
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT



Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		865.5 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of Imax	128.1V x 87.3H
	At 50% of Imax	100.3V x 35.5H
	At 90% of Imax	4.8V x 8.8H
Beam Flux	Total	996.7 lumens per klm.
	To 10% of Imax	944.0 lumens per klm.
	To 50% of Imax	303.6 lumens per klm.
	To 90% of Imax	11.1 lumens per klm.
Upward LOR		0.0 %
Downward LOR		99.7 %
Luminaire Efficiency(Light Output Ratio)		100.1 %

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YangWenPeng
Test Date:2015-11-26

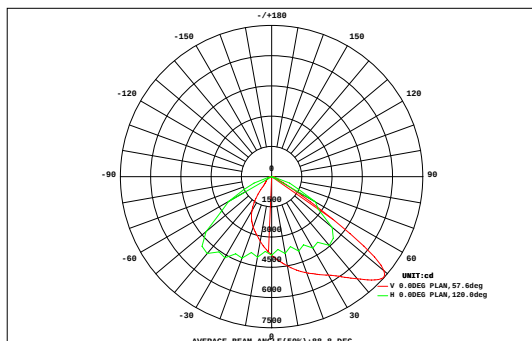
V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:12.370m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT



LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: parking lot lighting	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:98.77lm/W	
MODEL	83517	Imax(cd)	12831
NOMINAL POWER(W)	150.1	AVAILABILITY(%)	95.5
RATED VOLTAGE(V)	222	Avai. FLUX(lm)	14156
NOMINAL FLUX(lm)	14825	LOR(%)	100.1
LAMPS INSIDE	1	TOTAL FLUX(lm)	14838
TEST VOLTAGE(V)	221.0	θ @50%(H,V)	36,100DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.01	0.13	0.35	0.58	0.93	1.44	2.40	3.93	3.61	2.77	2.67	4.44	5.23	2.23	0.91	0.61	0.24	32.5	0.00
80	0.00	0.13	0.59	1.25	2.01	2.94	5.05	12.4	33.5	55.6	69.2	81.3	93.5	69.1	12.2	2.29	0.99	0.32	442	378
70	0.01	0.26	0.99	2.00	3.56	5.99	13.7	37.6	74.7	106	128	150	170	130	30.6	3.32	1.09	0.34	859	807
60	0.02	0.42	1.37	2.71	6.30	12.5	39.0	93.4	130	148	170	195	225	216	59.0	4.49	1.23	0.35	1304	1261
50	0.03	0.56	1.68	3.13	6.54	15.4	52.6	92.5	116	136	155	172	191	182	64.4	6.05	1.35	0.36	1197	1157
40	0.05	0.70	1.95	3.56	6.62	20.3	59.2	87.6	107	127	142	153	161	160	74.0	7.75	1.43	0.36	1113	1076
30	0.07	0.82	2.14	3.96	7.73	25.7	59.3	83.3	103	123	138	146	150	148	82.4	9.63	1.47	0.35	1085	1049
20	0.08	0.90	2.26	4.55	9.04	29.0	60.2	83.4	104	123	138	145	148	149	89.7	10.2	1.45	0.34	1098	1062
10	0.08	0.94	2.35	4.86	9.81	31.5	63.1	86.1	107	125	139	147	151	155	95.7	10.0	1.40	0.33	1130	1097
0	0.07	0.94	2.30	4.47	9.43	33.7	69.8	93.3	113	131	145	155	164	173	99.1	8.87	1.30	0.31	1204	1172
-10	0.07	0.85	2.14	3.95	8.41	32.1	73.9	102	123	141	156	169	185	203	109	7.93	1.15	0.29	1319	1288
-20	0.05	0.76	1.96	3.47	7.35	28.7	72.6	108	132	152	168	185	211	236	104	6.42	1.01	0.26	1419	1389
-30	0.05	0.62	1.73	3.11	6.41	18.7	61.2	110	142	162	183	207	245	261	79.2	4.35	0.82	0.21	1487	1455
-40	0.04	0.49	1.40	2.56	4.77	11.8	30.9	55.3	84.8	108	121	127	125	102	29.2	2.94	0.71	0.16	808	768
-50	0.03	0.35	1.05	1.95	3.23	4.80	4.86	15.6	38.5	54.8	58.9	51.2	27.5	10.8	5.25	1.60	0.57	0.10	281	198
-60	0.02	0.22	0.65	1.13	1.60	1.87	3.21	7.01	10.1	9.70	9.08	7.14	3.79	1.90	0.79	0.43	0.37	0.04	59.0	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	0.67	8.97	24.7	47.0	93.4	276	670	1070	1421	1706	1924	2094	2254	2203	936	87.2	17.0	4.38	14838	---
Φ a	0.00	0.00	0.00	0.00	0.00	144	610	1013	1373	1680	1907	2082	2239	2178	894	35.9	0.00	0.00	---	14156

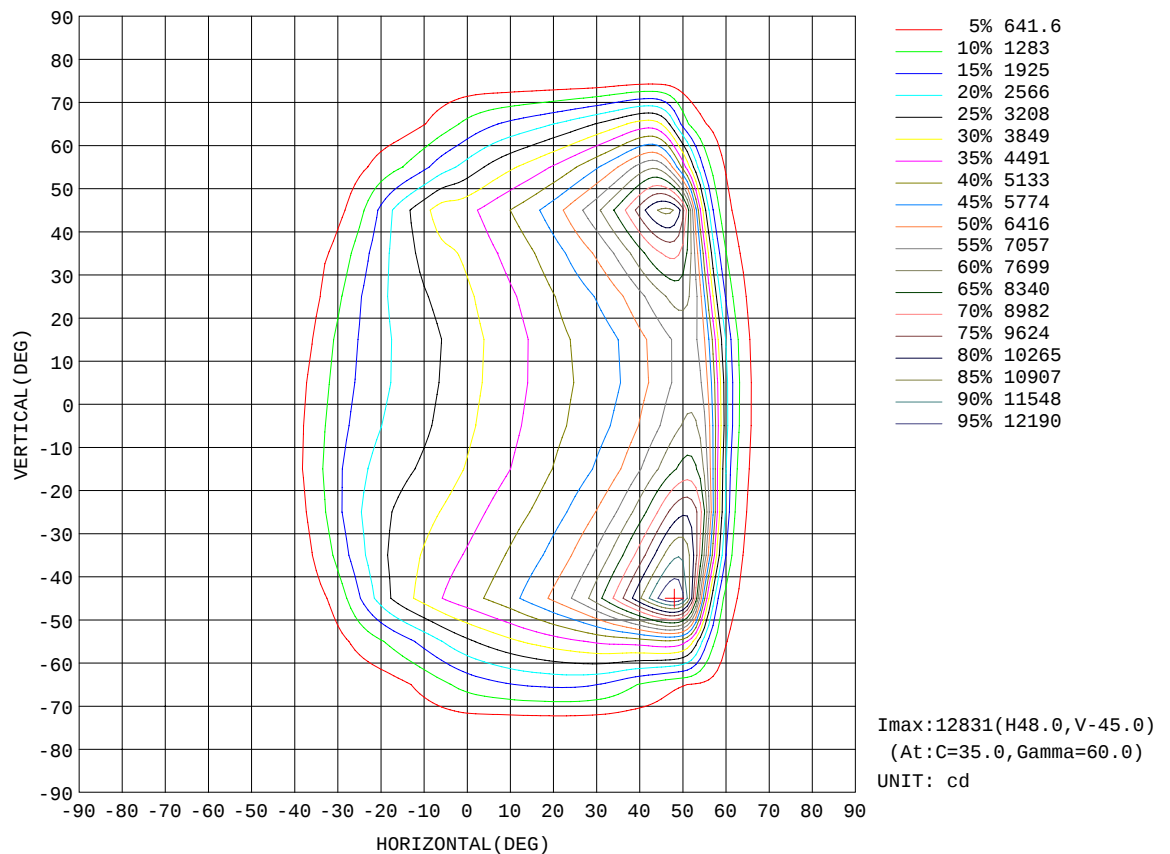
one-half-peak spread: U:96.3,D:94.1 , L:29.9,R:6NBMA Beam Type: Type 5 x 6 (H x V)

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YangWenPeng
Test Date:2015-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:12.370m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: parking lot lighting	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

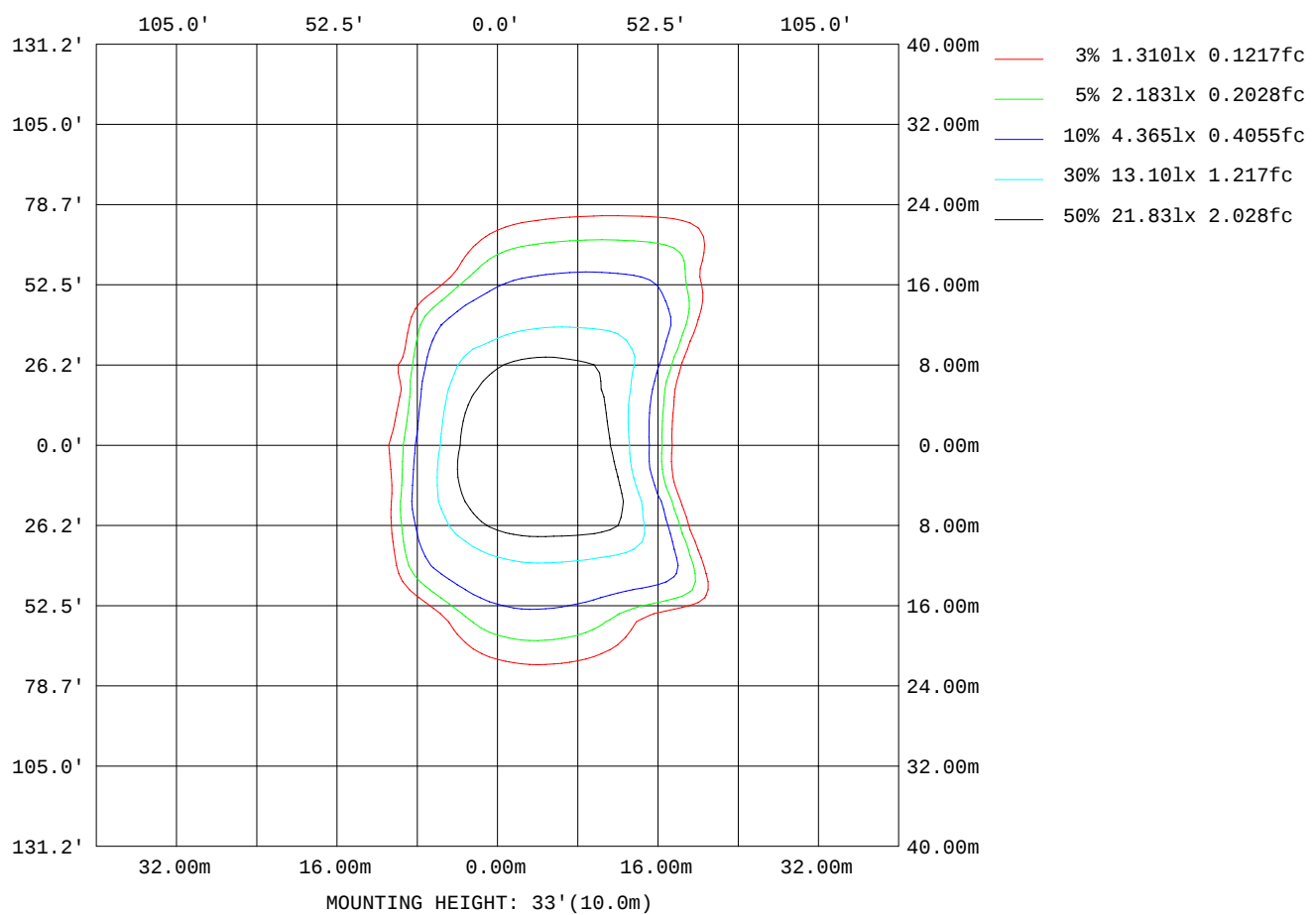


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V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:12.370m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: parking lot lighting	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

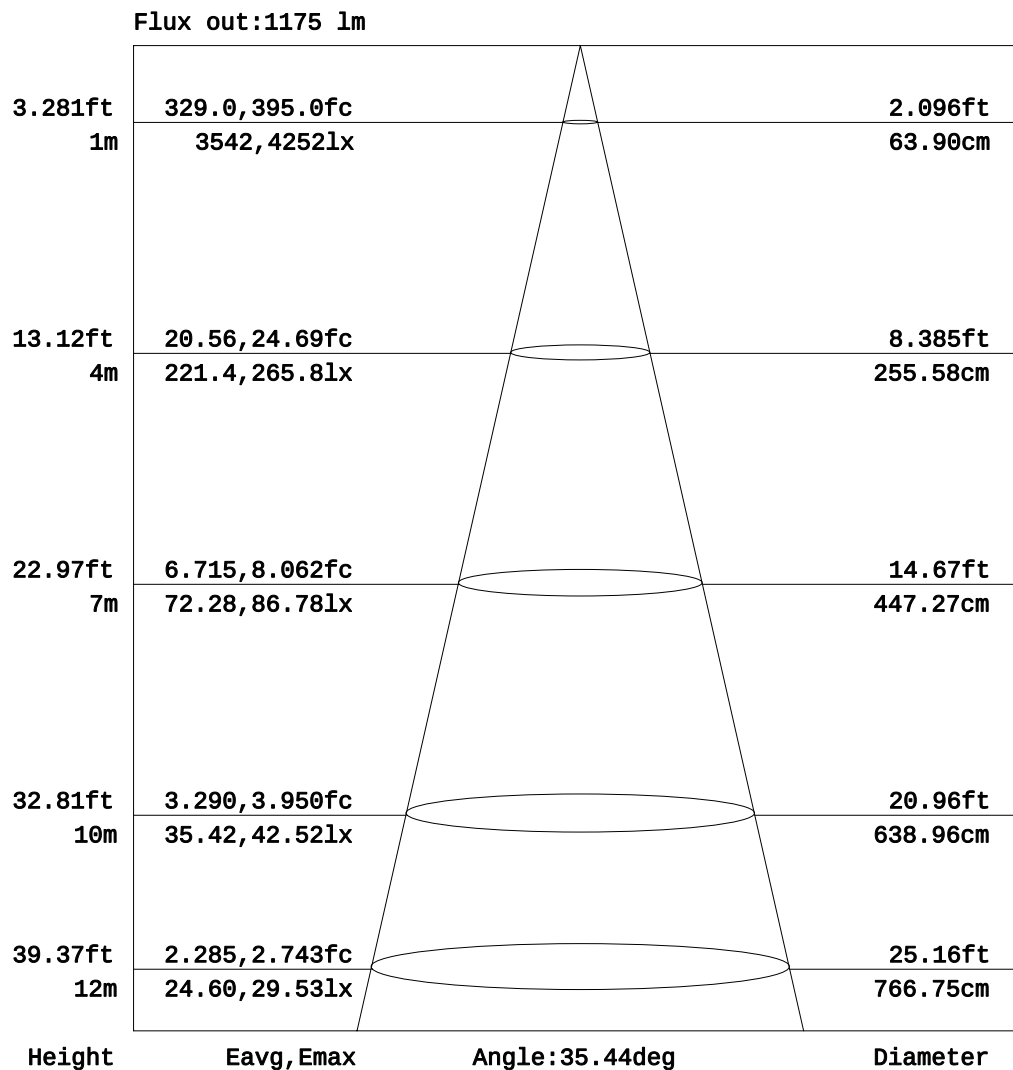


H(β) Range: -90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: YangWenPeng
Test Date: 2015-11-26

V(β) Range: -75 - 75DEG
V(β) Interval: 5.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.274
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Remarks:

AAI Figure

NAME: parking lot lighting	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
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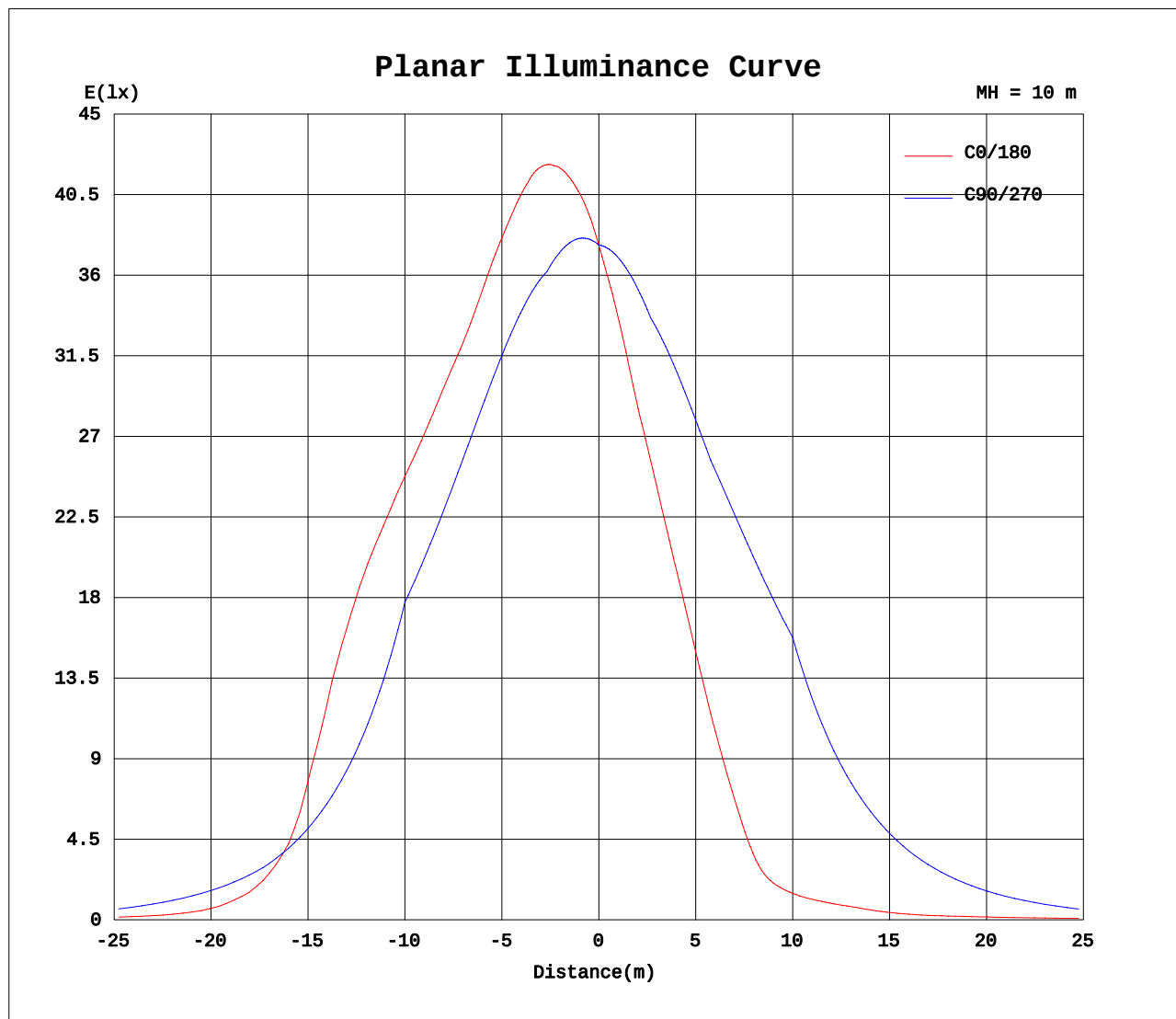


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YangWenPeng
Test Date:2015-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:12.370m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
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Test Date:2015-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:12.370m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT



LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: parking lot lighting	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: ×10cd

H(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
V(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-75	0.00	0.25	0.81	1.92	3.29	4.66	5.43	5.96	6.79	6.79	6.83	7.11	7.67	8.74	11.5	15.1	17.9	20.0	19.8
-70	0.22	0.75	2.07	4.02	5.80	6.86	7.83	9.09	9.77	10.7	14.8	13.1	15.3	20.2	31.0	47.2	65.9	83.3	92.9
-65	0.00	0.28	1.15	2.96	5.58	7.45	8.68	10.1	11.7	13.0	15.3	23.2	19.2	23.0	32.0	53.0	83.5	119	152
-60	0.22	1.01	2.87	6.07	8.51	9.98	11.8	13.9	15.6	18.5	30.4	24.1	28.9	38.8	64.4	107	158	209	247
-55	0.00	0.28	1.43	4.08	7.88	10.1	11.7	13.6	15.7	19.1	23.6	36.4	47.6	82.8	123	167	214	265	308
-50	0.18	1.16	3.91	8.34	10.9	12.8	14.6	16.6	20.7	27.0	38.0	60.7	121	191	251	302	351	392	425
-45	0.00	0.25	1.64	5.29	10.2	12.7	14.6	16.3	18.7	25.3	31.8	46.7	92.9	188	284	357	409	456	489
-40	0.14	1.27	4.95	10.4	13.2	15.1	16.5	19.3	25.1	33.0	52.5	105	192	279	344	392	433	466	498
-35	0.03	0.22	1.86	6.76	12.0	14.6	16.3	17.5	21.8	28.2	37.4	73.8	148	234	304	353	391	425	456
-30	0.11	1.32	6.00	12.2	15.1	16.9	17.4	22.0	28.7	36.4	73.8	156	243	305	344	376	405	433	465
-25	0.04	0.19	2.06	8.18	13.5	16.2	17.7	19.1	25.7	31.7	43.6	93.2	176	251	303	336	365	393	423
-20	0.08	1.32	7.45	13.3	16.4	18.0	19.0	26.4	32.5	42.5	84.6	162	233	284	316	343	370	400	430
-15	0.04	0.15	2.24	9.56	14.6	17.4	18.9	21.2	30.2	35.7	50.6	105	179	238	280	307	330	359	390
-10	0.06	1.34	8.12	13.8	17.1	18.7	20.5	29.7	35.5	46.1	88.0	159	217	261	291	316	344	375	405
-5	0.04	0.11	2.86	9.37	14.6	17.5	19.2	22.7	32.4	37.7	50.6	99.6	164	216	256	285	311	342	373
0	0.05	1.39	8.01	13.7	17.2	18.9	21.9	31.9	37.7	47.1	84.0	146	197	237	267	295	326	358	390
5	0.05	0.08	3.12	8.87	14.0	17.1	18.6	22.0	31.3	36.3	47.2	89.0	152	202	242	273	300	331	363
10	0.05	1.72	7.37	12.7	16.1	17.8	19.5	27.6	33.1	41.0	69.7	134	189	233	267	294	322	355	387
15	0.05	0.06	3.02	8.06	12.9	16.1	17.3	19.3	27.1	31.5	40.4	73.3	141	196	239	272	298	327	360
20	0.05	1.62	6.52	11.2	14.6	16.6	17.8	23.7	29.6	35.3	55.8	114	179	232	272	302	329	360	394
25	0.05	0.05	2.17	6.82	11.1	14.2	16.2	17.9	23.3	29.3	34.2	56.1	115	186	243	284	315	342	374
30	0.04	1.10	5.47	9.41	12.6	15.2	16.8	20.0	27.3	29.9	42.1	86.6	166	234	282	318	345	374	409
35	0.06	0.05	1.42	5.48	9.14	12.1	14.5	16.4	19.9	27.6	32.0	49.1	83.8	157	232	292	338	374	398
40	0.05	0.64	3.90	7.50	10.4	12.8	15.0	17.6	23.5	31.7	45.1	58.1	118	203	280	341	393	410	445
45	0.07	0.05	0.77	4.02	7.10	9.77	12.0	14.6	16.8	26.5	33.7	52.3	48.7	109	207	295	366	422	433
50	0.06	0.29	2.42	5.43	7.93	9.97	12.2	14.3	18.3	26.0	35.7	34.6	69.3	134	199	260	322	350	392
55	0.07	0.06	0.31	2.26	4.82	6.99	8.73	10.8	12.5	16.7	19.8	26.8	27.4	50.9	88.0	128	179	236	282
60	0.06	0.06	1.02	3.22	5.22	6.79	8.49	10.1	11.6	12.7	13.7	16.0	20.5	26.7	40.1	75.5	131	194	252
65	0.08	0.07	0.08	0.95	2.58	4.17	5.42	6.80	8.00	9.07	9.90	11.0	13.1	16.7	21.8	33.5	61.5	101	144
70	0.08	0.07	0.39	1.23	2.49	3.56	4.57	5.44	6.17	6.86	7.76	9.12	11.2	14.4	20.1	34.0	54.9	77.6	95.1
75	0.08	0.08	0.08	0.08	0.39	1.31	2.09	2.72	3.20	3.55	4.11	4.99	5.80	6.85	8.56	10.6	13.9	17.6	19.1
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG
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Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:12.370m [K=1.0000]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT



LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.:	SUR.:	PROTECTION ANGLE:

Table--2

UNIT: ×10cd

H(°) \ V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-75	15.1	11.7	11.3	11.0	10.5	9.52	9.62	13.8	11.3	6.61	5.71	5.15	4.88	4.91	5.28	3.75	1.69	0.16	
-70	99.5	105	108	108	103	90.1	72.1	55.1	38.0	31.0	21.7	11.9	6.50	6.05	5.97	3.56	0.69	0.00	
-65	173	190	200	205	204	193	163	124	90.6	66.5	53.4	33.6	15.8	7.51	6.62	7.81	4.01	0.66	
-60	275	292	301	303	290	252	191	139	100	81.5	54.6	26.0	9.74	7.25	9.86	6.21	1.58	0.00	
-55	342	372	398	420	440	459	470	480	500	475	227	67.1	27.8	11.0	8.05	10.7	6.28	1.27	
-50	458	494	530	570	621	686	763	855	880	487	114	41.6	15.5	9.21	10.8	8.58	2.60	0.00	
-45	521	557	604	656	718	807	931	1082	1241	1231	525	106	40.9	15.3	9.57	12.6	8.52	1.98	
-40	532	572	617	672	745	847	976	1128	1210	786	204	56.3	21.8	11.8	11.5	10.9	3.72	0.00	
-35	488	522	557	599	651	718	810	929	1073	1143	760	191	50.9	21.2	12.2	13.5	10.5	2.95	
-30	497	528	562	607	661	733	830	959	1090	980	324	70.0	28.6	14.9	12.0	13.1	4.91	0.00	
-25	454	485	516	552	594	644	711	802	920	1017	837	242	60.5	26.0	14.4	13.7	12.0	3.85	
-20	461	492	526	563	605	659	734	830	924	865	337	83.0	32.0	16.4	12.8	14.1	5.87	0.00	
-15	419	449	481	515	548	585	634	701	781	852	757	258	69.6	29.7	16.1	13.3	13.0	4.69	
-10	435	466	499	530	563	603	660	731	802	781	356	95.6	34.2	17.5	14.1	14.8	6.82	0.00	
-5	404	433	464	496	524	556	592	645	710	774	718	282	78.4	30.6	16.8	14.8	13.8	5.57	
0	419	449	480	507	535	564	607	661	725	727	381	108	35.4	18.2	16.1	15.4	7.76	0.00	
5	395	424	455	488	515	542	573	620	676	732	680	280	79.2	30.8	17.4	15.8	14.3	6.27	
10	417	449	482	512	539	568	612	666	722	700	338	98.9	34.7	18.3	16.3	15.5	8.28	0.00	
15	392	422	455	490	519	546	577	625	680	727	644	252	72.1	30.2	18.0	16.2	14.6	6.81	
20	425	457	493	526	557	594	645	706	757	674	276	84.2	33.0	18.0	16.3	15.7	8.80	0.70	
25	408	440	473	510	546	582	629	689	757	791	578	186	59.4	27.9	17.2	16.2	14.9	7.42	
30	442	475	513	551	591	643	706	782	830	650	196	63.7	30.3	17.2	16.3	15.9	9.32	1.40	
35	434	470	508	551	600	652	722	811	898	877	478	130	47.7	24.3	16.0	16.0	14.8	7.79	
40	484	525	572	628	690	771	877	987	976	520	139	49.2	24.8	15.8	15.4	15.5	9.31	2.42	
45	471	514	559	613	680	755	857	992	1102	984	344	86.0	37.0	19.4	14.5	15.7	14.4	7.93	
50	435	477	524	582	649	731	838	922	802	340	91.7	36.2	19.3	13.7	14.9	14.9	9.20	3.28	
55	331	374	412	456	509	571	643	729	739	491	177	59.4	26.5	15.1	12.1	15.8	13.6	7.96	
60	297	332	370	414	467	524	588	589	308	109	54.0	24.8	14.0	10.9	14.9	14.2	9.02	3.95	
65	180	207	230	256	287	323	365	410	384	170	67.8	35.2	17.1	11.3	11.0	15.2	12.5	7.79	
70	107	119	132	146	165	189	217	220	119	47.6	27.8	14.4	9.89	9.97	14.1	12.6	8.38	4.80	
75	16.0	12.7	12.5	12.6	12.9	14.0	23.9	33.2	35.1	21.7	17.0	13.4	8.76	7.76	11.2	13.8	11.0	7.44	
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:YangWenPeng
Test Date:2015-11-26

V(B) Range:-75 - 75DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:12.370m [K=1.0000]
Remarks: