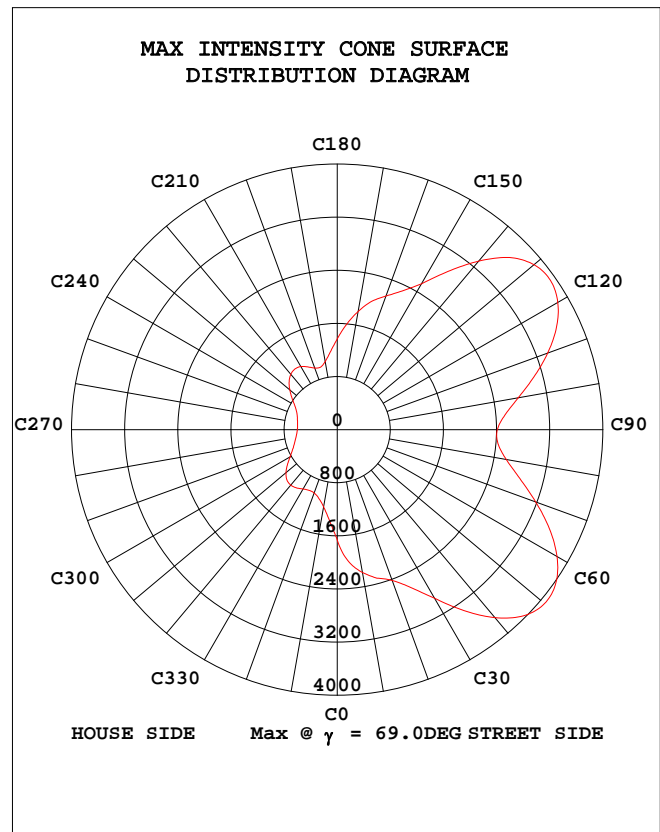
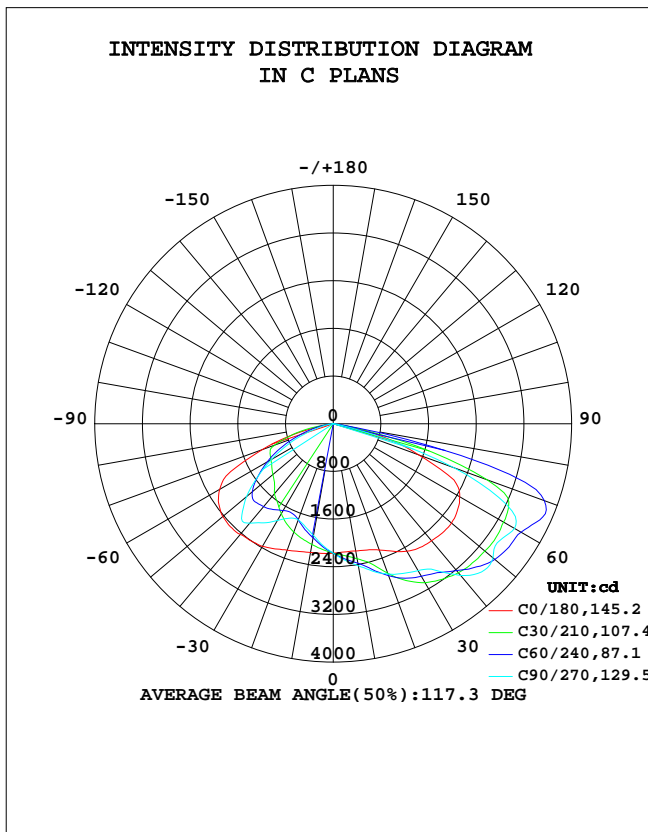


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:220.17V I:0.3970A P:79.796W PF:0.9130 Freq:50.01Hz Lamp Flux:10926.8x1 lm		
NAME: D-191HLED80-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 136.93 lm/W			
MODEL	LY5050 40K RA70 T4D	I _{max} (cd)	3965	η street_up(%)	0.1
NOMINAL POWER(W)	80	LOR(%)	100.0	η street_down(%)	66.1
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	10927	η house_up(%)	0.1
NOMINAL FLUX(lm)	10926.8	MAXIMUM @(C,γ)	45,69.0	η house_down(%)	33.7
LAMPS INSIDE	1	η up(%)	0.2	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	η down(%)	99.8	SLI	19.271



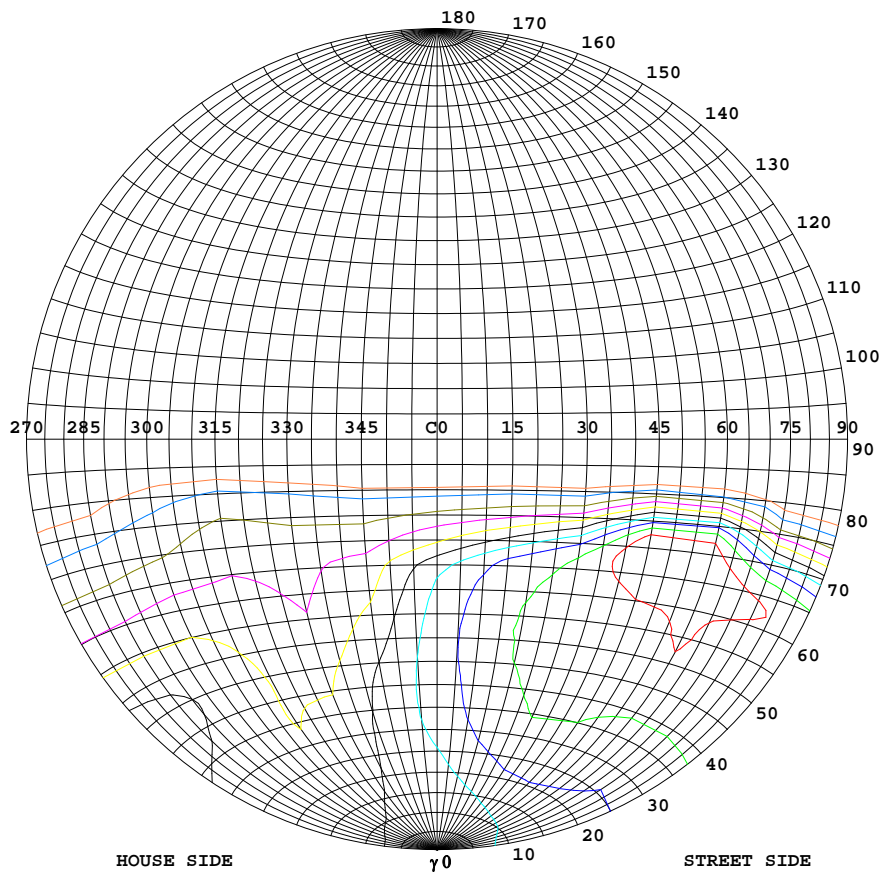
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 0.0DEG
Operators:CS01
Test Date:2021-06-25

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 T4D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:220.17V I:0.3970A P:79.796W PF:0.9130 Freq:50.01Hz Lamp Flux:10926.8x1 lm		
NAME: D-191HLED80-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



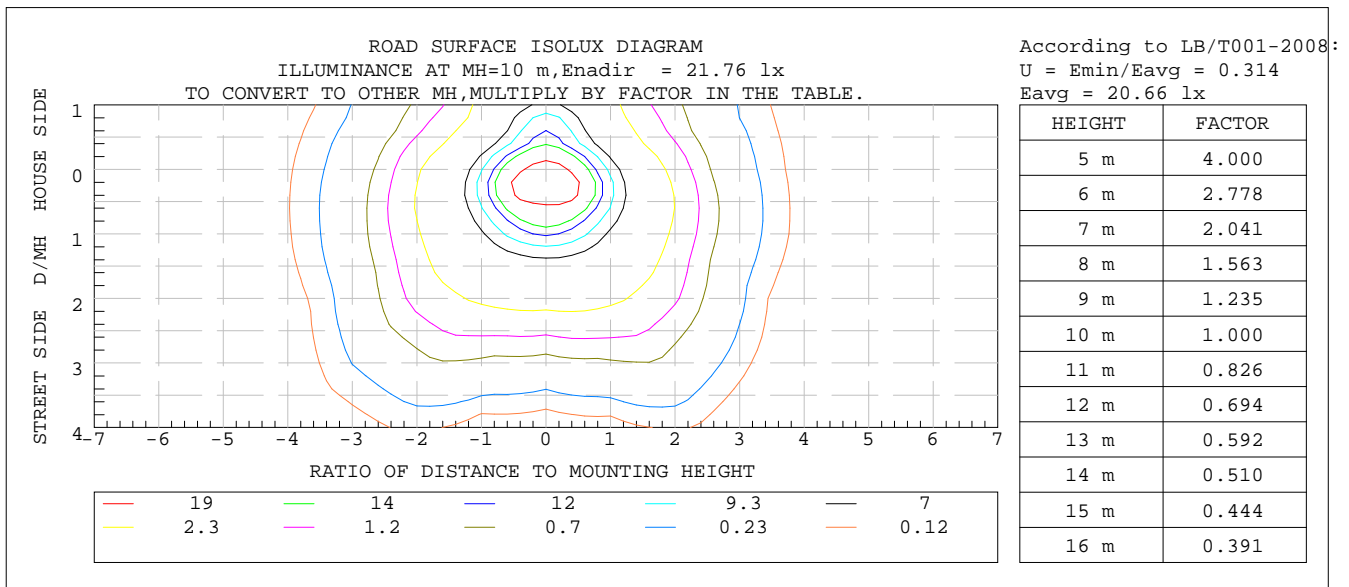
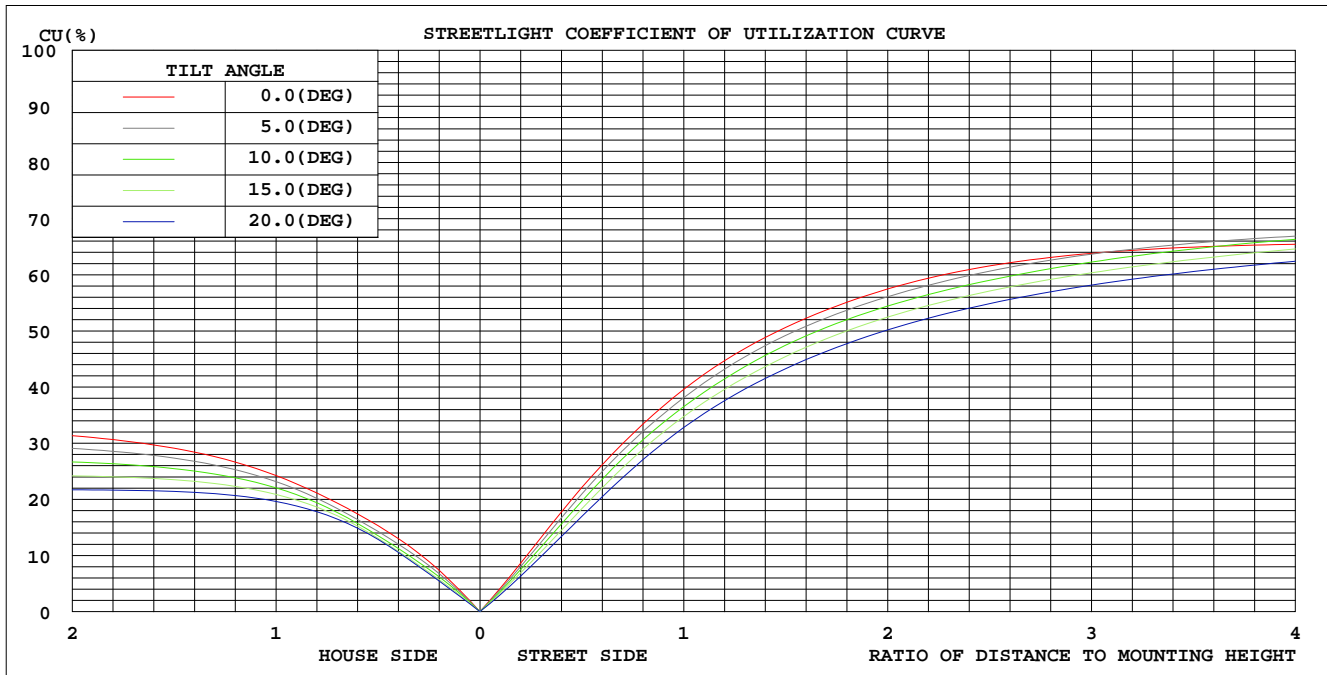
Classification:

IES:Type IV - Short
 CIE:Broad - Intermediate
 IES:Cut-off
 CIE:Semi-cut-off
 Max.At80:55.20cd/klm
 Max.At90:0.1883cd/klm
 Max.80-90:55.20cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3965
90%	3569
80%	3172
70%	2776
60%	2379
50%	1983
40%	1586
30%	1190
20%	793
10%	397
5%	198

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 T4D)

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 T4D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:220.17V I:0.3970A P:79.796W PF:0.9130 Freq:50.01Hz Lamp Flux:10926.8x1 lm		
NAME: D-191HLED80-36	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	2168	2345	2419	2385	2192	1997	1906	1993	0- 10	207.5	207.5	1.9,1.9
20	2255	2737	2683	2775	2259	1792	1718	1811	10- 20	626.9	834.5	7.64,7.64
30	2470	3088	2846	3126	2377	1585	1873	1609	20- 30	1075	1909	17.5,17.5
40	2564	3240	3323	3253	2424	1602	2179	1564	30- 40	1540	3448	31.6,31.6
50	2591	3382	3498	3355	2420	1550	1898	1505	40- 50	1970	5418	49.6,49.6
60	2450	3561	3512	3442	2200	1344	1195	1319	50- 60	2180	7598	69.5,69.5
70	1525	3931	2148	3579	1263	1003	533.9	1049	60- 70	2155	9752	89.3,89.3
80	229.1	603.2	103.4	266.6	135.8	378.1	109.2	441.4	70- 80	1084	10836	99.2,99.2
90	1.333	1.716	0.9523	1.551	1.203	2.057	1.003	1.804	80- 90	65.69	10902	99.8,99.8
100	2.046	1.552	0.8995	1.600	2.307	4.360	3.053	4.250	90-100	2.004	10904	99.8,99.8
110	3.408	1.852	1.995	2.149	3.559	5.808	6.246	5.502	100-110	3.260	10907	99.8,99.8
120	4.360	2.201	2.898	2.401	4.611	6.108	7.345	6.049	110-120	4.160	10911	99.9,99.9
130	5.112	2.753	3.598	2.849	5.613	6.157	7.546	5.950	120-130	4.317	10915	99.9,99.9
140	5.312	2.853	3.748	3.100	5.963	6.157	6.646	5.950	130-140	3.849	10919	99.9,99.9
150	5.813	3.602	3.748	3.650	5.412	5.857	5.996	5.950	140-150	3.171	10922	100,100
160	5.212	3.953	4.046	4.143	5.412	5.606	5.996	5.500	150-160	2.257	10925	100,100
170	6.060	5.155	5.147	5.001	6.465	6.207	6.497	6.000	160-170	1.478	10926	100,100
180	6.164	5.657	5.397	5.350	6.465	6.007	5.946	5.200	170-180	0.5582	10927	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

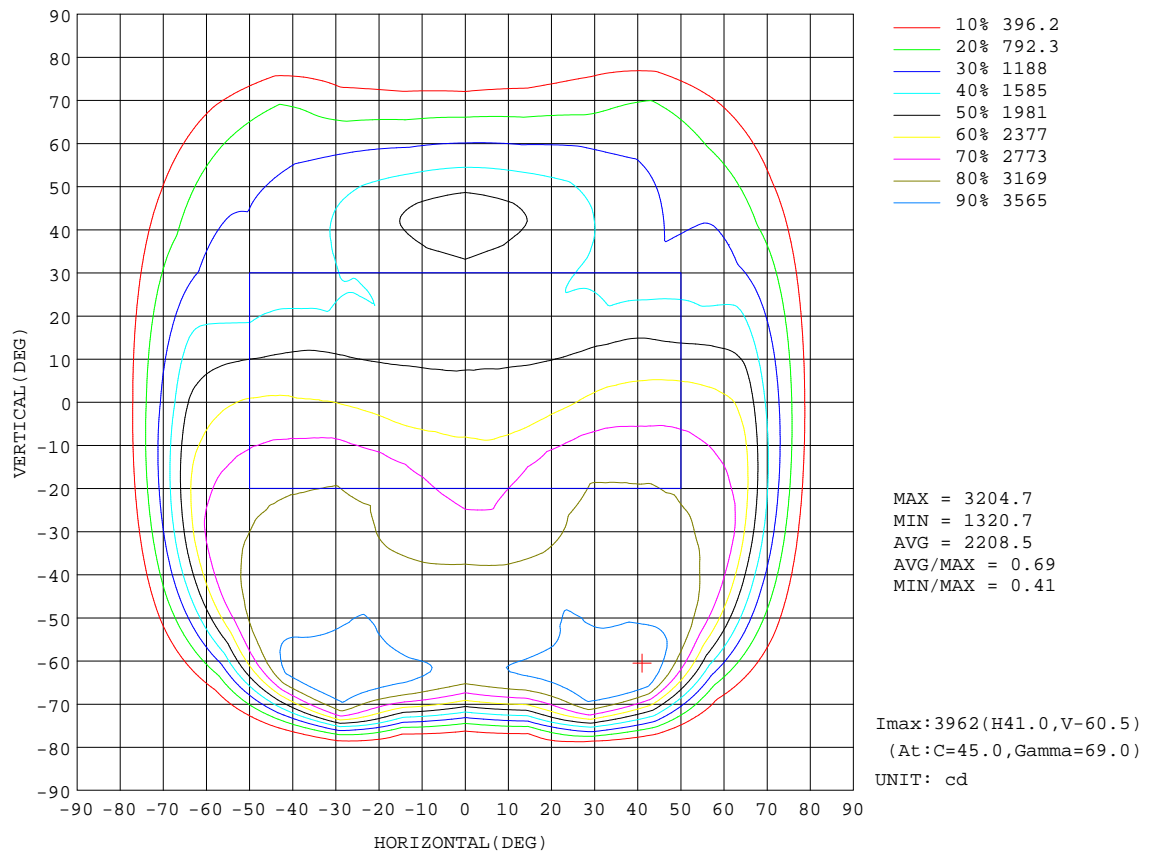
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 0.0DEG
 Operators:CS01
 Test Date:2021-06-25

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 T4D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

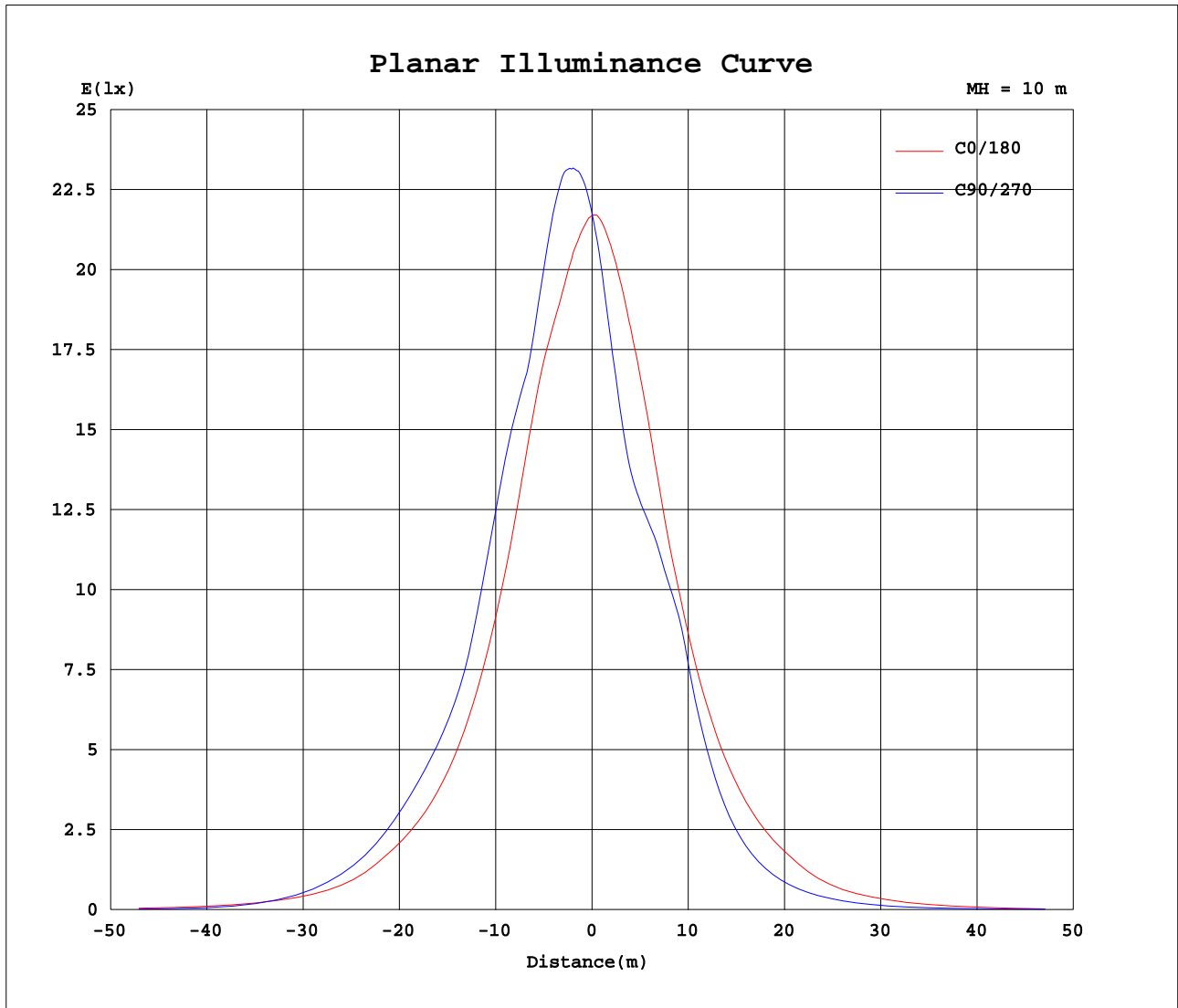
Test:U:220.17V I:0.3970A P:79.796W PF:0.9130 Freq:50.01Hz Lamp Flux:10926.8x1 lm		
NAME: D-191HLED80-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



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 T4D)

Planar Illuminance Curve



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

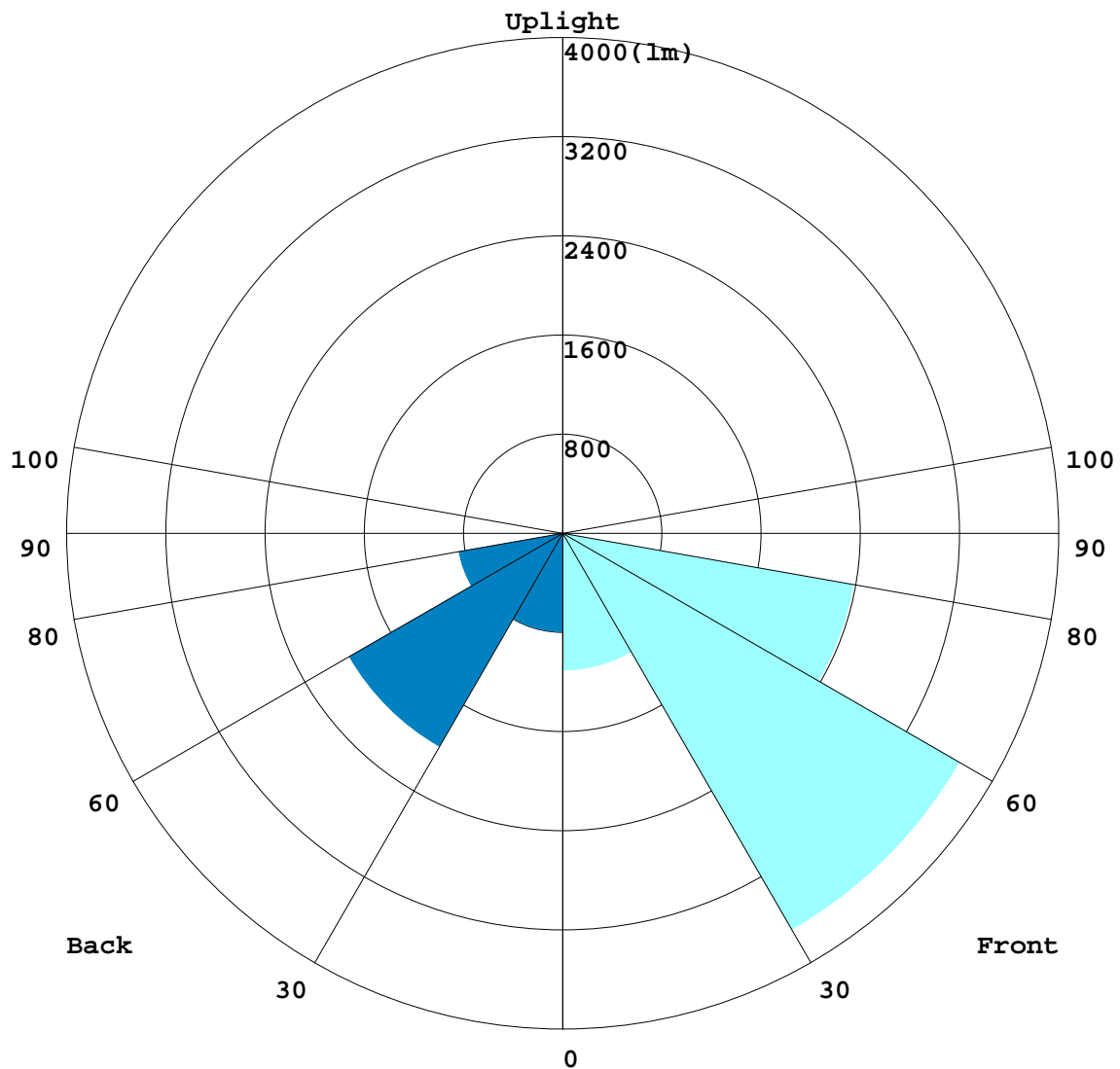
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 0.0%
 Test Distance: 26.000m [K=1.0000]
 Remarks: D-191HLED80-36(LY5050 40K RA70 T4D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:220.17V I:0.3970A P:79.796W PF:0.9130 Freq:50.01Hz Lamp Flux:10926.8x1 lm		
NAME: D-191HLED80-36	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 T4D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:220.17V I:0.3970A P:79.796W PF:0.9130 Freq:50.01Hz Lamp Flux:10926.8x1 lm		
NAME: D-191HLED80-36	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1108.8	10.1
FM - Front-Medium(30-60)	3697.8	33.8
FH - Front-High(60-80)	2385	21.8
FVH - Front-Very High(80-90)	31.223	0.3
Total Forward Light	7231.6	66.2

BL - Back-Low(0-30)	800.18	7.3
BM - Back-Medium(30-60)	1991	18.2
BH - Back-High(60-80)	853.31	7.8
BVH - Back-Very High(80-90)	34.462	0.3
Total Back Light	3695.2	33.8

UL - Uplight-Low(90-100)	2.0035	0.0
UH - Uplight-High(100-180)	23.048	0.2
Total Up Light	25.052	0.2

BUG(Back,Up,Glare) Rating	B2-U2-G2
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	3678.9	16.269	3695.2
Street Side	7222.8	8.7832	7231.6

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

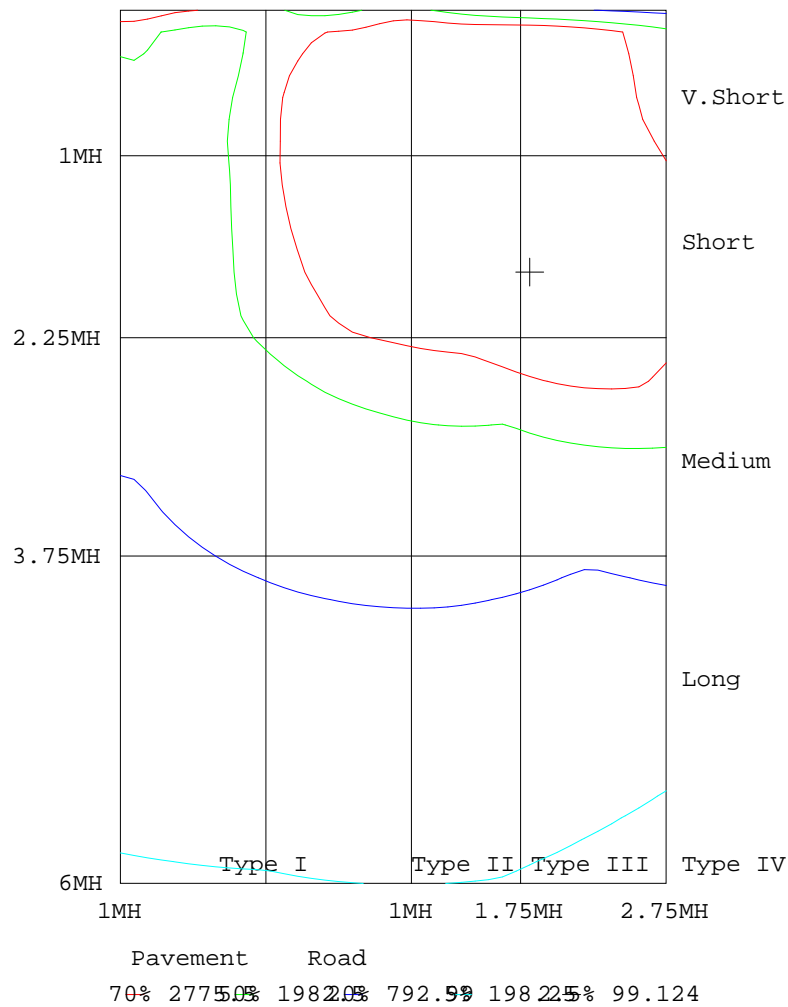
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity: 0.0%
 Test Distance:26.000m [K=1.0000]
 Remarks: D-191HLED80-36(LY5050 40K RA70 T4D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:220.17V I:0.3970A P:79.796W PF:0.9130 Freq:50.01Hz Lamp Flux:10926.8x1 lm		
NAME: D-191HLED80-36	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 T4D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.17V I:0.3970A P:79.796W PF:0.9130 Freq:50.01Hz Lamp Flux:10926.8x1 lm																			
NAME: D-191HLED80-36										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	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173	2173
5	2159	2199	2221	2253	2278	2291	2299	2299	2289	2267	2244	2213	2184	2147	2116	2093	2070	2051	2047
10	2168	2242	2298	2345	2376	2407	2419	2416	2407	2385	2334	2259	2192	2120	2056	1997	1946	1916	1906
15	2193	2320	2424	2497	2530	2542	2560	2577	2582	2550	2460	2330	2219	2103	2000	1904	1837	1801	1794
20	2255	2488	2668	2737	2711	2667	2683	2725	2773	2775	2670	2462	2259	2092	1935	1792	1716	1714	1718
25	2360	2686	2904	2951	2861	2766	2772	2833	2933	2975	2879	2618	2319	2084	1852	1654	1654	1719	1749
30	2470	2843	3080	3088	2955	2833	2846	2895	3032	3126	3063	2760	2377	2081	1742	1585	1681	1817	1873
35	2534	2970	3186	3172	3050	2971	3004	3023	3099	3214	3180	2863	2401	2045	1627	1574	1757	1947	2030
40	2564	3035	3264	3240	3216	3259	3323	3265	3230	3253	3260	2934	2424	1967	1536	1602	1816	2056	2179
45	2590	3103	3303	3300	3397	3481	3518	3460	3377	3289	3314	3004	2443	1829	1397	1603	1854	2079	2169
50	2591	3119	3322	3382	3541	3495	3498	3510	3501	3355	3348	3026	2420	1657	1323	1550	1771	1837	1898
55	2543	3116	3331	3464	3602	3431	3413	3471	3596	3381	3343	3007	2345	1499	1260	1475	1547	1520	1543
60	2450	3072	3300	3561	3640	3541	3512	3556	3705	3442	3295	2950	2200	1360	1208	1344	1279	1188	1195
65	2234	2924	3248	3831	3823	3508	3210	3609	3867	3653	3143	2714	1898	1240	1170	1150	987	869	861
70	1525	2117	2738	3931	3766	2601	2148	2813	3773	3579	2306	1814	1263	915	1045	1003	679	562	534
75	887	1113	1437	2663	2689	1013	650	1095	2784	1981	1026	879	663	589	704	784	406	281	259
80	229	282	262	603	412	127	103	134	397	267	147	133	136	162	284	378	196	121	109
85	37.7	38.9	38.6	41.8	41.2	30.2	24.8	27.0	32.1	26.4	23.7	22.2	18.7	19.1	27.9	38.1	37.8	23.7	23.2
90	1.33	1.33	1.46	1.72	1.44	1.07	0.95	1.10	1.35	1.55	1.35	1.10	1.20	1.30	1.50	2.06	1.91	1.10	1.00
95	1.15	1.20	1.35	1.55	1.25	0.85	0.90	1.00	1.25	1.55	1.30	1.10	1.56	1.90	2.35	3.41	3.31	2.10	1.76
100	2.05	1.35	1.35	1.55	1.25	1.00	0.90	1.20	1.25	1.60	1.30	1.40	2.31	3.01	3.55	4.36	4.61	3.71	3.05
105	2.70	1.95	1.55	1.70	1.35	1.25	1.20	1.35	1.74	2.00	1.90	1.95	2.91	3.66	4.26	5.06	5.32	5.01	4.50
110	3.41	2.50	1.85	1.85	2.00	1.90	2.00	1.95	2.24	2.15	2.11	2.75	3.56	4.46	4.95	5.81	6.67	6.41	6.25
115	3.71	2.75	2.15	2.10	2.20	2.35	2.10	2.40	2.70	2.40	2.66	3.35	4.11	4.76	5.51	5.96	6.86	7.06	6.45
120	4.36	3.25	2.40	2.20	2.60	2.80	2.90	2.75	2.80	2.40	2.86	3.55	4.61	5.26	6.20	6.11	6.61	7.11	7.34
125	5.05	3.55	2.80	2.75	2.90	3.30	3.45	3.45	2.90	2.70	2.96	4.15	5.37	6.06	6.30	6.51	6.76	7.31	7.30
130	5.11	3.70	2.95	2.75	2.96	3.45	3.60	3.45	3.09	2.85	3.01	4.10	5.61	6.06	6.51	6.16	6.76	7.16	7.55
135	5.16	3.90	3.50	2.80	2.96	3.50	3.75	3.55	3.05	2.85	3.51	4.25	5.86	6.06	6.65	6.16	6.51	6.76	7.04
140	5.31	4.31	3.60	2.85	3.11	3.50	3.75	3.55	3.05	3.10	3.86	4.40	5.96	6.06	6.65	6.16	6.31	6.76	6.65
145	5.86	4.51	3.80	3.50	3.51	3.50	3.75	3.55	3.45	3.50	4.32	4.60	5.96	6.06	6.30	6.16	6.31	6.71	6.29
150	5.81	4.61	3.90	3.60	3.51	3.55	3.75	3.60	3.55	3.65	4.42	4.60	5.41	5.90	6.00	5.86	6.06	6.51	6.00
155	5.26	4.61	4.35	3.70	3.56	3.61	3.75	3.60	3.55	3.65	4.42	4.60	5.26	5.31	5.40	5.61	5.51	6.06	6.00
160	5.21	4.61	4.35	3.95	3.66	3.65	4.05	3.65	3.55	4.14	4.42	4.60	5.41	5.51	5.45	5.61	5.46	6.06	6.00
165	5.26	4.90	4.70	4.30	4.31	4.25	4.35	4.19	4.14	4.45	4.61	4.60	5.51	5.66	5.71	5.77	5.67	6.06	5.85
170	6.06	5.80	5.60	5.15	5.01	5.05	5.15	5.05	4.74	5.00	5.37	5.99	6.46	6.31	6.65	6.21	6.11	6.06	6.50
175	6.16	5.96	6.00	5.41	5.31	5.46	5.30	5.35	5.20	5.25	5.47	6.00	6.46	6.36	6.25	6.11	6.01	5.96	6.30
180	6.16	5.96	6.00	5.66	5.36	6.10	5.40	5.35	5.20	5.35	5.47	6.00	6.46	6.16	5.95	6.01	5.71	5.45	5.95

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 T4D)

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.17V I:0.3970A P:79.796W PF:0.9130 Freq:50.01Hz Lamp Flux:10926.8x1 lm		
NAME: D-191HLED80-36	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	2173	2173	2173	2173	2173														
5	2052	2070	2087	2114	2135														
10	1919	1952	1993	2065	2107														
15	1800	1836	1906	2007	2094														
20	1706	1722	1811	1956	2087														
25	1710	1649	1693	1895	2096														
30	1807	1671	1609	1811	2120														
35	1929	1740	1571	1697	2115														
40	2022	1810	1564	1573	2087														
45	2060	1823	1560	1442	1984														
50	1845	1770	1505	1305	1823														
55	1545	1585	1436	1215	1670														
60	1224	1344	1319	1140	1503														
65	903	1061	1181	1095	1352														
70	599	763	1049	983	1011														
75	314	502	830	707	664														
80	139	274	441	357	219														
85	30.1	59.2	62.7	49.0	33.5														
90	1.20	1.95	1.80	1.36	1.30														
95	2.20	3.35	3.00	2.06	1.75														
100	3.50	4.25	4.25	3.32	2.70														
105	4.85	4.65	4.76	4.27	3.40														
110	5.65	5.66	5.50	5.22	4.60														
115	6.55	6.40	5.85	5.63	4.95														
120	6.75	6.40	6.05	6.02	5.55														
125	6.75	6.40	6.00	6.08	5.70														
130	6.70	6.24	5.95	6.78	6.05														
135	6.70	6.05	5.95	6.78	6.05														
140	6.55	6.05	5.95	6.27	6.05														
145	6.25	6.05	5.95	6.07	5.95														
150	6.25	5.95	5.95	5.72	5.79														
155	5.85	5.90	5.40	5.57	5.40														
160	5.85	6.05	5.50	5.57	5.40														
165	6.35	6.20	5.65	5.73	5.50														
170	6.75	6.30	6.00	6.02	6.00														
175	6.55	6.00	5.85	5.92	5.90														
180	5.89	5.54	5.20	5.42	5.45														

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 T4D)