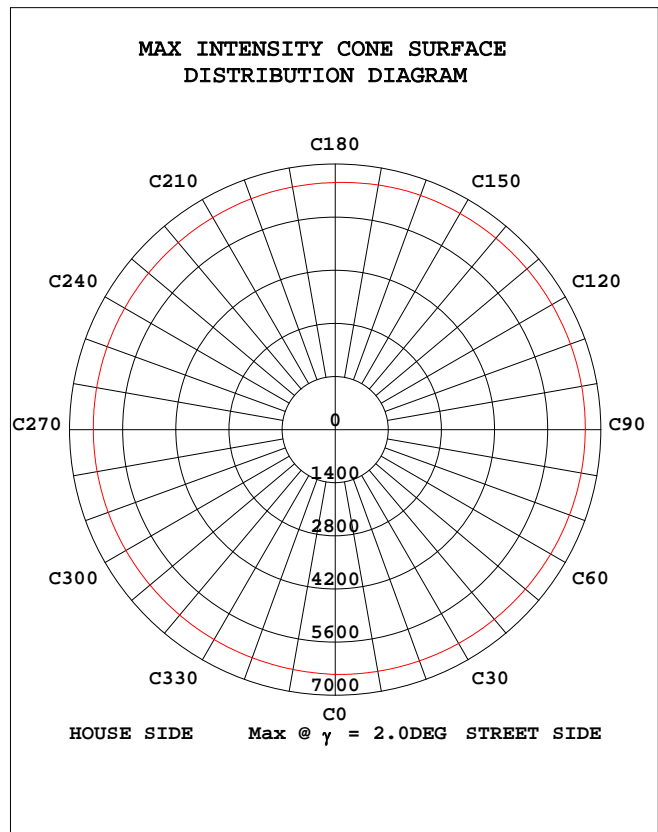
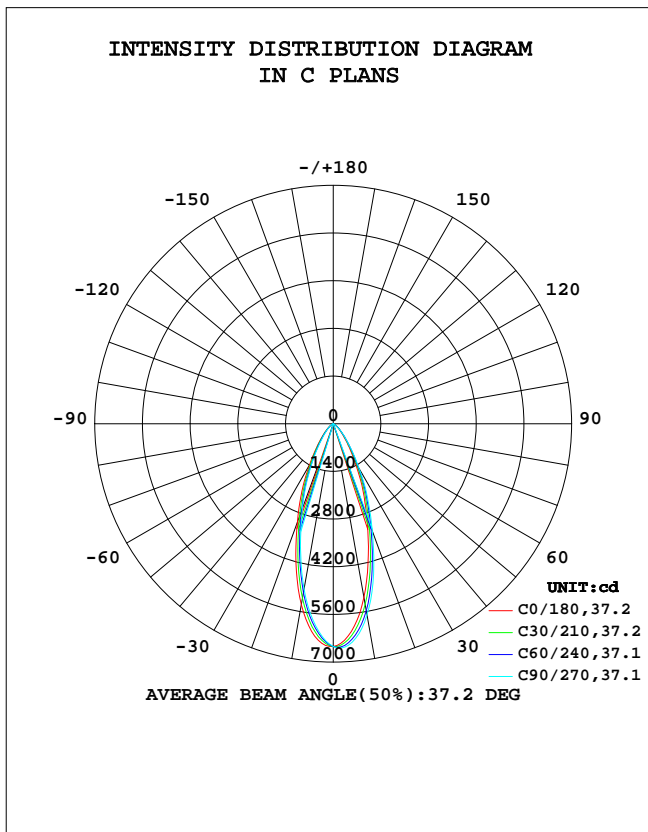


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:230.25V I:0.1813A P:39.780W PF:0.9528 Freq:50.01Hz Lamp Flux:3578.91x1 lm					
NAME: TG-211SLED40-12			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.: KLED			SUR.:		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 89.97 lm/W			
MODEL	5050 40K TS40	I _{max} (cd)	6596	η street_up(%)	0.0
NOMINAL POWER(W)	40	LOR(%)	100.0	η street_down(%)	53.5
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	3579	η house_up(%)	0.0
NOMINAL FLUX(lm)	3578.91	MAXIMUM @(C,γ)	120,2.0	η house_down(%)	46.5
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	230.0	η down(%)	100.0	SLI	12.867



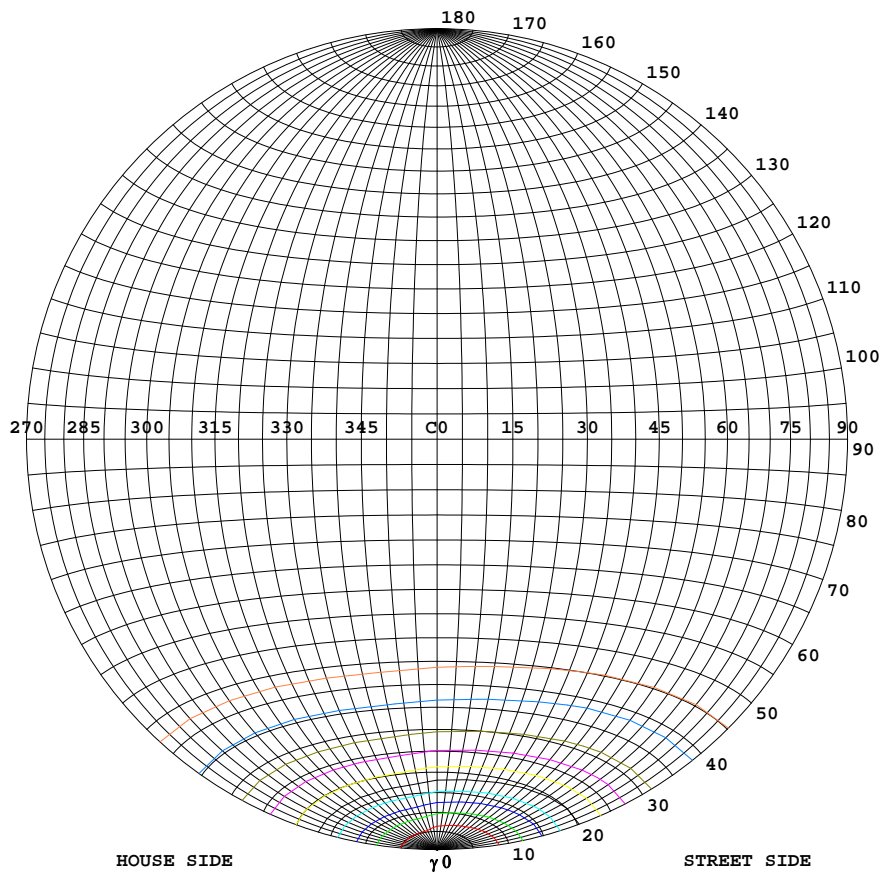
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-04-28

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: TG-211SLED40-12(5050 40K TS40)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:230.25V I:0.1813A P:39.780W PF:0.9528 Freq:50.01Hz Lamp Flux:3578.91x1 lm		
NAME: TG-211SLED40-12	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



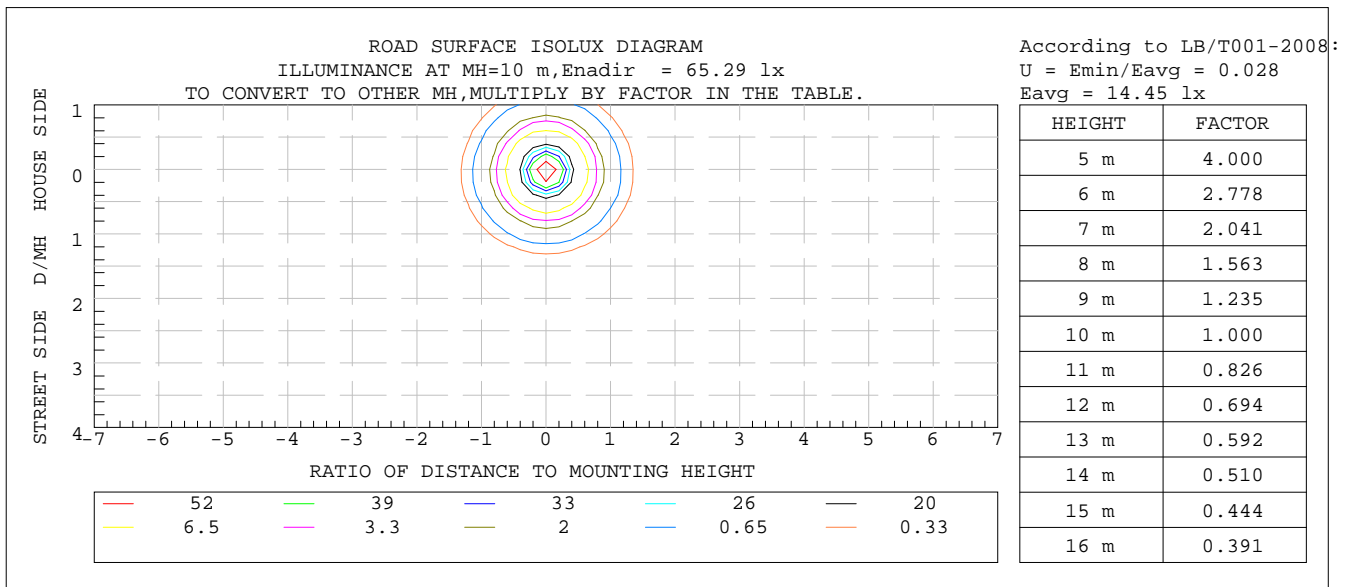
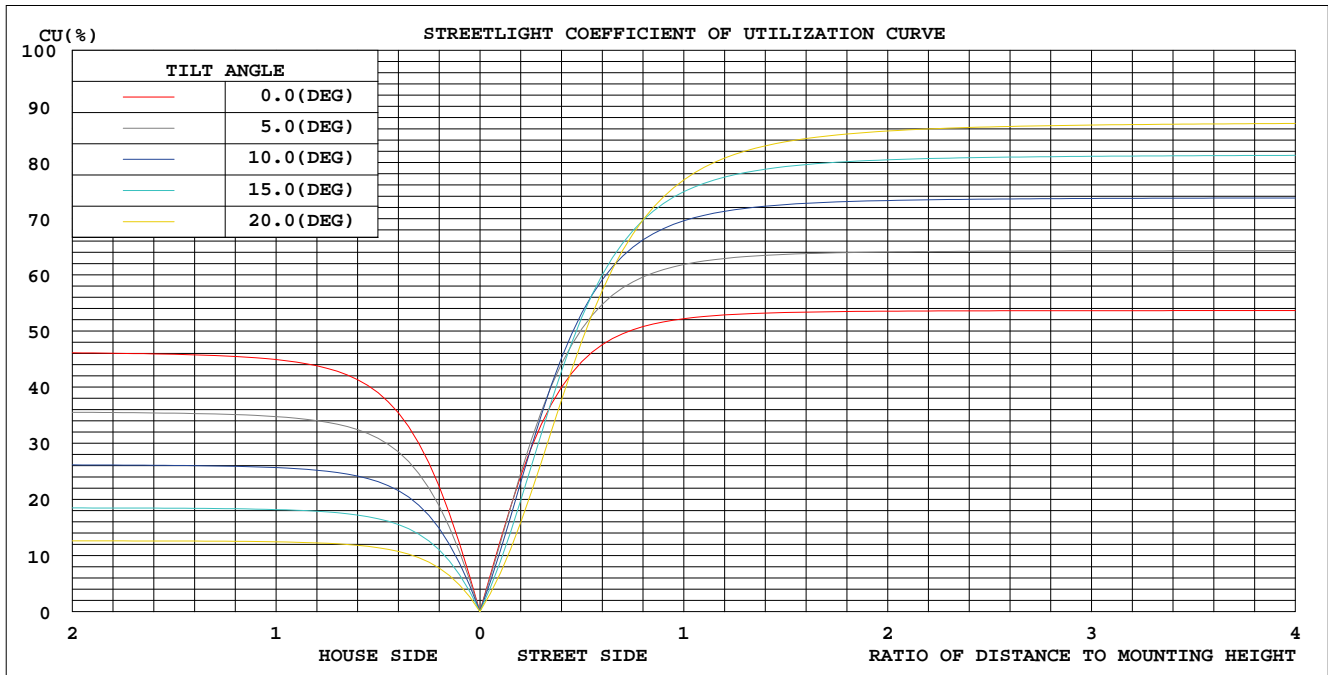
Classification:

IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:1.539cd/klm
 Max.At90:0.2239cd/klm
 Max.80-90:1.539cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	6596
90%	5936
80%	5277
70%	4617
60%	3958
50%	3298
40%	2638
30%	1979
20%	1319
10%	660
5%	330

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-04-28

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: TG-211SLED40-12(5050 40K TS40)

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: 2022-04-28

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: TG-211SLED40-12(5050 40K TS40)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:230.25V I:0.1813A P:39.780W PF:0.9528 Freq:50.01Hz Lamp Flux:3578.91x1 lm		
NAME: TG-211SLED40-12	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	Φ lum, lamp
10	5184	5490	5708	5714	5397	5114	4936	4917	0- 10	562.7	562.7	15.7,15.7
20	2875	3144	3361	3383	3086	2801	2657	2645	10- 20	1138	1700	47.5,47.5
30	1248	1429	1530	1551	1396	1225	1138	1141	20- 30	951.9	2652	74.1,74.1
40	470.3	554.1	566.8	597.8	531.6	473.1	417.2	433.6	30- 40	528.0	3180	88.9,88.9
50	181.4	201.5	186.9	216.9	204.1	177.7	161.3	160.5	40- 50	245.3	3425	95.7,95.7
60	66.00	60.19	57.08	66.15	74.22	63.95	56.15	57.03	50- 60	102.6	3528	98.6,98.6
70	24.06	15.28	10.59	18.92	27.33	23.25	19.87	21.14	60- 70	38.34	3566	99.7,99.7
80	2.894	1.219	0.7976	1.632	3.617	5.507	4.744	4.294	70- 80	10.09	3577	99.9,99.9
90	0.0148	0.0130	0.0127	0.0130	0.0724	0.6520	0.8015	0.5240	80- 90	1.482	3578	100,100
100	0.0142	0.0146	0.0125	0.0127	0.0106	0.0107	0.0153	0.0163	90-100	0.1051	3578	100,100
110	0.0223	0.0174	0.0175	0.0173	0.0147	0.0128	0.0221	0.0259	100-110	0.0160	3578	100,100
120	0.0528	0.0290	0.0285	0.0287	0.0240	0.0229	0.0367	0.0236	110-120	0.0222	3578	100,100
130	0.1088	0.0569	0.0537	0.0544	0.0622	0.0625	0.0791	0.0637	120-130	0.0413	3578	100,100
140	0.1479	0.1295	0.1220	0.1231	0.1650	0.1994	0.1869	0.1680	130-140	0.0809	3578	100,100
150	0.3203	0.3106	0.2533	0.4134	0.4027	0.4501	0.4374	0.4494	140-150	0.1614	3578	100,100
160	0.5058	0.4739	0.4535	0.4619	0.7120	0.7754	0.7508	0.8061	150-160	0.2248	3579	100,100
170	0.6228	0.6102	0.6101	0.6118	0.8940	0.9390	0.8827	0.8844	160-170	0.1992	3579	100,100
180	0.7048	0.7041	0.6680	0.6793	0.6765	0.6888	0.6761	0.6611	170-180	0.0664	3579	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

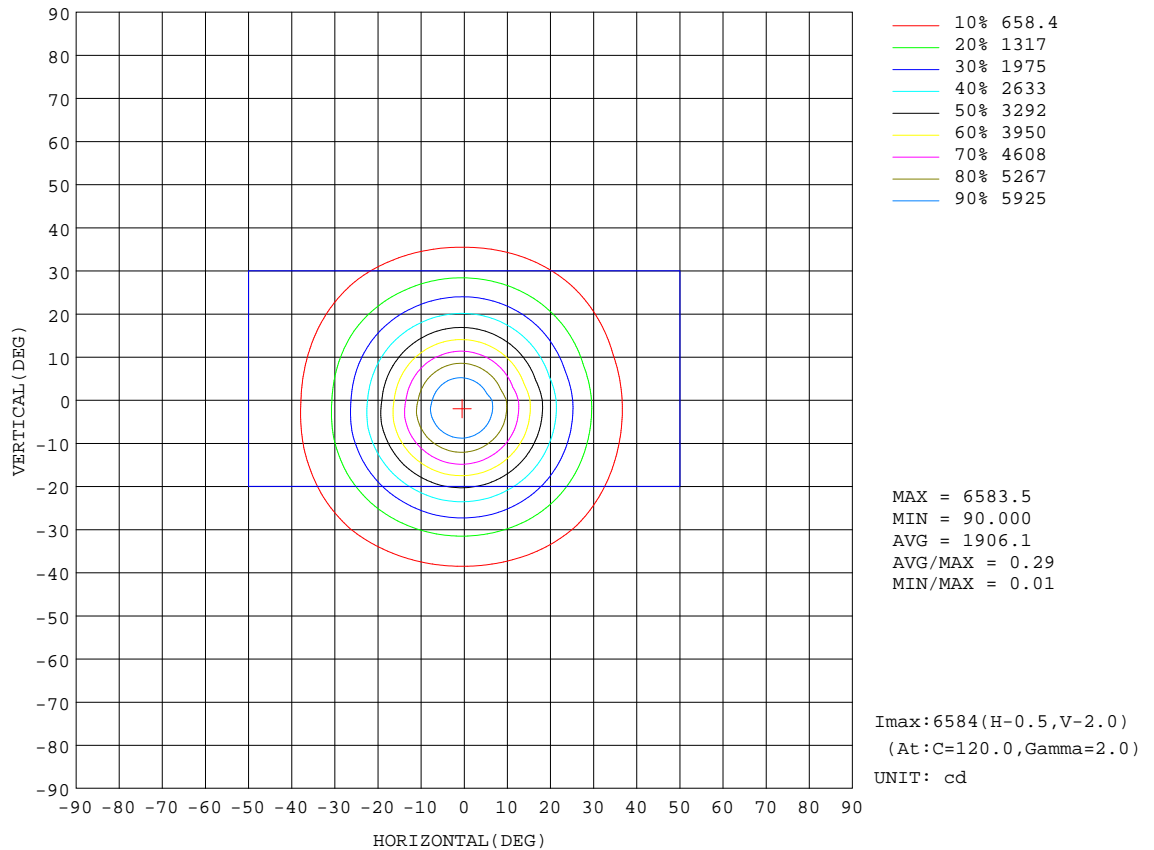
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-04-28

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: TG-211SLED40-12(5050 40K TS40)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

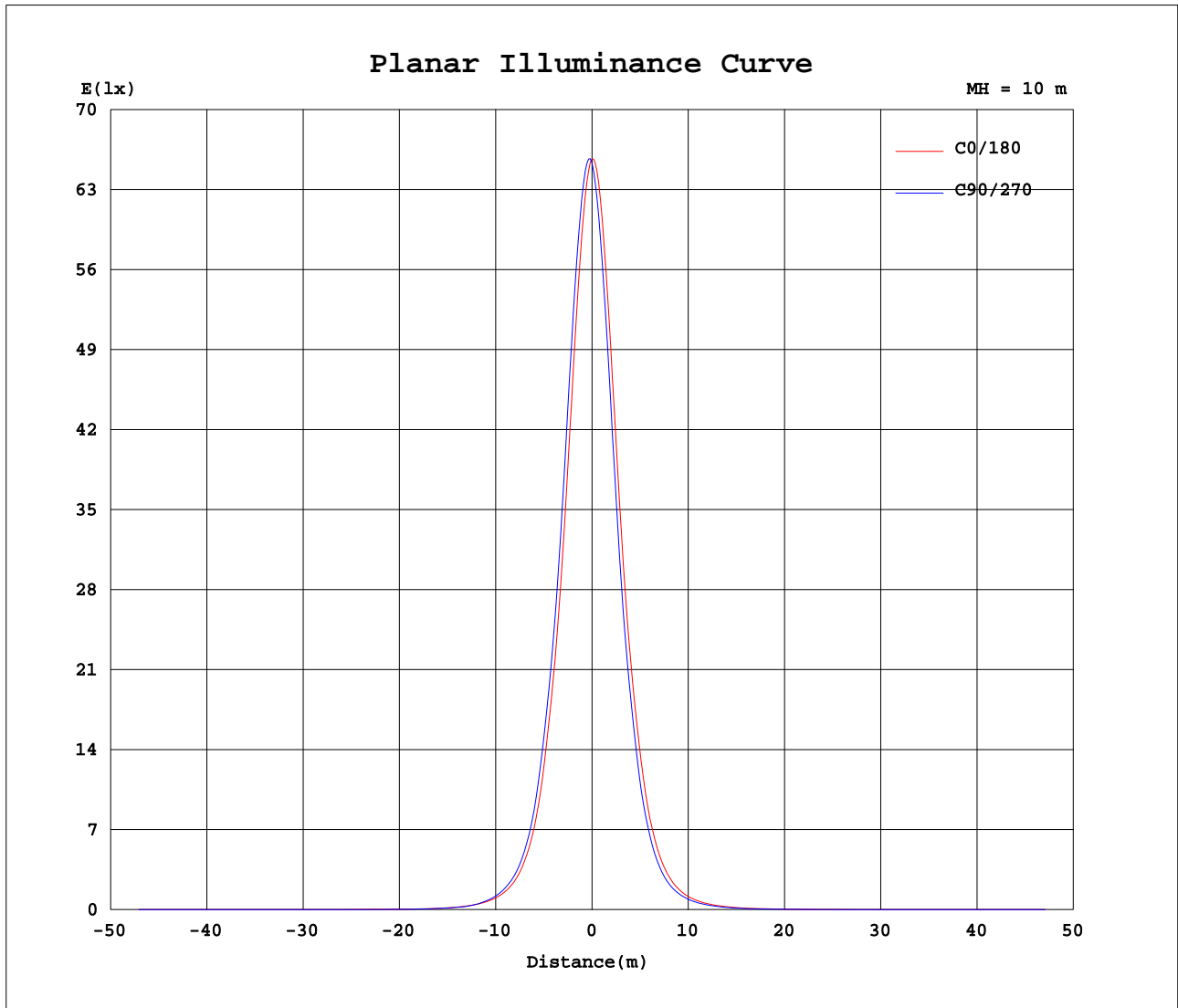
Test:U:230.25V I:0.1813A P:39.780W PF:0.9528 Freq:50.01Hz Lamp Flux:3578.91x1 lm		
NAME: TG-211SLED40-12	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-04-28

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: TG-211SLED40-12(5050 40K TS40)

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 13.9DEG
Operators: CS01
Test Date: 2022-04-28

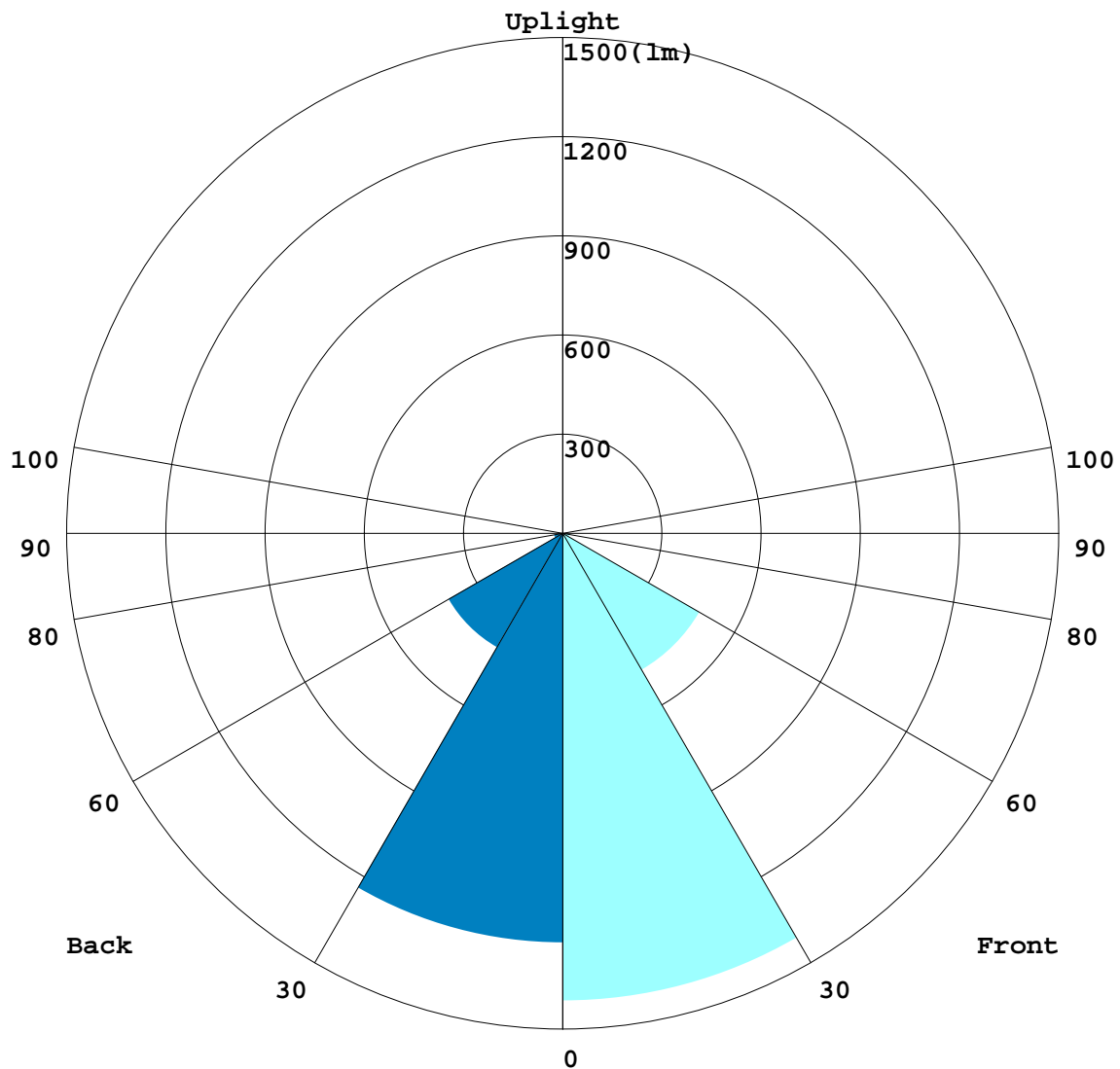
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 38.0%
Test Distance: 1.922m [K=1.0000]
Remarks: TG-211SLED40-12(5050 40K TS40)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:230.25V I:0.1813A P:39.780W PF:0.9528 Freq:50.01Hz Lamp Flux:3578.91x1 lm		
NAME: TG-211SLED40-12	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:2022-04-28

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: TG-211SLED40-12(5050 40K TS40)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:230.25V I:0.1813A P:39.780W PF:0.9528 Freq:50.01Hz Lamp Flux:3578.91x1 lm		
NAME: TG-211SLED40-12	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1414	39.5
FM - Front-Medium(30-60)	477.53	13.3
FH - Front-High(60-80)	22.328	0.6
FVH - Front-Very High(80-90)	0.2284	0.0
Total Forward Light	1914.4	53.5

BL - Back-Low(0-30)	1238.2	34.6
BM - Back-Medium(30-60)	398.4	11.1
BH - Back-High(60-80)	26.099	0.7
BVH - Back-Very High(80-90)	1.2532	0.0
Total Back Light	1664.5	46.5

UL - Uplight-Low(90-100)	0.10515	0.0
UH - Uplight-High(100-180)	0.81227	0.0
Total Up Light	0.91741	0.0

BUG(Back,Up,Glare) Rating	B3-U1-G0
---------------------------	----------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	1663.9	0.57299	1664.5
Street Side	1914.1	0.34443	1914.4

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-04-28

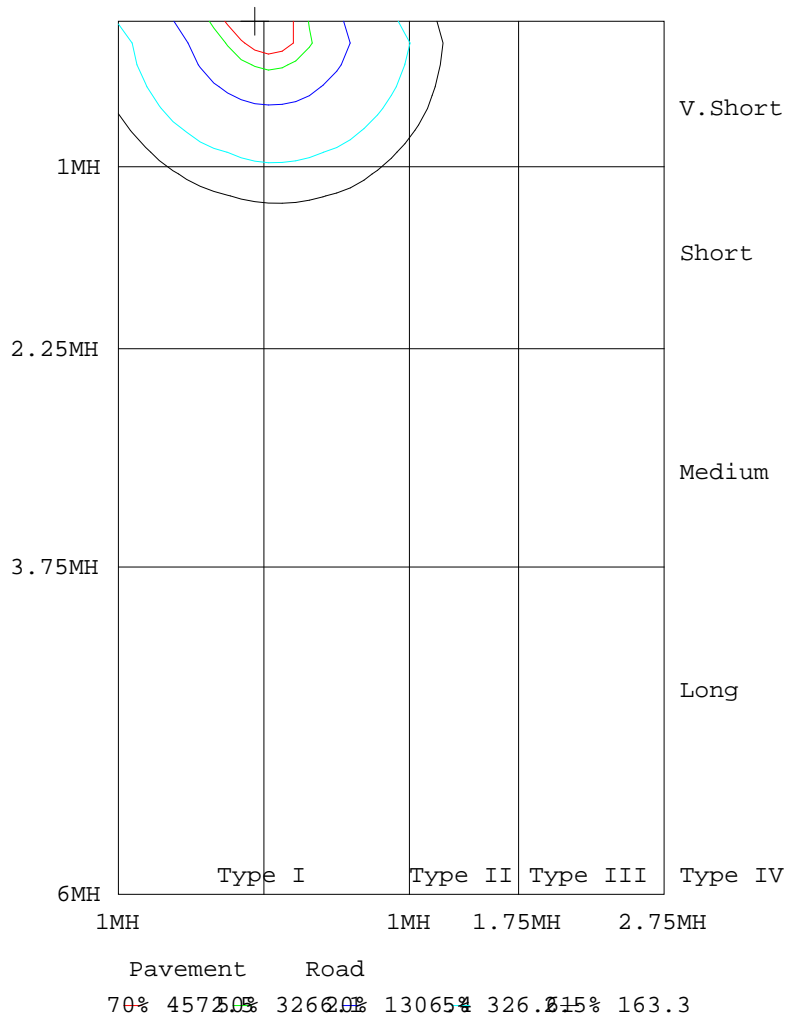
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:1.922m [K=1.0000]
 Remarks: TG-211SLED40-12(5050 40K TS40)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:230.25V I:0.1813A P:39.780W PF:0.9528 Freq:50.01Hz Lamp Flux:3578.91x1 lm		
NAME: TG-211SLED40-12	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:2022-04-28

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: TG-211SLED40-12(5050 40K TS40)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.25V I:0.1813A P:39.780W PF:0.9528 Freq:50.01Hz Lamp Flux:3578.91x1 lm		
NAME: TG-211SLED40-12	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	6540	6540	6540	6540	6540	6540	6540	6540	6540	6540	6540	6540	6540	6540	6540	6540	6540	6540	6540
5	6122	6178	6240	6298	6352	6398	6435	6455	6454	6444	6416	6379	6261	6199	6132	6079	6030	5990	5956
10	5184	5283	5389	5490	5578	5654	5708	5730	5734	5714	5670	5595	5397	5299	5206	5114	5045	4981	4936
15	3990	4096	4219	4329	4418	4511	4575	4612	4612	4599	4550	4454	4235	4125	4024	3920	3833	3770	3722
20	2875	2962	3053	3144	3229	3307	3361	3397	3391	3383	3338	3280	3086	2993	2891	2801	2726	2683	2657
25	1990	2069	2145	2218	2280	2338	2376	2389	2374	2369	2351	2308	2171	2104	2028	1944	1870	1829	1808
30	1248	1306	1367	1429	1473	1508	1530	1549	1549	1551	1545	1505	1396	1347	1298	1225	1182	1154	1138
35	770	806	854	898	912	920	935	944	955	971	968	935	868	836	809	773	732	705	690
40	470	499	523	554	559	563	567	574	580	598	592	573	532	510	492	473	447	427	417
45	290	306	322	335	338	339	338	345	351	361	360	350	327	315	302	290	273	265	260
50	181	192	201	201	203	195	187	199	211	217	223	219	204	199	191	178	170	164	161
55	109	114	120	116	107	102	103	105	113	127	136	133	125	123	118	106	104	98.2	95.0
60	66.0	68.0	65.9	60.2	60.8	57.6	57.1	60.2	65.5	66.1	74.5	77.8	74.2	72.6	67.7	64.0	60.2	58.5	56.1
65	43.6	42.0	37.2	34.2	30.0	26.8	26.4	28.3	33.5	37.9	43.1	47.9	47.8	47.3	41.9	37.6	37.6	38.7	36.5
70	24.1	21.8	17.7	15.3	12.7	11.4	10.6	12.4	14.3	18.9	21.8	27.1	27.3	28.4	25.4	23.3	22.0	21.6	19.9
75	10.4	8.20	6.73	5.33	3.88	2.86	2.77	3.01	4.21	6.67	9.24	11.4	12.6	14.0	12.5	12.7	10.9	10.1	9.32
80	2.89	2.39	1.73	1.22	1.01	0.86	0.80	1.01	1.27	1.63	2.15	3.07	3.62	4.62	5.27	5.51	4.87	4.87	4.74
85	0.77	0.37	0.08	0.02	0.01	0.01	0.01	0.01	0.01	0.04	0.31	0.70	1.10	1.81	2.31	2.68	2.92	2.92	2.82
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.27	0.49	0.65	0.71	0.78	0.80
95	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.07	0.24	0.35	0.36
100	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
105	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02
110	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02
115	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
120	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.02	0.02	0.04	0.04
125	0.08	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.05	0.04	0.05	0.03	0.04	0.04	0.06	0.05
130	0.11	0.08	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.06	0.07	0.06	0.08	0.05	0.06	0.07	0.08	0.08
135	0.14	0.12	0.10	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.09	0.10	0.10	0.14	0.09	0.09	0.13	0.13	0.12
140	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.12	0.34	0.15	0.17	0.22	0.15	0.20	0.16	0.18	0.19
145	0.25	0.23	0.29	0.22	0.18	0.18	0.18	0.18	0.18	0.18	0.40	0.21	0.27	0.32	0.35	0.27	0.27	0.28	0.28
150	0.32	0.29	0.29	0.31	0.27	0.26	0.25	0.25	0.25	0.41	0.29	0.29	0.40	0.45	0.52	0.45	0.43	0.43	0.44
155	0.41	0.39	0.36	0.37	0.36	0.35	0.34	0.34	0.35	0.36	0.37	0.37	0.55	0.62	0.63	0.66	0.62	0.60	0.60
160	0.51	0.49	0.48	0.47	0.46	0.47	0.45	0.45	0.45	0.46	0.47	0.47	0.71	0.74	0.75	0.78	0.79	0.75	0.75
165	0.59	0.63	0.61	0.58	0.59	0.56	0.55	0.55	0.56	0.56	0.57	0.57	0.84	0.86	0.90	0.89	0.90	0.86	0.86
170	0.62	0.62	0.61	0.61	0.61	0.60	0.61	0.61	0.61	0.61	0.61	0.67	0.89	0.92	0.92	0.94	0.90	0.89	0.88
175	0.50	0.51	0.53	0.57	0.53	0.53	0.53	0.53	0.53	0.54	0.58	0.52	0.75	0.77	0.77	0.77	0.76	0.76	0.76
180	0.70	0.71	0.71	0.70	0.69	0.67	0.67	0.66	0.67	0.68	0.68	0.67	0.68	0.69	0.69	0.69	0.68	0.68	0.68

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-04-28

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: TG-211SLED40-12(5050 40K TS40)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.25V I:0.1813A P:39.780W PF:0.9528 Freq:50.01Hz Lamp Flux:3578.91x1 lm		
NAME: TG-211SLED40-12	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	6540	6540	6540	6540	6540														
5	5939	5936	5951	5979	6016														
10	4907	4897	4917	4958	5014														
15	3694	3680	3705	3743	3803														
20	2639	2633	2645	2671	2715														
25	1793	1793	1805	1826	1864														
30	1132	1135	1141	1158	1178														
35	692	701	710	714	722														
40	418	423	434	435	440														
45	258	259	264	267	274														
50	161	161	161	168	172														
55	94.7	96.0	94.6	101	103														
60	56.3	55.7	57.0	58.7	63.0														
65	36.9	34.3	32.8	36.3	41.5														
70	19.8	19.6	21.1	21.8	23.6														
75	9.39	9.41	10.6	10.9	10.9														
80	4.62	4.46	4.29	3.97	3.30														
85	2.74	2.55	2.17	1.74	1.21														
90	0.78	0.68	0.52	0.33	0.12														
95	0.28	0.11	0.01	0.01	0.01														
100	0.02	0.01	0.02	0.01	0.01														
105	0.02	0.02	0.02	0.01	0.02														
110	0.02	0.03	0.03	0.01	0.02														
115	0.03	0.03	0.02	0.02	0.02														
120	0.04	0.04	0.02	0.02	0.03														
125	0.05	0.06	0.04	0.03	0.06														
130	0.07	0.07	0.06	0.05	0.10														
135	0.10	0.09	0.09	0.09	0.14														
140	0.17	0.17	0.17	0.17	0.16														
145	0.28	0.28	0.28	0.29	0.32														
150	0.44	0.44	0.45	0.44	0.47														
155	0.63	0.61	0.66	0.67	0.63														
160	0.76	0.76	0.81	0.79	0.76														
165	0.86	0.86	0.88	0.88	0.87														
170	0.88	0.88	0.88	0.89	0.90														
175	0.75	0.73	0.71	0.71	0.71														
180	0.67	0.67	0.66	0.66	0.65														

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-04-28

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: TG-211SLED40-12(5050 40K TS40)