

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

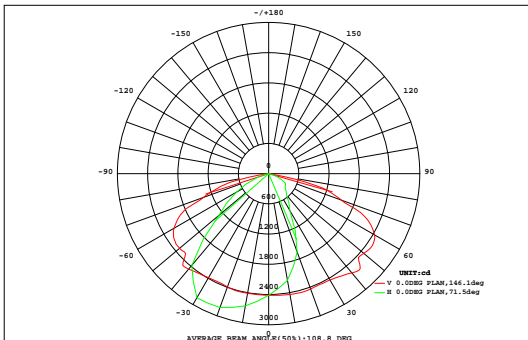
Maximum Intensity (Luminaire orientation as tested.)		431.5 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of I _{max} At 50% of I _{max} At 90% of I _{max}	134.4V x 160.0H 71.5V x 146.1H 30.3V x 124.7H
Beam Flux	Total To 10% of I _{max} To 50% of I _{max} To 90% of I _{max}	1000.0 lumens per klm. 975.2 lumens per klm. 761.0 lumens per klm. 140.2 lumens per klm.
	Upward LOR Downward LOR	0.0 % 100.0 %
Luminaire Efficiency(Light Output Ratio)		100.1 %

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-13

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:65.0%
Test Distance:13.440m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.2V I:0.3824A P:79.60W PF:0.9496 Lamp Flux:7729.16x1 lm		
NAME:	TYPE:FLOODLIGHT	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:97.10lm/W	
MODEL	F-LED218-80W	Imax(cd)	3091
NOMINAL POWER(W)	80	AVAILABILITY(%)	98.0
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	7574.6
NOMINAL FLUX(lm)	7729.16	LOR(%)	100.1
LAMPS INSIDE	1	TOTAL FLUX(lm)	7729.16
TEST VOLTAGE(V)	220	θ @50%(H,V)	146,72DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.01	0.03	0.06	0.08	0.11	0.12	0.13	0.13	0.13	0.13	0.12	0.10	0.08	0.06	0.03	0.01	0.00	1.33	0.00
90	0.00	0.05	0.16	0.38	0.59	0.83	1.17	1.64	2.09	1.99	1.55	1.14	0.88	0.73	0.62	0.26	0.03	0.00	14.1	0.00
80	0.01	0.16	0.67	1.41	2.24	3.10	4.41	6.26	7.89	7.67	6.07	4.40	3.39	2.75	2.32	1.38	0.20	0.01	54.4	7.59
70	0.01	0.41	1.86	3.45	5.17	6.80	9.00	11.1	12.8	12.8	11.2	9.15	7.39	5.93	4.67	3.43	0.75	0.01	106	69.3
60	0.02	0.86	3.28	5.97	8.10	10.4	12.8	13.7	14.5	14.5	14.0	13.4	11.4	9.45	7.52	5.00	1.67	0.02	146	140
50	0.04	1.87	5.97	10.5	13.3	16.6	18.5	19.3	20.3	20.6	20.6	20.5	19.1	15.6	13.1	8.09	2.88	0.03	227	225
40	0.07	3.65	11.1	18.8	24.2	30.3	32.6	34.2	35.5	36.2	36.3	35.8	34.0	27.5	22.4	13.8	4.63	0.05	401	401
30	0.11	5.40	17.0	28.5	37.9	47.2	51.7	55.9	58.5	58.9	57.0	53.8	50.1	41.2	32.4	20.1	6.52	0.07	622	622
20	0.16	7.21	22.4	36.7	48.3	57.4	62.3	67.5	69.9	70.3	68.2	63.7	59.4	51.4	40.7	25.5	7.84	0.08	759	759
10	0.19	8.33	25.8	42.2	54.4	63.2	68.6	74.1	76.8	77.3	75.4	70.3	65.1	57.7	46.0	28.7	8.64	0.07	843	842
0	0.14	8.71	27.6	46.0	59.0	68.0	72.8	78.8	83.0	83.8	80.8	75.1	70.3	62.4	50.2	30.6	8.78	0.05	906	906
-10	0.06	8.30	27.6	48.0	61.3	71.9	75.0	80.4	85.8	86.7	82.2	76.6	73.3	64.3	51.8	30.1	8.24	0.04	932	931
-20	0.03	7.18	25.5	46.9	60.1	71.2	73.5	76.7	80.8	81.0	77.3	73.8	71.3	61.3	49.2	26.3	6.69	0.04	889	888
-30	0.03	5.22	20.9	39.7	49.8	56.7	58.8	58.6	58.7	58.1	57.5	57.1	55.2	47.5	38.2	20.7	4.62	0.03	687	687
-40	0.02	2.78	14.6	24.7	28.5	29.0	31.5	30.7	29.6	29.1	29.4	29.3	27.0	25.5	21.6	13.0	1.98	0.02	368	367
-50	0.02	0.53	7.30	12.8	14.3	13.7	14.9	16.0	15.7	15.3	15.1	14.1	11.9	11.8	11.4	6.42	0.43	0.02	182	172
-60	0.01	0.10	1.33	3.19	2.27	2.60	2.69	3.52	3.64	3.50	3.32	2.35	1.44	1.01	1.14	0.44	0.07	0.01	32.7	1.10
-70	0.01	0.04	0.05	0.07	0.09	0.12	0.14	0.14	0.13	0.13	0.13	0.11	0.10	0.09	0.07	0.06	0.04	0.01	1.55	0.00
-80	0.01	0.04	0.05	0.07	0.09	0.12	0.14	0.14	0.13	0.13	0.13	0.11	0.10	0.09	0.07	0.06	0.04	0.01	1.55	0.00
-90	0.01	0.04	0.05	0.07	0.09	0.12	0.14	0.14	0.13	0.13	0.13	0.11	0.10	0.09	0.07	0.06	0.04	0.01	1.55	0.00
	0.93	60.8	213	369	470	549	590	629	656	658	636	601	561	486	393	234	64.0	0.57	7173	---
	0.00	56.4	206	360	459	537	579	618	644	647	625	589	550	477	385	228	59.3	0.00	---	7018

one-half-peak spread: U:18.7,D:53.2 , L:19.0,R:17.8 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-13

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:65.0%
Test Distance:13.440m [K=1.0000]
Remarks:

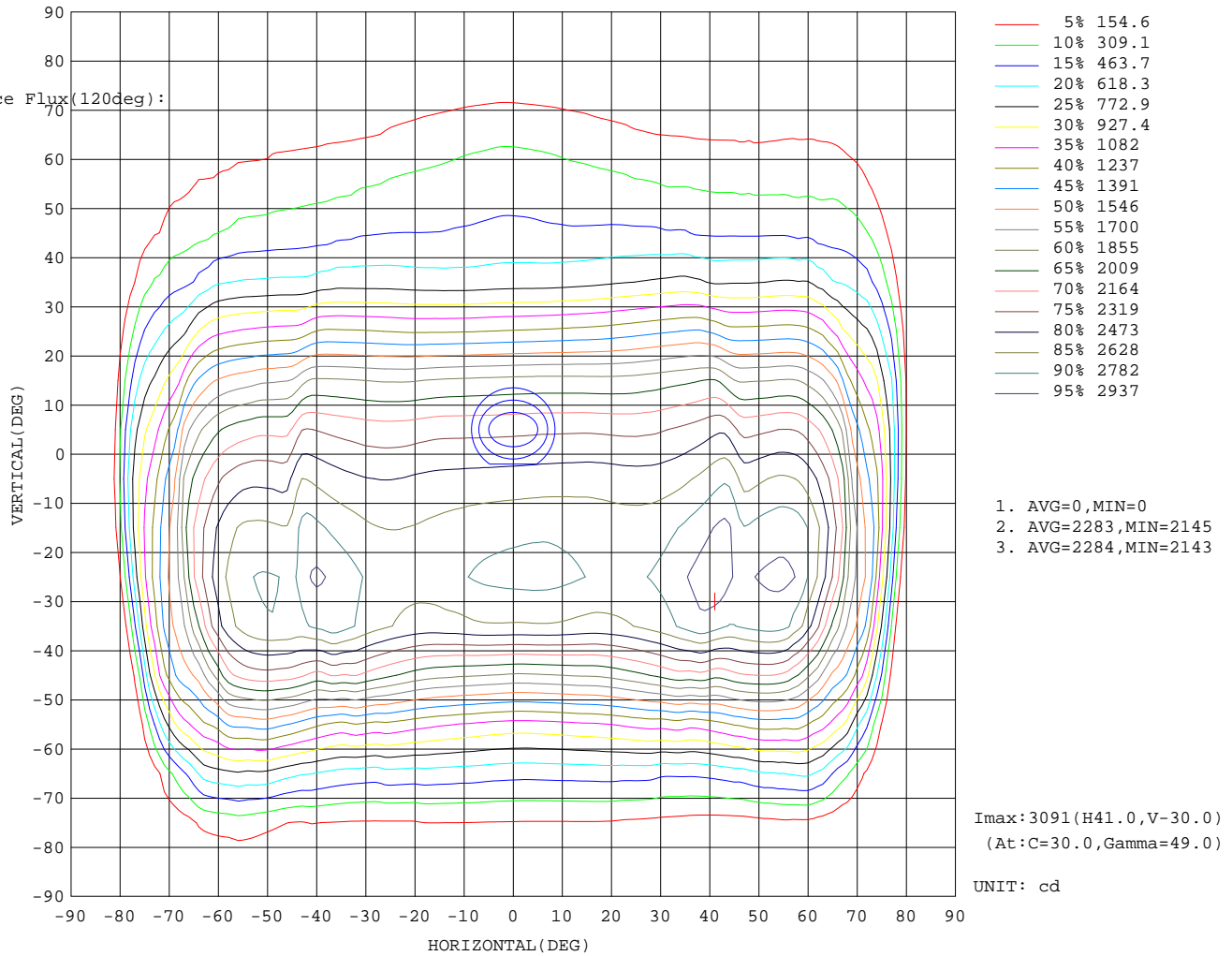
ISOCANDELA DIAGRAM

Conical surface Flux(90deg):

3879.4 lm
 %lum = 54.2%
 %lamp = 54.2%

Conical surface Flux(120deg):

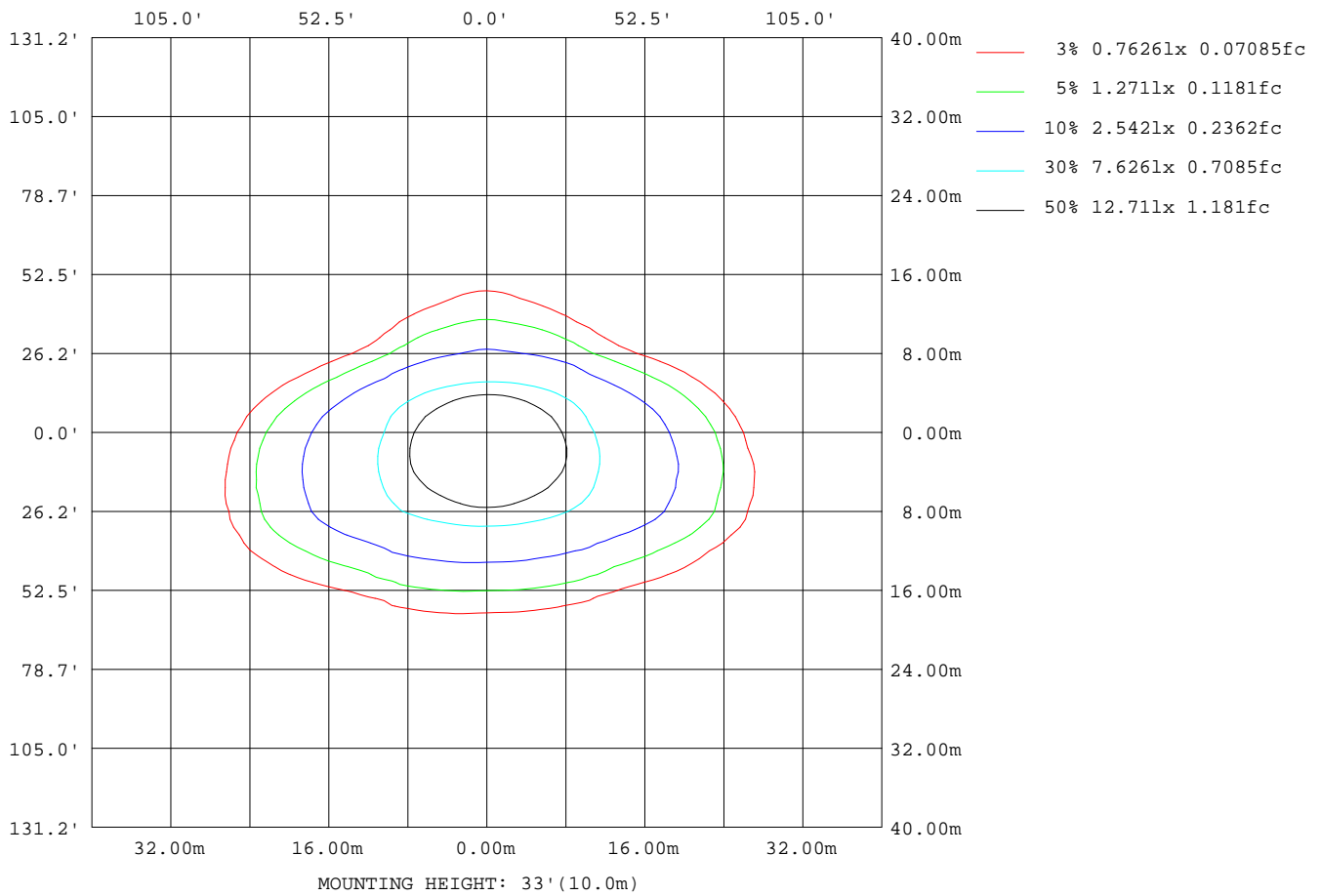
5800.5 lm
 %lum = 81.0%
 %lamp = 81.0%



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-13

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:65.0%
 Test Distance:13.440m [K=1.0000]
 Remarks:

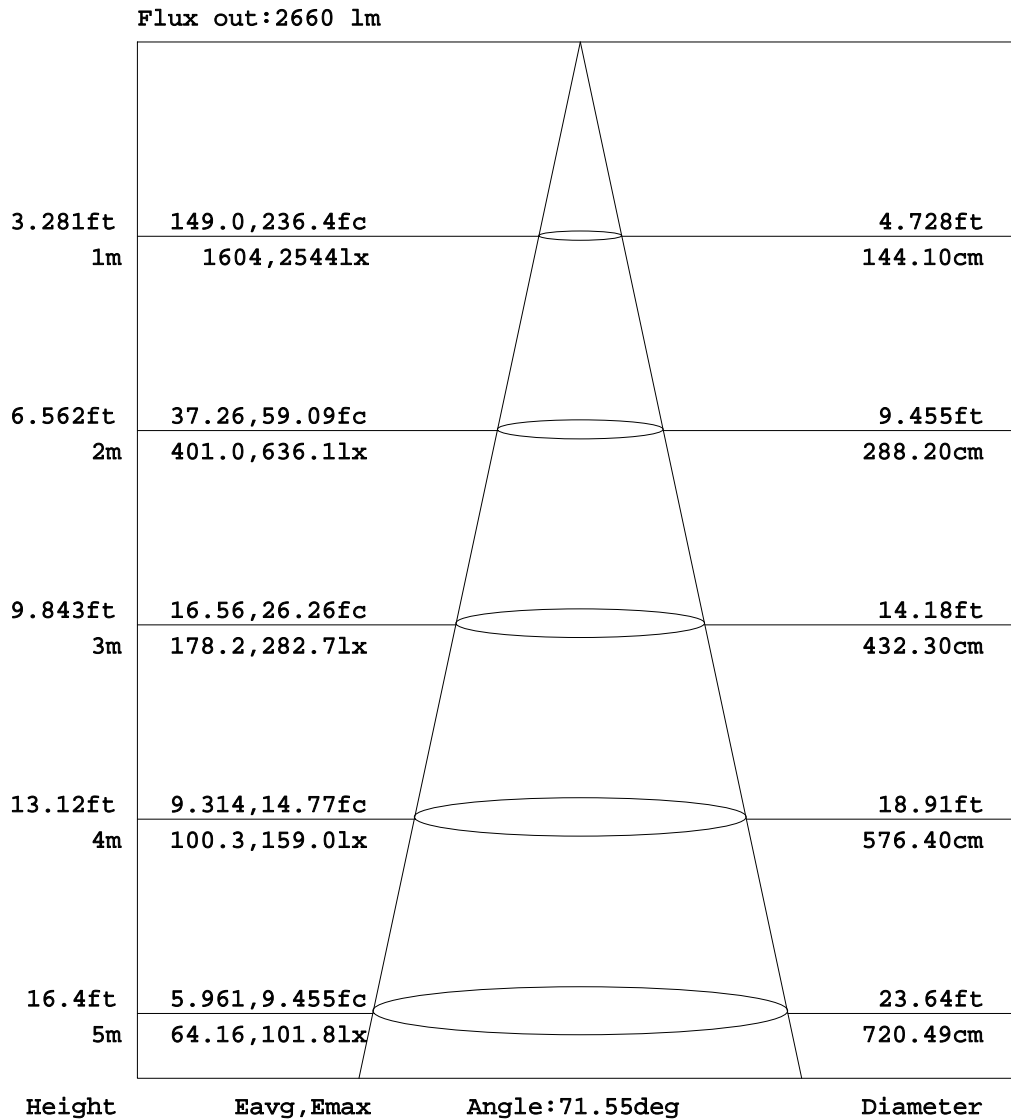
ISOLUX DIAGRAM



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-13

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:65.0%
 Test Distance:13.440m [K=1.0000]
 Remarks:

AAI Figure

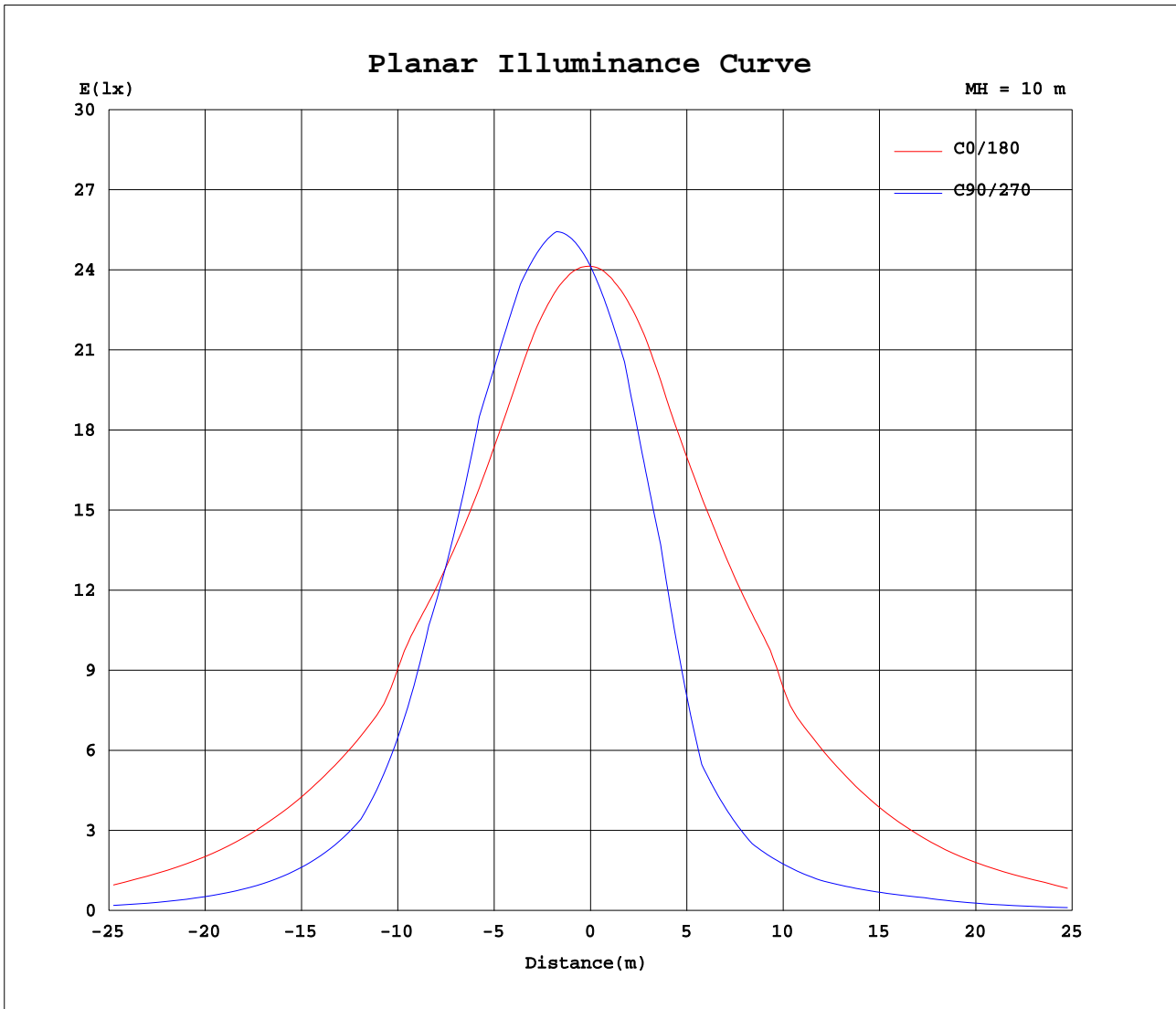


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-13

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:65.0%
 Test Distance:13.440m [K=1.0000]
 Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
 H(β) Interval: 1.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2017-12-13

V(B) Range:-90 - 90DEG
 V(B) Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
 Humidity:65.0%
 Test Distance:13.440m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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	0.98	2.50	2.50	2.39	2.35	2.26	2.21	2.26	2.21	2.12	2.10	2.08	2.10	2.07	1.97	1.96	1.89	1.89	1.93
-85	0.92	2.39	2.85	5.73	8.24	10.4	12.1	12.4	12.2	12.0	12.3	12.9	12.8	13.2	13.4	13.2	12.8	11.7	11.6
-80	0.86	2.28	3.19	9.06	14.1	18.5	21.9	22.5	22.1	21.9	22.4	23.7	23.6	24.4	24.9	24.5	23.6	21.5	21.2
-75	0.80	2.38	6.91	14.8	46.6	140	207	233	188	151	156	147	141	141	142	155	154	149	147
-70	0.74	2.49	10.6	20.6	79.0	261	392	444	354	280	290	270	259	257	259	286	284	277	272
-65	0.68	3.32	12.9	32.9	280	560	721	745	734	655	609	562	539	564	550	551	539	523	512
-60	0.62	4.14	15.1	45.2	481	859	1050	1046	1114	1029	929	855	818	871	841	817	793	770	751
-55	0.55	4.82	18.9	207	809	1125	1297	1431	1459	1376	1263	1189	1212	1197	1143	1101	1070	1041	1021
-50	0.47	5.50	22.6	368	1137	1391	1544	1816	1805	1722	1596	1524	1605	1523	1445	1385	1347	1312	1290
-45	0.45	5.49	27.0	542	1281	1554	1929	2218	2264	2229	2108	2157	2127	2030	1949	1899	1875	1855	1833
-40	0.43	5.47	31.5	716	1426	1717	2314	2620	2723	2736	2621	2790	2648	2537	2452	2412	2403	2399	2375
-35	0.39	5.70	62.0	867	1496	1910	2423	2687	2776	2763	2817	2854	2725	2634	2576	2565	2590	2614	2611
-30	0.36	5.92	92.5	1018	1567	2104	2532	2755	2828	2790	3013	2918	2801	2730	2701	2719	2777	2830	2847
-25	0.35	5.88	150	1062	1566	2155	2545	2752	2795	2760	2969	2874	2769	2706	2689	2721	2773	2819	2837
-20	0.34	5.84	207	1107	1566	2206	2559	2749	2762	2731	2924	2829	2737	2682	2677	2724	2769	2808	2827
-15	0.32	6.29	262	1101	1540	2167	2492	2652	2657	2681	2818	2727	2655	2625	2636	2670	2703	2730	2745
-10	0.29	6.74	318	1096	1514	2127	2426	2555	2552	2631	2712	2625	2574	2567	2596	2617	2636	2651	2663
-5	0.28	6.67	329	1046	1445	2028	2296	2420	2429	2496	2592	2521	2478	2470	2495	2515	2524	2531	2538
0	0.27	6.61	340	997	1377	1928	2167	2285	2307	2361	2471	2417	2383	2372	2393	2413	2412	2410	2413
5	0.25	6.73	294	908	1251	1763	1993	2088	2127	2175	2312	2274	2240	2230	2247	2272	2275	2276	2283
10	0.24	6.85	248	819	1125	1598	1818	1890	1948	1989	2153	2130	2097	2088	2100	2131	2138	2143	2152
15	0.24	5.40	196	699	960	1359	1560	1630	1678	1711	1879	1871	1854	1842	1847	1871	1883	1892	1902
20	0.24	3.96	144	580	796	1119	1301	1370	1409	1433	1604	1611	1610	1596	1594	1610	1627	1641	1652
25	0.24	3.78	115	471	659	872	1050	1099	1124	1137	1242	1255	1247	1233	1220	1223	1227	1238	1248
30	0.23	3.61	86.9	363	522	624	798	828	839	841	880	900	884	869	846	836	828	834	843
35	0.21	3.14	56.1	253	391	468	601	631	640	645	671	706	702	699	686	680	680	691	700
40	0.19	2.66	25.2	142	261	311	403	433	441	450	462	511	520	530	525	524	533	549	558
45	0.20	2.48	19.3	106	207	258	310	354	366	377	391	423	451	464	465	466	476	487	494
50	0.20	2.29	13.4	69.0	153	204	217	275	291	304	321	335	382	397	404	408	419	426	430
55	0.20	1.92	10.4	48.4	106	150	175	207	217	240	255	269	299	327	347	364	388	402	408
60	0.19	1.55	7.43	27.9	60.1	95.5	133	139	143	176	189	203	217	256	289	320	357	378	387
65	0.20	1.06	5.83	19.1	38.1	58.5	81.6	89.1	95.9	114	122	135	146	173	197	223	250	270	277
70	0.22	0.57	4.22	10.3	16.0	21.5	30.0	39.4	48.8	51.5	55.6	66.8	75.1	88.6	105	125	144	162	167
75	0.21	0.48	2.65	6.72	10.2	13.5	18.6	24.0	29.2	31.0	33.3	39.1	43.4	50.2	58.6	68.5	77.7	86.5	89.1
80	0.20	0.38	1.08	3.18	4.44	5.61	7.15	8.56	9.65	10.5	11.0	11.5	11.7	11.8	11.9	11.8	11.6	11.4	11.4
85	0.21	0.36	0.73	1.79	2.40	2.96	3.69	4.35	4.85	5.23	5.50	5.73	5.86	5.92	5.93	5.88	5.81	5.71	5.71
90	0.22	0.34	0.38	0.39	0.37	0.32	0.23	0.14	0.05	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:
Test Date:2017-12-13

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:65.0%
Test Distance:13.440m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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	2.02	2.11	2.25	2.40	2.57	2.81	3.05	3.34	3.66	4.13	4.41	4.88	5.01	5.01	4.91	5.02	4.92	1.69	
-85	11.7	11.9	12.0	11.3	10.8	10.1	9.92	10.0	9.93	10.2	10.3	10.7	9.89	7.72	6.66	5.57	4.97	1.55	
-80	21.4	21.8	21.8	20.2	18.9	17.4	16.8	16.7	16.2	16.3	16.2	16.5	14.8	10.4	8.41	6.11	5.03	1.41	
-75	145	145	146	142	127	114	101	90.7	91.6	108	126	121	68.9	23.7	13.0	7.72	4.65	1.25	
-70	269	268	270	263	235	210	185	165	167	200	236	226	123	37.0	17.6	9.32	4.27	1.09	
-65	511	517	522	527	522	491	488	503	542	596	618	645	460	211	30.5	11.7	3.92	0.93	
-60	752	765	773	791	808	771	791	840	917	991	999	1064	798	385	43.4	14.1	3.56	0.78	
-55	1025	1041	1060	1083	1122	1135	1142	1166	1247	1303	1293	1235	1040	649	144	17.3	3.82	0.66	
-50	1298	1318	1347	1375	1436	1499	1492	1491	1577	1615	1586	1406	1282	912	244	20.5	4.09	0.55	
-45	1839	1856	1871	1903	1969	2047	2101	2080	2124	2166	2132	1881	1515	1182	449	24.6	4.16	0.48	
-40	2381	2393	2395	2430	2502	2594	2709	2668	2671	2717	2677	2356	1748	1451	653	28.7	4.24	0.41	
-35	2615	2607	2580	2589	2635	2714	2831	2875	2778	2842	2828	2518	1975	1523	754	32.4	4.20	0.36	
-30	2850	2820	2764	2748	2769	2834	2953	3082	2885	2967	2979	2680	2203	1595	855	36.0	4.16	0.31	
-25	2845	2822	2779	2751	2761	2817	2925	3046	2923	2948	2973	2774	2311	1667	973	49.2	4.46	0.27	
-20	2839	2824	2795	2754	2753	2800	2897	3009	2961	2928	2968	2868	2419	1738	1090	62.5	4.76	0.23	
-15	2756	2751	2737	2712	2703	2731	2807	2919	2893	2834	2882	2777	2390	1697	1110	84.0	4.67	0.22	
-10	2672	2677	2680	2669	2653	2663	2718	2830	2826	2740	2797	2686	2361	1655	1130	106	4.58	0.22	
-5	2547	2556	2562	2552	2538	2550	2602	2700	2694	2602	2651	2555	2264	1593	1121	127	5.47	0.20	
0	2423	2435	2445	2435	2423	2437	2486	2570	2563	2464	2504	2424	2167	1531	1112	148	6.36	0.18	
5	2292	2296	2299	2288	2283	2305	2353	2425	2350	2287	2321	2251	2000	1422	1012	152	6.06	0.18	
10	2162	2157	2153	2141	2142	2174	2220	2279	2137	2111	2138	2078	1832	1312	911	155	5.77	0.18	
15	1909	1908	1906	1904	1917	1947	1981	2021	1858	1848	1864	1808	1597	1151	812	144	5.57	0.19	
20	1656	1659	1659	1666	1691	1721	1743	1763	1580	1585	1590	1538	1362	991	713	132	5.37	0.20	
25	1257	1270	1283	1305	1336	1368	1398	1376	1284	1290	1304	1274	1079	842	595	100	4.65	0.19	
30	857	880	907	943	980	1016	1054	990	988	996	1019	1010	795	694	477	68.3	3.94	0.18	
35	703	712	728	753	774	796	814	763	762	767	786	779	627	559	375	50.8	3.51	0.18	
40	548	544	549	562	569	576	574	536	536	539	554	547	458	424	272	33.3	3.08	0.18	
45	487	480	481	487	486	480	474	445	444	443	447	433	393	356	199	23.0	2.56	0.18	
50	425	416	413	412	403	384	374	355	353	348	340	318	328	288	127	12.8	2.05	0.18	
55	402	383	367	351	326	308	300	283	280	269	272	268	273	212	78.7	10.3	1.48	0.17	
60	378	351	322	290	248	232	225	211	207	191	203	218	218	135	30.5	7.81	0.92	0.17	
65	265	244	221	194	167	154	148	140	139	132	142	144	129	74.6	19.1	5.86	0.67	0.16	
70	152	137	119	99.0	86.6	76.7	71.3	67.8	70.5	74.0	81.5	70.1	39.8	13.9	7.62	3.91	0.42	0.15	
75	81.6	74.1	65.4	55.4	49.1	44.2	41.3	39.3	40.3	41.6	44.9	38.5	22.6	8.79	4.44	2.21	0.36	0.17	
80	11.7	11.8	11.8	11.8	11.7	11.6	11.2	10.8	10.1	9.26	8.21	6.95	5.45	3.67	1.25	0.52	0.30	0.18	
85	5.83	5.88	5.90	5.88	5.87	5.81	5.61	5.38	5.06	4.65	4.17	3.58	2.85	1.99	0.79	0.41	0.29	0.18	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.13	0.22	0.25	0.30	0.32	0.31	0.27	0.19	

H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-13

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Humidity:65.0%
Test Distance:13.440m [K=1.0000]
Remarks: