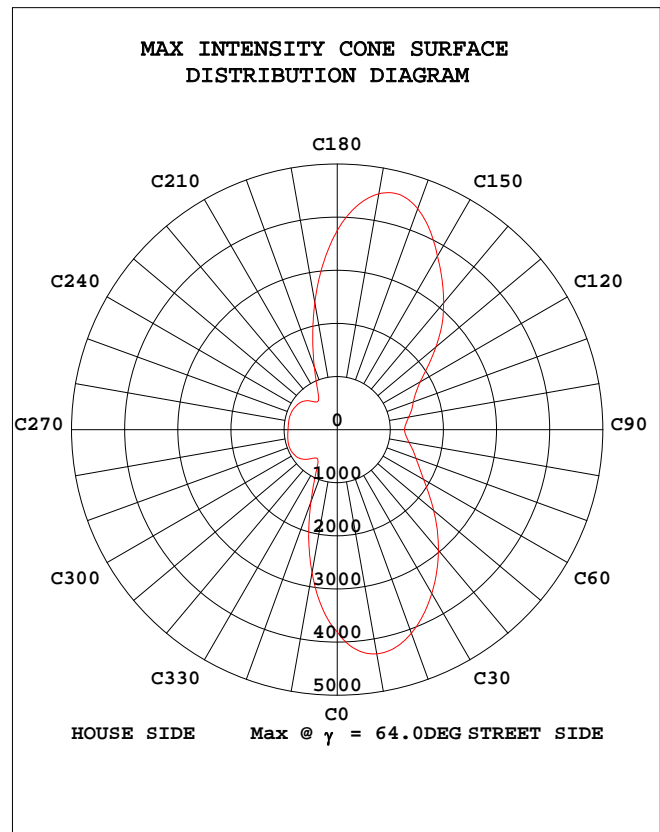
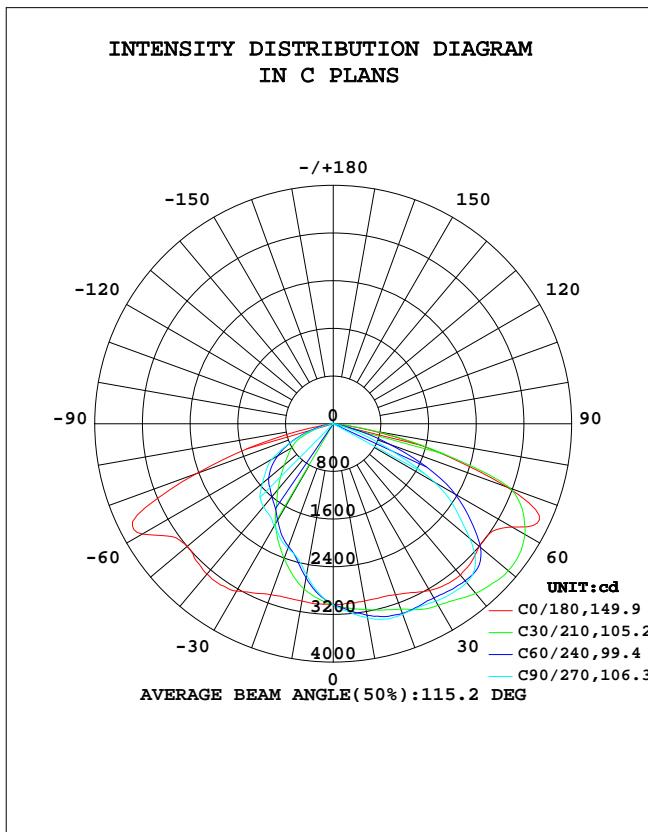


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.15V I:0.3973A P:79.818W PF:0.9127 Freq:50.01Hz Lamp Flux:11102.5x1 lm		
NAME: LY5050 40K RA70 T3D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 139.10 lm/W			
MODEL	LY5050 40K RA70 T3D	Imax(cd)	4578	η street_up(%)	0.1
NOMINAL POWER(W)	80	LOR(%)	100.0	η street_down(%)	65.1
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	11102	η house_up(%)	0.2
NOMINAL FLUX(lm)	11102.5	MAXIMUM @(C, γ)	165,64.0	η house_down(%)	34.7
LAMPS INSIDE	1	η up(%)	0.2	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	η down(%)	99.8	SLI	20.850



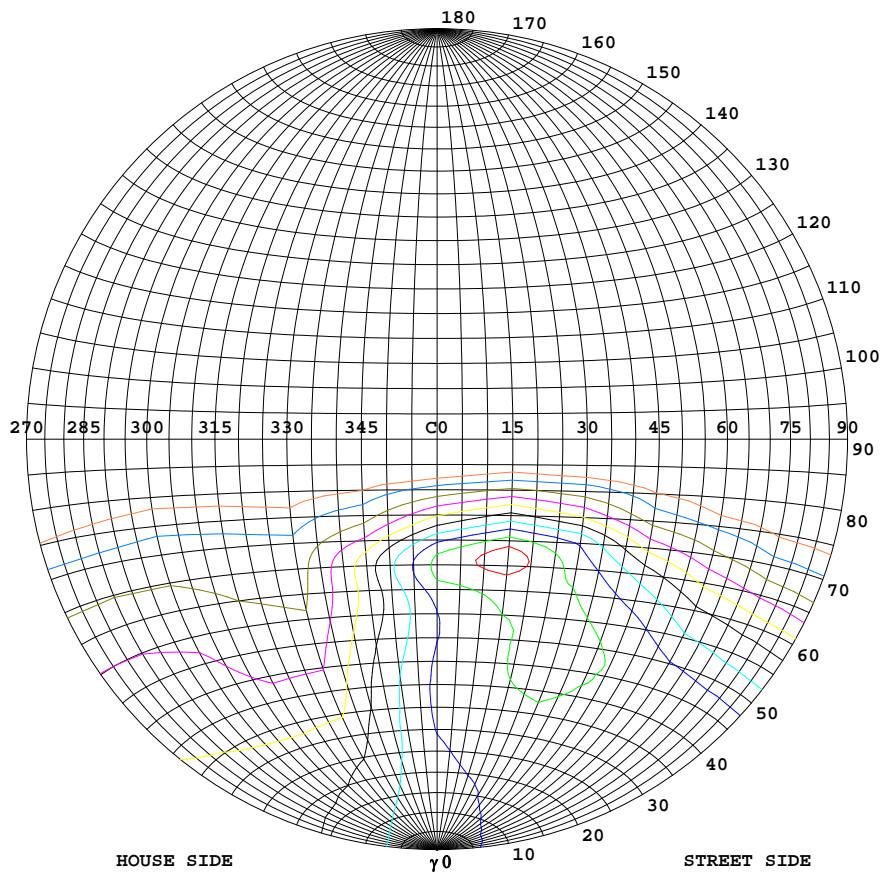
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 0.0DEG
Operators:CS01
Test Date:2021-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 0.0%
Test Distance:26.000m [K=1.0000]
Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.15V I:0.3973A P:79.818W PF:0.9127 Freq:50.01Hz Lamp Flux:11102.5x1 lm		
NAME: LY5050 40K RA70 T3D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



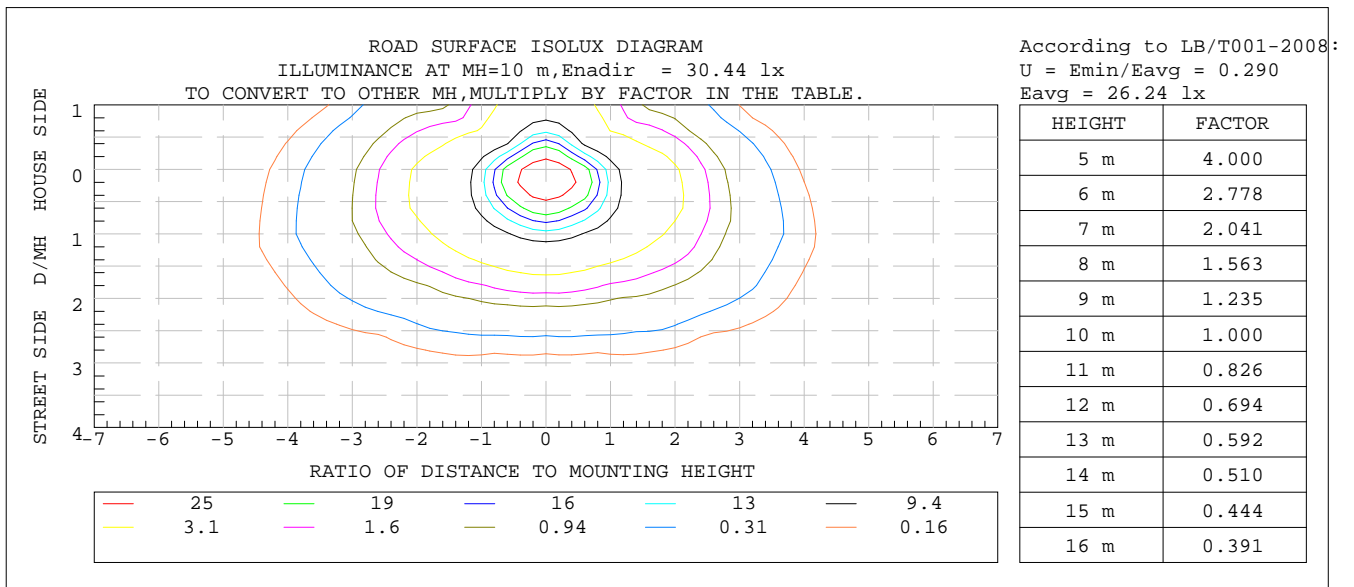
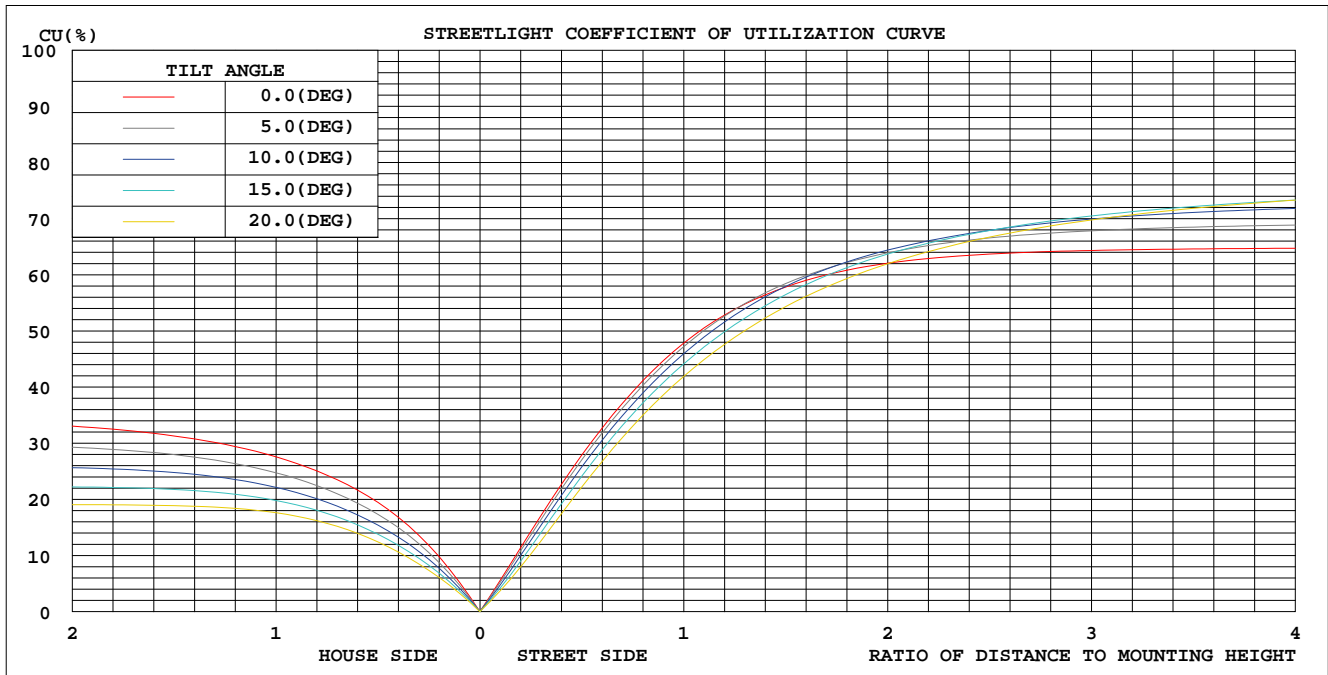
Classification:

IES:Type II - Short
 CIE:Narrow - Intermediate
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:91.61cd/klm
 Max.At90:0.1854cd/klm
 Max.80-90:91.61cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4578
90%	4120
80%	3662
70%	3205
60%	2747
50%	2289
40%	1831
30%	1373
20%	916
10%	458
5%	229

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0.0DEG
 Operators:CS01
 Test Date:2021-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 0.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)

COEFFICIENT OF UTILIZATION CURVE
AND ISOLUX DIAGRAM

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 0.0DEG
Operators: CS01
Test Date: 2021-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 0.0%
Test Distance: 26.000m [K=1.0000]
Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:220.15V I:0.3973A P:79.818W PF:0.9127 Freq:50.01Hz Lamp Flux:11102.5x1 lm		
NAME: LY5050 40K RA70 T3D	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	3020	3215	3304	3205	3022	2698	2579	2721	0- 10	286.4	286.4	2.58,2.58
20	3051	3359	3404	3367	3054	2232	2225	2283	10- 20	825.1	1112	10,10
30	3233	3437	3436	3516	3240	1852	1978	1931	20- 30	1313	2425	21.8,21.8
40	3318	3587	3480	3722	3292	1442	1819	1506	30- 40	1736	4160	37.5,37.5
50	3199	3601	2990	3762	3200	1157	1551	1169	40- 50	2049	6209	55.9,55.9
60	3468	3042	1969	3168	3700	904.3	1186	912.3	50- 60	2113	8322	75,75
70	3101	1680	513.4	1856	2436	534.6	544.8	567.4	60- 70	1878	10200	91.9,91.9
80	625.2	238.0	77.93	197.0	263.8	122.8	86.60	150.3	70- 80	808.9	11009	99.2,99.2
90	1.982	1.134	0.8020	1.050	1.908	1.101	0.7016	1.150	80- 90	67.38	11076	99.8,99.8
100	3.354	1.000	0.7519	0.9501	3.918	2.857	1.305	2.605	90-100	1.683	11078	99.8,99.8
110	5.320	1.250	1.905	1.399	4.819	5.253	3.108	4.401	100-110	2.837	11081	99.8,99.8
120	6.071	1.999	2.652	1.851	5.878	6.054	5.269	5.556	110-120	3.878	11085	99.8,99.8
130	6.726	2.151	3.258	2.450	6.876	6.802	7.119	6.602	120-130	4.427	11089	99.9,99.9
140	6.775	2.998	3.509	3.490	6.926	7.250	7.619	6.901	130-140	4.258	11093	99.9,99.9
150	7.027	4.299	3.759	4.351	6.675	7.052	7.273	7.051	140-150	3.701	11097	100,100
160	6.374	5.300	5.111	5.100	6.677	7.003	7.369	7.052	150-160	2.795	11100	100,100
170	7.972	6.750	6.765	6.701	8.382	8.202	8.419	7.551	160-170	1.896	11102	100,100
180	8.332	7.502	7.568	7.198	8.332	7.551	7.567	6.801	170-180	0.7302	11102	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

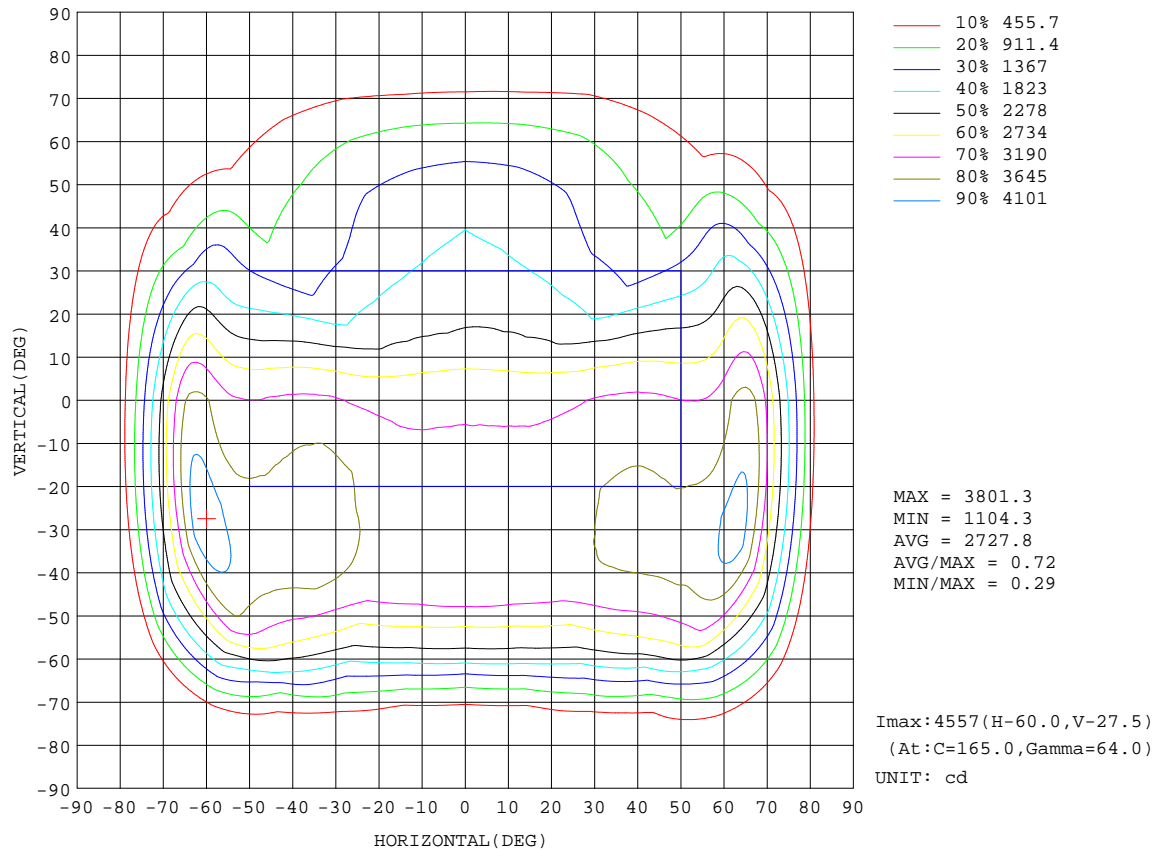
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0.0DEG
 Operators:CS01
 Test Date:2021-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 0.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

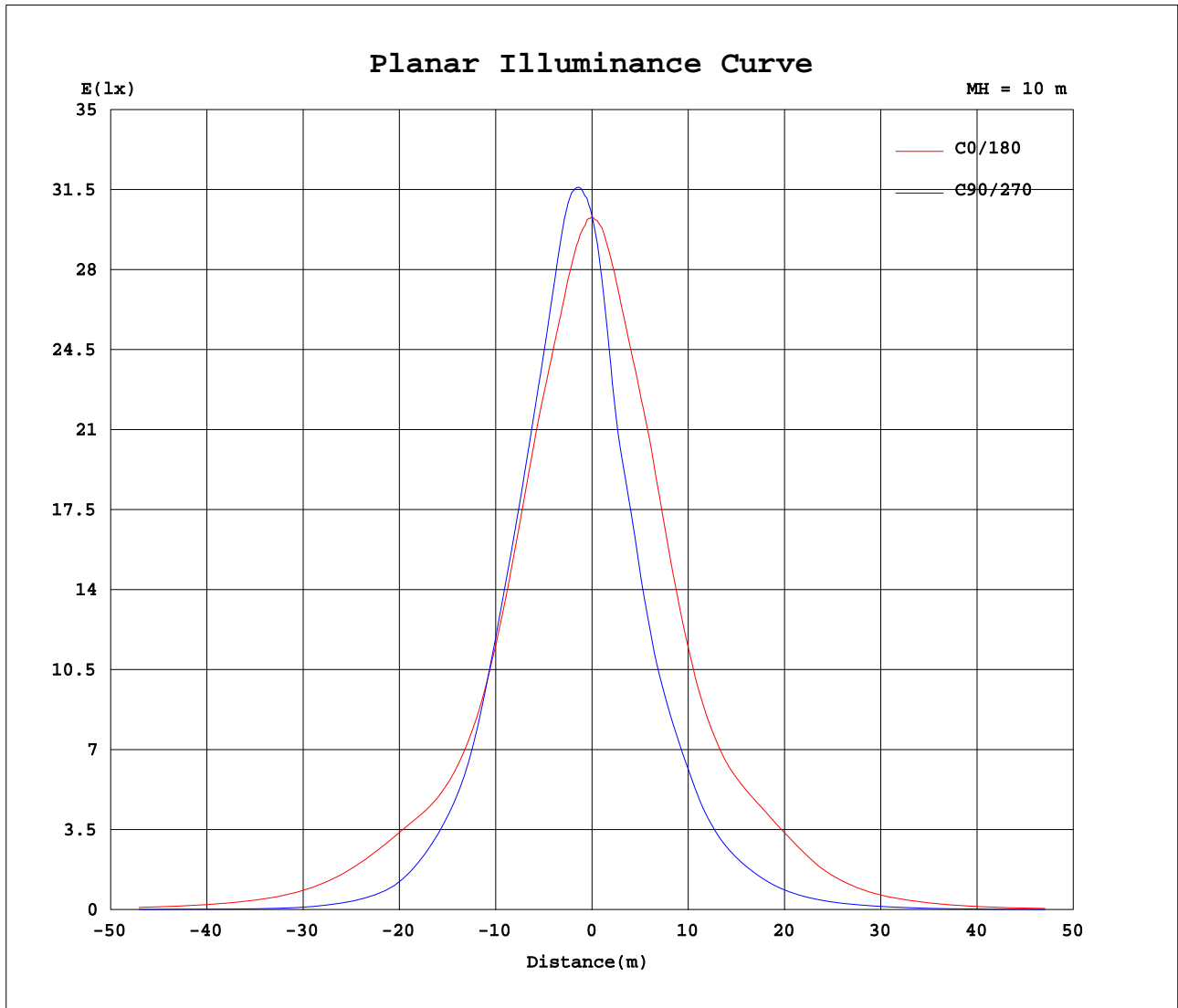
Test:U:220.15V I:0.3973A P:79.818W PF:0.9127 Freq:50.01Hz Lamp Flux:11102.5x1 lm		
NAME: LY5050 40K RA70 T3D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 0.0DEG
Operators: CS01
Test Date: 2021-06-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 0.0%
Test Distance: 26.000m [K=1.0000]
Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 0.0DEG
Operators: CS01
Test Date: 2021-06-25

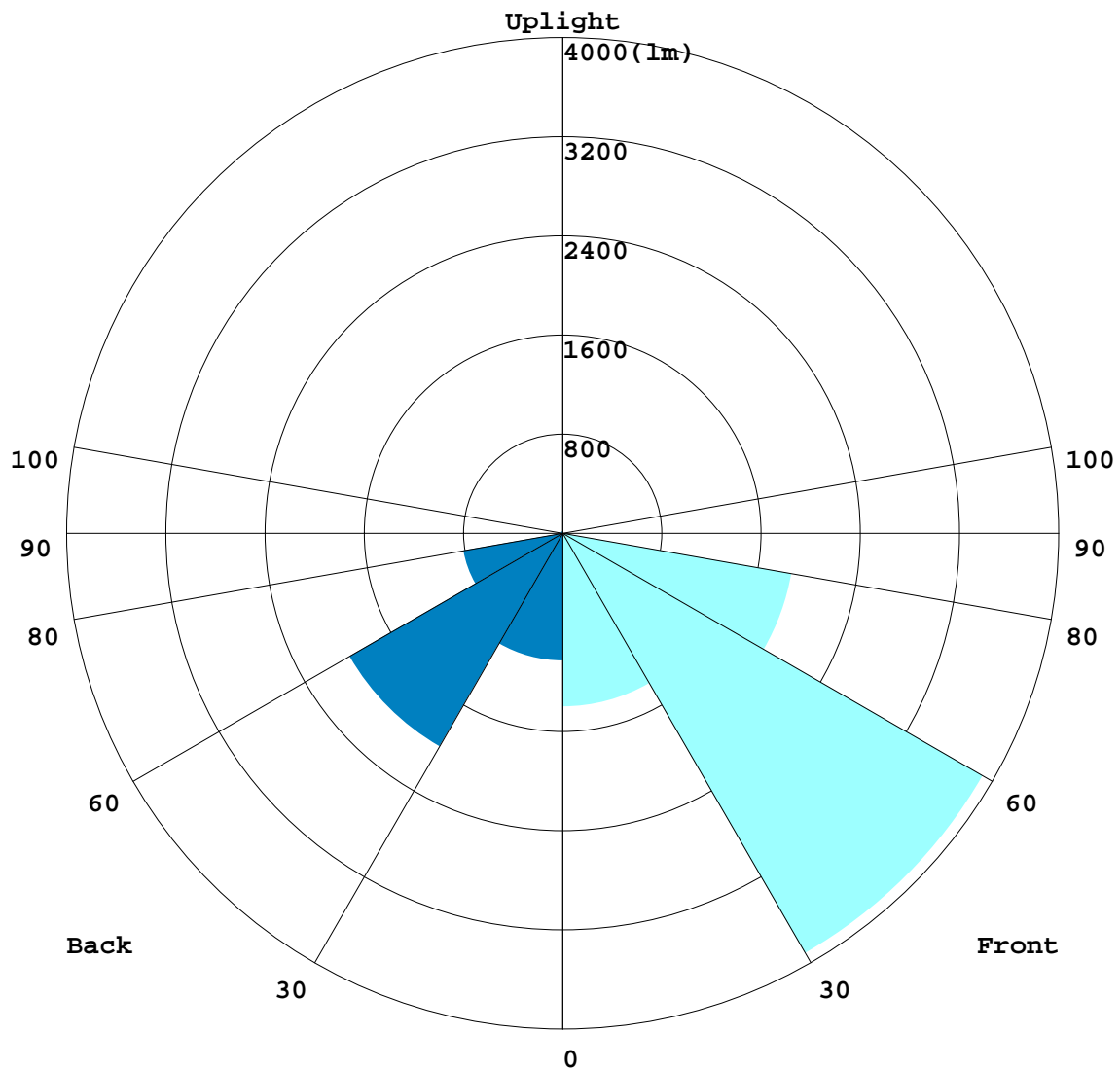
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 0.0%
Test Distance: 26.000m [K=1.0000]
Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:220.15V I:0.3973A P:79.818W PF:0.9127 Freq:50.01Hz Lamp Flux:11102.5x1 lm		
NAME: LY5050 40K RA70 T3D	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: 0.0DEG
Operators:CS01
Test Date:2021-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 0.0%
Test Distance:26.000m [K=1.0000]
Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:220.15V I:0.3973A P:79.818W PF:0.9127 Freq:50.01Hz Lamp Flux:11102.5x1 lm		
NAME: LY5050 40K RA70 T3D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1397.7	12.6
FM - Front-Medium(30-60)	3911.6	35.2
FH - Front-High(60-80)	1873.5	16.9
FVH - Front-Very High(80-90)	45.403	0.4
Total Forward Light	7237.8	65.2

BL - Back-Low(0-30)	1027.1	9.3
BM - Back-Medium(30-60)	1985.9	17.9
BH - Back-High(60-80)	812.98	7.3
BVH - Back-Very High(80-90)	21.979	0.2
Total Back Light	3864.7	34.8

UL - Uplight-Low(90-100)	1.6827	0.0
UH - Uplight-High(100-180)	24.522	0.2
Total Up Light	26.204	0.2

BUG(Back,Up,Glare) Rating	B3-U2-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3848	16.734	3864.7
Street Side	7228.3	9.4703	7237.8

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0.0DEG
 Operators:CS01
 Test Date:2021-06-25

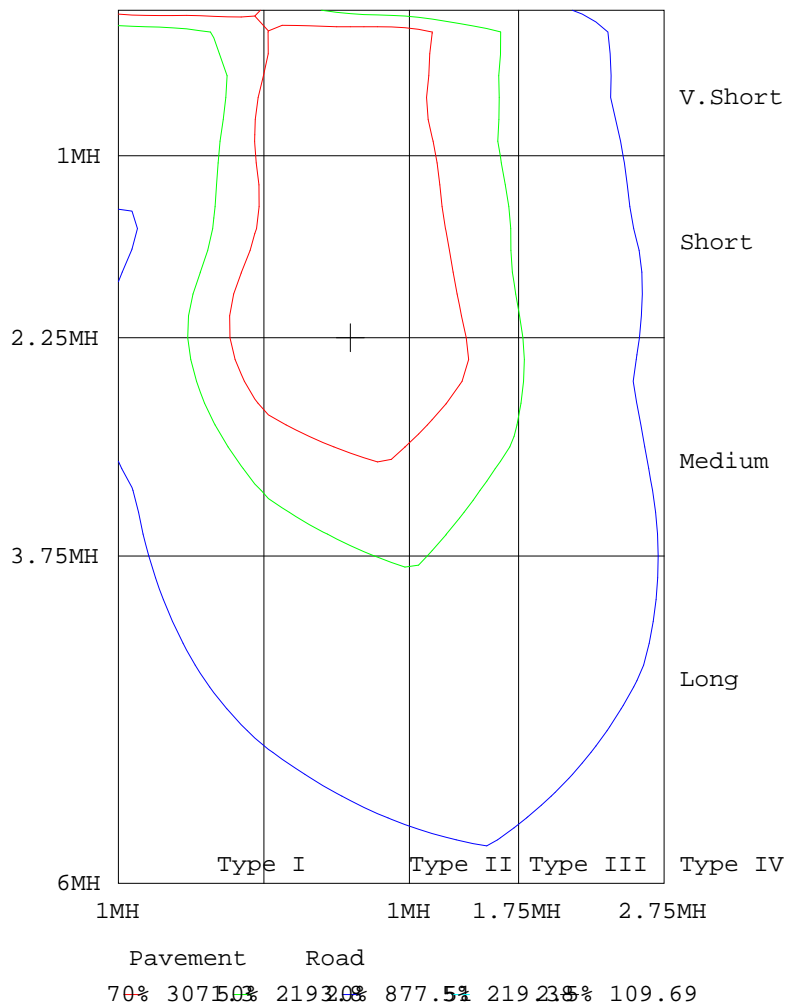
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 0.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:220.15V I:0.3973A P:79.818W PF:0.9127 Freq:50.01Hz Lamp Flux:11102.5x1 lm		
NAME: LY5050 40K RA70 T3D	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: 0.0DEG
 Operators:CS01
 Test Date:2021-06-25

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 0.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.15V I:0.3973A P:79.818W PF:0.9127 Freq:50.01Hz Lamp Flux:11102.5x1 lm																			
NAME: LY5050 40K RA70 T3D										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	3037	3037	3037	3037	3037	3037	3037	3037	3037	3037	3037	3037	3037	3037	3037	3037	3037	3037	3037
5	3024	3071	3106	3121	3146	3170	3173	3160	3145	3115	3082	3062	3033	2981	2943	2893	2869	2852	2846
10	3020	3106	3167	3215	3261	3299	3304	3281	3249	3205	3142	3086	3022	2915	2818	2698	2628	2595	2579
15	3022	3140	3238	3302	3350	3378	3392	3375	3331	3291	3219	3143	3022	2835	2629	2457	2359	2321	2326
20	3051	3218	3309	3359	3390	3406	3404	3400	3381	3367	3343	3257	3054	2739	2408	2232	2192	2204	2225
25	3124	3363	3438	3395	3380	3389	3395	3393	3366	3451	3514	3425	3136	2649	2182	2038	2053	2095	2114
30	3233	3463	3516	3437	3376	3410	3436	3402	3366	3516	3630	3562	3240	2587	1941	1852	1868	1940	1978
35	3291	3538	3603	3500	3412	3459	3473	3443	3394	3605	3773	3662	3302	2503	1660	1626	1706	1817	1870
40	3318	3614	3717	3587	3439	3464	3480	3453	3447	3722	3846	3694	3292	2392	1447	1442	1602	1756	1819
45	3277	3631	3783	3632	3425	3385	3368	3374	3435	3774	3893	3651	3251	2228	1246	1285	1509	1680	1739
50	3199	3621	3833	3601	3226	3052	2990	3051	3218	3762	3930	3644	3200	2054	1073	1157	1412	1525	1551
55	3206	3664	3814	3419	2806	2586	2511	2579	2784	3567	3928	3724	3300	1904	930	1042	1267	1348	1379
60	3468	3843	3711	3042	2360	2085	1969	2071	2327	3168	3866	4122	3700	1870	806	904	1075	1161	1186
65	3818	4359	3515	2543	1740	1302	1112	1279	1657	2673	3752	4507	3626	1690	672	739	846	864	859
70	3101	3871	3157	1680	1007	621	513	618	978	1856	3098	3266	2436	935	444	535	579	546	545
75	1792	2443	1849	760	389	208	182	203	397	733	1750	1986	1219	434	248	302	321	270	243
80	625	1017	711	238	109	89.5	77.9	84.7	97.7	197	477	524	264	125	106	123	125	99.9	86.6
85	78.8	124	62.1	32.8	26.9	21.2	17.8	18.4	19.4	22.3	39.4	50.4	27.5	19.5	18.2	19.6	20.8	19.8	18.9
90	1.98	1.77	1.41	1.13	0.85	0.81	0.80	0.80	0.90	1.05	1.15	1.46	1.91	2.06	1.71	1.10	0.80	0.70	0.70
95	1.96	1.40	1.05	1.00	0.85	0.75	0.75	0.80	0.85	0.95	1.05	1.45	2.71	3.26	2.87	1.75	1.10	0.81	0.80
100	3.35	1.55	1.05	1.00	0.90	0.90	0.75	0.85	1.00	0.95	1.05	2.01	3.92	4.62	4.16	2.86	1.85	1.41	1.30
105	4.47	2.35	1.10	1.10	1.10	1.36	1.15	1.20	1.15	1.10	1.30	2.91	4.32	4.97	4.96	4.11	2.81	2.26	2.01
110	5.32	3.16	1.45	1.25	1.65	1.85	1.90	1.90	2.00	1.40	1.90	3.66	4.82	5.72	5.81	5.25	4.10	3.37	3.11
115	5.52	3.46	1.90	1.40	2.05	1.96	1.95	2.00	2.10	1.70	2.25	4.31	5.28	6.07	6.52	5.75	5.05	4.42	3.97
120	6.07	4.25	2.25	2.00	2.05	2.31	2.65	2.45	2.10	1.85	2.75	4.41	5.88	6.57	6.97	6.05	5.45	5.18	5.27
125	6.73	4.36	2.76	1.95	2.55	2.76	2.91	2.85	2.65	2.40	2.76	5.26	6.88	7.42	7.12	6.80	6.35	6.38	6.12
130	6.73	4.41	3.06	2.15	2.85	2.91	3.26	2.95	2.70	2.45	3.01	5.22	6.88	7.42	7.32	6.80	7.05	7.18	7.12
135	6.73	4.61	3.61	2.75	2.80	3.06	3.51	3.00	2.74	2.80	3.61	5.17	6.93	7.62	7.67	7.00	7.15	7.18	7.62
140	6.77	5.11	4.26	3.00	3.10	3.56	3.51	3.45	3.24	3.49	4.36	5.36	6.93	7.57	7.67	7.25	7.20	7.54	7.62
145	7.03	5.67	4.56	3.65	3.55	3.71	3.71	3.80	3.54	3.95	4.86	5.87	6.93	7.52	7.57	7.20	7.35	7.58	7.22
150	7.03	5.97	5.01	4.30	3.95	4.26	3.76	4.36	4.19	4.35	5.16	5.87	6.68	6.87	6.92	7.05	7.10	7.58	7.27
155	6.48	5.97	5.21	4.85	4.40	4.42	4.51	4.35	4.44	4.50	5.11	5.82	6.47	6.62	6.67	7.00	6.85	7.58	7.62
160	6.37	5.97	5.56	5.30	4.94	5.07	5.11	4.80	4.64	5.10	5.36	5.77	6.68	6.82	6.72	7.00	6.85	7.64	7.37
165	6.62	6.21	6.06	5.85	5.59	5.77	5.81	5.50	5.29	6.00	6.06	5.92	7.13	7.13	7.13	7.31	7.15	7.79	7.43
170	7.97	7.47	7.31	6.75	6.70	6.78	6.77	6.66	6.19	6.70	7.02	7.57	8.38	8.32	8.37	8.20	7.95	7.89	8.42
175	8.33	7.87	7.52	7.25	7.05	7.43	7.17	7.41	6.74	6.95	7.32	7.67	8.38	8.32	8.32	7.90	7.85	7.89	8.32
180	8.33	7.92	7.52	7.50	7.40	7.53	7.57	7.56	6.74	7.20	7.27	7.67	8.33	8.32	7.92	7.55	7.50	7.38	7.57

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 0.0DEG
Operators:CS01
Test Date:2021-06-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 0.0%
Test Distance:26.000m [K=1.0000]
Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.15V I:0.3973A P:79.818W PF:0.9127 Freq:50.01Hz Lamp Flux:11102.5x1 lm		
NAME: LY5050 40K RA70 T3D	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	3037	3037	3037	3037	3037													
5	2848	2865	2904	2949	2993													
10	2596	2638	2721	2829	2936													
15	2347	2391	2501	2669	2870													
20	2230	2222	2283	2477	2797													
25	2111	2096	2104	2273	2718													
30	1964	1922	1931	2040	2654													
35	1833	1749	1714	1787	2578													
40	1756	1627	1506	1552	2512													
45	1687	1523	1319	1357	2395													
50	1546	1422	1169	1160	2251													
55	1365	1286	1044	974	2101													
60	1177	1109	912	825	2028													
65	891	890	754	711	2068													
70	572	630	567	541	1480													
75	295	368	347	293	713													
80	116	151	150	140	225													
85	24.1	30.5	31.0	32.2	40.4													
90	0.80	0.85	1.15	1.81	2.06													
95	0.85	1.15	1.75	2.71	3.07													
100	1.35	1.70	2.60	3.86	4.37													
105	2.10	2.50	3.46	4.42	4.77													
110	3.05	3.50	4.40	5.37	5.92													
115	4.16	4.64	5.26	6.12	6.17													
120	5.11	5.34	5.56	6.72	6.87													
125	6.01	6.20	6.30	6.82	7.33													
130	6.86	6.54	6.60	8.03	7.62													
135	7.21	6.59	6.75	8.07	7.62													
140	7.46	6.99	6.90	7.52	7.52													
145	7.51	7.34	7.05	7.52	7.57													
150	7.51	7.34	7.05	7.02	6.97													
155	7.21	7.34	7.05	7.02	6.77													
160	7.21	7.54	7.05	7.07	6.82													
165	8.01	7.84	7.25	7.23	7.03													
170	8.36	8.29	7.55	7.77	7.88													
175	8.31	7.79	7.50	7.67	7.72													
180	7.51	7.54	6.80	7.26	7.37													

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 0.0DEG
Operators:CS01
Test Date:2021-06-25

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity: 0.0%
Test Distance:26.000m [K=1.0000]
Remarks: D-191HLED80-36(LY5050 40K RA70 T3D)