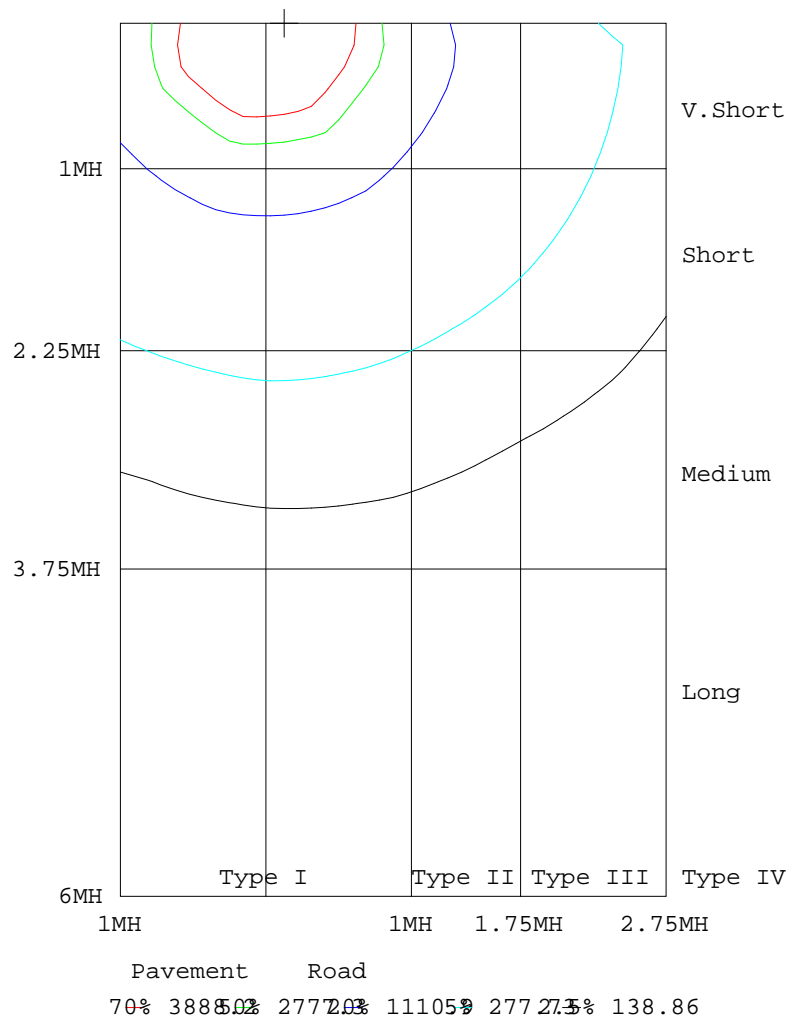
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: T-190B-60W-32(5050 40K RA70 T90)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:220.28V I:0.2763A P:59.400W PF:0.9761 Freq:50.01Hz Lamp Flux:9124.85x1 lm		
NAME: T-190B-46W-32	TYPE:	WEIGHT:1
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:2022-10-31

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-190B-60W-32(5050 40K RA70 T90)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.28V I:0.2763A P:59.400W PF:0.9761 Freq:50.01Hz Lamp Flux:9124.85x1 lm																		
NAME: T-190B-46W-32									TYPE:					WEIGHT:1				
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	5538	5538	5538	5538	5538	5538	5538	5538	5538	5538	5538	5538	5538	5538	5538	5538	5538	5538	5538
5	5543	5507	5487	5452	5442	5414	5387	5380	5391	5401	5417	5440	5474	5484	5495	5515	5538	5564	5575
10	5497	5418	5366	5313	5279	5264	5243	5224	5232	5220	5253	5281	5315	5374	5405	5437	5497	5534	5535
15	5409	5328	5265	5174	5147	5096	5068	5044	5045	5065	5101	5147	5204	5264	5318	5398	5446	5476	5505
20	5274	5202	5135	5043	4980	4952	4857	4882	4873	4874	4919	4993	5009	5076	5131	5196	5267	5312	5343
25	4961	4892	4834	4747	4688	4645	4586	4591	4605	4584	4615	4680	4639	4686	4821	4809	4871	4989	4941
30	4245	4268	4359	4092	4139	4173	3929	4017	4062	3923	4041	4079	3932	4035	4175	4048	4154	4327	4184
35	3409	3500	3620	3322	3375	3519	3171	3266	3461	3139	3273	3450	3112	3243	3486	3195	3328	3580	3295
40	2710	2715	2877	2619	2623	2792	2523	2560	2690	2493	2558	2667	2430	2500	2639	2474	2536	2707	2544
45	1986	1976	2094	1930	1922	2028	1867	1868	1966	1833	1849	1938	1772	1802	1899	1793	1818	1931	1845
50	1386	1396	1439	1369	1366	1407	1325	1315	1353	1291	1289	1325	1231	1237	1284	1234	1249	1302	1263
55	933	938	962	928	923	943	902	894	905	875	870	883	832	825	846	828	832	856	848
60	606	613	624	609	607	617	593	587	593	571	564	569	535	528	538	531	531	541	539
65	375	378	383	381	380	381	373	367	363	354	349	344	327	321	320	321	316	317	324
70	215	218	214	220	220	215	217	213	204	206	201	191	186	180	175	177	171	167	174
75	109	112	112	116	114	112	113	110	107	108	105	100	96.5	92.5	91.3	91.1	84.5	80.8	83.7
80	51.4	53.1	52.8	53.2	51.3	49.1	49.4	48.3	47.4	49.7	49.8	47.4	45.4	44.1	42.2	41.1	37.4	33.0	34.2
85	18.7	19.6	18.7	18.4	16.8	15.8	16.0	15.6	15.5	16.6	17.8	17.3	16.0	15.4	14.3	13.4	12.0	10.7	11.3
90	7.94	8.04	8.04	8.04	8.12	8.16	8.16	8.17	8.28	8.23	8.13	8.12	7.50	7.50	7.39	7.39	7.24	7.28	7.29
95	7.18	7.18	7.23	7.01	6.54	6.26	6.48	6.49	6.38	7.03	7.26	7.36	6.74	6.68	6.47	6.35	5.44	5.16	5.38
100	6.26	6.31	6.04	5.50	4.52	4.63	4.79	4.37	4.52	5.19	6.00	6.33	5.76	5.60	5.42	4.67	3.92	4.51	4.46
105	5.17	5.11	4.94	3.86	3.91	4.68	4.46	3.49	4.80	3.32	4.80	5.18	4.73	4.55	4.39	3.10	4.08	5.38	5.50
110	4.14	4.19	4.13	2.99	3.97	5.04	5.50	3.76	5.00	2.77	4.17	4.09	3.59	3.60	4.09	2.77	3.86	4.61	4.73
115	3.48	3.70	3.97	2.99	3.54	4.08	4.52	3.71	3.81	3.05	4.12	3.71	3.59	3.67	3.97	3.70	3.07	3.82	3.95
120	3.66	3.69	3.97	3.60	3.10	3.16	3.76	3.27	2.88	3.05	4.16	3.81	4.14	4.24	4.46	4.14	3.00	3.61	3.62
125	3.92	4.03	4.29	3.85	3.24	3.21	3.62	3.35	3.10	3.75	4.19	4.04	4.75	4.67	4.56	4.17	3.54	3.65	3.92
130	4.19	4.18	4.56	4.06	3.81	3.85	3.97	3.81	4.08	4.01	4.23	4.25	5.39	5.33	4.84	4.46	4.47	4.52	4.79
135	5.53	5.11	5.05	4.67	4.78	4.94	5.38	4.74	5.11	4.41	4.69	5.38	6.91	6.58	5.71	5.54	6.32	5.66	6.05
140	6.63	6.46	6.29	5.81	6.37	6.52	6.47	5.83	6.42	5.82	6.00	6.47	7.94	7.67	7.02	6.58	7.68	7.19	7.46
145	8.09	8.09	7.50	7.33	8.11	8.26	8.60	7.84	7.88	7.68	7.41	8.06	8.97	8.97	8.48	8.05	8.93	8.92	9.31
150	8.59	9.34	9.13	8.37	9.04	9.24	9.90	9.32	9.09	9.04	8.78	9.47	10.1	10.3	10.0	9.68	10.0	10.1	10.3
155	9.83	10.3	10.1	9.18	10.0	9.99	10.0	10.1	10.0	9.86	9.70	10.5	11.3	11.0	11.0	10.6	10.8	10.7	10.7
160	10.9	10.8	11.0	10.3	10.9	10.8	10.8	10.9	10.8	10.8	10.4	11.3	12.2	11.8	12.1	11.4	11.6	11.5	11.5
165	12.5	11.8	12.0	11.7	12.1	11.9	12.0	12.5	12.0	11.9	11.8	12.3	13.2	13.2	12.9	12.2	12.7	12.6	12.7
170	14.3	14.2	13.6	13.8	14.5	15.1	15.2	15.1	14.6	14.2	13.4	14.3	14.6	15.0	14.6	14.4	14.3	15.0	14.8
175	15.1	15.2	14.5	14.3	15.1	15.2	16.0	15.8	15.1	14.4	14.2	14.8	15.0	15.2	15.2	14.9	14.6	15.1	15.2
180	15.1	15.2	14.5	14.5	15.2	15.2	16.1	15.9	15.3	14.9	14.3	15.1	15.2	15.2	15.2	14.5	14.4	15.2	15.2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-10-31

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-190B-60W-32(5050 40K RA70 T90)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.28V I:0.2763A P:59.400W PF:0.9761 Freq:50.01Hz Lamp Flux:9124.85x1 lm		
NAME: T-190B-46W-32	TYPE:	WEIGHT:1
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	5538	5538	5538	5538	5538													
5	5583	5589	5585	5570	5557													
10	5564	5577	5563	5520	5499													
15	5552	5530	5507	5510	5438													
20	5368	5402	5346	5329	5337													
25	4977	5048	4997	4979	5010													
30	4263	4423	4235	4268	4439													
35	3405	3640	3367	3451	3639													
40	2588	2799	2618	2651	2856													
45	1856	1999	1888	1921	2058													
50	1280	1352	1319	1338	1404													
55	857	896	883	900	932													
60	549	575	573	582	599													
65	333	346	353	357	364													
70	185	191	200	202	201													
75	90.0	95.9	103	103	103													
80	36.8	40.6	45.8	47.1	46.6													
85	12.2	12.6	14.4	15.9	15.6													
90	7.24	7.40	7.41	7.36	7.25													
95	5.28	5.43	6.09	6.43	6.48													
100	3.58	4.52	4.24	5.07	5.50													
105	3.28	4.73	2.92	3.93	4.41													
110	3.00	4.24	2.73	3.92	3.76													
115	2.89	3.10	3.08	4.20	3.76													
120	2.89	3.14	3.33	4.36	4.25													
125	3.60	3.43	4.04	4.42	4.69													
130	4.69	4.68	4.42	4.80	5.07													
135	5.90	6.37	5.56	5.68	6.22													
140	7.63	7.62	6.81	6.87	7.47													
145	9.16	9.04	8.07	8.24	8.88													
150	10.1	9.91	9.48	9.33	10.2													
155	10.4	10.3	10.4	9.98	11.3													
160	11.6	11.5	11.4	11.0	11.9													
165	12.8	12.5	12.4	12.6	12.5													
170	15.5	15.5	14.8	14.7	13.9													
175	16.1	16.0	15.2	15.3	14.3													
180	16.1	15.9	15.3	15.0	14.3													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-10-31

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-190B-60W-32(5050 40K RA70 T90)