

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

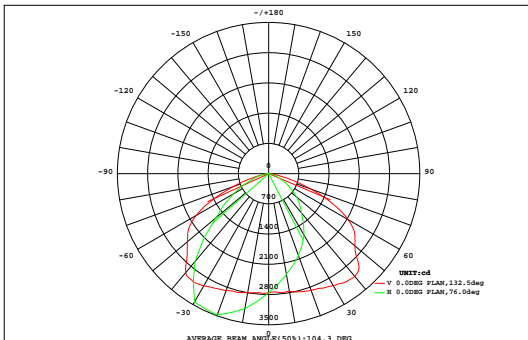
Maximum Intensity (Luminaire orientation as tested.)		455.5 cd per klm. 0.0 degrees vertical 0.0 degrees horizontal
Beam Spread	At 10% of I <sub>max</sub> At 50% of I <sub>max</sub> At 90% of I <sub>max</sub>	136.9V x 155.2H 76.0V x 132.5H 25.0V x 103.5H
Beam Flux	Total To 10% of I <sub>max</sub> To 50% of I <sub>max</sub> To 90% of I <sub>max</sub>	999.4 lumens per klm. 969.9 lumens per klm. 691.0 lumens per klm. 86.1 lumens per klm.
	Upward LOR Downward LOR	0.0 % 99.9 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-06-21

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:220.4V I:0.4573A P:99.13W PF:0.9837 Lamp Flux:9671.1x1 lm		
NAME: HIGHBAY	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:97.56lm/W	
MODEL	F-LED218-100W	Imax(cd)	3965
NOMINAL POWER(W)	100	AVAILABILITY(%)	97.2
RATED VOLTAGE(V)	180-240	Avai. FLUX(lm)	9400
NOMINAL FLUX(lm)	9671.1	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	9671
TEST VOLTAGE(V)	220.2	θ @50%(H,V)	133,76DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a	
	0.00	0.02	0.06	0.14	0.24	0.36	0.48	0.56	0.59	0.60	0.56	0.48	0.39	0.29	0.18	0.07	0.02	0.00	5.04	0.00	
90	0.01	0.11	0.40	0.97	1.68	2.32	2.83	3.26	3.42	3.49	3.33	2.87	2.39	1.81	1.10	0.50	0.12	0.00	30.6	0.00	
80	0.02	0.30	1.34	3.22	5.35	6.89	8.28	9.39	9.81	9.94	9.59	8.43	6.98	5.41	3.41	1.61	0.40	0.01	90.4	22.4	
70	0.03	0.68	3.08	7.23	11.1	14.0	17.5	19.4	20.0	20.1	19.4	17.6	14.2	11.2	7.49	3.50	0.90	0.03	187	173	
60	0.05	1.20	5.70	12.6	17.8	23.2	28.8	30.6	31.2	31.2	30.5	28.7	23.7	18.3	13.0	6.42	1.53	0.07	304	299	
50	0.09	1.88	8.91	18.7	25.8	34.9	40.9	42.3	42.5	42.5	42.2	40.9	36.4	27.1	19.8	9.96	2.31	0.12	437	434	
40	0.12	2.63	12.5	25.4	35.7	49.0	54.3	55.5	55.8	55.6	55.3	54.5	50.8	37.8	26.9	13.7	3.13	0.16	589	586	
30	0.14	3.28	15.7	31.7	45.6	61.2	65.9	67.3	67.3	66.7	66.4	65.6	62.0	48.6	33.6	17.3	3.93	0.19	722	720	
20	0.15	3.74	18.0	37.1	54.4	71.0	76.0	77.9	78.2	77.8	77.5	75.7	71.5	58.3	39.5	20.1	4.44	0.20	842	840	
10	0.15	3.84	19.2	41.4	61.8	80.5	85.6	88.7	90.2	90.0	88.9	85.8	81.3	67.0	44.5	21.7	4.63	0.21	955	953	
0	0.13	3.67	19.2	44.2	67.9	90.0	94.9	98.2	101	102	99.3	95.5	91.6	74.3	47.8	21.9	4.41	0.19	1057	1055	
-10	0.10	3.17	17.7	44.2	69.9	96.3	102	103	106	106	104	101	98.2	76.0	48.3	20.6	3.97	0.16	1102	1100	
-20	0.07	2.53	14.9	40.0	64.1	89.9	99.6	97.1	96.0	95.0	94.6	96.2	91.9	67.5	43.3	17.5	3.22	0.12	1014	1011	
-30	0.05	1.71	10.8	29.7	47.5	63.4	74.5	71.5	67.1	65.6	68.0	71.1	65.3	47.9	31.8	13.2	2.45	0.09	731	728	
-40	0.02	0.98	6.30	16.6	25.2	30.6	37.3	39.0	37.9	37.4	38.1	37.5	31.4	24.8	17.3	7.89	1.59	0.07	390	386	
-50	0.01	0.46	2.67	6.74	10.2	12.5	15.5	19.2	20.1	20.1	19.6	16.9	12.8	10.5	7.35	3.61	0.82	0.04	179	156	
-60	0.01	0.15	0.70	1.85	3.10	4.23	5.13	6.58	7.30	7.40	7.05	5.67	4.57	3.57	2.40	1.20	0.33	0.02	61.2	1.32	
-70	0.01	0.04	0.07	0.22	0.36	0.58	0.83	1.05	1.17	1.18	1.15	0.99	0.80	0.58	0.40	0.22	0.06	0.01	9.71	0.00	
-80	0.01	0.04	0.07	0.22	0.36	0.58	0.83	1.05	1.17	1.18	1.15	0.99	0.80	0.58	0.40	0.22	0.06	0.01	9.71	0.00	
-90	0.01	0.04	0.07	0.22	0.36	0.58	0.83	1.05	1.17	1.18	1.15	0.99	0.80	0.58	0.40	0.22	0.06	0.01	9.71	0.00	
	Φ t	1.15	30.4	157	362	548	731	811	831	836	833	825	805	746	581	388	181	38.3	1.71	8706	---
	Φ a	0.00	16.8	146	349	534	714	794	814	818	815	808	789	730	566	375	170	24.2	0.00	---	8465

one-half-peak spread: U:28.7,D:47.9 , L:29.0,R:25.7 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG  
H(β) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-06-21

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:

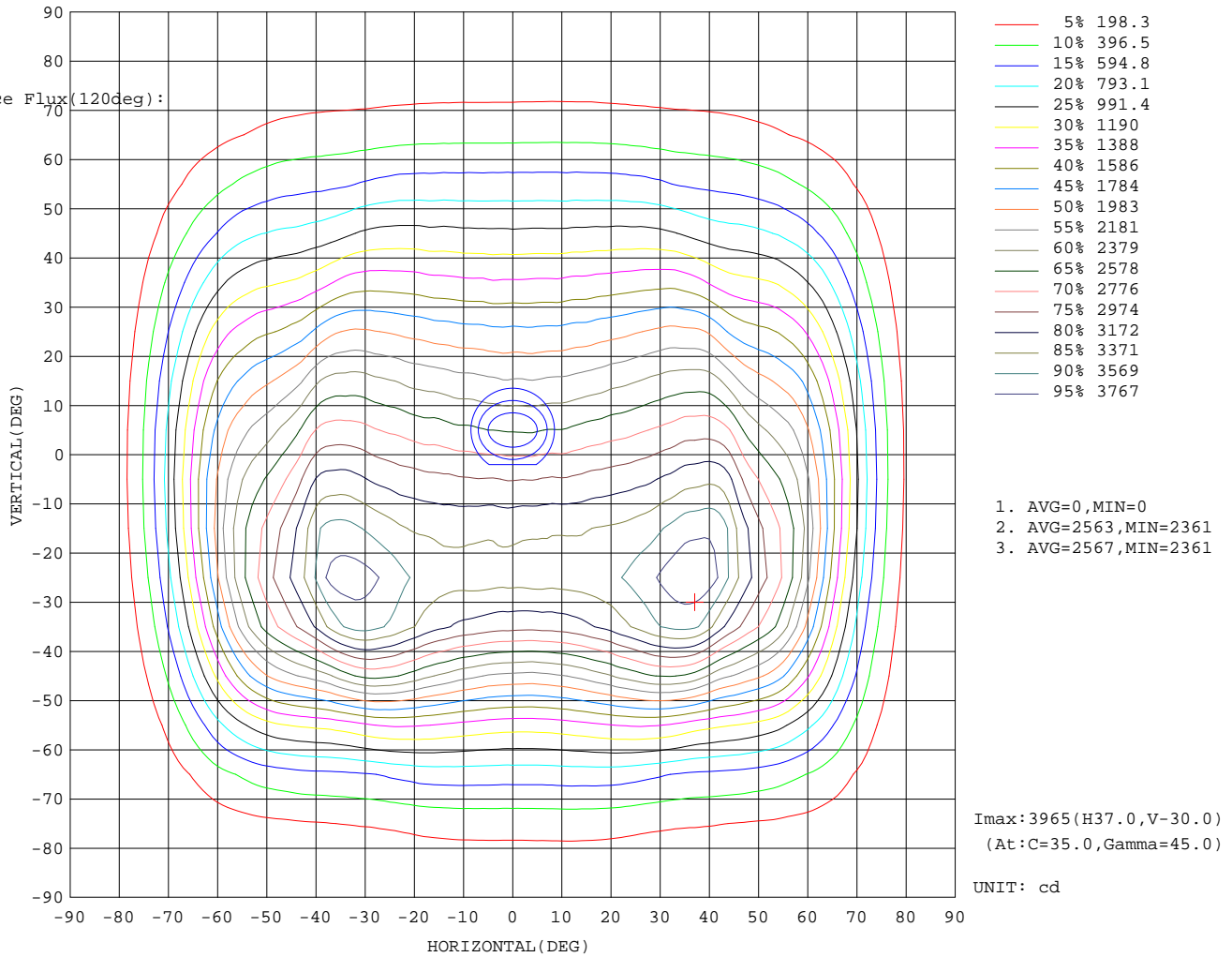
ISOCANDELA DIAGRAM

Conical surface Flux(90deg):

4977.8 lm  
 %lum = 57.2%  
 %lamp = 57.2%

Conical surface Flux(120deg):

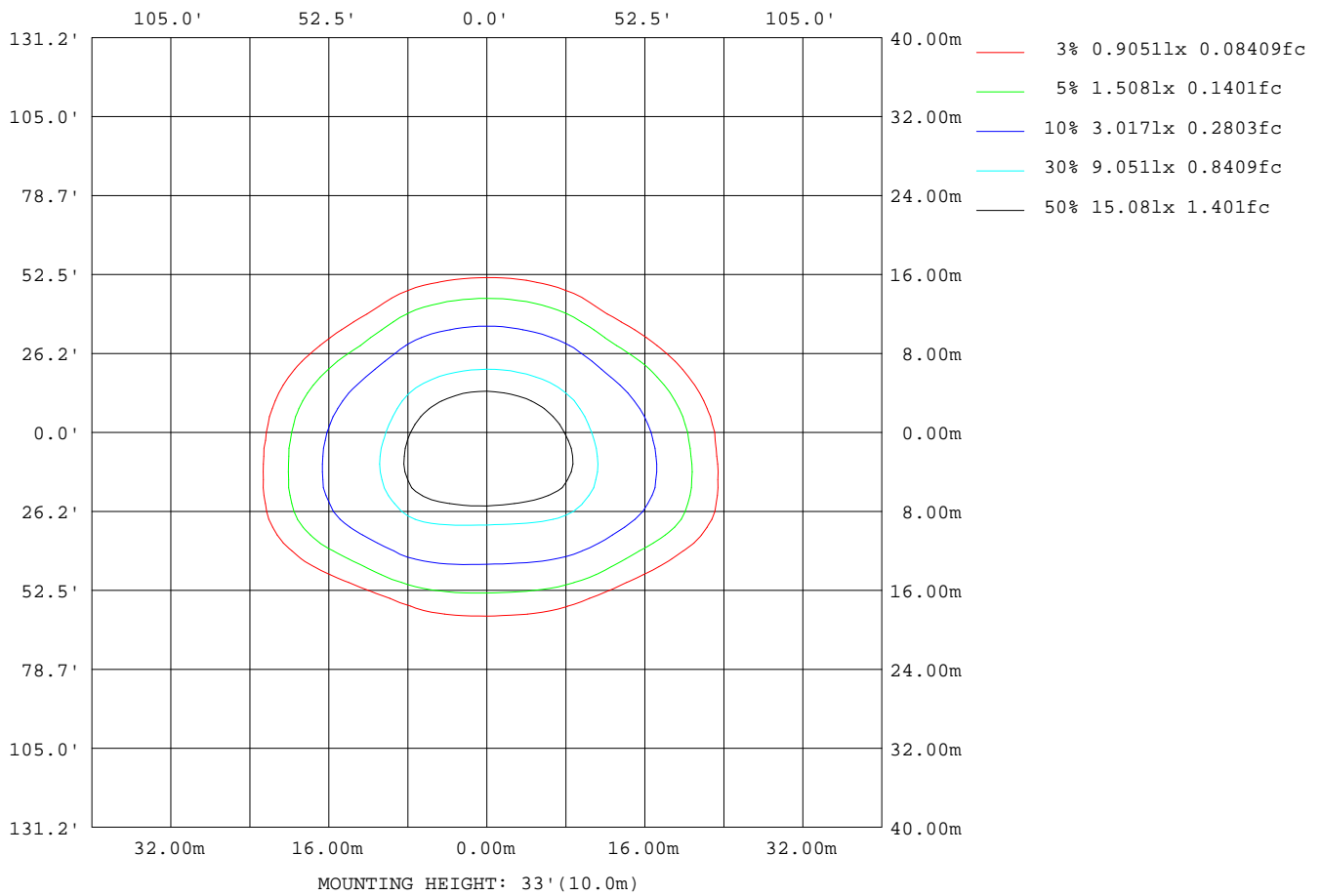
7368.3 lm  
 %lum = 84.7%  
 %lamp = 84.6%



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-06-21

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:

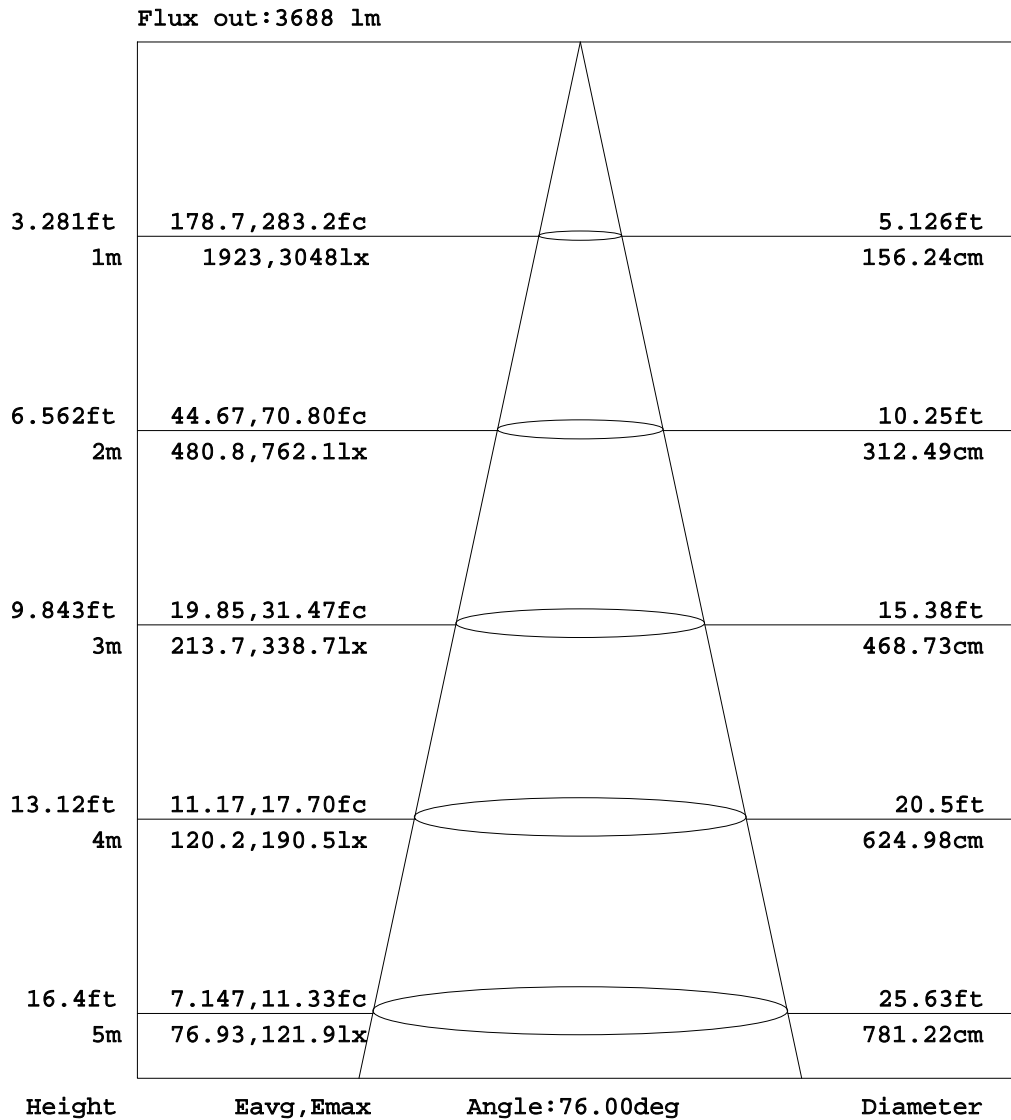
ISOLUX DIAGRAM



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2017-06-21

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

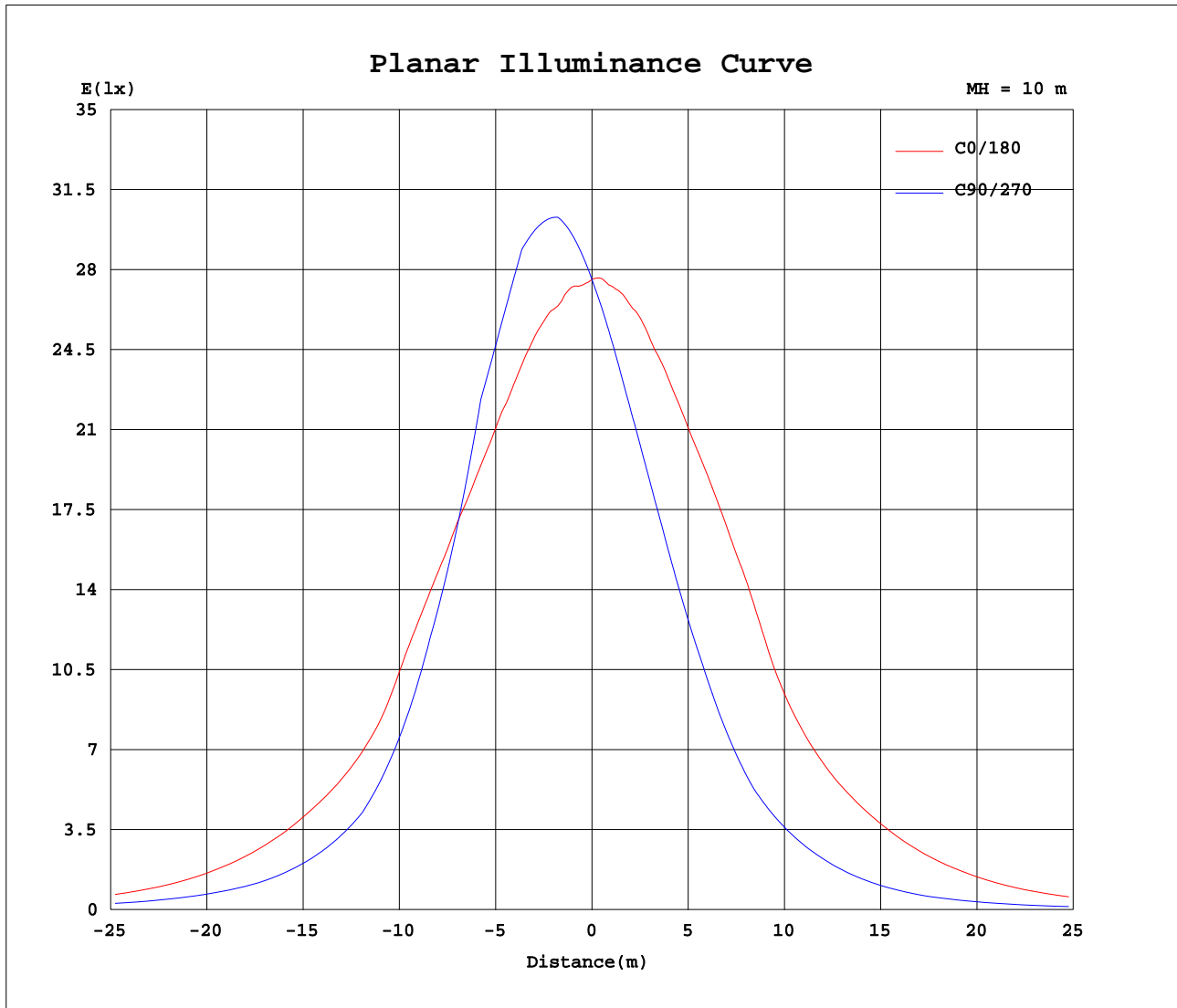


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-06-21

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( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-06-21

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	1.04	2.34	2.39	2.40	2.49	2.42	2.38	2.44	2.40	2.53	2.50	2.48	2.24	2.41	2.28	2.24	2.24	2.12	2.06
-85	0.99	2.25	3.26	6.48	7.45	9.34	17.4	24.9	27.6	32.0	35.5	40.4	44.7	48.2	52.7	56.4	60.1	60.3	59.8
-80	0.94	2.16	4.13	10.6	12.4	16.3	32.5	47.3	52.8	61.4	68.6	78.3	87.2	93.9	103	111	118	118	118
-75	0.87	2.54	6.55	17.1	41.9	64.6	99.7	133	159	174	188	200	209	221	241	258	267	270	269
-70	0.80	2.93	8.98	23.6	71.4	113	167	219	265	286	307	322	330	349	378	405	416	422	421
-65	0.73	3.57	11.8	52.6	115	212	330	418	488	525	549	559	580	623	664	686	691	687	683
-60	0.66	4.22	14.7	81.7	159	311	493	617	711	763	791	795	831	897	950	968	966	952	944
-55	0.60	4.63	28.4	109	243	473	735	958	1117	1198	1233	1275	1355	1407	1404	1374	1330	1291	1274
-50	0.55	5.04	42.2	136	326	634	976	1299	1522	1632	1674	1754	1880	1917	1858	1781	1695	1631	1605
-45	0.48	5.04	54.9	179	426	794	1238	1669	1977	2147	2269	2462	2623	2609	2492	2356	2245	2162	2130
-40	0.41	5.04	67.7	222	525	954	1499	2039	2432	2661	2864	3171	3366	3300	3127	2932	2794	2693	2654
-35	0.34	5.69	81.4	264	612	1091	1690	2258	2656	2916	3195	3545	3652	3547	3372	3214	3126	3071	3044
-30	0.28	6.34	95.0	306	699	1228	1881	2477	2880	3171	3526	3919	3938	3794	3618	3496	3458	3449	3434
-25	0.26	6.61	107	339	749	1313	1968	2524	2898	3190	3591	3871	3842	3703	3549	3476	3457	3465	3457
-20	0.24	6.88	119	372	799	1397	2055	2571	2916	3209	3655	3824	3747	3612	3479	3456	3457	3482	3481
-15	0.20	7.52	125	395	837	1438	2062	2526	2827	3108	3517	3638	3553	3443	3354	3325	3320	3342	3326
-10	0.17	8.16	131	418	875	1478	2069	2482	2739	3007	3378	3452	3360	3274	3230	3195	3182	3201	3171
-5	0.16	9.72	131	417	873	1452	2003	2375	2598	2839	3182	3250	3180	3102	3055	3018	2991	2983	2964
0	0.15	11.3	132	416	871	1426	1937	2268	2458	2671	2985	3048	3000	2930	2880	2842	2799	2765	2757
5	0.13	12.4	129	403	841	1364	1838	2126	2295	2488	2782	2857	2821	2749	2690	2664	2614	2577	2563
10	0.11	13.5	126	390	810	1303	1739	1983	2133	2306	2579	2666	2643	2569	2501	2486	2429	2389	2369
15	0.11	12.3	117	356	742	1191	1592	1814	1955	2091	2342	2454	2448	2387	2319	2287	2244	2213	2195
20	0.10	11.1	109	321	675	1080	1444	1645	1778	1877	2106	2243	2254	2204	2137	2088	2059	2036	2021
25	0.10	9.98	101	284	598	949	1275	1456	1566	1652	1823	1982	2006	1969	1924	1879	1852	1834	1831
30	0.10	8.89	91.8	247	521	818	1106	1268	1354	1427	1541	1721	1757	1733	1710	1670	1646	1631	1641
35	0.10	7.86	79.8	206	433	684	928	1083	1156	1207	1292	1429	1495	1494	1480	1448	1425	1412	1412
40	0.09	6.82	67.8	165	345	550	751	899	958	987	1043	1138	1233	1255	1249	1225	1205	1192	1182
45	0.08	6.57	56.2	133	272	442	602	734	796	828	868	935	1018	1049	1053	1041	1029	1025	1020
50	0.08	6.32	44.7	100	199	333	453	568	635	669	694	732	802	844	857	857	854	857	859
55	0.08	5.43	29.7	78.7	147	244	339	428	487	524	544	568	613	649	666	670	670	672	672
60	0.09	4.54	14.7	56.9	93.9	155	226	288	339	380	395	405	424	454	475	483	487	486	485
65	0.08	3.50	11.9	36.6	67.2	107	152	196	235	263	280	289	299	318	332	338	342	342	342
70	0.06	2.46	9.20	16.3	40.6	59.4	77.9	104	130	147	164	173	175	182	189	194	198	198	199
75	0.06	1.39	6.15	11.9	25.1	35.0	46.8	62.9	77.5	88.6	99.4	106	108	114	119	123	125	125	125
80	0.06	0.32	3.11	7.61	9.66	10.6	15.7	21.8	24.5	30.1	34.5	38.6	42.1	46.7	48.7	51.5	51.7	51.5	51.7
85	0.06	0.21	1.61	3.86	4.87	5.33	7.89	10.9	12.3	15.0	17.3	19.3	21.1	23.4	24.4	25.7	25.8	25.7	25.8
90	0.06	0.10	0.10	0.10	0.09	0.08	0.05	0.06	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:  
Test Date:2017-06-21

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	2.01	2.07	2.20	2.33	2.45	2.53	2.64	2.78	2.90	2.90	3.04	3.13	3.32	3.48	3.51	3.97	3.89	1.50	
-85	60.7	61.2	61.0	58.3	55.1	52.1	49.1	46.2	43.2	40.1	36.0	32.2	26.2	17.2	10.2	7.24	3.88	1.37	
-80	119	120	120	114	108	102	95.5	89.7	83.5	77.3	68.9	61.2	49.1	30.9	17.0	10.5	3.87	1.23	
-75	272	274	271	261	242	225	213	208	195	181	164	141	109	72.1	41.7	15.8	5.51	1.11	
-70	424	427	422	408	376	348	331	325	307	285	258	220	168	113	66.4	21.1	7.16	0.99	
-65	681	691	694	691	660	615	574	556	537	509	459	390	292	183	97.3	35.5	7.85	0.89	
-60	937	954	966	973	943	882	816	786	768	733	661	561	417	252	128	49.8	8.55	0.79	
-55	1277	1299	1338	1382	1407	1392	1315	1241	1190	1125	1018	832	604	361	173	65.0	9.59	0.70	
-50	1616	1643	1710	1790	1871	1902	1814	1696	1612	1518	1375	1103	791	470	217	80.3	10.6	0.61	
-45	2121	2170	2257	2368	2493	2582	2553	2353	2169	2014	1796	1408	979	572	261	93.9	11.5	0.53	
-40	2626	2697	2803	2945	3115	3263	3293	3009	2725	2510	2216	1713	1166	674	304	108	12.3	0.44	
-35	3038	3063	3139	3244	3401	3567	3628	3422	3048	2773	2457	1919	1299	752	348	122	13.3	0.34	
-30	3451	3428	3475	3543	3687	3871	3963	3835	3370	3035	2697	2126	1432	829	392	137	14.2	0.24	
-25	3474	3466	3484	3534	3643	3795	3931	3875	3455	3074	2751	2223	1529	899	429	148	15.8	0.19	
-20	3498	3504	3494	3525	3599	3720	3900	3916	3539	3113	2806	2319	1625	969	465	160	17.3	0.14	
-15	3341	3355	3362	3394	3448	3549	3696	3737	3426	3025	2732	2303	1642	995	483	167	18.6	0.10	
-10	3184	3205	3230	3262	3297	3378	3491	3558	3312	2937	2657	2287	1659	1021	500	174	19.8	0.06	
-5	2972	2985	3031	3068	3113	3184	3284	3330	3128	2772	2546	2203	1638	1026	506	177	20.2	0.06	
0	2760	2766	2831	2873	2928	2991	3078	3103	2943	2607	2435	2120	1617	1031	513	181	20.7	0.05	
5	2565	2581	2642	2692	2743	2804	2887	2894	2720	2428	2266	2000	1537	982	491	174	20.8	0.04	
10	2370	2396	2452	2511	2558	2618	2695	2685	2496	2248	2096	1879	1456	932	468	168	20.9	0.04	
15	2190	2213	2258	2319	2370	2436	2481	2470	2238	2044	1922	1716	1328	857	433	158	20.2	0.03	
20	2011	2030	2064	2126	2183	2254	2267	2255	1979	1839	1749	1553	1199	783	398	149	19.4	0.03	
25	1827	1837	1865	1916	1969	2023	2027	1959	1731	1635	1551	1361	1052	685	350	134	16.7	0.03	
30	1643	1644	1665	1706	1756	1791	1786	1663	1482	1430	1352	1169	904	587	302	120	13.9	0.04	
35	1419	1422	1442	1470	1499	1518	1491	1370	1256	1218	1145	993	767	497	259	107	11.1	0.04	
40	1195	1200	1219	1234	1242	1245	1196	1078	1031	1006	937	817	630	407	215	92.9	8.21	0.04	
45	1028	1026	1036	1043	1043	1027	965	889	855	825	758	653	501	325	175	75.2	6.78	0.03	
50	861	853	853	852	844	809	734	700	680	643	579	489	372	243	135	57.5	5.35	0.03	
55	674	671	671	667	653	622	576	551	531	494	440	367	277	185	106	40.4	4.35	0.04	
60	488	489	489	482	461	434	417	402	381	346	301	245	183	126	77.6	23.3	3.36	0.05	
65	345	346	345	337	322	307	295	284	267	240	207	170	129	88.7	50.7	15.3	2.41	0.04	
70	202	203	202	192	183	179	173	165	152	134	113	94.1	74.5	51.7	23.7	7.28	1.46	0.04	
75	127	128	126	120	115	112	107	102	94.3	83.1	70.0	56.6	43.7	30.3	15.3	4.41	0.77	0.04	
80	53.1	52.9	50.9	48.3	46.6	44.1	41.8	39.0	36.1	32.6	27.0	19.0	12.9	8.88	6.86	1.54	0.08	0.05	
85	26.5	26.5	25.5	24.2	23.3	22.0	20.9	19.5	18.1	16.3	13.5	9.50	6.50	4.48	3.47	0.82	0.08	0.06	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.08	0.09	0.09	0.10	0.09	0.08	

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2017-06-21

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: