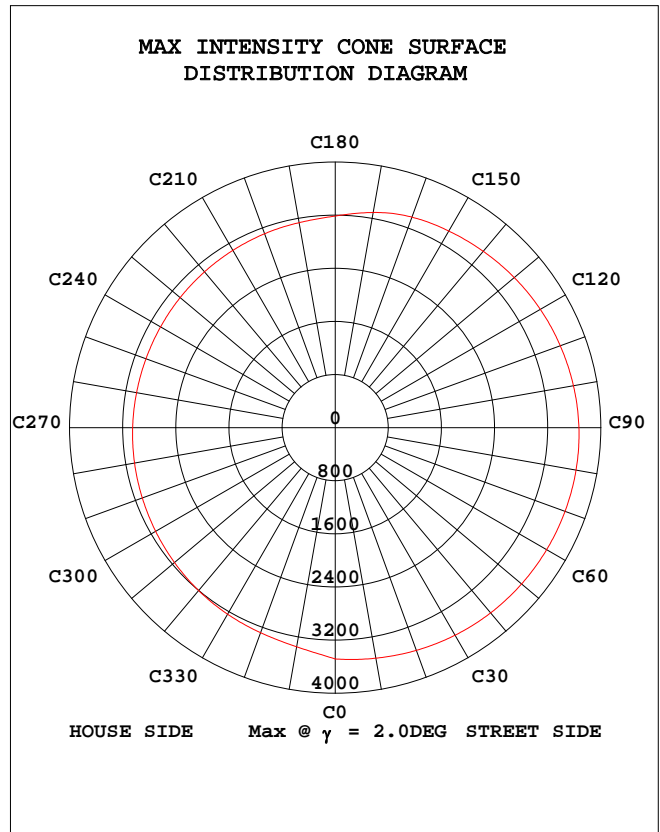
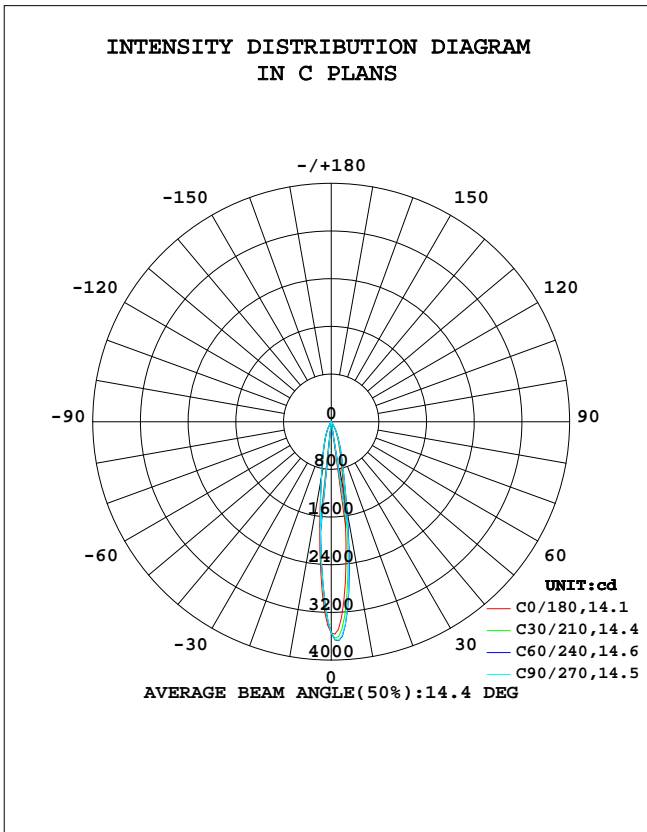


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

Test:U:11.577V I:0.9068A P:10.498W PF:1.0000 Freq:0Hz Lamp Flux:481.81x1 lm		
NAME: N-02LED10-9-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 45.89 lm/W			
MODEL	N-02LED10-9-30K	I _{max} (cd)	3683	η street_up(%)	0.0
NOMINAL POWER(W)	10	LOR(%)	100.0	η street_down(%)	57.0
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	481.8	η house_up(%)	0.0
NOMINAL FLUX(lm)	481.81	MAXIMUM @(C,γ)	75,2.0	η house_down(%)	42.9
LAMPS INSIDE	1	η up(%)	0.0	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	η down(%)	100.0	SLI	9.809



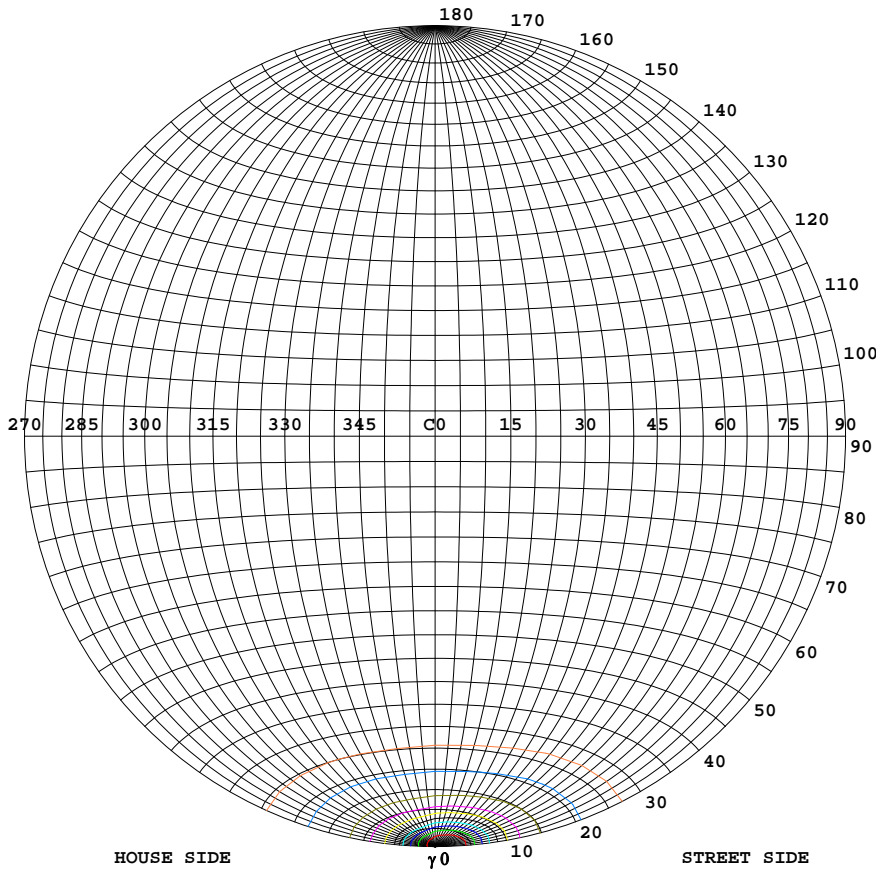
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:13.9DEG
Operators:CS01
Test Date:2022-08-30

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-02LED10-9-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

Test:U:11.577V I:0.9068A P:10.498W PF:1.0000 Freq:0Hz Lamp Flux:481.81x1 lm		
NAME: N-02LED10-9-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



Classification:

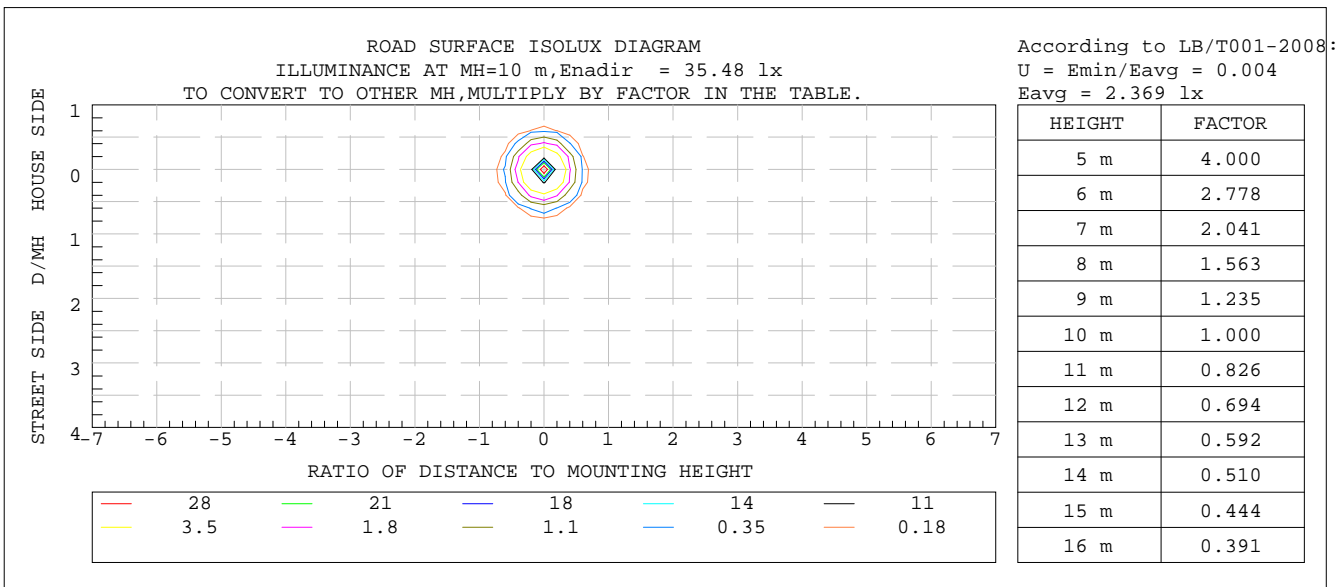
IES:Type V - Very Short
 CIE:Narrow - Short
 IES:Cut-off
 CIE:Full cut-off
 Max.At80:1.048cd/klm
 Max.At90:0.2169cd/klm
 Max.80-90:1.048cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	3683
90%	3315
80%	2947
70%	2578
60%	2210
50%	1842
40%	1473
30%	1105
20%	737
10%	368
5%	184

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-02LED10-9-30K

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-02LED10-9-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

Test:U:11.577V I:0.9068A P:10.498W PF:1.0000 Freq:0Hz Lamp Flux:481.8lx1 lm		
NAME: N-02LED10-9-30K	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	lum,lamp
10	1236	1504	1511	1276	962.9	942.8	954.2	1048	0- 10	194.6	194.6	40.4,40.4
20	347.1	407.2	404.1	364.8	284.7	295.4	294.1	319.5	10- 20	172.5	367.1	76.2,76.2
30	78.52	105.8	108.2	83.56	56.15	48.89	48.94	56.68	20- 30	87.08	454.2	94.3,94.3
40	12.16	13.73	12.96	10.78	8.860	8.421	8.724	9.916	30- 40	18.17	472.3	98,98
50	4.019	4.253	4.164	3.646	3.244	3.243	3.368	3.520	40- 50	4.757	477.1	99,99
60	2.088	2.170	1.996	1.753	1.579	1.676	1.772	1.898	50- 60	2.344	479.4	99.5,99.5
70	0.9751	1.083	1.072	0.8745	0.7300	0.8158	0.7979	0.8479	60- 70	1.350	480.8	99.8,99.8
80	0.3534	0.4637	0.4987	0.3661	0.1966	0.2877	0.3228	0.2839	70- 80	0.6362	481.4	99.9,99.9
90	0.0165	0.0678	0.1004	0.0390	0.0141	0.0166	0.0145	0.0173	80- 90	0.1703	481.6	100,100
100	0.0140	0.0143	0.0146	0.0145	0.0141	0.0138	0.0143	0.0144	90-100	0.0189	481.6	100,100
110	0.0140	0.0141	0.0145	0.0142	0.0143	0.0140	0.0141	0.0144	100-110	0.0153	481.6	100,100
120	0.0140	0.0142	0.0145	0.0142	0.0147	0.0145	0.0145	0.0144	110-120	0.0144	481.7	100,100
130	0.0140	0.0142	0.0145	0.0142	0.0159	0.0156	0.0155	0.0156	120-130	0.0132	481.7	100,100
140	0.0204	0.0197	0.0198	0.0207	0.0254	0.0271	0.0266	0.0252	130-140	0.0139	481.7	100,100
150	0.0412	0.0397	0.0392	0.0416	0.0653	0.0715	0.0706	0.0645	140-150	0.0221	481.7	100,100
160	0.0976	0.0931	0.0953	0.1017	0.1890	0.1960	0.1899	0.1705	150-160	0.0406	481.7	100,100
170	0.1503	0.1492	0.1487	0.1494	0.2687	0.2532	0.2324	0.2348	160-170	0.0515	481.8	100,100
180	0.0766	0.0749	0.0752	0.0738	0.0847	0.0828	0.0839	0.0817	170-180	0.0157	481.8	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

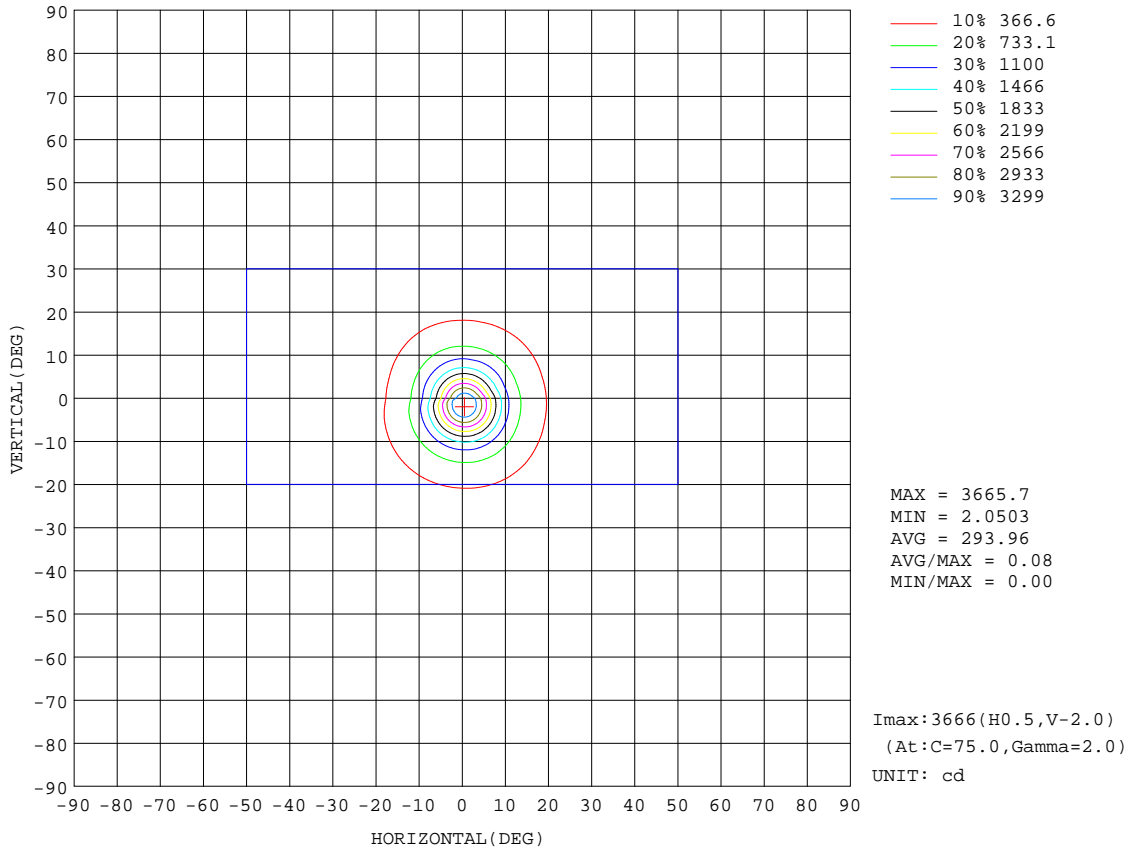
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:13.9DEG
 Operators:CS01
 Test Date:2022-08-30

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-02LED10-9-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

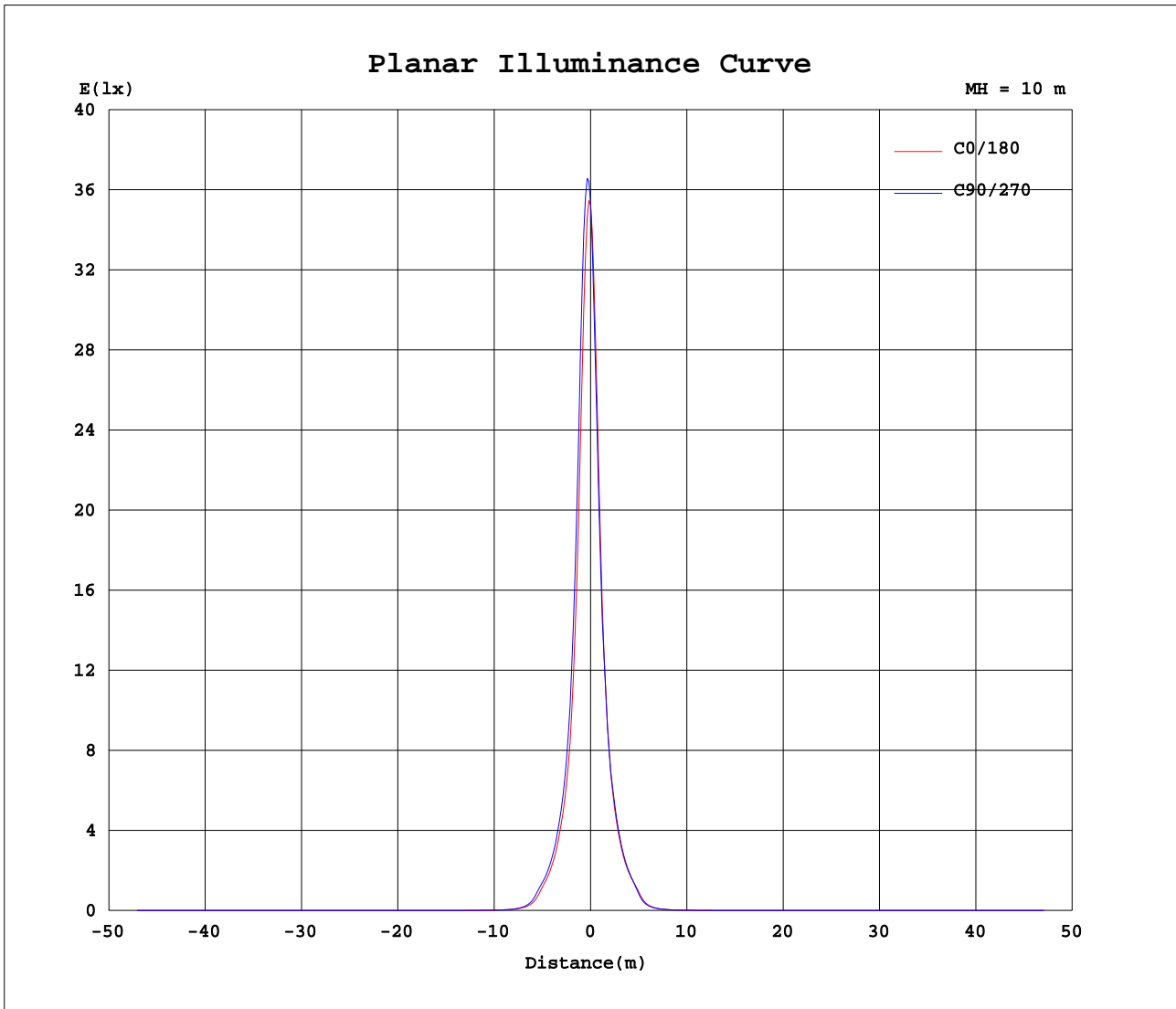
Test:U:11.577V I:0.9068A P:10.498W PF:1.0000 Freq:0Hz Lamp Flux:481.81x1 lm		
NAME: N-02LED10-9-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



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-02LED10-9-30K

Planar Illuminance Curve



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

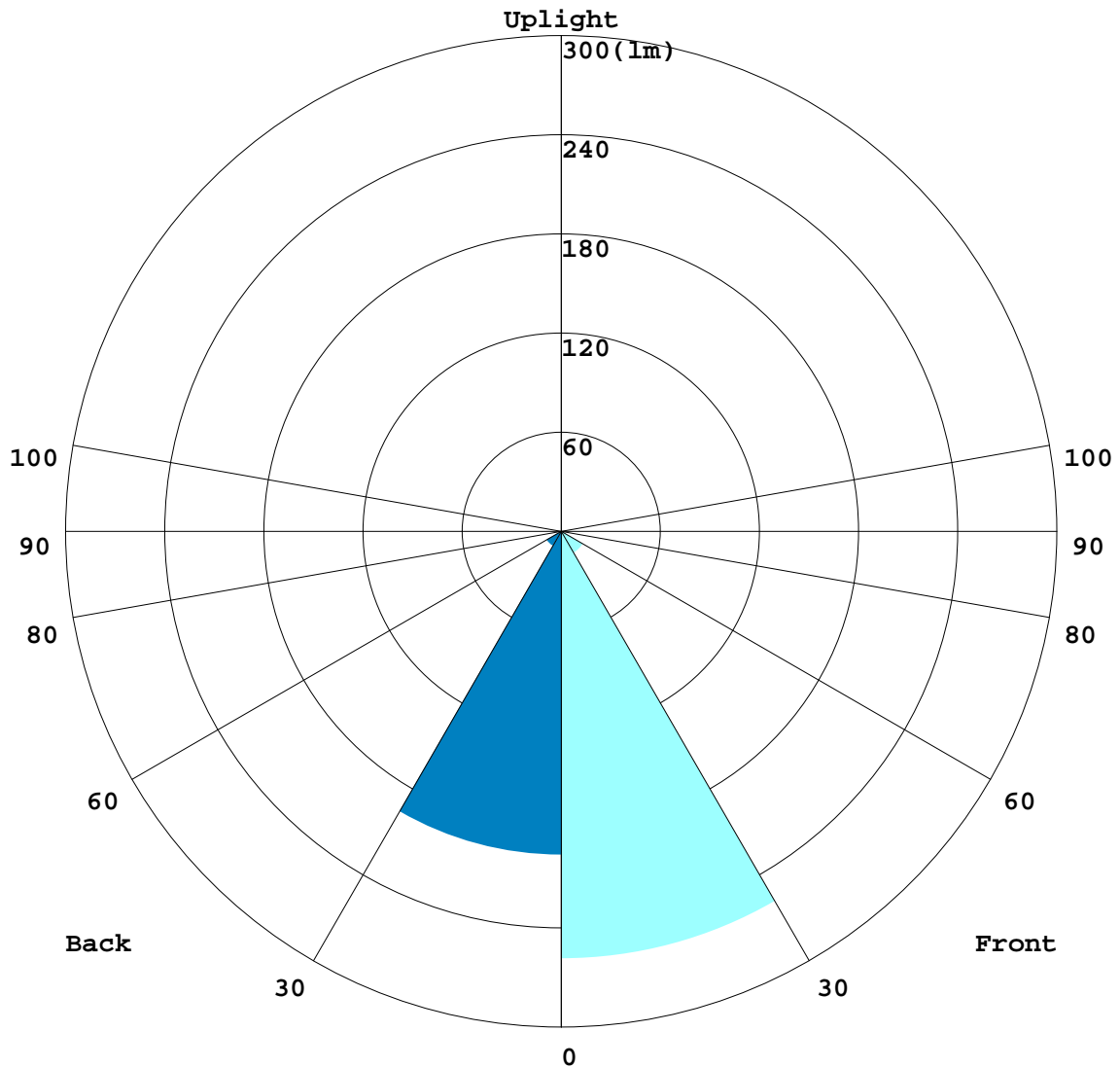
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
Humidity:38.0%
Test Distance:1.922m [K=1.0000]
Remarks: N-02LED10-9-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

Test:U:11.577V I:0.9068A P:10.498W PF:1.0000 Freq:0Hz Lamp Flux:481.81x1 lm		
NAME: N-02LED10-9-30K	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-02LED10-9-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

BUG REPORT

Test:U:11.577V I:0.9068A P:10.498W PF:1.0000 Freq:0Hz Lamp Flux:481.81x1 lm		
NAME: N-02LED10-9-30K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

IESNA Luminaire Flux Distribution Table:

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	258.47	53.6
FM - Front-Medium(30-60)	15.107	3.1
FH - Front-High(60-80)	1.0713	0.2
FVH - Front-Very High(80-90)	0.10638	0.0
Total Forward Light	274.84	57.0

BL - Back-Low(0-30)	195.71	40.6
BM - Back-Medium(30-60)	10.163	2.1
BH - Back-High(60-80)	0.91449	0.2
BVH - Back-Very High(80-90)	0.063952	0.0
Total Back Light	206.97	43.0

UL - Uplight-Low(90-100)	0.018853	0.0
UH - Uplight-High(100-180)	0.18659	0.0
Total Up Light	0.20545	0.0

BUG(Back,Up,Glare) Rating	B1-U1-G0
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	206.85	0.11846	206.97
Street Side	274.76	0.086989	274.84

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

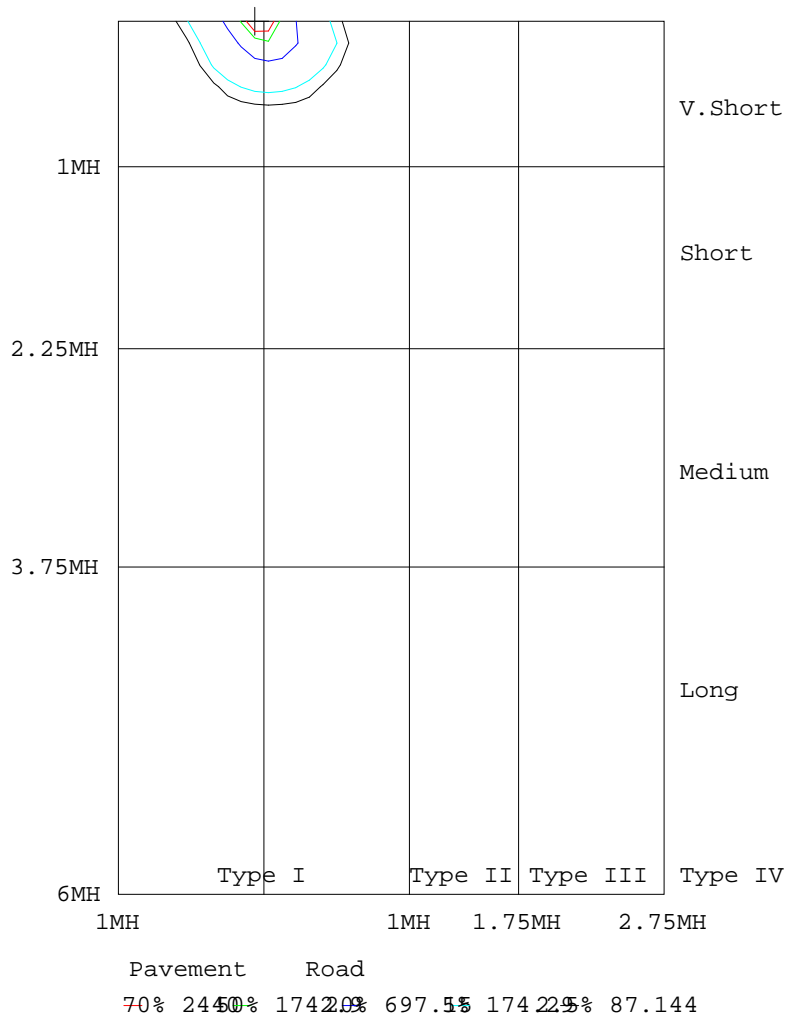
γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.0.404.7
 Humidity:38.0%
 Test Distance:1.922m [K=1.0000]
 Remarks: N-02LED10-9-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

Test:U:11.577V I:0.9068A P:10.498W PF:1.0000 Freq:0Hz Lamp Flux:481.81x1 lm		
NAME: N-02LED10-9-30K	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-02LED10-9-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:11.577V I:0.9068A P:10.498W PF:1.0000 Freq:0Hz Lamp Flux:481.81x1 lm		
NAME: N-02LED10-9-30K	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	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542
5	2712	2843	2977	3090	3162	3177	3139	3046	2923	2759	2590	2443	2189	2116	2066	2037	2025	2029	2044
10	1236	1324	1419	1504	1553	1553	1511	1452	1374	1276	1173	1083	963	941	938	943	948	950	954
15	615	642	678	722	741	739	725	701	675	641	596	554	502	495	506	519	526	525	523
20	347	360	383	407	418	414	404	394	382	365	340	313	285	281	288	295	299	296	294
25	199	207	219	234	239	236	231	227	221	213	199	186	168	162	162	162	161	160	162
30	78.5	87.1	97.4	106	110	111	108	101	93.1	83.6	74.6	66.9	56.2	53.2	50.6	48.9	48.4	48.2	48.9
35	27.4	29.8	31.9	33.6	36.3	36.1	32.9	30.8	28.6	26.1	23.6	21.7	19.4	18.5	17.6	17.1	17.0	17.4	17.7
40	12.2	13.0	13.4	13.7	13.8	13.5	13.0	12.2	11.5	10.8	10.1	9.55	8.86	8.68	8.50	8.42	8.40	8.55	8.72
45	6.39	6.72	6.96	7.06	7.03	6.92	6.71	6.43	6.14	5.88	5.55	5.32	4.95	4.92	4.84	4.79	4.79	4.91	5.01
50	4.02	4.14	4.21	4.25	4.26	4.27	4.16	4.00	3.84	3.65	3.52	3.36	3.24	3.29	3.30	3.24	3.20	3.26	3.37
55	2.79	2.84	2.92	2.96	2.93	2.91	2.85	2.71	2.54	2.45	2.41	2.31	2.22	2.22	2.26	2.26	2.26	2.33	2.45
60	2.09	2.09	2.14	2.17	2.10	2.02	2.00	1.92	1.84	1.75	1.75	1.66	1.58	1.57	1.62	1.68	1.68	1.73	1.77
65	1.53	1.51	1.54	1.57	1.55	1.47	1.47	1.44	1.38	1.33	1.31	1.20	1.13	1.12	1.18	1.25	1.23	1.21	1.26
70	0.98	1.01	1.05	1.08	1.08	1.03	1.07	1.04	0.95	0.87	0.92	0.83	0.73	0.75	0.79	0.82	0.76	0.79	0.80
75	0.60	0.60	0.68	0.71	0.67	0.69	0.74	0.74	0.71	0.63	0.58	0.50	0.41	0.44	0.52	0.56	0.54	0.52	0.56
80	0.35	0.36	0.41	0.46	0.48	0.49	0.50	0.50	0.46	0.37	0.35	0.26	0.20	0.19	0.26	0.29	0.28	0.27	0.32
85	0.07	0.10	0.16	0.23	0.22	0.25	0.26	0.26	0.21	0.17	0.09	0.05	0.02	0.05	0.10	0.12	0.12	0.13	0.13
90	0.02	0.02	0.04	0.07	0.10	0.10	0.10	0.09	0.08	0.04	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.01
95	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	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	0.02	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
105	0.01	0.01	0.01	0.01	0.01	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
110	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01
115	0.01	0.01	0.02	0.01	0.01	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
120	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	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	0.02	0.02	0.02	0.01	0.01	0.02	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	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
135	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	0.02	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	0.03	0.03	0.03	0.03	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	0.07	0.07	0.07
155	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.11	0.11	0.11	0.12	0.12	0.12	0.12
160	0.10	0.10	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10	0.10	0.11	0.19	0.19	0.19	0.20	0.20	0.20	0.19
165	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.14	0.14	0.14	0.27	0.27	0.27	0.27	0.26	0.26	0.25
170	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.27	0.27	0.26	0.25	0.24	0.24	0.23
175	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.12	0.12	0.12	0.12	0.18	0.18	0.17	0.17	0.16	0.16	0.16
180	0.08	0.08	0.07	0.07	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.09	0.08	0.08	0.08	0.08

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-02LED10-9-30K

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:11.577V I:0.9068A P:10.498W PF:1.0000 Freq:0Hz Lamp Flux:481.81x1 lm		
NAME: N-02LED10-9-30K	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	3542	3542	3542	3542	3542														
5	2078	2128	2201	2296	2416														
10	961	1013	1048	1086	1112														
15	528	542	557	570	575														
20	297	307	319	326	328														
25	167	174	181	186	187														
30	50.6	53.1	56.7	60.8	65.5														
35	18.1	19.1	20.2	21.6	23.2														
40	8.81	9.18	9.92	10.4	10.9														
45	5.03	5.20	5.42	5.67	5.86														
50	3.37	3.45	3.52	3.68	3.79														
55	2.45	2.47	2.51	2.64	2.66														
60	1.80	1.85	1.90	1.97	2.03														
65	1.32	1.30	1.34	1.45	1.48														
70	0.82	0.82	0.85	0.94	0.98														
75	0.59	0.57	0.56	0.60	0.58														
80	0.34	0.32	0.28	0.30	0.30														
85	0.14	0.14	0.12	0.11	0.08														
90	0.01	0.02	0.02	0.02	0.02														
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	0.02	0.01														
130	0.02	0.02	0.02	0.02	0.02														
135	0.02	0.02	0.02	0.02	0.02														
140	0.03	0.03	0.03	0.02	0.02														
145	0.04	0.04	0.04	0.04	0.04														
150	0.07	0.07	0.06	0.06	0.06														
155	0.11	0.11	0.10	0.10	0.09														
160	0.18	0.18	0.17	0.16	0.16														
165	0.25	0.24	0.24	0.24	0.24														
170	0.23	0.23	0.23	0.24	0.24														
175	0.16	0.16	0.16	0.17	0.17														
180	0.08	0.08	0.08	0.08	0.08														

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-02LED10-9-30K