

VOL-EPF-120-CW



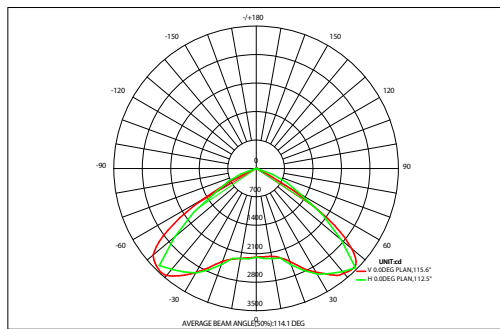
Light Output Ratio:	100.0%
Luminaire Power:	123.4 W
90% Beam Spread	67.2V x 84.5H
50% Beam Lumens	890.9 lumens per klm.

H(□) Range: - 90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: MENG
Test Date: 2011-05-20

V(B) Range: - 75 - 75DEG
V(B) Interval: 5.0DEG
Test System EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity: 65.0%
Test Distance: 6.150m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.9V I:0.5630A P:123.4W PF:0.9950 Lamp Flux:9229.11x1 lm		
NAME: LED Explosion-Proof Light	TYPE:120W	WEIGHT:6.5KG
DIM.:	SPEC.:	SERIAL No.:2011-0520-10
MFR.: VOLLNER GMBH	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:74.79lm/W	
MODEL	VOL-EPF-120-CW	Imax(cd)	3602
NOMINAL POWER(W)	128	AVAILABILITY(%)	98.9
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	9127
NOMINAL FLUX(lm)	9229.11	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	9229
TEST VOLTAGE(V)	219.9	50%(H,V)	104,100DEG

		AREA FLUX DIAGRAM													UNIT:lm		t	a																																					
VERTICAL(DEG)	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	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	0.02	0.08	0.36	0.75	0.83	0.94	1.01	1.03	0.99	0.86	0.78	0.53	0.10	0.03	0.01	0.00	8.34	0.00																																		
	70	0.00	0.02	0.19	0.59	0.83	1.66	7.49	17.8	24.7	25.3	20.2	10.5	2.60	0.88	0.57	0.22	0.02	0.00	114	97.0																																		
	60	0.00	0.04	0.39	1.01	5.82	16.5	31.9	48.1	56.8	56.8	49.0	34.2	19.6	8.95	1.65	0.35	0.05	0.00	331	321																																		
	50	0.00	0.09	0.56	2.06	23.6	61.2	89.4	102	105	105	101	89.9	66.3	29.2	3.16	0.50	0.09	0.00	778	774																																		
	40	0.01	0.17	0.68	12.7	50.0	80.6	94.3	96.5	96.1	95.6	94.0	90.6	78.3	51.3	16.9	0.99	0.14	0.01	859	856																																		
	30	0.01	0.23	1.16	24.9	68.1	90.1	92.6	87.7	85.0	84.5	85.1	88.1	86.2	68.2	27.8	2.13	0.19	0.01	892	890																																		
		0.01	0.25	2.92	35.8	72.6	84.8	80.4	73.0	69.9	69.5	71.1	76.8	80.2	71.1	37.2	4.11	0.21	0.01	830	828																																		
		0.01	0.26	4.19	39.0	72.8	82.4	77.3	70.3	68.1	67.3	68.0	73.8	78.4	72.1	40.4	5.07	0.22	0.01	820	818																																		
		0.01	0.26	4.88	39.6	72.5	81.8	76.7	70.0	67.9	66.7	67.1	72.9	78.0	72.6	41.2	5.09	0.23	0.01	818	816																																		
		0.02	0.26	3.89	35.6	71.3	84.0	80.9	74.1	70.7	69.5	71.4	76.7	80.7	72.1	36.9	3.85	0.22	0.01	832	830																																		
		0.02	0.24	2.58	25.3	63.4	85.5	90.0	86.8	84.3	83.4	84.6	87.3	85.2	66.7	26.6	1.92	0.21	0.01	874	872																																		
		0.02	0.21	0.93	15.4	50.1	79.6	93.3	96.0	95.7	95.1	94.9	92.9	82.0	53.5	15.0	0.84	0.18	0.02	865	863																																		
		0.02	0.15	0.72	5.31	24.4	58.7	85.5	98.5	103	102	98.9	87.7	63.4	26.4	2.13	0.48	0.12	0.02	757	754																																		
		0.02	0.11	0.41	1.85	10.8	22.7	36.0	48.7	55.7	56.4	50.5	37.2	21.5	8.00	1.30	0.42	0.08	0.02	352	344																																		
		0.02	0.07	0.28	0.70	0.44	0.59	3.63	12.5	19.0	19.5	13.6	5.82	1.36	0.45	0.53	0.23	0.06	0.02	78.9	63.9																																		
		0.02	0.06	0.13	0.19	0.58	1.18	2.28	3.34	3.61	3.23	2.11	0.88	0.81	0.58	0.19	0.07	0.05	0.02	19.3	1.34																																		
		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	0.00																																	
	-90	-80	-70	-60	-50	-40	-30	-20	20	30	40	50	60	70	80	90																																							
t	0.21	2.41	23.9	240	588	832	943	986	1006	1001	972	926	825	603	252	26.3	2.10	0.18	9229	---																																			
a	0.00	0.00	15.8	232	582	825	931	979	1002	997	967	917	819	597	244	18.5	0.00	0.00	---	9127																																			

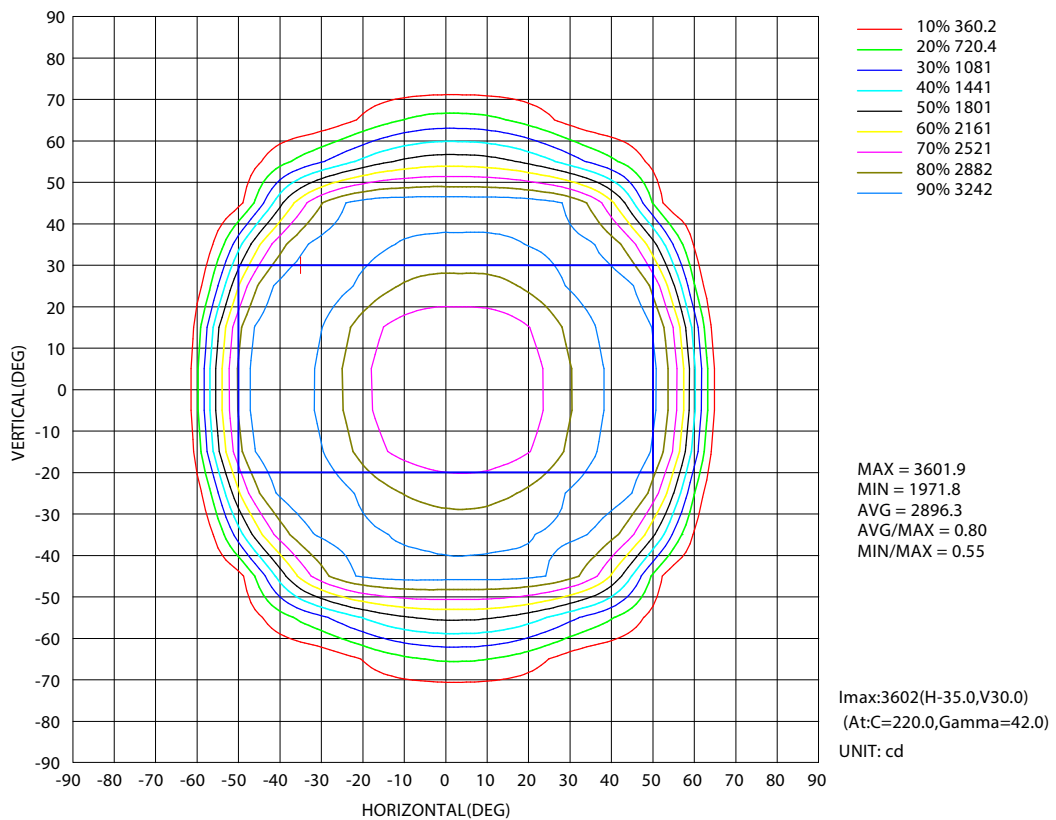
one-half-peak spread: U:19.7,D:20.2 , L:18.2,R:18.8

H(□) Range: - 90 - 90DEG
 H(□) Interval: 1.0DEG
 Test Speed: HI GH
 Temperature: 25.3DEG
 Operator: MENG
 Test Date: 2011-05-20

V(B) Range: - 75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.150m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:219.9V I:0.5630A P:123.4W PF:0.9950 Lamp Flux:9229.11x1 lm		
NAME: LED Explosion-Proof Light	TYPE:120W	WEIGHT:6.5KG
DIM.:	SPEC.:	SERIAL No.:2011-0520-10
MFR.: VOLLNER GMBH	SUR.:	PROTECTION ANGLE:

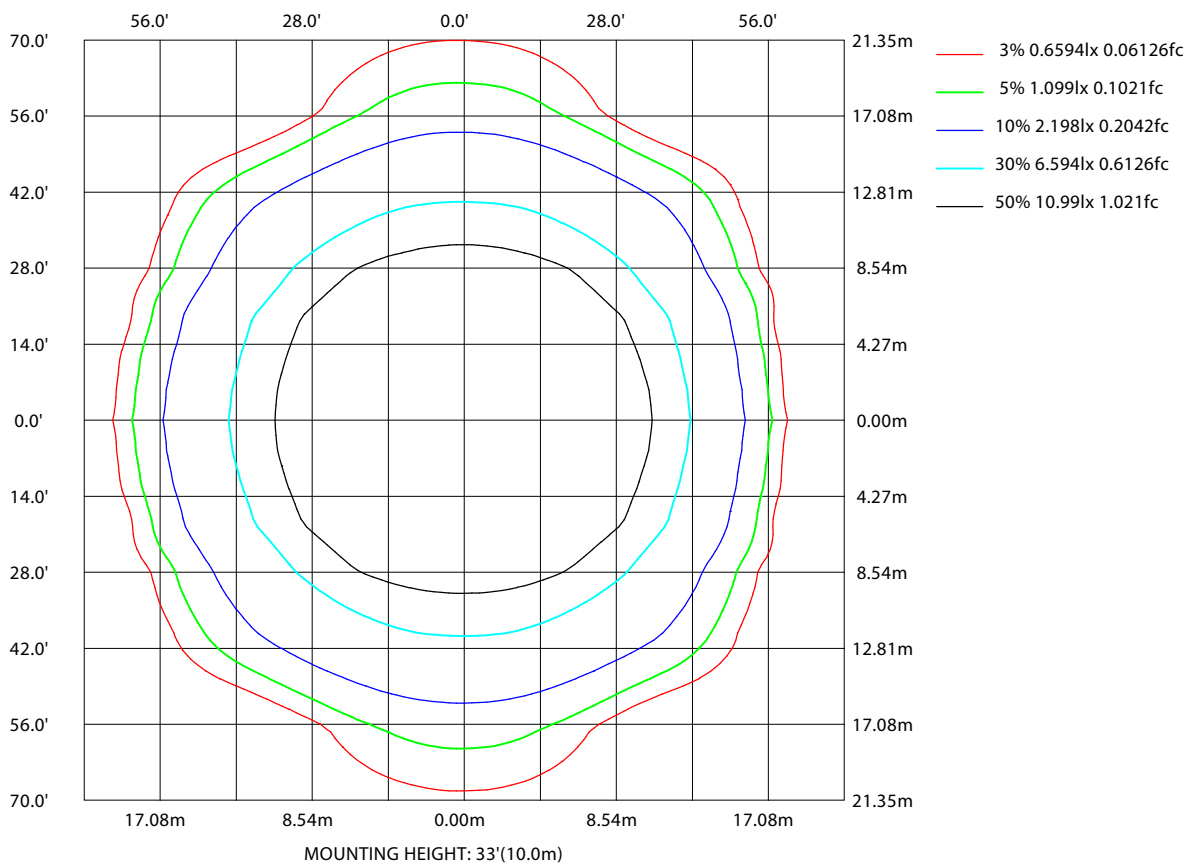


H(□) Range: - 90 - 90DEG
 H(□) Interval: 1. 0DEG
 Test Speed: HIGH
 Temperature: 25. 3DEG
 Operators: MENG
 Test Date: 2011- 05- 20

V(B) Range: - 75 - 75DEG
 V(B) Interval: 5. 0DEG
 Test System EVERFINE GO-2000B_V1 SYSTEM V1. 0. 260
 Humidity: 65. 0%
 Test Distance: 6. 150m [K=1. 0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:219.9V I:0.5630A P:123.4W PF:0.9950 Lamp Flux:9229.11x1 lm		
NAME: LED Explosion-Proof Light	TYPE:120W	WEIGHT:6.5KG
DIM.:	SPEC.:	SERIAL No.:2011-0520-10
MFR.: VOLLNER GMBH	SUR.:	PROTECTION ANGLE:

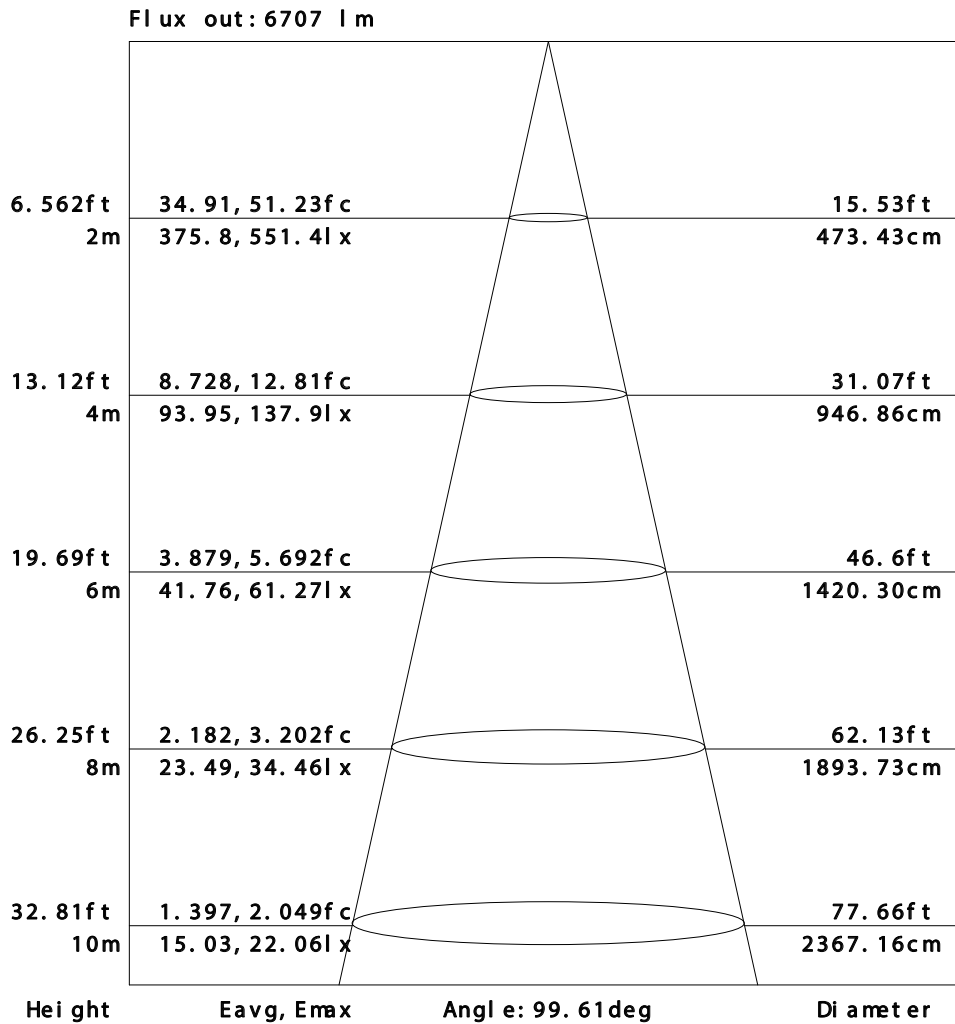


H(□) Range: - 90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: MENG
Test Date: 2011-05-20

V(B) Range: - 75 - 75DEG
V(B) Interval: 5.0DEG
Test System EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity: 65.0%
Test Distance: 6.150m [K=1.0000]
Remarks:

AAI Figure

Test:U:219.9V I:0.5630A P:123.4W PF:0.9950 Lamp Flux:9229.11x1 lm		
NAME: LED Explosion-Proof Light	TYPE:120W	WEIGHT:6.5KG
DIM.:	SPEC.:	SERIAL No.:2011-0520-10
MFR.: VOLLNER GMBH	SUR.:	PROTECTION ANGLE:

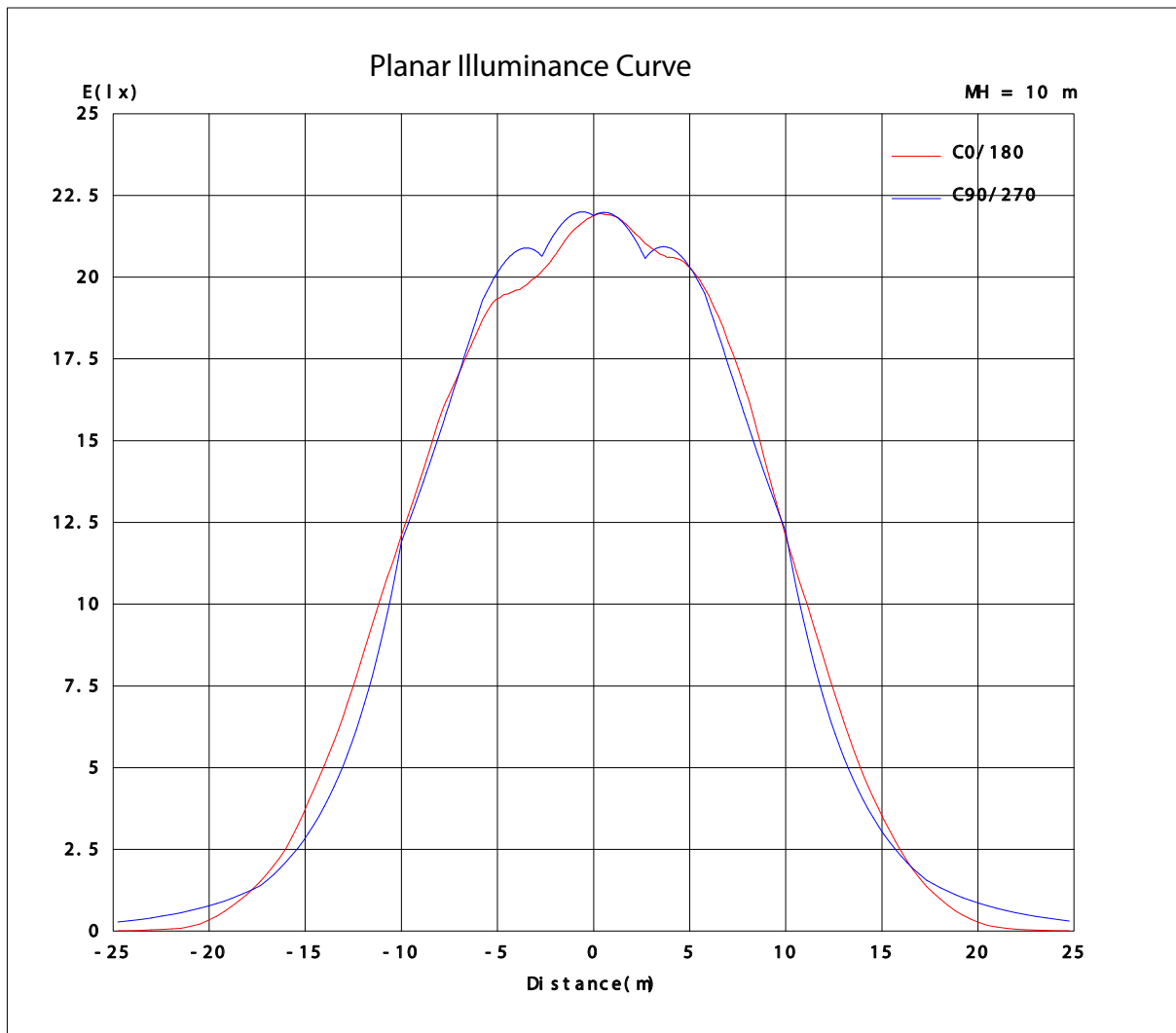


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(□) Range: -90 - 90DEG
H(□) Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: MENG
Test Date: 2011-05-20

V(B) Range: -75 - 75DEG
V(B) Interval: 5.0DEG
Test System EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity: 65.0%
Test Distance: 6.150m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(□) Range: - 90 - 90DEG
 H(□) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: MENG
 Test Date: 2011-05-20

V(B) Range: - 75 - 75DEG
 V(B) Interval: 5.0DEG
 Test System EVERFINE GO-2000B_V1 SYSTEM V1.0.260
 Humidity: 65.0%
 Test Distance: 6.150m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.9V I:0.5630A P:123.4W PF:0.9950 Lamp Flux:9229.11x1 lm		
NAME: LED Explosion-Proof Light	TYPE:120W	WEIGHT:6.5KG
DIM.:	SPEC.:	SERIAL No.:2011-0520-10
MFR.: VOLLNER GMBH	SUR.:	PROTECTION ANGLE:

Table-1

UNIT: cd

H(DEG) V(DEG)	-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	10.9	9.72	8.76	7.70	7.21	7.39	8.39	10.2	12.8	20.9	39.0	40.5	41.0	44.7	46.8	46.9	47.6	47.8	47.8
-70	10.1	9.23	8.32	8.22	8.96	16.0	24.0	25.6	25.9	39.8	46.0	58.6	108	181	260	327	373	400	406
-65	11.4	9.90	8.81	8.65	9.68	12.1	31.8	42.2	36.8	39.3	46.6	58.5	106	227	376	532	649	723	762
-60	10.4	9.28	8.78	10.1	12.4	32.4	53.3	53.8	47.1	49.7	57.1	94.7	237	450	686	886	1024	1104	1123
-55	11.6	9.80	8.87	9.87	15.9	27.5	44.4	57.6	112	322	568	796	1005	1239	1455	1637	1765	1837	1873
-50	10.2	8.92	9.72	12.6	36.4	41.4	49.4	97.6	413	891	1358	1743	2055	2305	2452	2551	2607	2623	2621
-45	11.3	9.44	8.95	11.4	25.8	53.5	46.1	56.3	238	868	1604	2253	2739	3079	3285	3361	3393	3392	3378
-40	9.48	8.20	10.1	22.2	46.7	48.1	157	534	1174	1884	2473	2898	3153	3297	3312	3299	3280	3251	3236
-35	10.3	8.22	8.22	11.8	40.6	47.4	80.4	504	1273	2059	2676	3076	3286	3356	3336	3261	3191	3144	3111
-30	8.40	7.10	9.89	39.1	43.3	52.4	376	1362	2333	3027	3401	3562	3531	3427	3265	3131	3044	2987	2967
-25	9.07	6.76	7.25	14.4	45.9	47.0	236	1059	2106	2869	3300	3475	3461	3337	3158	2991	2869	2794	2750
-20	6.81	5.64	9.08	43.1	43.1	144	934	2034	2876	3296	3464	3415	3257	3049	2835	2690	2597	2534	2511
-15	7.78	5.05	6.03	19.4	41.7	52.3	512	1721	2736	3298	3476	3448	3264	3022	2751	2552	2426	2344	2295
-10	5.46	4.48	8.48	44.4	43.7	229	1311	2464	3201	3435	3475	3299	3063	2796	2558	2416	2331	2274	2250
-5	6.54	3.97	5.30	23.2	40.7	62.0	667	1929	2906	3356	3468	3386	3161	2896	2623	2433	2327	2267	2229
0	4.34	3.62	8.06	42.7	45.0	309	1506	2653	3307	3445	3435	3215	2948	2668	2435	2308	2246	2205	2183
5	5.52	3.14	4.69	22.9	40.1	60.9	670	1934	2917	3360	3472	3387	3157	2883	2613	2423	2314	2256	2225
10	3.64	3.11	7.53	43.4	43.2	231	1314	2482	3213	3442	3484	3302	3041	2775	2537	2392	2306	2259	2250
15	4.73	2.56	4.21	18.4	39.9	48.9	522	1735	2769	3311	3488	3452	3252	2982	2721	2520	2387	2309	2282
20	3.02	2.57	6.73	41.7	41.6	145	941	2060	2913	3326	3488	3431	3240	3030	2818	2665	2570	2526	2524
25	3.90	2.12	3.46	11.5	42.7	44.0	238	1076	2146	2931	3337	3510	3480	3327	3160	2982	2852	2784	2763
30	2.47	2.00	5.67	37.5	40.2	50.0	387	1387	2407	3097	3449	3602	3544	3432	3278	3127	3038	3007	3005
35	3.18	1.73	2.66	7.12	36.5	43.0	78.1	514	1307	2129	2739	3141	3349	3398	3377	3295	3209	3170	3154
40	2.01	1.47	4.29	18.0	42.3	43.4	156	540	1210	1950	2554	2985	3236	3356	3385	3349	3324	3312	3306
45	2.55	1.40	1.80	5.17	21.3	45.8	40.8	49.8	253	905	1693	2346	2857	3197	3371	3458	3458	3466	3457
50	1.65	1.10	2.88	6.77	31.3	36.5	43.2	93.6	422	933	1421	1814	2135	2376	2548	2638	2696	2724	2722
55	2.06	1.22	1.16	3.22	10.5	21.8	40.4	51.3	112	330	593	823	1043	1289	1526	1728	1865	1956	1988
60	1.38	0.87	1.44	3.83	7.20	29.4	47.1	46.8	41.0	43.8	49.6	89.4	243	494	767	994	1154	1241	1252
65	1.70	1.13	0.84	1.73	3.72	7.26	28.0	36.7	31.0	35.3	41.0	54.1	105	237	415	589	727	815	850
70	1.29	0.92	0.99	1.78	3.46	11.8	19.1	20.6	22.1	37.5	43.0	57.4	108	191	284	360	414	443	447
75	1.46	1.11	0.86	0.71	1.02	2.08	3.74	5.95	8.87	20.8	37.0	40.5	41.8	39.9	40.2	42.7	44.1	44.3	44.6
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() Range: - 90 - 90DEG
H() Interval: 1. 0DEG
Test Speed: HI GH
Temperature: 25. 3DEG
Operators: MENG
Test Date: 2011- 05- 20

V(B) Range: - 75 - 75DEG
V(B) Interval: 5. 0DEG
Test System EVERFINE GO- 2000B_V1 SYSTEM V1. 0. 260
Humidity: 65. 0%
Test Distance: 6. 150m [K=1. 0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.9V I:0.5630A P:123.4W PF:0.9950 Lamp Flux:9229.11x1 lm		
NAME: LED Explosion-Proof Light	TYPE:120W	WEIGHT:6.5KG
DIM.:	SPEC.:	SERIAL No.:2011-0520-10
MFR.: VOLLNER GMBH	SUR.:	PROTECTION ANGLE:

Table-2

UNIT: cd

H(DEG) \ V(DEG)	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	47.4	46.5	44.4	42.3	40.9	40.2	40.3	39.0	32.9	14.4	10.8	8.74	7.31	6.59	6.71	7.63	8.72	9.49
-70	396	364	309	231	146	79.2	51.3	40.8	28.6	23.5	24.2	18.5	8.93	7.60	7.63	8.25	9.29	10.2
-65	760	725	643	517	355	190	85.5	55.5	42.8	35.2	37.5	36.2	22.5	9.74	8.36	7.93	8.62	9.68
-60	1095	1002	840	610	359	157	74.3	48.9	47.0	46.5	53.7	39.8	13.2	9.86	8.37	8.17	9.33	10.7
-55	1869	1835	1751	1610	1415	1180	959	753	506	249	75.3	48.8	34.2	21.9	10.2	8.34	8.23	9.47
-50	2617	2584	2510	2382	2192	1933	1607	1164	651	203	55.3	42.2	36.1	17.7	9.42	7.90	8.63	10.2
-45	3374	3378	3367	3321	3220	3011	2662	2130	1423	657	124	46.4	42.4	43.2	12.2	8.87	7.53	8.87
-40	3246	3263	3271	3263	3202	3042	2744	2248	1563	832	321	65.0	45.8	28.7	10.1	7.36	7.58	9.38
-35	3103	3125	3166	3220	3279	3294	3225	3001	2566	1873	1025	322	48.3	41.1	26.4	8.57	6.25	7.55
-30	2981	3040	3121	3252	3388	3484	3487	3301	2784	1934	850	108	42.4	42.9	10.3	6.55	6.18	8.16
-25	2739	2769	2841	2949	3107	3276	3397	3422	3238	2718	1807	733	104	40.4	35.3	8.00	4.87	6.10
-20	2522	2585	2677	2827	3035	3221	3373	3388	3158	2516	1458	418	48.5	39.2	13.4	5.31	4.53	6.74
-15	2282	2312	2392	2509	2704	2958	3180	3393	3437	3192	2470	1279	210	41.0	39.2	7.18	3.39	4.53
-10	2255	2303	2395	2555	2805	3041	3273	3409	3369	2892	1888	672	59.6	37.2	16.5	4.49	3.26	5.54
-5	2213	2226	2275	2388	2589	2859	3082	3328	3413	3302	2661	1485	322	41.3	38.3	7.04	2.98	3.60
0	2180	2195	2273	2436	2700	2944	3188	3364	3419	3060	2142	870	75.8	36.9	19.7	4.07	2.40	4.56
5	2213	2225	2270	2389	2595	2865	3085	3321	3412	3311	2670	1491	320	41.4	38.0	6.72	2.60	2.90
10	2257	2294	2390	2563	2818	3050	3279	3402	3380	2908	1900	674	61.1	36.6	15.8	3.68	2.04	3.90
15	2284	2307	2377	2513	2720	2975	3189	3372	3431	3217	2500	1296	207	41.2	38.3	6.22	2.25	2.44
20	2531	2573	2674	2833	3047	3232	3378	3387	3189	2545	1479	420	49.5	37.5	11.6	3.24	1.73	3.33
25	2764	2774	2836	2952	3111	3275	3406	3422	3264	2767	1845	743	105	39.5	33.1	5.40	1.86	2.09
30	3003	3034	3123	3247	3387	3489	3486	3320	2846	1972	877	108	40.9	39.5	7.13	2.73	1.47	2.85
35	3155	3157	3193	3253	3315	3332	3274	3046	2621	1928	1055	327	49.9	38.6	22.7	4.41	1.46	1.80
40	3306	3314	3333	3327	3293	3132	2820	2328	1622	852	333	63.5	41.8	24.4	5.42	2.02	1.32	2.43
45	3456	3458	3449	3414	3334	3146	2793	2244	1501	699	129	46.1	40.2	38.5	7.25	3.24	1.05	1.58
50	2710	2672	2604	2477	2304	2032	1683	1238	689	209	57.0	39.5	31.2	12.8	3.77	1.40	1.19	2.05
55	1981	1940	1846	1701	1505	1261	1016	791	532	262	73.7	46.0	31.7	17.3	4.78	2.05	0.94	1.40
60	1215	1108	934	696	422	189	76.2	50.0	46.0	42.7	49.6	36.3	9.12	4.60	2.17	0.87	1.09	1.73
65	844	803	712	578	408	226	98.8	57.3	43.5	34.1	33.0	32.2	19.3	4.96	2.61	1.21	0.89	1.26
70	436	400	341	260	168	90.7	53.5	42.1	31.9	20.2	20.3	14.5	4.47	2.16	1.24	0.83	1.05	1.48
75	45.4	45.7	45.2	43.6	41.2	40.8	42.0	41.2	35.8	14.5	7.23	4.78	2.99	1.62	0.74	0.73	0.88	1.16
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() Range: - 90 - 90DEG
H() Interval: 1.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: MENG
Test Date: 2011-05-20

V(B) Range: - 75 - 75DEG
V(B) Interval: 5.0DEG
Test System EVERFINE GO-2000B_V1 SYSTEM V1.0.260
Humidity: 65.0%
Test Distance: 6.150m [K=1.0000]
Remarks: