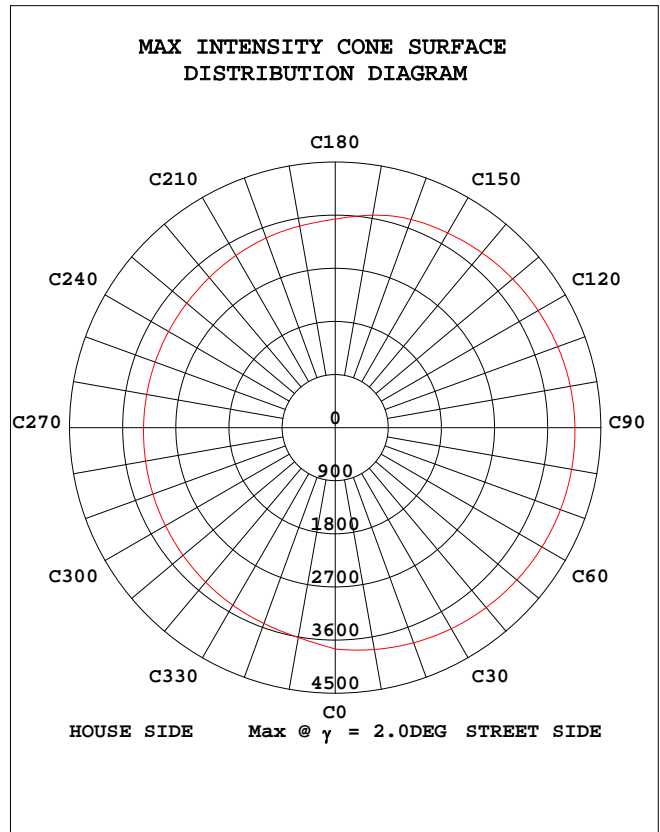
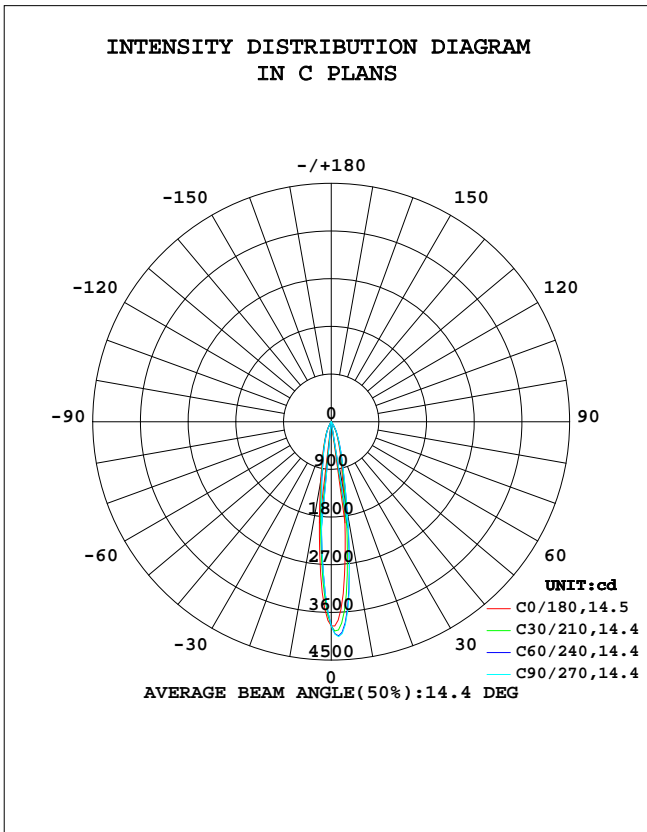


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:10.728V I:0.9268A P:9.9429W PF:1.0000 Freq:0Hz Lamp Flux:539.387x1 lm		
NAME: N-03LED10-18-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 54.25 lm/W			
MODEL	N-03LED10-18-30K	I _{max} (cd)	4065	η street_up(%)	0.0
NOMINAL POWER(W)	10	LOR(%)	100.0	η street_down(%)	58.4
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	539.4	η house_up(%)	0.0
NOMINAL FLUX(lm)	539.387	MAXIMUM @(C,γ)	75,2.0	η house_down(%)	41.6
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	η down(%)	100.0	SLI	10.110



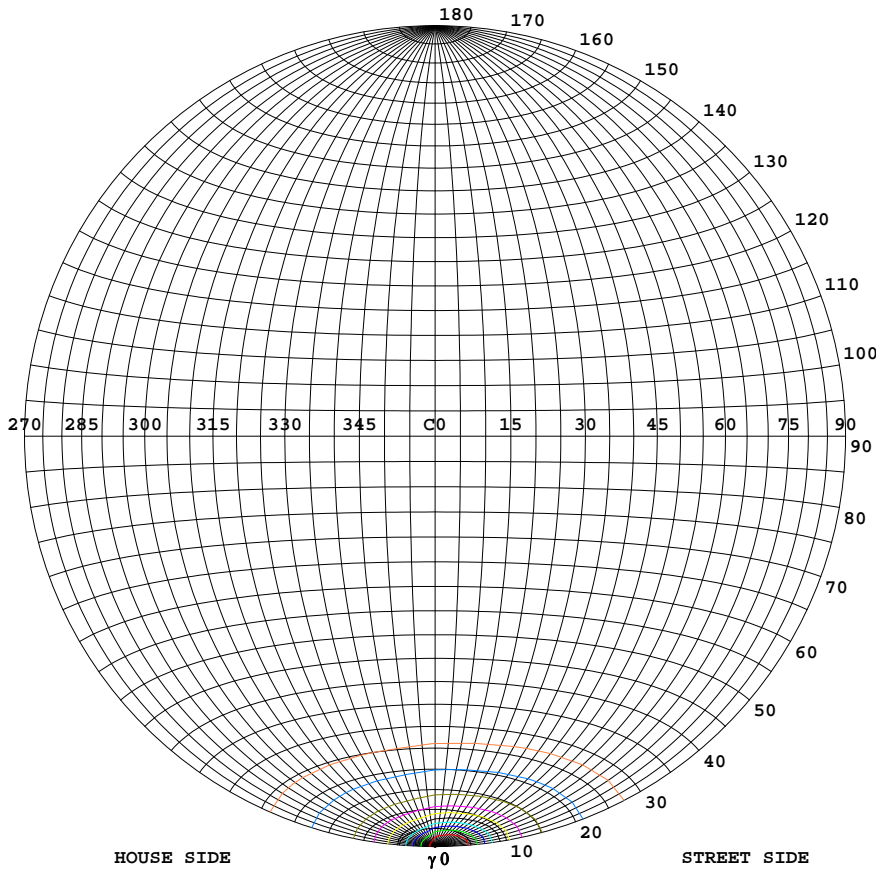
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-08-30

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: N-03LED10-18-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:10.728V I:0.9268A P:9.9429W PF:1.0000 Freq:0Hz Lamp Flux:539.387x1 lm		
NAME: N-03LED10-18-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



Classification:

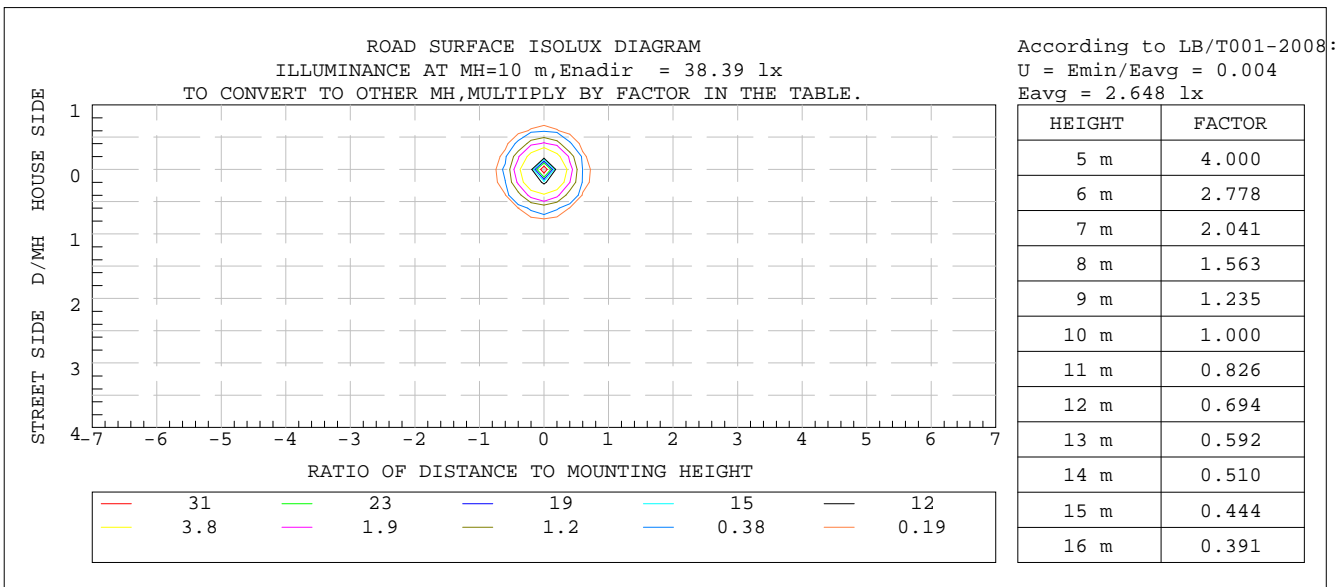
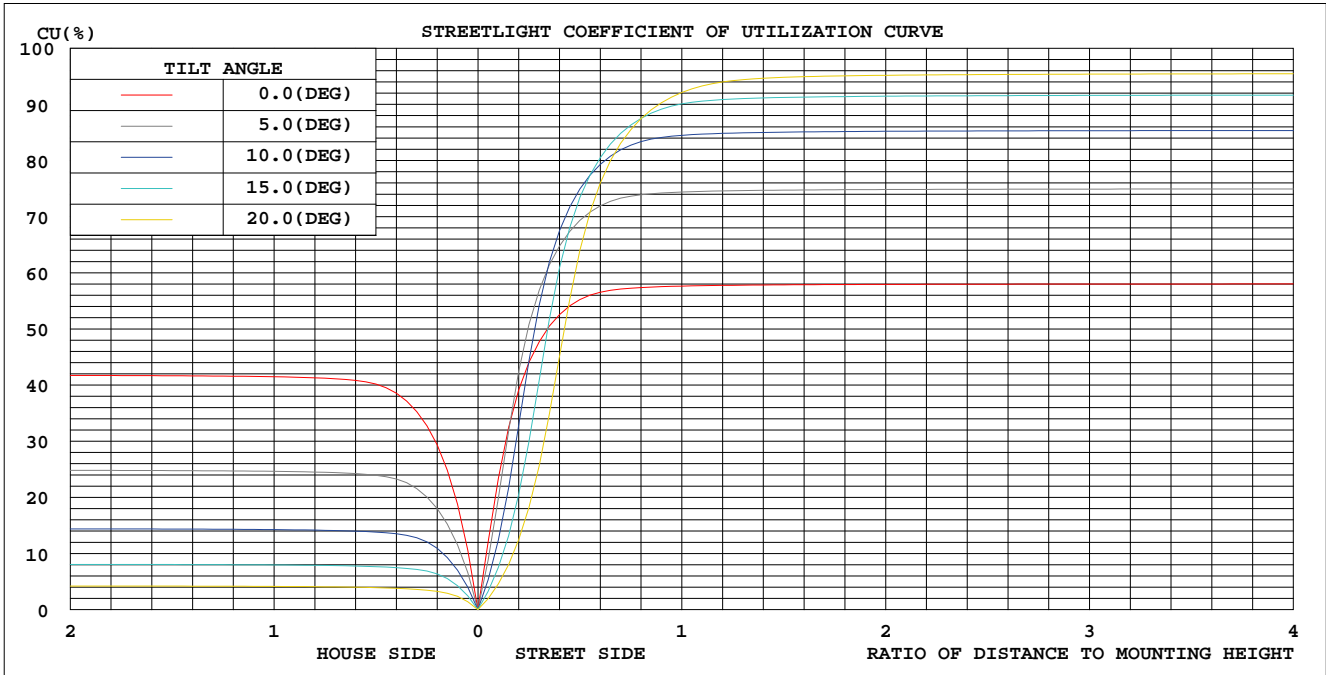
IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:1.201cd/klm
 Max.At90:0.1991cd/klm
 Max.80-90:1.201cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	4065
90%	3658
80%	3252
70%	2845
60%	2439
50%	2032
40%	1626
30%	1219
20%	813
10%	406
5%	203

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-08-30

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: N-03LED10-18-30K

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: 2022-08-30

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: N-03LED10-18-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:10.728V I:0.9268A P:9.9429W PF:1.0000 Freq:0Hz Lamp Flux:539.387x1 lm		
NAME: N-03LED10-18-30K	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	1340	1664	1767	1520	1183	1038	1011	1096	0- 10	215.0	215.0	39.9,39.9
20	392.9	456.3	466.2	427.5	347.3	313.6	306.4	330.1	10- 20	192.2	407.2	75.5,75.5
30	90.84	123.1	131.3	107.5	71.22	56.93	54.52	63.27	20- 30	98.00	505.2	93.7,93.7
40	13.97	16.45	17.36	15.55	12.53	10.99	10.68	11.71	30- 40	22.33	527.5	97.8,97.8
50	4.954	5.316	5.554	5.306	4.557	4.224	4.159	4.405	40- 50	6.133	533.6	98.9,98.9
60	2.257	2.384	2.453	2.407	2.091	2.010	2.011	2.149	50- 60	2.923	536.6	99.5,99.5
70	1.045	1.153	1.228	1.170	0.9224	0.9120	0.9770	1.038	60- 70	1.591	538.2	99.8,99.8
80	0.4530	0.5984	0.6159	0.5566	0.3527	0.3267	0.3772	0.4194	70- 80	0.8053	539.0	99.9,99.9
90	0.0200	0.0708	0.1039	0.0585	0.0117	0.0119	0.0116	0.0134	80- 90	0.2184	539.2	100,100
100	0.0116	0.0116	0.0122	0.0123	0.0116	0.0112	0.0118	0.0122	90-100	0.0162	539.2	100,100
110	0.0113	0.0116	0.0122	0.0123	0.0108	0.0110	0.0118	0.0122	100-110	0.0126	539.2	100,100
120	0.0115	0.0118	0.0122	0.0123	0.0115	0.0118	0.0116	0.0122	110-120	0.0119	539.2	100,100
130	0.0116	0.0118	0.0122	0.0129	0.0124	0.0128	0.0131	0.0131	120-130	0.0110	539.2	100,100
140	0.0187	0.0176	0.0186	0.0189	0.0229	0.0251	0.0270	0.0240	130-140	0.0123	539.2	100,100
150	0.0410	0.0382	0.0375	0.0409	0.0675	0.0746	0.0756	0.0700	140-150	0.0220	539.3	100,100
160	0.1035	0.0961	0.0967	0.1043	0.1980	0.2136	0.2137	0.1944	150-160	0.0430	539.3	100,100
170	0.1555	0.1565	0.1550	0.1557	0.2936	0.2798	0.2571	0.2497	160-170	0.0554	539.4	100,100
180	0.0840	0.0801	0.0799	0.0631	0.0925	0.0896	0.0870	0.0851	170-180	0.0166	539.4	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

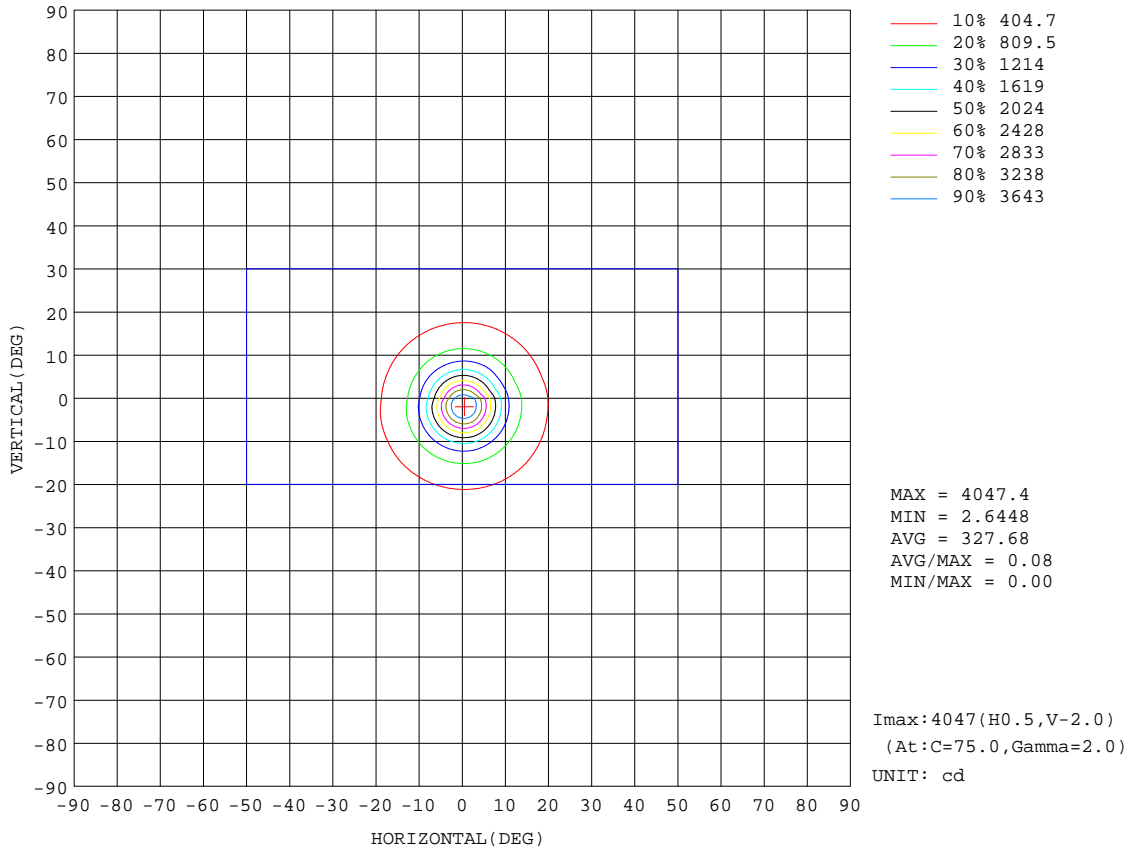
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-08-30

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: N-03LED10-18-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

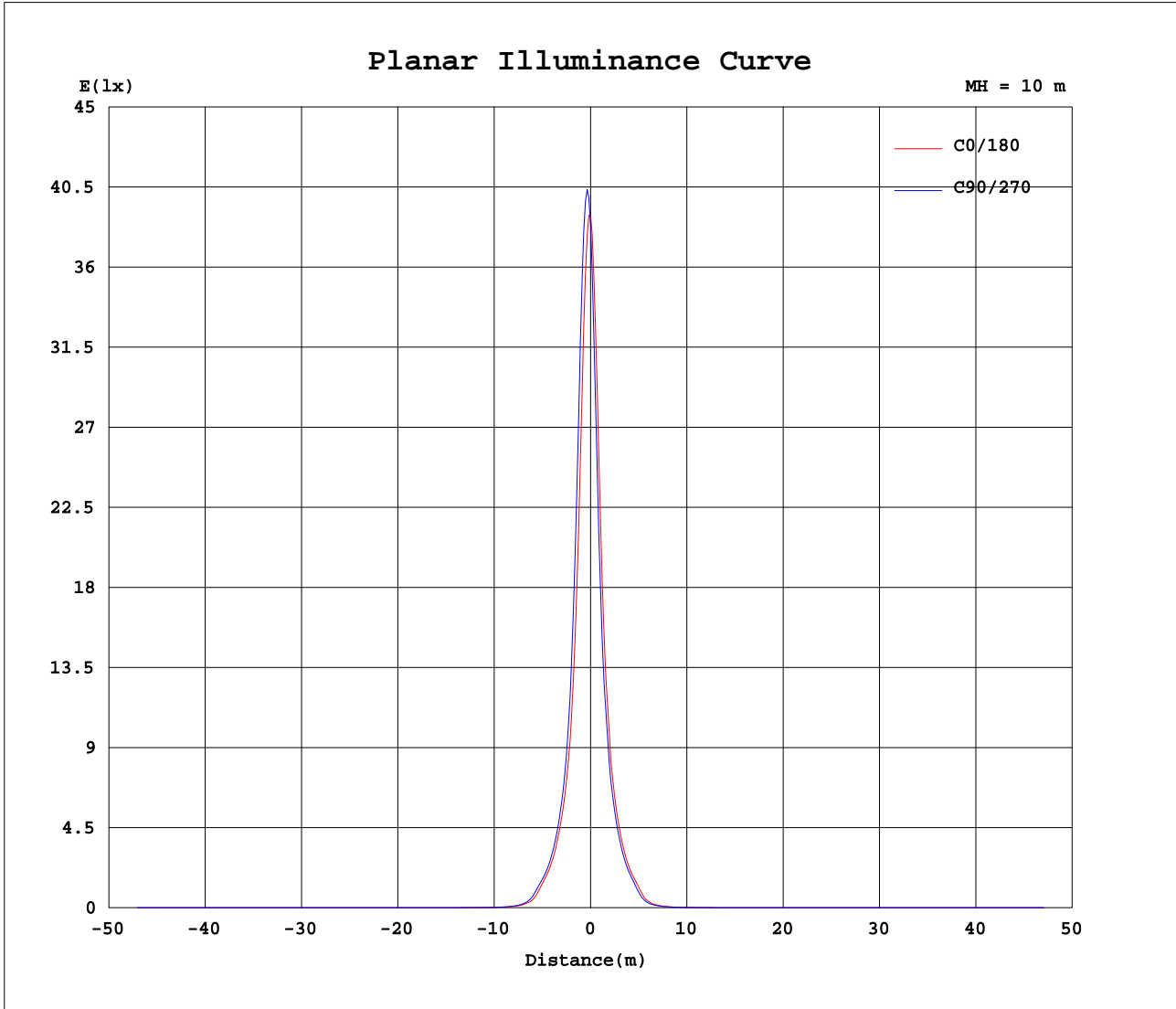
Test:U:10.728V I:0.9268A P:9.9429W PF:1.0000 Freq:0Hz Lamp Flux:539.387x1 lm		
NAME: N-03LED10-18-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-08-30

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: N-03LED10-18-30K

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-08-30

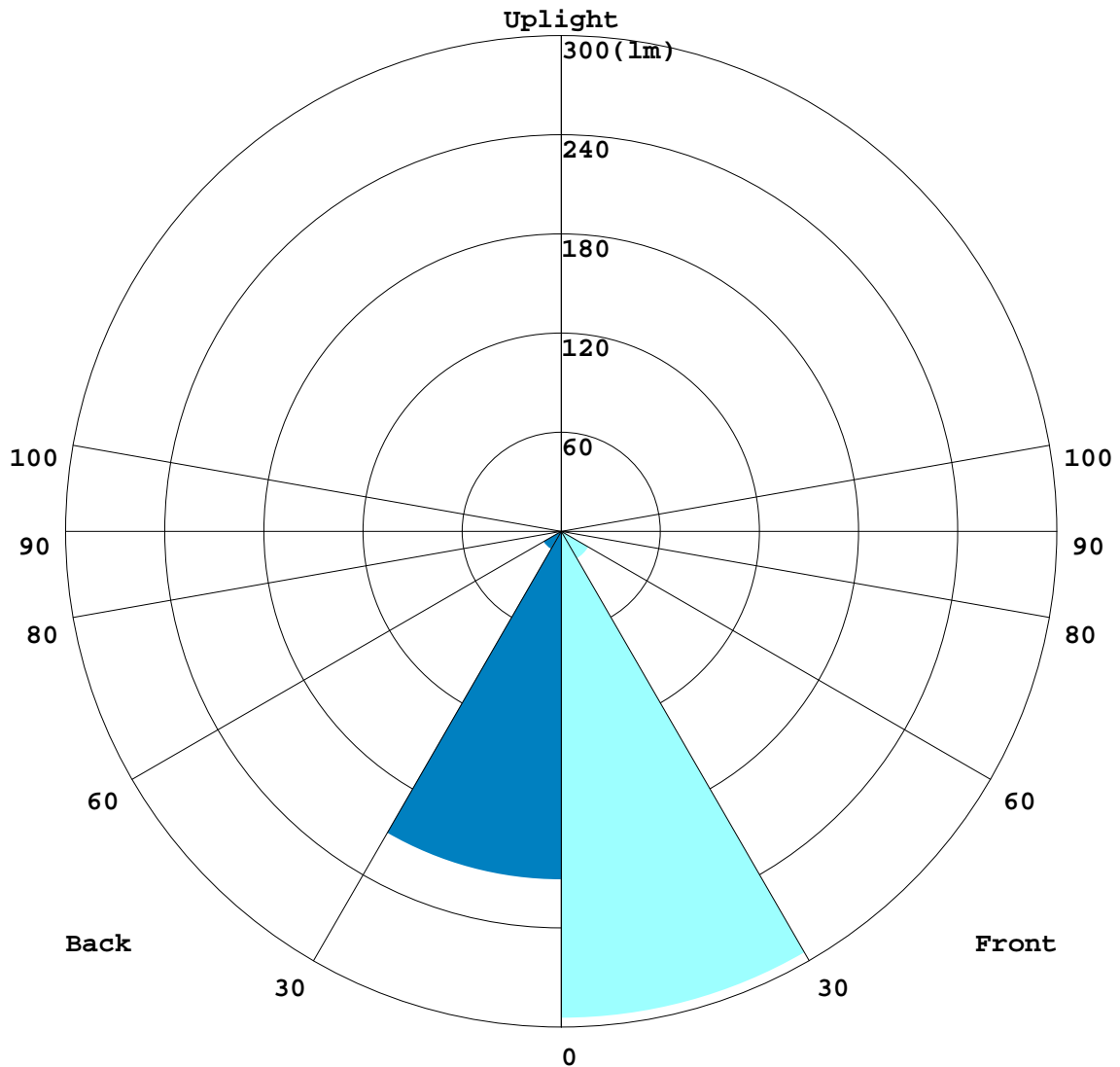
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:1.922m [K=1.0000]
Remarks: N-03LED10-18-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:10.728V I:0.9268A P:9.9429W PF:1.0000 Freq:0Hz Lamp Flux:539.387x1 lm		
NAME: N-03LED10-18-30K	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:2022-08-30

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: N-03LED10-18-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:10.728V I:0.9268A P:9.9429W PF:1.0000 Freq:0Hz Lamp Flux:539.387x1 lm		
NAME: N-03LED10-18-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	294.45	54.6
FM - Front-Medium(30-60)	19.001	3.5
FH - Front-High(60-80)	1.3012	0.2
FVH - Front-Very High(80-90)	0.13922	0.0
Total Forward Light	314.97	58.4

BL - Back-Low(0-30)	210.74	39.1
BM - Back-Medium(30-60)	12.385	2.3
BH - Back-High(60-80)	1.0951	0.2
BVH - Back-Very High(80-90)	0.079177	0.0
Total Back Light	224.42	41.6

UL - Uplight-Low(90-100)	0.016206	0.0
UH - Uplight-High(100-180)	0.18495	0.0
Total Up Light	0.20115	0.0

BUG(Back,Up,Glare) Rating	B1-U1-G0
----------------------------------	-----------------

Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	224.3	0.11921	224.42
Street Side	314.89	0.08194	314.97

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-08-30

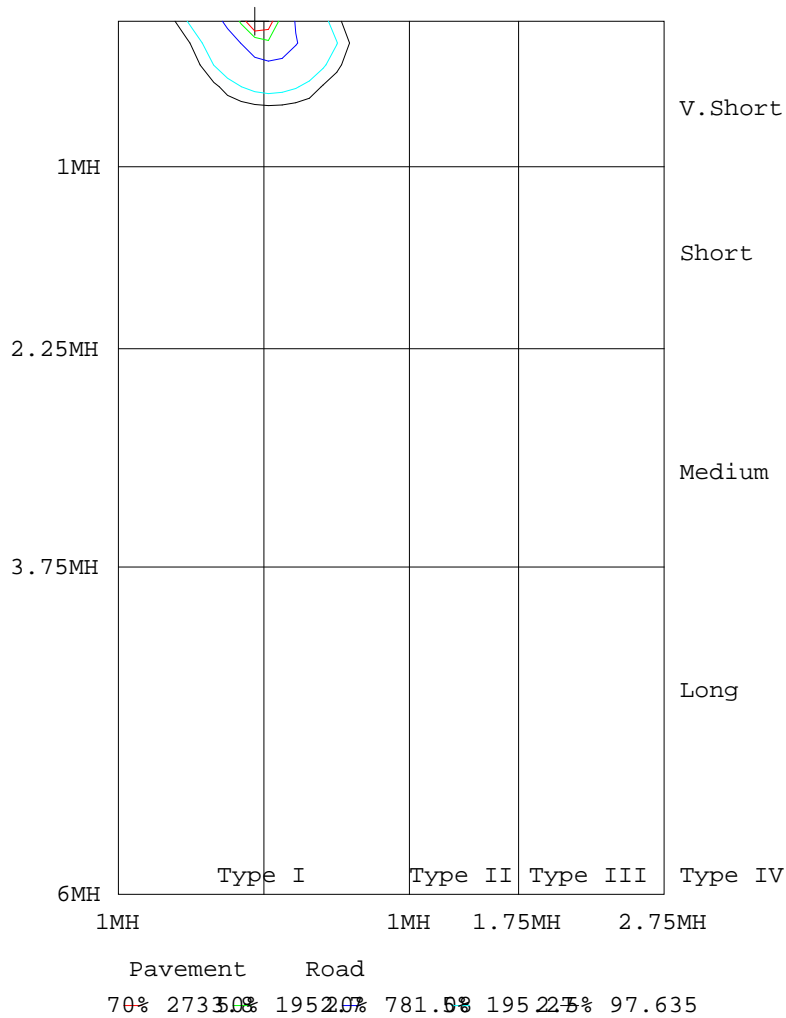
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:1.922m [K=1.0000]
 Remarks: N-03LED10-18-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:10.728V I:0.9268A P:9.9429W PF:1.0000 Freq:0Hz Lamp Flux:539.387x1 lm		
NAME: N-03LED10-18-30K	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:2022-08-30

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: N-03LED10-18-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:10.728V I:0.9268A P:9.9429W PF:1.0000 Freq:0Hz Lamp Flux:539.387x1 lm		
NAME: N-03LED10-18-30K	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	3853	3853	3853	3853	3853	3853	3853	3853	3853	3853	3853	3853	3853	3853	3853	3853	3853	3853	3853
5	2891	3084	3271	3426	3541	3594	3578	3501	3370	3205	3021	2828	2515	2375	2268	2187	2137	2112	2112
10	1340	1447	1560	1664	1743	1779	1767	1714	1625	1520	1410	1309	1183	1124	1074	1038	1016	1006	1011
15	688	723	760	791	819	833	829	812	783	746	708	670	609	584	564	548	538	535	538
20	393	412	438	456	465	470	466	464	445	427	400	379	347	334	323	314	307	304	306
25	228	238	249	259	265	268	265	261	253	244	232	221	203	193	184	176	169	165	166
30	90.8	102	113	123	130	133	131	127	118	107	95.6	85.2	71.2	65.1	60.4	56.9	54.8	54.0	54.5
35	32.0	36.4	39.4	42.0	42.7	44.4	43.2	42.2	40.6	37.7	33.2	30.3	26.2	24.4	23.0	21.9	21.3	21.1	21.2
40	14.0	14.9	15.7	16.4	17.0	17.3	17.4	16.9	16.3	15.5	14.6	13.7	12.5	11.9	11.4	11.0	10.7	10.7	10.7
45	7.67	7.97	8.28	8.51	8.72	8.95	8.95	8.83	8.65	8.41	8.07	7.67	6.97	6.69	6.47	6.30	6.22	6.20	6.22
50	4.95	5.10	5.24	5.32	5.44	5.54	5.55	5.49	5.38	5.31	5.18	4.96	4.56	4.41	4.30	4.22	4.16	4.16	4.16
55	3.22	3.33	3.40	3.49	3.55	3.61	3.60	3.58	3.55	3.50	3.42	3.28	3.04	2.93	2.85	2.79	2.73	2.71	2.73
60	2.26	2.31	2.36	2.38	2.41	2.44	2.45	2.44	2.44	2.41	2.35	2.25	2.09	2.06	2.02	2.01	1.98	2.00	2.01
65	1.67	1.71	1.76	1.77	1.78	1.81	1.82	1.81	1.79	1.76	1.71	1.63	1.50	1.46	1.44	1.40	1.38	1.40	1.42
70	1.04	1.09	1.14	1.15	1.17	1.20	1.23	1.18	1.18	1.17	1.14	1.03	0.92	0.96	0.94	0.91	0.91	0.98	0.98
75	0.73	0.81	0.83	0.83	0.83	0.90	0.90	0.85	0.83	0.86	0.81	0.74	0.67	0.68	0.70	0.68	0.69	0.73	0.74
80	0.45	0.50	0.53	0.60	0.58	0.65	0.62	0.63	0.58	0.56	0.46	0.41	0.35	0.31	0.31	0.33	0.35	0.37	0.38
85	0.15	0.17	0.22	0.25	0.29	0.31	0.30	0.29	0.26	0.23	0.17	0.13	0.09	0.09	0.10	0.12	0.13	0.14	0.14
90	0.02	0.03	0.05	0.07	0.10	0.11	0.10	0.10	0.08	0.06	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
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	0.01	0.01	0.01	0.01
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	0.01
105	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	0.01
110	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	0.01
115	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	0.01
120	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	0.01
125	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	0.01
130	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	0.01
135	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
140	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	0.03	0.03
145	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
150	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.07	0.07	0.07	0.07	0.08	0.08	0.08
155	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.07	0.11	0.12	0.12	0.13	0.13	0.13	0.13
160	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.20	0.20	0.21	0.21	0.22	0.22	0.21
165	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.15	0.29	0.29	0.29	0.29	0.29	0.28	0.28
170	0.16	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.16	0.16	0.16	0.16	0.29	0.29	0.29	0.28	0.27	0.26	0.26
175	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.19	0.20	0.19	0.18	0.18	0.17	0.17
180	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.06	0.06	0.06	0.06	0.09	0.09	0.09	0.09	0.09	0.09	0.09

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-08-30

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: N-03LED10-18-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:10.728V I:0.9268A P:9.9429W PF:1.0000 Freq:0Hz Lamp Flux:539.387x1 lm		
NAME: N-03LED10-18-30K	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	3853	3853	3853	3853	3853														
5	2150	2208	2298	2418	2567														
10	1027	1054	1096	1131	1213														
15	547	559	578	602	630														
20	311	319	330	344	362														
25	171	178	188	199	210														
30	56.2	59.1	63.3	68.8	75.5														
35	21.7	22.7	23.9	25.6	27.7														
40	10.9	11.2	11.7	12.3	12.7														
45	6.28	6.46	6.66	6.90	7.17														
50	4.19	4.27	4.40	4.55	4.67														
55	2.77	2.84	2.91	3.00	3.09														
60	2.06	2.10	2.15	2.19	2.20														
65	1.42	1.47	1.51	1.57	1.60														
70	0.94	0.96	1.04	1.05	1.01														
75	0.73	0.74	0.77	0.76	0.73														
80	0.38	0.39	0.42	0.39	0.42														
85	0.15	0.15	0.15	0.14	0.14														
90	0.01	0.01	0.01	0.01	0.01														
95	0.01	0.01	0.01	0.01	0.01														
100	0.01	0.01	0.01	0.01	0.01														
105	0.01	0.01	0.01	0.01	0.01														
110	0.01	0.01	0.01	0.01	0.01														
115	0.01	0.01	0.01	0.01	0.01														
120	0.01	0.01	0.01	0.01	0.01														
125	0.01	0.01	0.01	0.01	0.01														
130	0.01	0.01	0.01	0.01	0.01														
135	0.02	0.02	0.02	0.02	0.02														
140	0.03	0.03	0.02	0.02	0.02														
145	0.04	0.04	0.04	0.04	0.04														
150	0.07	0.07	0.07	0.07	0.06														
155	0.12	0.12	0.11	0.11	0.10														
160	0.21	0.20	0.19	0.19	0.18														
165	0.27	0.27	0.26	0.26	0.25														
170	0.25	0.25	0.25	0.25	0.25														
175	0.17	0.17	0.17	0.17	0.17														
180	0.09	0.09	0.09	0.08	0.09														

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-08-30

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: N-03LED10-18-30K