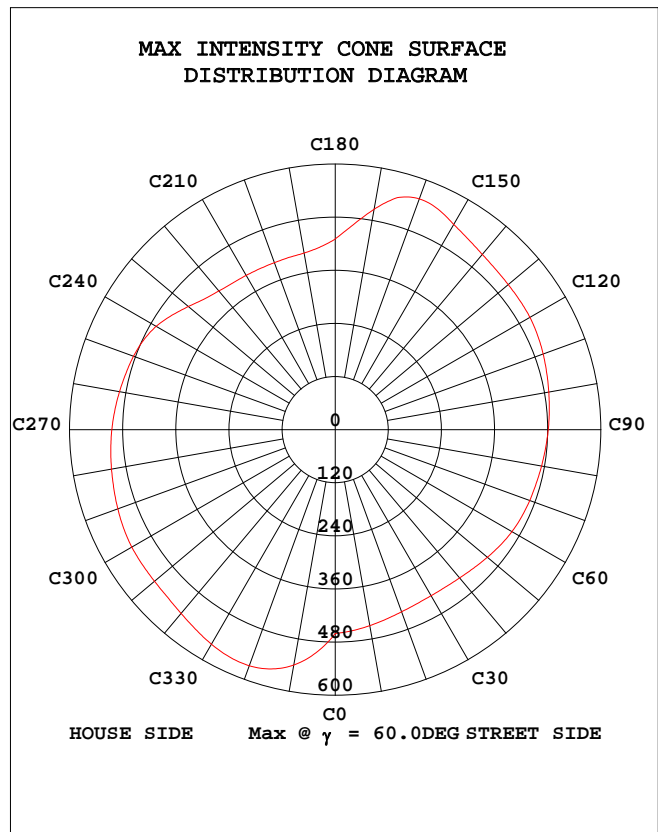
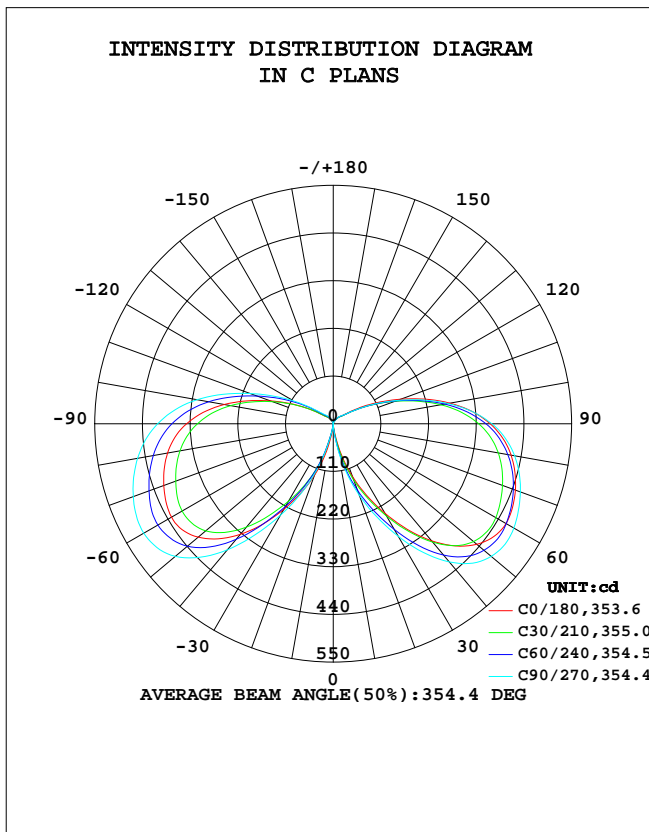


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.20V I:0.2296A P:49.146W PF:0.9723 Freq:50.01Hz Lamp Flux:3282.34x1 lm		
NAME: T-102-50W-576	TYPE:	WEIGHT:3
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.79 lm/W			
MODEL	2835 30K	I _{max} (cd)	559.7	η street_up(%)	11.9
NOMINAL POWER(W)	50	LOR(%)	100.0	η street_down(%)	37.9
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	3282	η house_up(%)	13.1
NOMINAL FLUX(lm)	3282.34	MAXIMUM @(C,γ)	330,60.0	η house_down(%)	37.1
LAMPS INSIDE	1	η up(%)	25.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	230.0	η down(%)	75.0	SLI	19.078



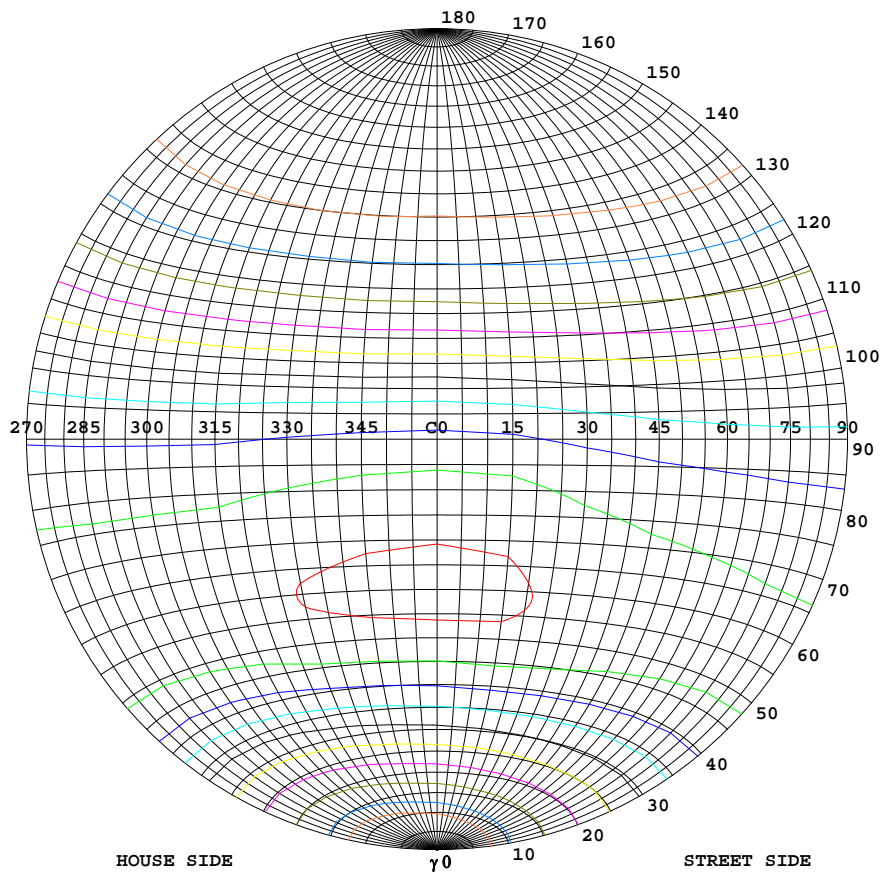
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:1.922m [K=1.0000]
 Remarks: T-102-50W-576(2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.20V I:0.2296A P:49.146W PF:0.9723 Freq:50.01Hz Lamp Flux:3282.34x1 lm		
NAME: T-102-50W-576	TYPE:	WEIGHT:3
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



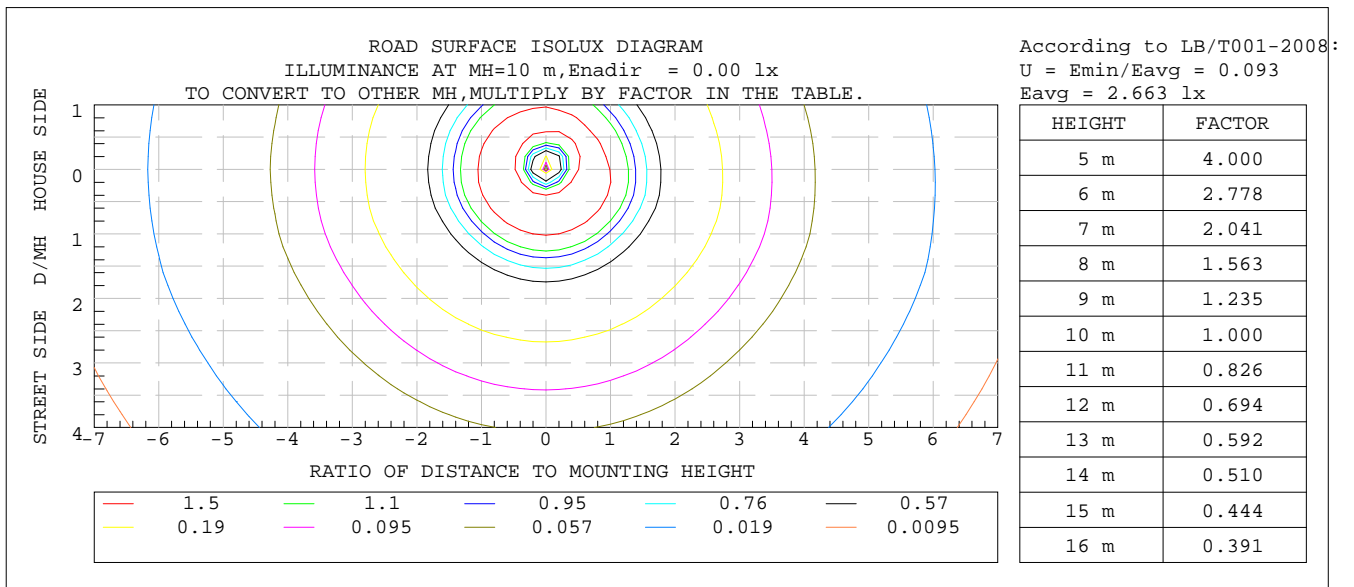
Classification:

IES:Type V - Short
 CIE:Broad - Intermediate
 IES:None cut-off
 CIE:Non-cut-off
 Max.At80:153.3cd/klm
 Max.At90:133.4cd/klm
 Max.80-90:153.3cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	560
90%	504
80%	448
70%	392
60%	336
50%	280
40%	224
30%	168
20%	112
10%	56
5%	28

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:1.922m [K=1.0000]
 Remarks: T-102-50W-576(2835 30K)

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: 2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 1.922m [K=1.0000]
Remarks: T-102-50W-576(2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:220.20V I:0.2296A P:49.146W PF:0.9723 Freq:50.01Hz Lamp Flux:3282.34x1 lm		
NAME: T-102-50W-576	TYPE:	WEIGHT:3
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	27.71	42.39	53.76	50.50	28.90	5.779	11.03	18.36	0- 10	1.228	1.228	0.04,0.04
20	129.1	150.3	174.6	177.8	125.5	105.1	116.8	133.8	10- 20	25.12	26.35	0.80,0.80
30	238.3	263.7	299.8	308.2	227.7	211.9	243.8	266.4	20- 30	93.61	120.0	3.65,3.65
40	352.3	374.8	415.9	435.3	332.8	325.6	379.4	409.0	30- 40	203.2	323.2	9.85,9.85
50	432.7	434.1	475.9	503.9	407.0	400.1	475.9	508.1	40- 50	330.9	654.1	19.9,19.9
60	460.4	442.2	481.1	512.5	430.9	417.8	504.7	535.6	50- 60	425.5	1080	32.9,32.9
70	447.1	424.3	459.5	488.8	416.0	402.1	491.0	517.2	60- 70	468.9	1549	47.2,47.2
80	416.4	393.2	424.7	451.4	388.0	374.3	458.1	479.5	70- 80	472.8	2021	61.6,61.6
90	362.1	340.1	365.9	390.2	338.4	329.6	405.0	421.7	80- 90	440.7	2462	75,75
100	274.0	254.8	269.8	291.6	256.1	258.9	319.4	329.9	90-100	362.7	2825	86.1,86.1
110	166.3	152.1	158.0	172.5	154.5	164.9	204.7	207.8	100-110	243.0	3068	93.5,93.5
120	80.67	71.35	72.91	80.68	75.04	84.54	105.1	103.8	110-120	126.3	3194	97.3,97.3
130	33.13	30.37	32.01	35.14	31.19	35.50	43.74	42.21	120-130	50.97	3245	98.9,98.9
140	20.58	20.06	21.51	22.81	19.48	21.86	26.21	25.61	130-140	21.73	3267	99.5,99.5
150	10.91	10.50	11.02	11.50	10.52	12.55	15.15	14.05	140-150	10.94	3278	99.9,99.9
160	4.061	4.004	4.112	3.964	3.977	5.013	6.239	5.579	150-160	3.803	3282	100,100
170	0.7336	0.8099	0.7184	0.4959	0.8853	1.227	1.661	1.336	160-170	0.7864	3282	100,100
180	0.0140	0.0141	0.0155	0.0158	0.0157	0.0145	0.0160	0.0154	170-180	0.0435	3282	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

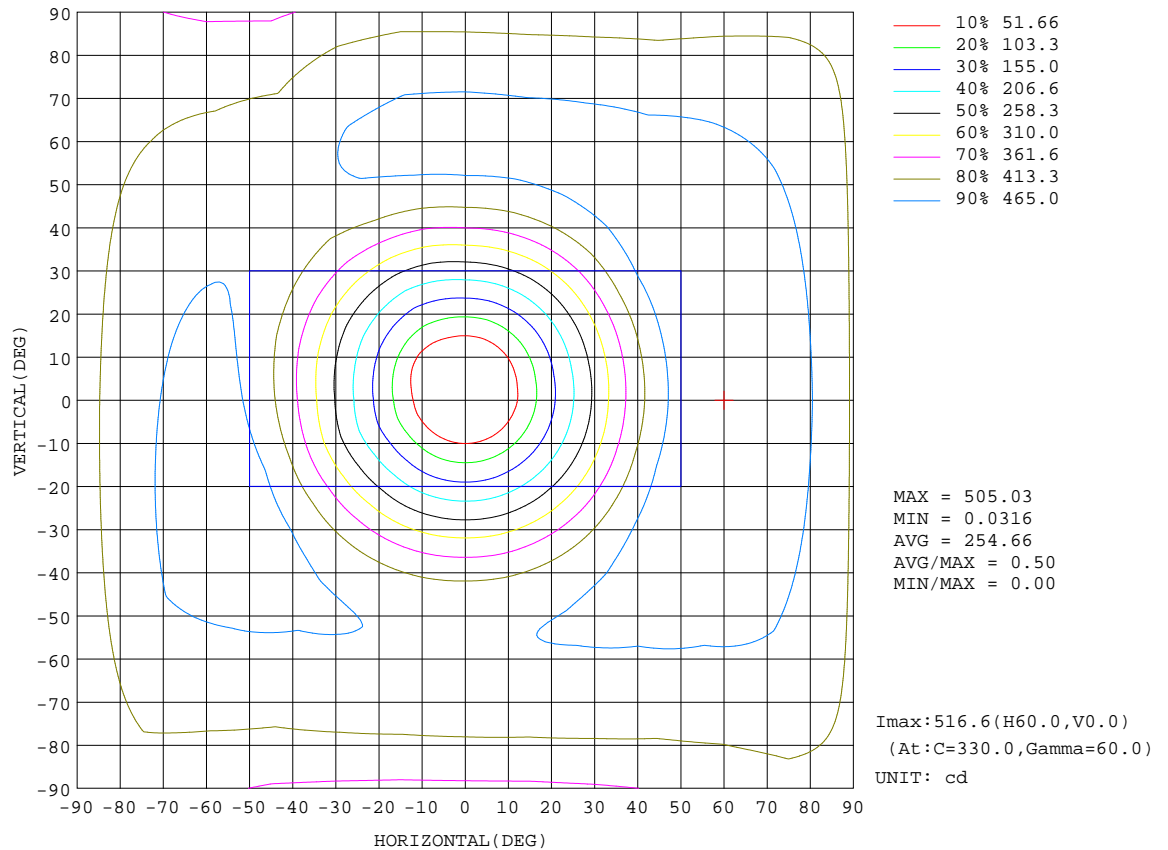
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-11-15

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:1.922m [K=1.0000]
 Remarks: T-102-50W-576(2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

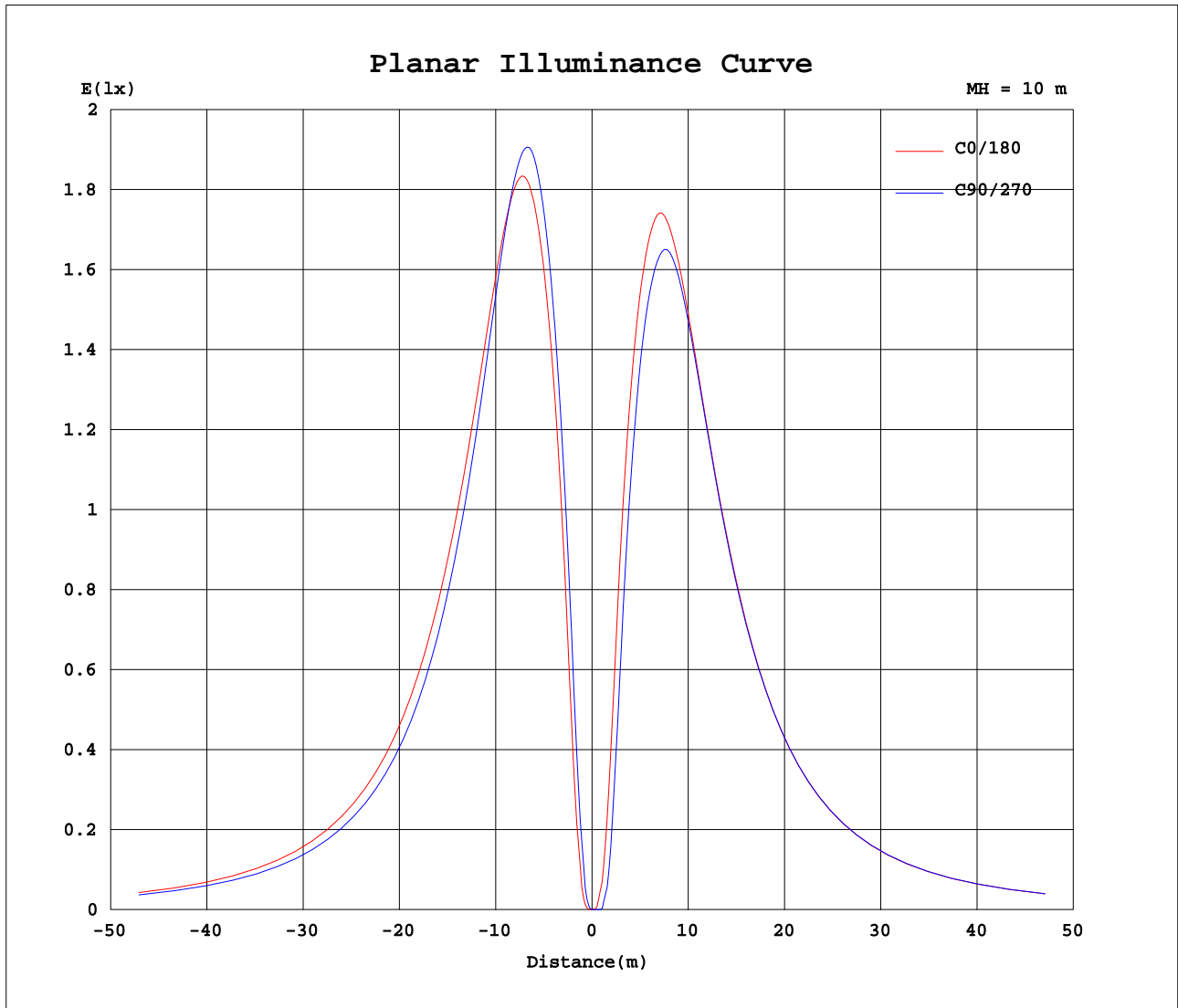
Test:U:220.20V I:0.2296A P:49.146W PF:0.9723 Freq:50.01Hz Lamp Flux:3282.34x1 lm		
NAME: T-102-50W-576	TYPE:	WEIGHT:3
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 1.922m [K=1.0000]
Remarks: T-102-50W-576(2835 30K)

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-11-15

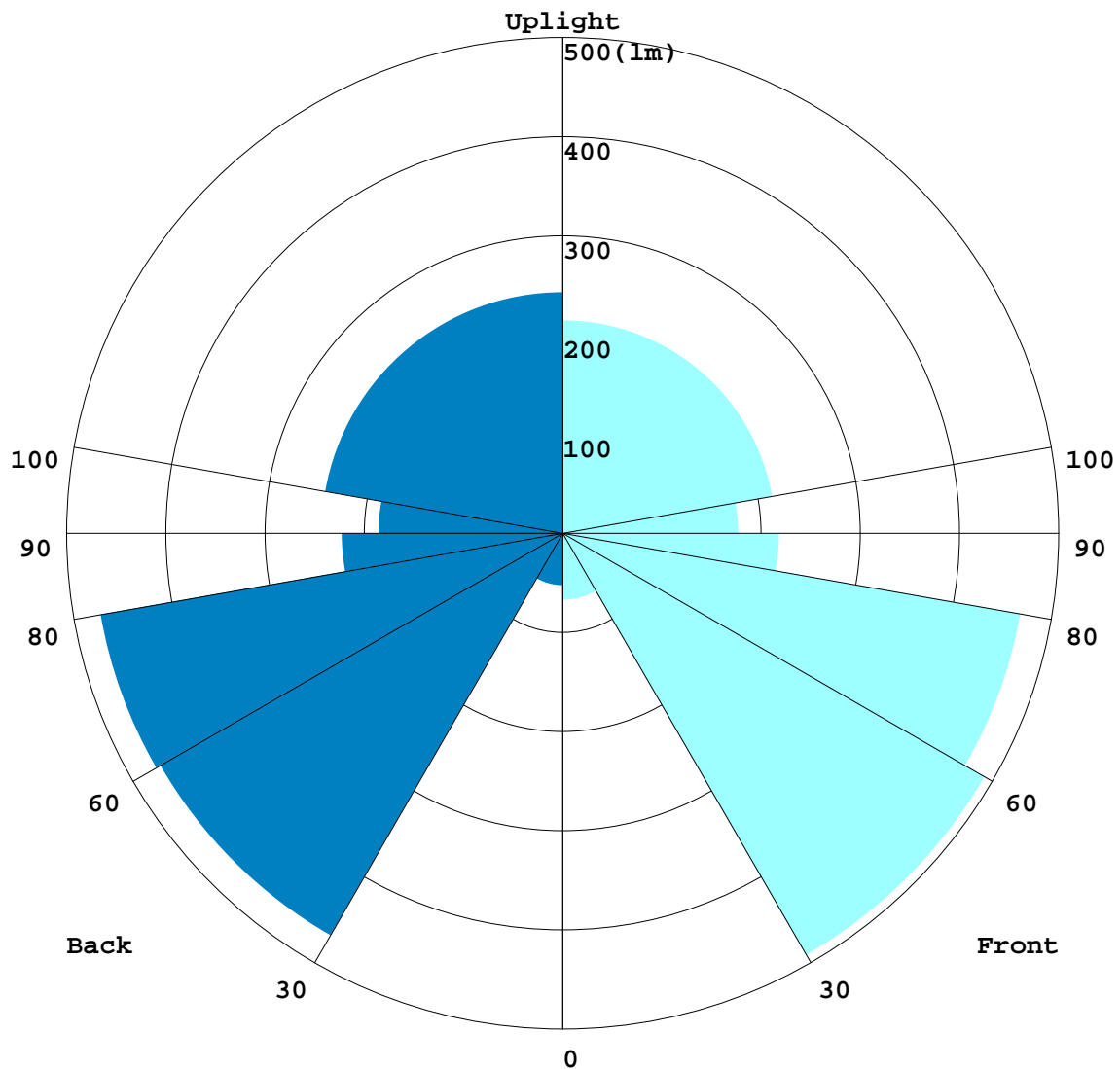
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 1.922m [K=1.0000]
Remarks: T-102-50W-576(2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:220.20V I:0.2296A P:49.146W PF:0.9723 Freq:50.01Hz Lamp Flux:3282.34x1 lm		
NAME: T-102-50W-576	TYPE:	WEIGHT:3
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:2022-11-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:1.922m [K=1.0000]
Remarks: T-102-50W-576(2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:220.20V I:0.2296A P:49.146W PF:0.9723 Freq:50.01Hz Lamp Flux:3282.34x1 lm		
NAME: T-102-50W-576	TYPE:	WEIGHT:3
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	67.33	2.1
FM - Front-Medium(30-60)	491.28	15.0
FH - Front-High(60-80)	468.65	14.3
FVH - Front-Very High(80-90)	218.14	6.6
Total Forward Light	1637.2	49.9

BL - Back-Low(0-30)	52.63	1.6
BM - Back-Medium(30-60)	468.35	14.3
BH - Back-High(60-80)	473.05	14.4
BVH - Back-Very High(80-90)	222.6	6.8
Total Back Light	1645.1	50.1

UL - Uplight-Low(90-100)	362.66	11.0
UH - Uplight-High(100-180)	457.64	13.9
Total Up Light	820.3	25.0

BUG(Back,Up,Glare) Rating	B1-U3-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1216.6	428.5	1645.1
Street Side	1245.4	391.8	1637.2

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-11-15

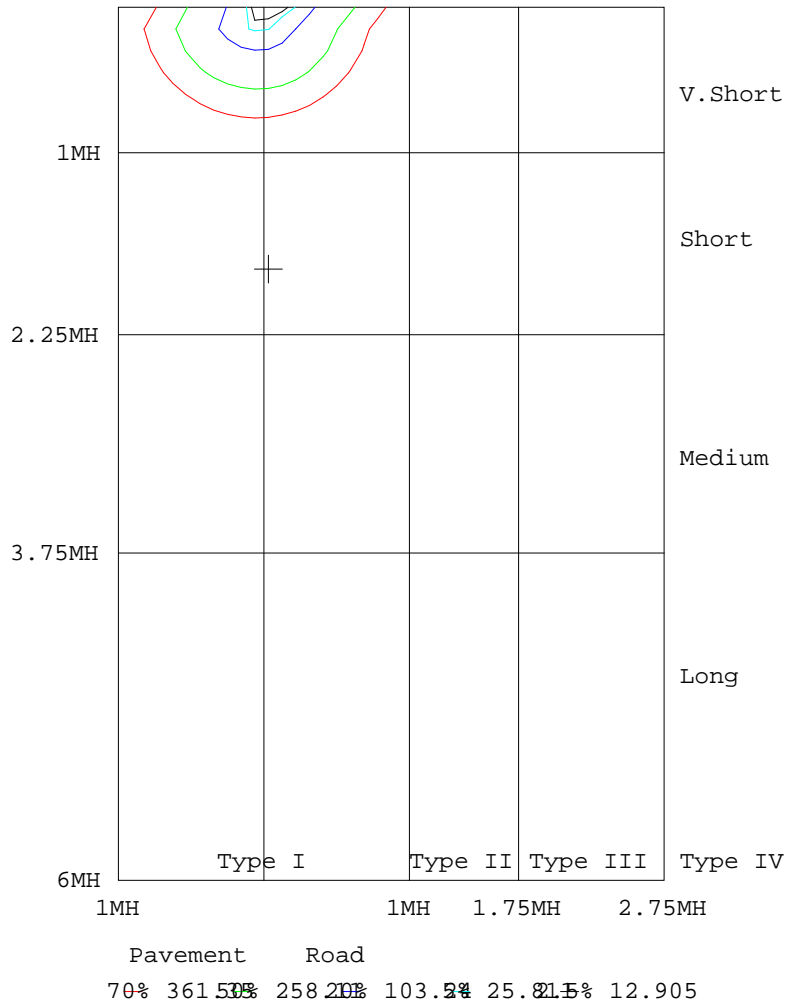
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:1.922m [K=1.0000]
 Remarks: T-102-50W-576(2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:220.20V I:0.2296A P:49.146W PF:0.9723 Freq:50.01Hz Lamp Flux:3282.34x1 lm		
NAME: T-102-50W-576	TYPE:	WEIGHT:3
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:2022-11-15

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:1.922m [K=1.0000]
 Remarks: T-102-50W-576(2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.20V I:0.2296A P:49.146W PF:0.9723 Freq:50.01Hz Lamp Flux:3282.34x1 lm																			
NAME: T-102-50W-576										TYPE:					WEIGHT:3				
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	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
5	2.70	3.87	5.36	8.36	10.1	11.3	12.0	12.1	11.5	10.12	6.92	5.02	4.39	2.86	1.01	0.31	0.09	0.05	0.06
10	27.7	31.3	36.5	42.4	48.1	51.5	53.8	54.6	53.9	50.5	46.2	39.0	28.9	21.9	12.3	5.78	6.91	10.5	11.0
15	76.0	79.4	86.4	95.7	105	110	114	117	117	114	109	97.7	75.2	63.7	53.0	46.6	49.0	52.6	54.7
20	129	130	138	150	163	169	175	179	180	178	173	158	126	114	107	105	107	112	117
25	182	182	191	206	221	229	236	242	245	243	237	218	176	162	156	158	161	170	179
30	238	236	246	264	281	291	300	307	311	308	303	282	228	211	206	212	220	230	244
35	297	293	303	323	342	352	362	371	378	376	373	352	282	262	259	269	283	295	311
40	352	348	356	375	395	405	416	427	436	435	438	420	333	311	311	326	348	361	379
45	399	392	398	413	433	444	455	467	478	479	490	477	375	352	355	370	402	418	436
50	433	422	423	434	454	465	476	489	501	504	521	516	407	381	384	400	439	459	476
55	453	439	433	443	463	473	484	498	510	515	536	538	426	398	399	415	459	481	497
60	460	443	433	442	461	470	481	495	508	512	535	543	431	403	403	418	467	490	505
65	456	438	426	435	453	461	472	485	498	503	527	537	426	399	397	412	463	487	501
70	447	429	416	424	442	450	459	472	485	489	513	525	416	391	387	402	452	478	491
75	434	416	403	411	428	435	444	456	469	472	496	509	404	379	374	390	438	465	477
80	416	399	387	393	409	415	425	436	448	451	475	489	388	363	359	374	421	447	458
85	393	376	365	370	384	390	399	409	421	425	447	461	367	343	339	355	400	425	435
90	362	346	336	340	352	358	366	375	386	390	411	423	338	316	313	330	372	396	405
95	322	306	298	301	311	315	322	331	341	346	365	375	301	281	281	298	337	359	367
100	274	259	253	255	262	264	270	277	286	292	308	316	256	239	241	259	292	312	319
105	220	207	202	203	207	209	213	218	226	231	244	251	205	191	195	213	241	257	263
110	166	156	152	152	155	155	158	162	168	173	183	188	155	145	149	165	188	200	205
115	119	111	108	108	109	109	111	114	118	122	130	134	112	105	109	122	139	148	151
120	80.7	74.3	71.6	71.4	72.0	71.8	72.9	75.0	77.9	80.7	86.2	89.4	75.0	71.5	74.4	84.5	97.1	103	105
125	50.9	46.9	45.6	45.4	46.0	45.9	46.4	48.0	49.9	51.8	55.4	57.3	47.8	46.5	48.5	55.2	63.3	67.3	68.5
130	33.1	30.7	29.9	30.4	31.2	31.5	32.0	33.0	34.3	35.1	37.0	37.6	31.2	31.0	32.0	35.5	40.0	42.7	43.7
135	25.2	23.8	23.8	24.6	25.5	25.9	26.4	27.1	27.8	28.0	28.8	28.8	23.6	23.3	24.2	26.5	28.9	30.7	31.6
140	20.6	19.5	19.5	20.1	20.7	21.1	21.5	22.1	22.6	22.8	23.5	23.7	19.5	19.2	20.1	21.9	23.8	25.2	26.2
145	15.6	14.8	14.8	15.1	15.5	15.8	16.1	16.5	16.8	17.0	17.6	18.0	14.9	15.0	15.8	17.3	18.9	19.9	20.7
150	10.9	10.3	10.3	10.5	10.7	10.8	11.0	11.3	11.5	11.5	12.0	12.3	10.5	10.7	11.4	12.5	13.7	14.5	15.1
155	6.97	6.58	6.53	6.68	6.78	6.81	6.92	7.00	7.11	7.03	7.39	7.71	6.71	6.84	7.41	8.29	9.14	9.69	10.13
160	4.06	3.89	3.89	4.00	4.05	4.06	4.11	4.08	4.09	3.96	4.18	4.48	3.98	4.05	4.45	5.01	5.57	5.93	6.24
165	2.09	2.02	2.04	2.09	2.07	2.05	2.06	2.00	1.93	1.83	1.97	2.30	2.13	2.15	2.46	2.79	3.13	3.38	3.59
170	0.73	0.74	0.78	0.81	0.78	0.73	0.72	0.64	0.58	0.50	0.52	0.82	0.89	0.89	1.07	1.23	1.40	1.55	1.66
175	0.03	0.03	0.03	0.06	0.06	0.07	0.05	0.06	0.05	0.04	0.07	0.13	0.24	0.23	0.30	0.35	0.41	0.45	0.49
180	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.02

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-11-15

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:1.922m [K=1.0000]
Remarks: T-102-50W-576(2835 30K)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.20V I:0.2296A P:49.146W PF:0.9723 Freq:50.01Hz Lamp Flux:3282.34x1 lm		
NAME: T-102-50W-576	TYPE:	WEIGHT:3
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C(DEG) γ (DEG)	285	300	315	330	345													
0	0.05	0.05	0.05	0.05	0.05													
5	0.09	0.14	0.43	1.20	3.55													
10	11.8	14.3	18.4	24.1	29.9													
15	56.9	62.2	69.0	78.8	86.9													
20	121	128	134	145	152													
25	185	193	199	210	217													
30	252	260	266	279	285													
35	321	331	338	352	356													
40	391	403	409	426	425													
45	448	462	467	488	484													
50	489	503	508	531	526													
55	510	523	529	553	551													
60	518	531	536	560	560													
65	514	526	530	553	554													
70	503	515	517	540	542													
75	488	499	500	521	525													
80	469	479	480	499	503													
85	445	454	454	472	475													
90	414	422	422	437	438													
95	375	382	381	393	391													
100	326	332	330	337	332													
105	269	273	270	274	267													
110	208	211	208	209	202													
115	153	154	151	151	145													
120	106	106	104	103	98.3													
125	68.4	67.8	65.8	65.1	62.0													
130	43.8	43.3	42.2	41.8	40.2													
135	32.0	32.0	31.2	30.9	30.3													
140	26.5	26.4	25.6	25.3	24.6													
145	20.9	20.6	19.8	19.3	18.7													
150	15.2	14.9	14.1	13.6	13.0													
155	10.13	9.85	9.22	8.68	8.19													
160	6.27	6.05	5.58	5.11	4.74													
165	3.65	3.49	3.14	2.76	2.40													
170	1.70	1.58	1.34	1.09	0.81													
175	0.48	0.42	0.31	0.19	0.08													
180	0.02	0.02	0.02	0.02	0.02													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-11-15

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:1.922m [K=1.0000]
Remarks: T-102-50W-576(2835 30K)