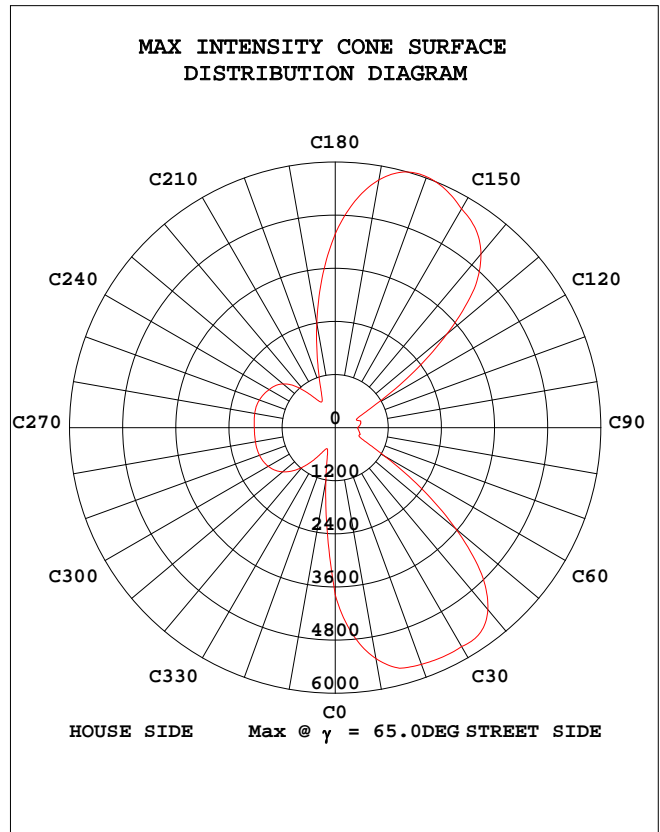
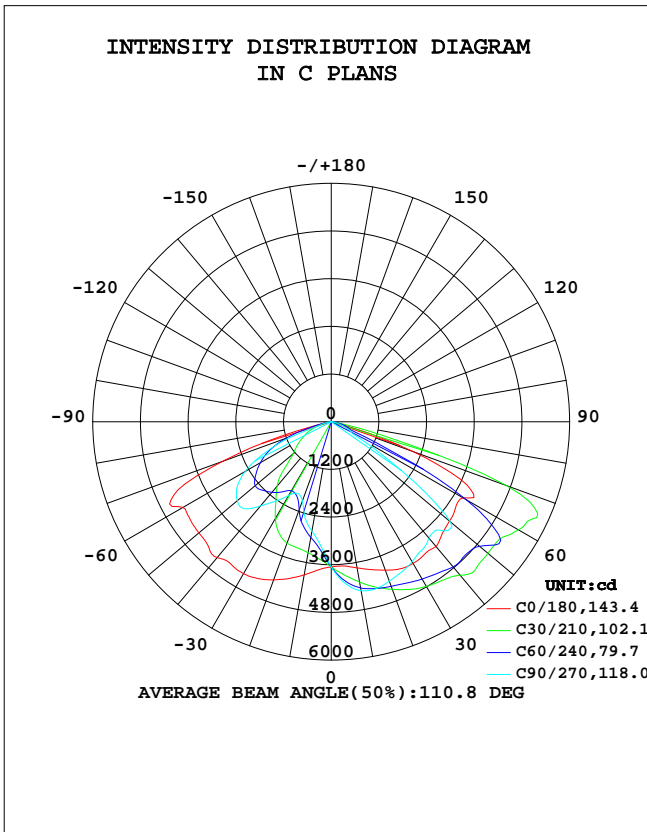


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT PHOTOMETRIC TEST REPORT

NAME: D-32SLED-L100M1-48D1-T3A-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.06 lm/W			
MODEL	5050	I <sub>max</sub> (cd)	5981	η street_up(%)	0.1
NOMINAL POWER(W)	100	LOR(%)	100.0	η street_down(%)	64.3
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	14414	η house_up(%)	0.2
NOMINAL FLUX(lm)	14414.2	MAXIMUM @(C,γ )	165,65.0	η house_down(%)	35.4
LAMPS INSIDE	1	η up(%)	0.3	76 FLASHAREA(m2)	0.00100
TEST VOLTAGE(V)	220.0	η down(%)	99.7	SLI	18.477



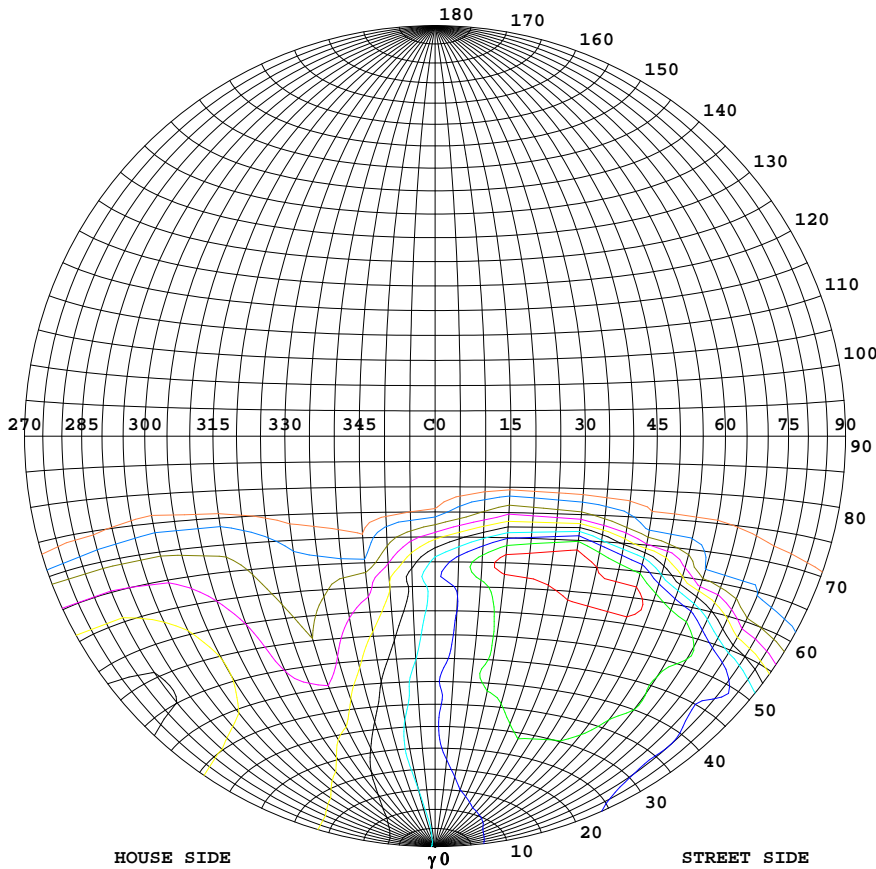
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 28.8DEG  
 Operators: CS01  
 Test Date: 2019-09-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity: 39.0%  
 Test Distance: 26.000m [K=1.0000]  
 Remarks: 5050 M3A2 T3A

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

STREETLIGHT ISOCANDELA DIAGRAM

NAME: D-32SLED-L100M1-48D1-T3A-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



Classification:

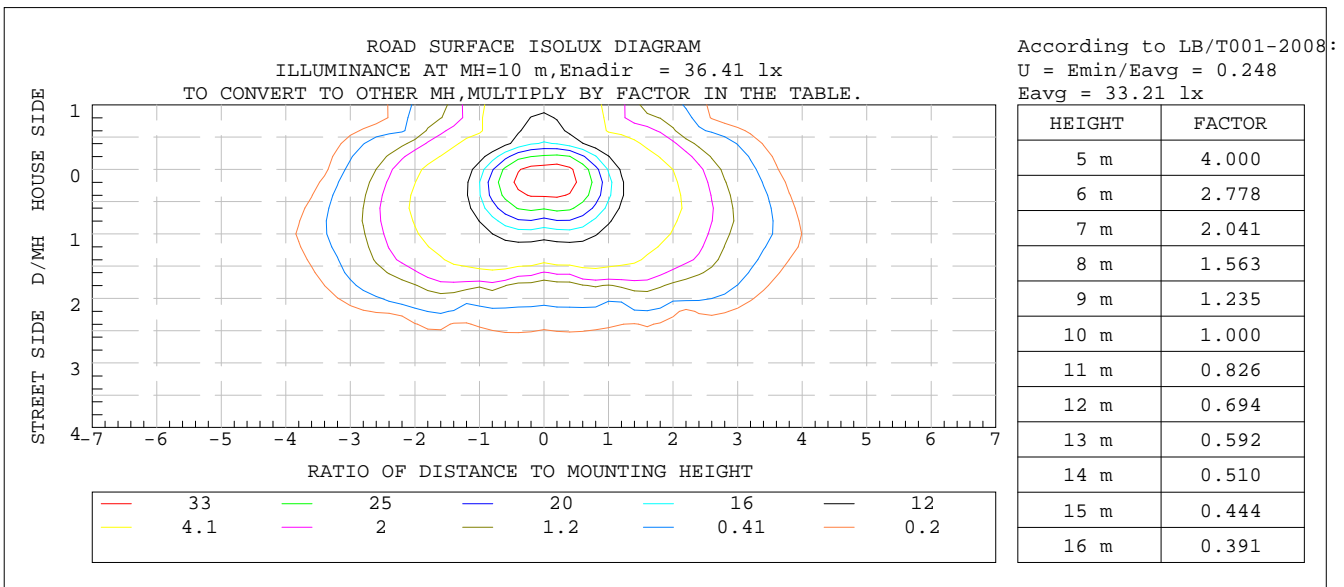
IES:Type III - Short  
 CIE:Average - Intermediate  
 IES:Cut-off  
 CIE:Full cut-off  
 Max.At80:25.66cd/klm  
 Max.At90:0.0448cd/klm  
 Max.80-90:25.66cd/klm

ISOCANDELA DIAGRAM	
UNIT	cd
Imax=100%	5981
90%	5383
80%	4785
70%	4187
60%	3588
50%	2990
40%	2392
30%	1794
20%	1196
10%	598
5%	299

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 28.8DEG  
 Operators:CS01  
 Test Date:2019-09-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity: 39.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: 5050 M3A2 T3A

COEFFICIENT OF UTILIZATION CURVE  
AND ISOLUX DIAGRAM



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 28.8DEG  
Operators: CS01  
Test Date: 2019-09-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity: 39.0%  
Test Distance: 26.000m [K=1.0000]  
Remarks: 5050 M3A2 T3A

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**ZONAL FLUX DIAGRAM**

NAME: D-32SLED-L100M1-48D1-T3A-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	$\Phi$ lum,lamp
10	3734	4190	4317	4320	3914	3123	2797	3014	0- 10	349.1	349.1	2.42,2.42
20	3975	4522	4269	4688	4236	2761	2129	2612	10- 20	1040	1389	9.63,9.63
30	4120	4771	4071	4965	4414	2101	2146	2021	20- 30	1668	3057	21.2,21.2
40	4101	4996	3831	5197	4466	1869	2763	1994	30- 40	2279	5336	37,37
50	3889	5106	3908	5288	4348	1765	3088	1920	40- 50	2850	8186	56.8,56.8
60	3830	5633	755.8	5750	4310	1554	2505	1608	50- 60	3043	11229	77.9,77.9
70	2191	1864	317.7	1502	2893	1008	895.4	1003	60- 70	2395	13624	94.5,94.5
80	95.20	152.9	101.3	197.0	128.1	85.64	105.8	75.50	70- 80	706.6	14330	99.4,99.4
90	0	0.0005	0	0.0037	0	0	0	0	80- 90	42.78	14373	99.7,99.7
100	2.574	0.2723	0.4472	0.6381	2.082	12.46	0.1918	11.83	90-100	1.367	14375	99.7,99.7
110	5.424	1.634	3.145	1.876	4.522	32.51	16.33	34.51	100-110	7.748	14382	99.8,99.8
120	6.777	2.127	4.780	2.334	5.923	10.99	22.55	9.109	110-120	9.361	14392	99.8,99.8
130	7.958	2.498	4.835	2.975	7.731	10.27	13.15	8.514	120-130	7.107	14399	99.9,99.9
140	7.911	3.270	4.652	3.157	7.866	9.449	10.44	8.925	130-140	5.451	14404	99.9,99.9
150	8.002	3.906	4.059	3.753	7.322	9.351	9.531	8.284	140-150	4.352	14409	100,100
160	7.052	5.670	3.920	4.531	6.691	7.523	9.530	8.148	150-160	3.067	14412	100,100
170	8.815	6.134	5.333	5.538	7.414	8.086	7.889	7.782	160-170	1.913	14414	100,100
180	7.287	6.997	8.209	8.903	7.414	7.131	8.163	7.688	170-180	0.6899	14414	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

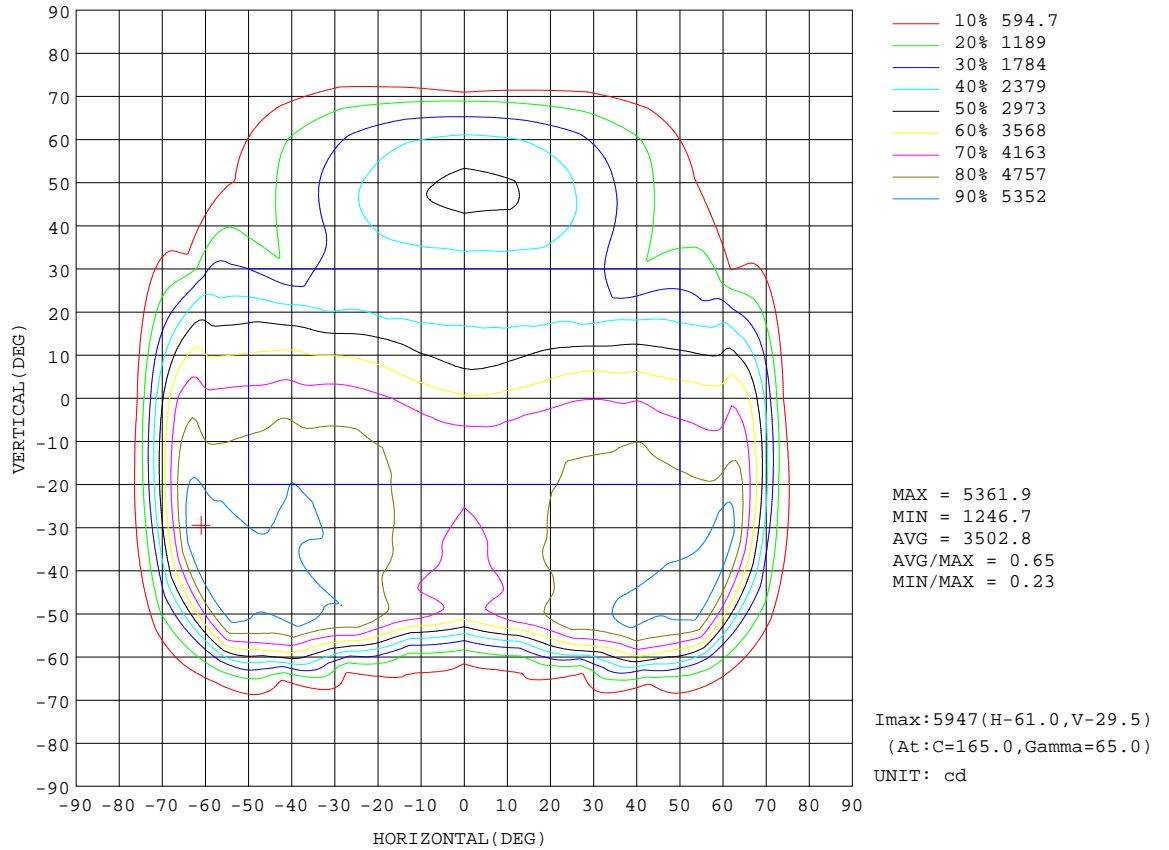
C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 28.8DEG  
 Operators:CS01  
 Test Date:2019-09-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity: 39.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: 5050 M3A2 T3A

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ISOCANDELA DIAGRAM

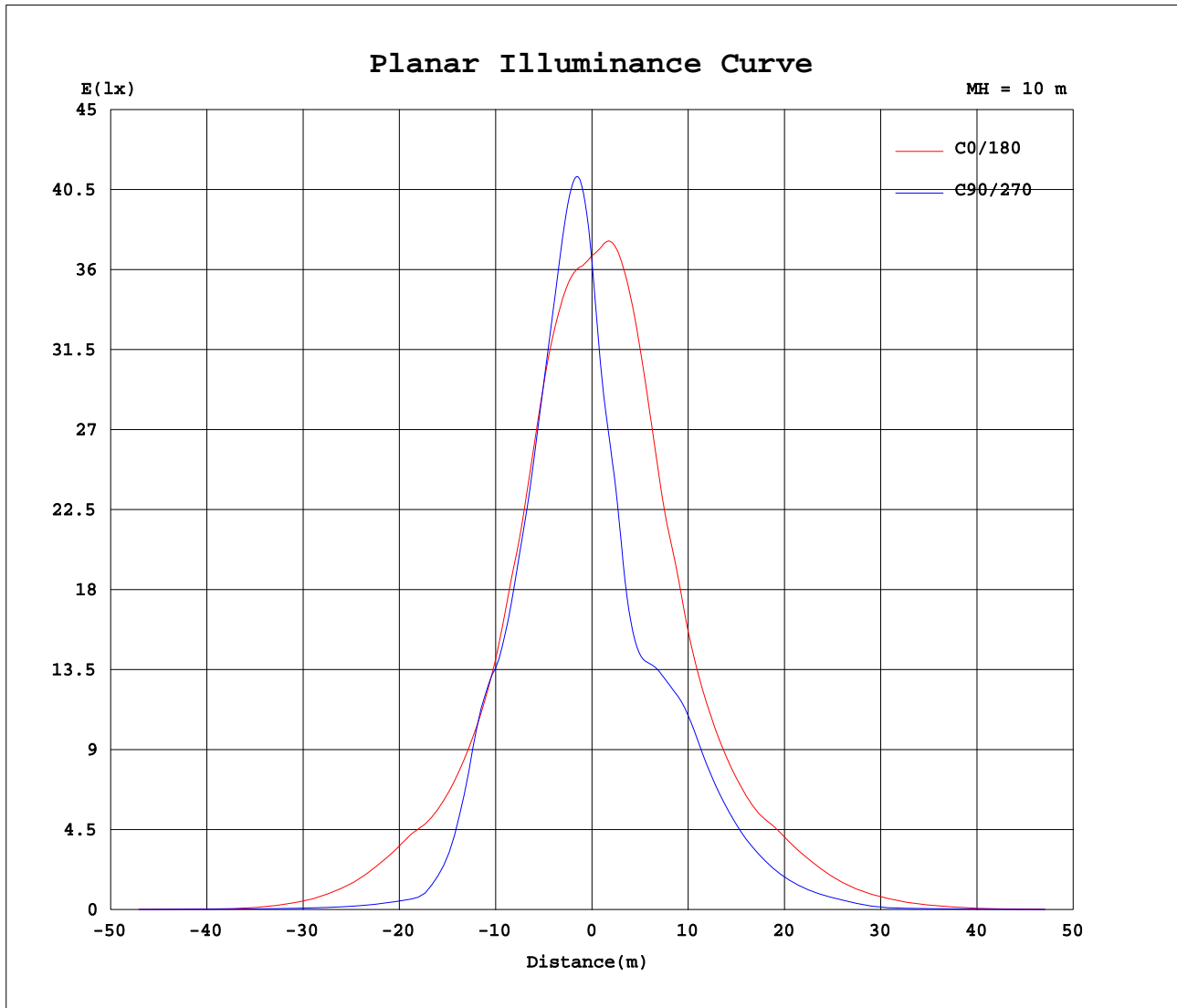
NAME: D-32SLED-L100M1-48D1-T3A-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 28.8DEG  
 Operators:CS01  
 Test Date:2019-09-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity: 39.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: 5050 M3A2 T3A

Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 28.8DEG  
Operators:CS01  
Test Date:2019-09-19

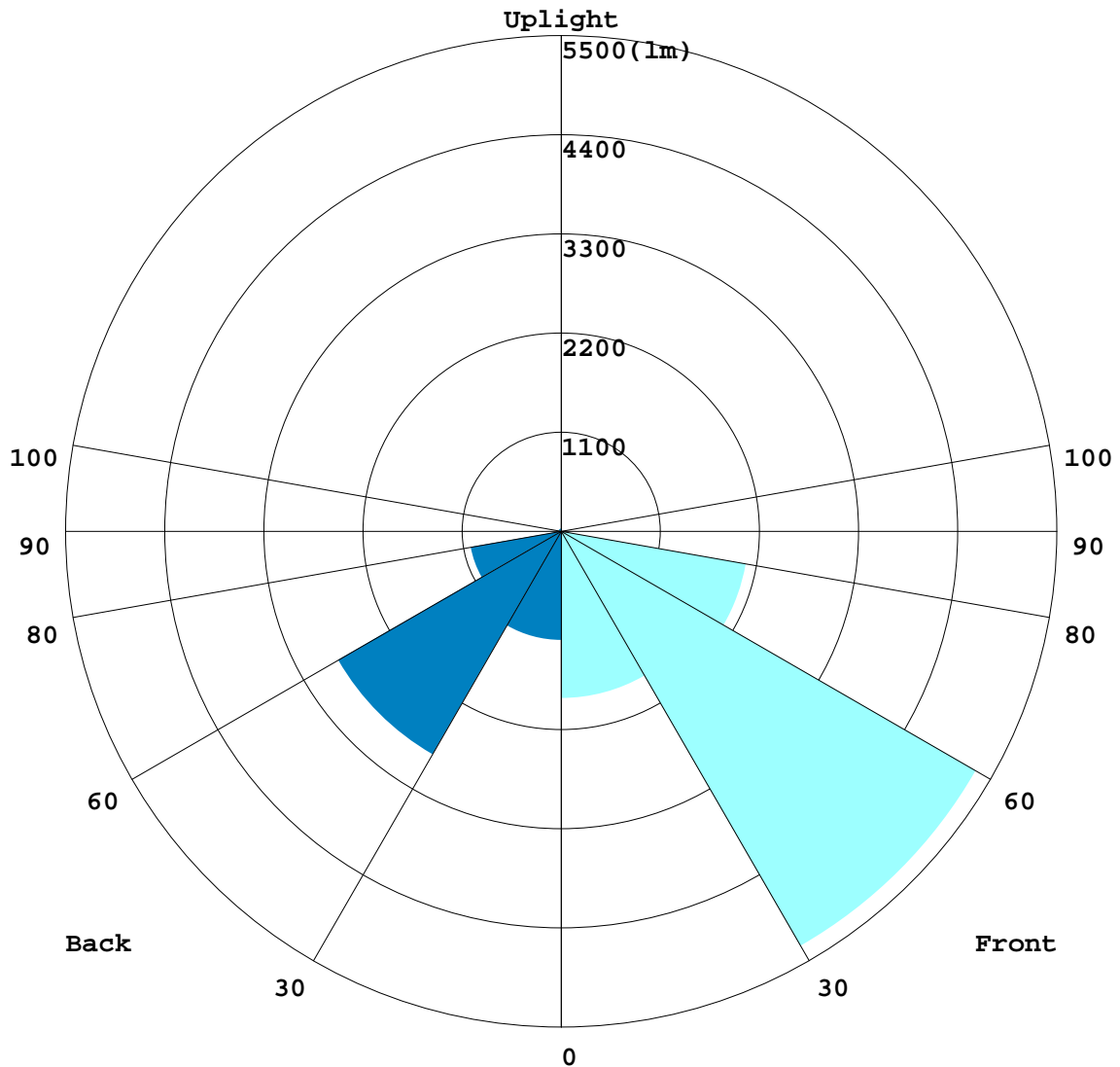
$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
Humidity: 39.0%  
Test Distance:26.000m [K=1.0000]  
Remarks: 5050 M3A2 T3A

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LCS REPORT

NAME: D-32SLED-L100M1-48D1-T3A-40K	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: 28.8DEG  
 Operators:CS01  
 Test Date:2019-09-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity: 39.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: 5050 M3A2 T3A

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

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**BUG REPORT**

NAME: D-32SLED-L100M1-48D1-T3A-40K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: KLED	SUR.:	Shielding Angle:

**IESNA Luminaire Flux Distribution Table:**

Zone	Lumens	Luminaire %
FL - Front-Low(0-30)	1850.7	12.8
FM - Front-Medium(30-60)	5314.2	36.9
FH - Front-High(60-80)	2082.8	14.4
FVH - Front-Very High(80-90)	26.072	0.2
<b>Total Forward Light</b>	<b>9283.5</b>	<b>64.4</b>

BL - Back-Low(0-30)	1206.3	8.4
BM - Back-Medium(30-60)	2857.7	19.8
BH - Back-High(60-80)	1018.7	7.1
BVH - Back-Very High(80-90)	16.705	0.1
<b>Total Back Light</b>	<b>5130.7</b>	<b>35.6</b>

UL - Uplight-Low(90-100)	1.3668	0.0
UH - Uplight-High(100-180)	39.689	0.3
<b>Total Up Light</b>	<b>41.055</b>	<b>0.3</b>

<b>BUG(Back,Up,Glare) Rating</b>	<b>B3-U2-G3</b>
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Zone	Downward Lumens	Upward Lumens	Total Lumens
House Side	5099.3	31.375	5130.7
Street Side	9273.8	9.6808	9283.5

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 28.8DEG  
 Operators:CS01  
 Test Date:2019-09-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity: 39.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: 5050 M3A2 T3A

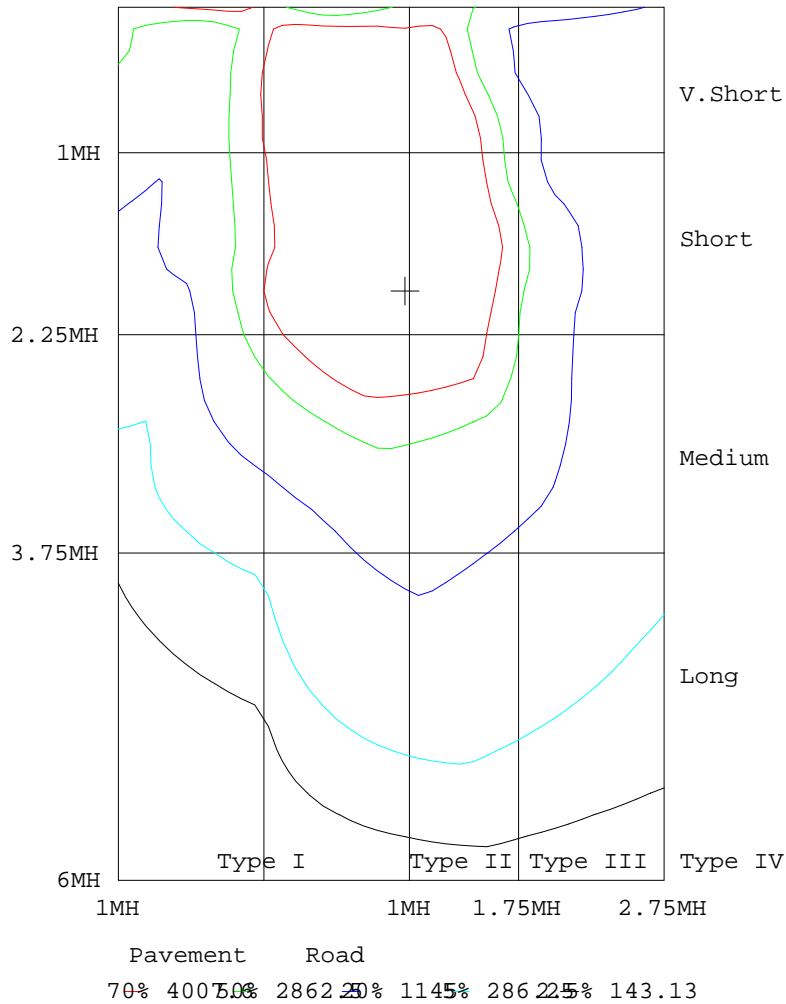


EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ROAD ISOCANDELA REPORT

NAME: D-32SLED-L100M1-48D1-T3A-40K	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: 28.8DEG  
 Operators:CS01  
 Test Date:2019-09-19

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity: 39.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: 5050 M3A2 T3A

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

NAME: D-32SLED-L100M1-48D1-T3A-40K	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	3654	3654	3654	3654	3654	3654	3654	3654	3654	3654	3654	3654	3654	3654	3654	3654	3654	3654	3654
5	3646	3764	3874	3961	4022	4065	4085	4086	4064	4021	3952	3850	3740	3603	3469	3336	3231	3160	3124
10	3734	3952	4097	4190	4247	4282	4317	4322	4332	4320	4255	4114	3914	3635	3349	3123	2958	2841	2797
15	3852	4146	4309	4375	4347	4327	4352	4379	4462	4527	4493	4359	4083	3672	3289	2959	2717	2562	2523
20	3975	4329	4487	4522	4408	4279	4269	4332	4514	4688	4696	4573	4236	3717	3251	2761	2365	2160	2129
25	4086	4488	4658	4642	4479	4251	4177	4321	4599	4803	4878	4758	4358	3737	3102	2381	2061	1996	1991
30	4120	4600	4785	4771	4573	4260	4071	4319	4709	4965	5010	4883	4414	3677	2819	2101	2006	2088	2146
35	4083	4672	4874	4922	4657	4289	3953	4322	4780	5115	5143	4959	4388	3512	2433	1907	2154	2334	2442
40	4101	4838	5043	4996	4773	4327	3831	4320	4904	5197	5275	5129	4466	3434	2121	1869	2322	2581	2763
45	3962	4818	5177	5148	4757	4212	3855	4158	4896	5312	5500	5248	4394	3252	1674	1840	2440	2879	3094
50	3889	4799	5151	5106	4879	4402	3908	4424	5052	5288	5437	5208	4348	3013	1251	1765	2499	2906	3088
55	3810	4840	5163	5294	5208	3370	2215	3112	5256	5452	5438	5236	4321	2664	1051	1684	2319	2724	2899
60	3830	4994	5442	5633	3920	1389	756	1180	3553	5750	5638	5392	4310	2285	857	1554	2059	2399	2505
65	3774	5628	5708	4674	1287	587	503	595	1059	4446	5706	5981	4374	1540	676	1357	1723	1849	1830
70	2191	4085	4674	1864	458	386	318	375	488	1502	4949	4845	2893	431	484	1008	1193	1075	895
75	366	1677	1350	349	318	237	196	236	317	373	1467	2173	908	197	240	453	518	313	247
80	95.2	193	173	153	148	118	101	120	164	197	203	370	128	89.9	83.7	85.6	164	127	106
85	14.1	21.3	28.3	28.0	30.1	28.0	23.7	32.5	41.3	46.9	46.3	43.5	26.0	21.2	18.6	16.7	24.0	24.8	18.3
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.14	0.00	0.36	0.27	0.00	0.00	0.00	0.00
95	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	1.86	1.90	0.66	0.00	0.00	0.00
100	2.57	0.18	0.14	0.27	0.63	0.36	0.45	0.73	0.68	0.64	0.09	0.09	2.08	4.93	8.93	12.5	17.3	5.46	0.19
105	4.33	1.48	0.49	1.22	1.58	1.68	1.73	1.69	1.69	1.42	0.68	0.87	3.44	5.92	12.7	21.9	30.9	14.5	3.97
110	5.42	2.70	0.81	1.63	2.49	2.78	3.14	2.97	2.83	1.88	0.96	2.33	4.52	6.69	10.4	32.5	20.6	30.3	16.3
115	5.88	3.11	1.58	1.82	2.99	3.59	3.74	3.74	3.11	2.38	1.55	2.97	4.88	6.87	9.54	26.0	29.6	23.8	12.1
120	6.78	3.66	2.17	2.13	2.99	4.05	4.78	4.29	3.33	2.33	2.23	3.70	5.92	8.00	9.91	11.0	21.4	26.9	22.5
125	8.32	4.69	2.93	2.50	3.13	4.23	5.20	4.57	3.29	2.65	2.60	4.21	7.01	9.44	10.2	10.5	11.7	17.3	17.7
130	7.96	4.92	3.53	2.50	3.13	4.19	4.83	4.34	3.29	2.98	3.01	5.07	7.73	9.39	10.4	10.3	10.9	12.3	13.2
135	7.87	5.46	3.71	2.72	3.13	4.14	4.65	4.06	3.33	3.02	3.70	5.94	7.91	8.99	10.3	9.49	10.2	10.9	12.6
140	7.91	6.01	4.33	3.27	3.13	4.19	4.65	3.93	3.33	3.16	4.07	6.72	7.87	7.90	10.2	9.45	9.62	10.4	10.4
145	8.00	6.46	5.16	3.68	3.72	4.05	4.38	3.93	3.69	3.80	5.01	6.81	7.64	7.32	9.59	9.54	9.57	10.2	10.1
150	8.00	6.64	5.88	3.91	3.72	4.05	4.06	3.93	3.97	3.75	5.84	6.81	7.32	6.68	8.94	9.35	9.53	9.74	9.53
155	7.37	6.64	5.83	4.90	3.77	4.05	3.88	3.97	3.97	4.39	5.94	6.45	6.69	6.64	6.60	8.77	8.57	9.60	9.53
160	7.05	6.59	6.06	5.67	4.76	4.36	3.92	3.97	4.57	4.53	5.94	6.26	6.69	6.86	6.11	7.52	8.12	9.51	9.53
165	7.46	7.40	6.60	5.95	5.72	5.19	5.28	4.70	4.98	4.90	5.94	6.35	7.15	7.23	7.16	7.05	7.08	8.76	9.03
170	8.82	8.13	7.24	6.13	5.94	5.37	5.33	5.39	5.53	5.54	6.62	7.31	7.41	7.50	8.00	8.09	7.35	7.83	7.89
175	8.46	7.86	7.06	6.13	6.03	5.78	5.84	5.93	5.80	5.54	6.67	7.27	7.41	7.50	7.46	7.94	7.99	8.37	8.35
180	7.29	7.59	7.06	7.00	8.30	8.24	8.21	9.77	8.37	8.90	6.62	7.22	7.41	7.50	7.46	7.13	7.21	8.15	8.16

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 28.8DEG  
 Operators:CS01  
 Test Date:2019-09-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity: 39.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: 5050 M3A2 T3A

**EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT**

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**LUMINOUS DISTRIBUTION INTENSITY DATA**

NAME: D-32SLED-L100M1-48D1-T3A-40K	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	3654	3654	3654	3654	3654														
5	3131	3178	3267	3384	3518														
10	2799	2877	3014	3212	3476														
15	2522	2629	2833	3107	3459														
20	2140	2271	2612	3023	3467														
25	2004	2041	2236	2837	3463														
30	2121	2044	2021	2508	3375														
35	2393	2235	1946	2172	3176														
40	2673	2425	1994	1852	3013														
45	2998	2593	1982	1419	2770														
50	3020	2624	1920	1216	2464														
55	2834	2436	1800	1049	2076														
60	2468	2177	1608	877	1646														
65	1833	1748	1387	712	709														
70	1025	1097	1003	484	321														
75	262	413	398	204	166														
80	116	142	75.5	65.3	70.7														
85	19.2	16.4	9.48	9.35	10.2														
90	0.00	0.00	0.00	0.32	0.65														
95	0.00	0.04	1.64	2.24	2.48														
100	1.37	13.1	11.8	8.82	5.62														
105	6.46	33.7	20.5	14.4	6.22														
110	17.4	19.8	34.5	8.82	6.99														
115	20.6	25.1	22.8	9.18	8.24														
120	16.8	16.6	9.11	8.91	9.46														
125	13.3	11.8	8.83	9.32	8.87														
130	11.0	11.5	8.51	9.59	8.78														
135	10.3	9.45	8.56	9.59	8.68														
140	9.73	9.68	8.93	9.41	8.09														
145	9.63	9.68	8.84	8.86	7.36														
150	9.54	9.59	8.28	8.22	6.67														
155	9.22	8.91	8.10	7.72	5.89														
160	9.27	8.86	8.15	6.49	5.76														
165	9.59	8.75	7.51	6.40	6.78														
170	7.81	7.67	7.78	7.54	8.14														
175	8.17	8.27	8.24	7.67	8.13														
180	8.04	7.90	7.69	7.35	7.36														

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 28.8DEG  
 Operators:CS01  
 Test Date:2019-09-19

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.404.7  
 Humidity: 39.0%  
 Test Distance:26.000m [K=1.0000]  
 Remarks: 5050 M3A2 T3A