

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	450.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	135.1V x 157.7H
	At 50% of Imax	77.0V x 141.8H
	At 90% of Imax	23.3V x 127.4H

Beam Flux	Total	999.4 lumens per klm.
	To 10% of Imax	977.1 lumens per klm.
	To 50% of Imax	694.4 lumens per klm.
	To 90% of Imax	55.4 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.9 %

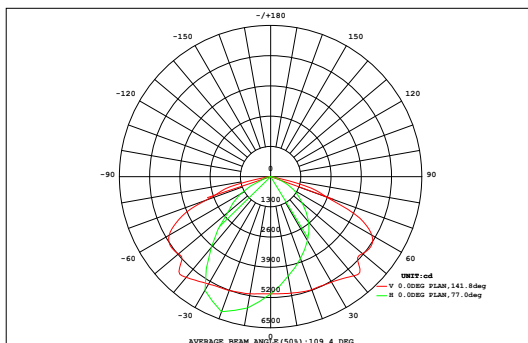
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-13

V(B) Range:-90 - 90DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.288
Humidity:65.0%
Test Distance:13.440m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.0V I:1.007A P:220.6W PF:0.9846 Lamp Flux:21945.3x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:99.48lm/W	
MODEL	F-LED218-220W	Imax(cd)	7529
NOMINAL POWER(W)	220	AVAILABILITY(%)	98.0
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	21506
NOMINAL FLUX(lm)	21945.3	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	21945.3
TEST VOLTAGE(V)	220	θ @50%(H,V)	142,77DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.05	0.16	0.31	0.49	0.88	1.10	1.16	1.06	1.08	1.17	1.14	0.91	0.57	0.37	0.21	0.08	0.01	10.7	0.00
90	0.01	0.23	1.61	3.70	4.55	5.78	6.45	7.06	7.23	7.28	7.29	6.52	5.78	4.65	4.10	2.25	0.38	0.02	74.9	0.00
80	0.03	0.91	7.40	13.3	16.2	18.2	20.3	22.4	23.4	23.2	22.2	20.2	17.9	16.1	13.8	8.18	1.49	0.05	245	156
70	0.06	3.21	16.1	25.2	32.0	36.7	43.1	45.0	45.6	45.3	44.0	41.7	35.6	30.8	24.5	15.9	3.90	0.09	489	484
60	0.10	6.65	23.2	38.9	47.2	56.7	64.7	65.3	65.5	65.1	64.1	62.9	55.5	45.3	37.9	23.4	7.22	0.16	730	728
50	0.16	10.2	32.5	53.6	65.0	81.7	87.7	88.5	88.1	87.4	86.6	85.0	79.4	63.2	52.1	33.5	10.6	0.25	1005	1004
40	0.26	12.3	40.3	64.7	80.3	100	105	106	106	105	104	102	97.0	78.7	63.4	41.5	12.5	0.33	1219	1218
30	0.33	13.5	46.5	75.5	95.9	116	121	124	124	123	122	118	112	94.5	74.6	48.6	13.9	0.36	1424	1422
20	0.33	14.0	51.5	85.8	110	131	138	143	143	142	141	135	126	109	85.7	53.8	14.2	0.32	1624	1622
10	0.26	13.3	53.7	95.1	124	145	152	160	164	164	160	151	141	124	96.4	57.3	13.7	0.25	1814	1813
0	0.20	12.1	54.6	104	137	162	166	174	181	182	175	165	158	139	107	58.1	12.3	0.20	1986	1985
-10	0.17	10.3	52.1	109	147	177	177	177	183	183	176	173	173	149	115	56.1	10.8	0.18	2067	2066
-20	0.15	8.47	46.2	103	140	168	168	157	153	151	153	161	166	140	107	48.1	8.84	0.15	1878	1876
-30	0.11	5.73	34.6	70.8	93.8	112	118	107	99.1	97.7	104	113	111	93.2	70.6	34.8	5.45	0.13	1271	1269
-40	0.09	2.09	17.3	27.9	36.4	43.1	54.8	58.9	58.0	57.8	58.6	55.4	42.8	35.8	26.2	16.5	1.81	0.10	593	589
-50	0.06	0.64	2.28	7.77	13.2	16.4	21.4	28.6	30.0	29.9	28.6	21.9	16.2	12.4	7.69	2.98	0.66	0.08	241	150
-60	0.04	0.33	0.73	1.01	1.62	3.12	3.96	4.19	4.36	4.40	4.21	3.80	3.25	1.98	1.13	0.66	0.33	0.05	39.2	0.00
-70	0.02	0.11	0.23	0.34	0.44	0.54	0.60	0.62	0.62	0.65	0.63	0.61	0.51	0.40	0.35	0.25	0.14	0.04	7.10	0.00
-80	0.02	0.11	0.23	0.34	0.44	0.54	0.60	0.62	0.62	0.65	0.63	0.61	0.51	0.40	0.35	0.25	0.14	0.04	7.10	0.00
-90	0.02	0.11	0.23	0.34	0.44	0.54	0.60	0.62	0.62	0.65	0.63	0.61	0.51	0.40	0.35	0.25	0.14	0.04	7.10	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	2.38	114	481	880	1145	1373	1449	1470	1475	1469	1451	1417	1343	1138	887	502	118	2.78	16719	---
Φ a	0.08	103	470	864	1125	1347	1422	1445	1449	1442	1425	1391	1316	1116	869	492	106	0.04	---	16382

one-half-peak spread: U:25.9,D:51.8 , L:16.4,R:13.9

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 G0-2000B_V1 SYSTEM V2.0.288
 Humidity:65.0%
 Test Distance:13.440m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Conical surface Flux(90deg):

8918.6 lm

%lum = 53.4%

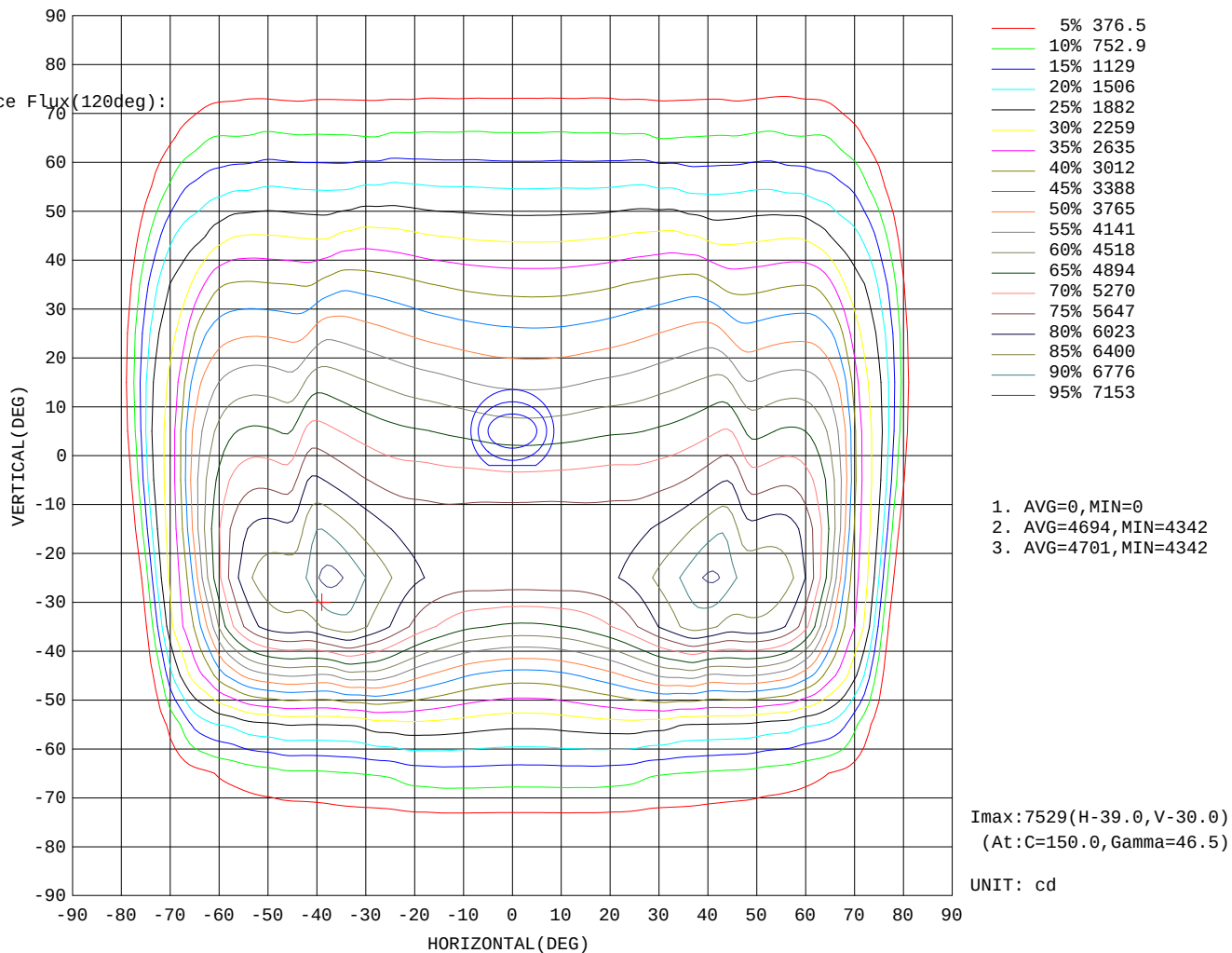
%lamp = 53.3%

Conical surface Flux(120deg):

13666 lm

%lum = 81.8%

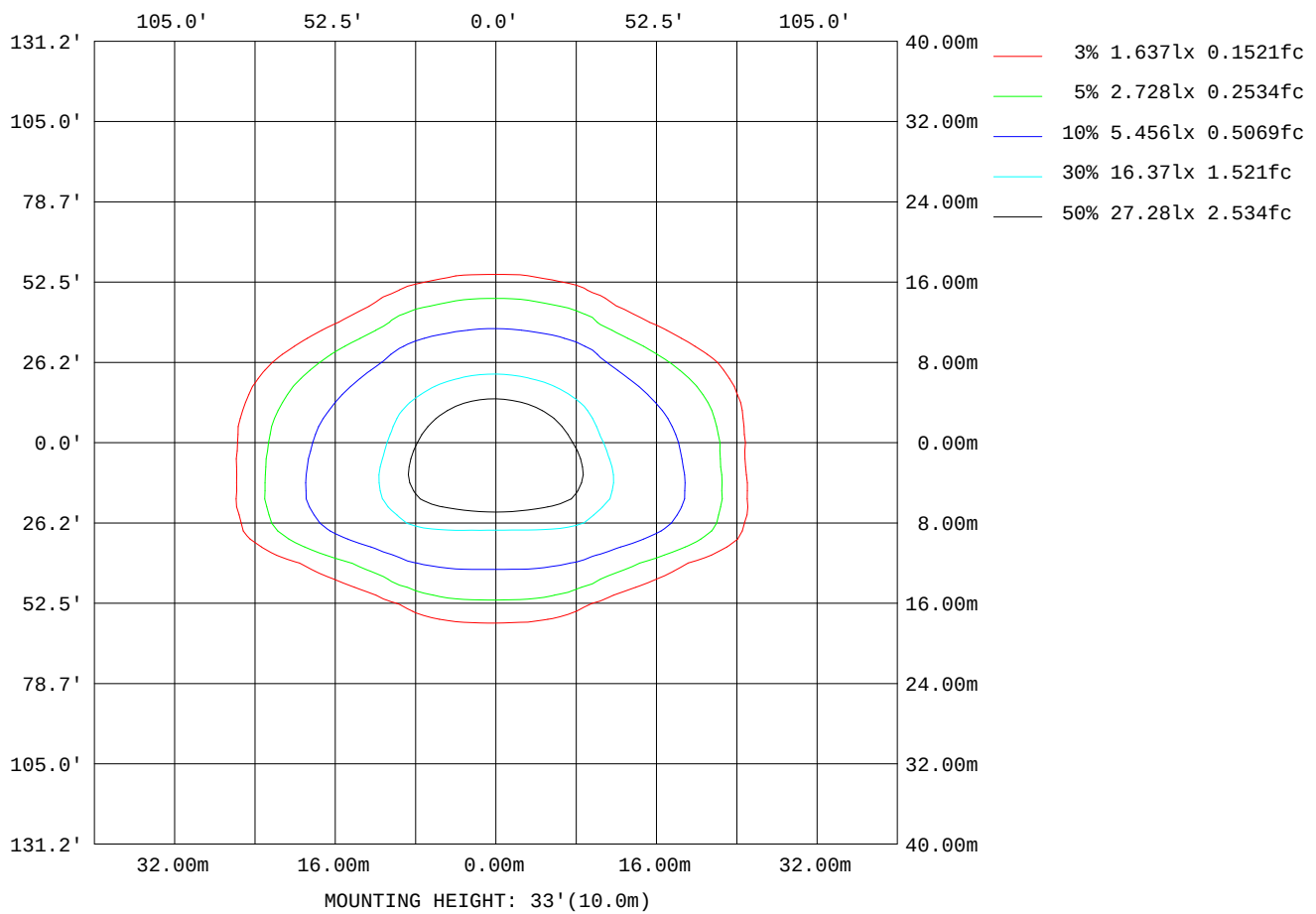
%lamp = 81.7%



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 G0-2000B_V1 SYSTEM V2.0.288
Humidity: 65.0%
Test Distance: 13.440m [K=1.0000]
Remarks:

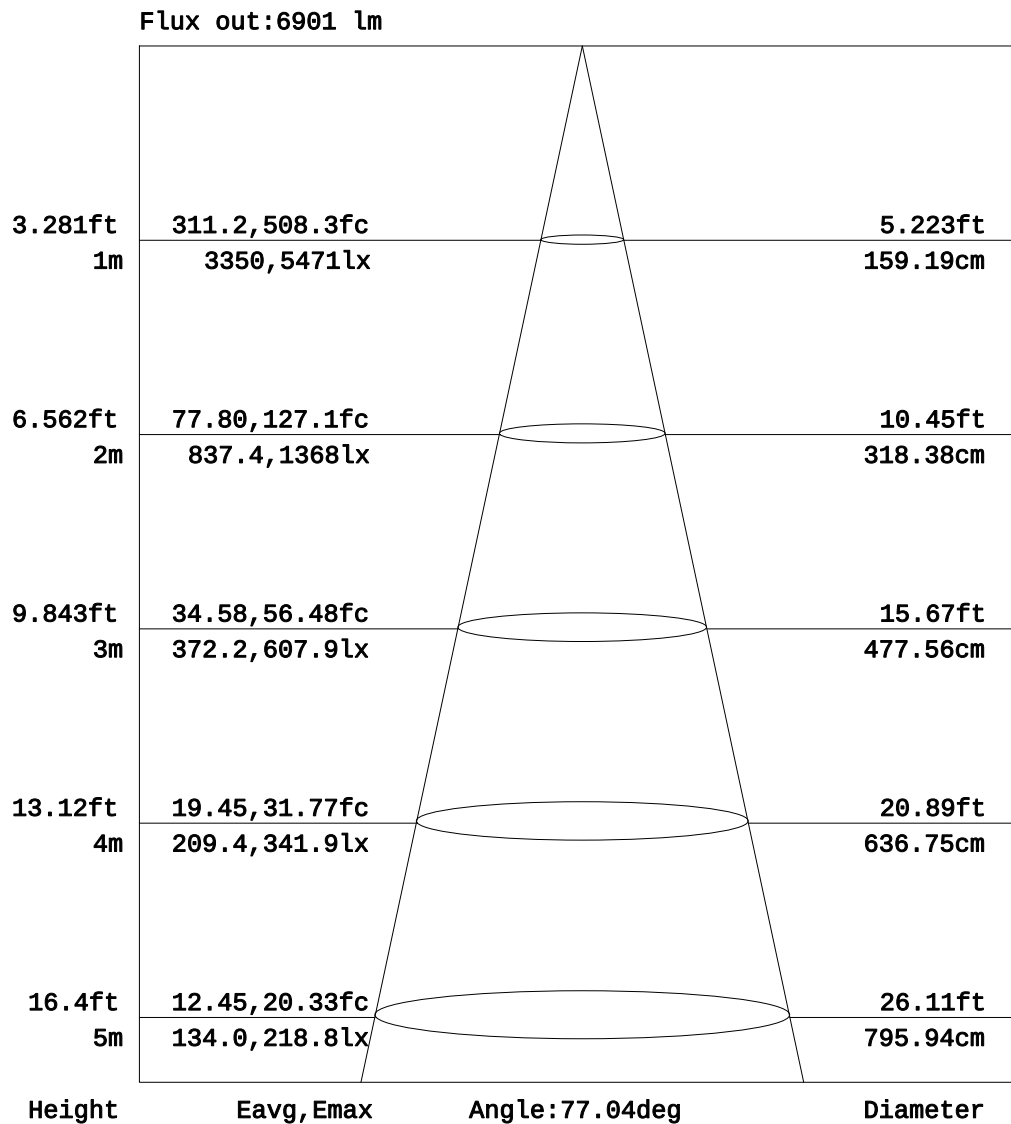
ISOLUX DIAGRAM



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 G0-2000B_V1 SYSTEM V2.0.288
Humidity:65.0%
Test Distance:13.440m [K=1.0000]
Remarks:

AAI Figure

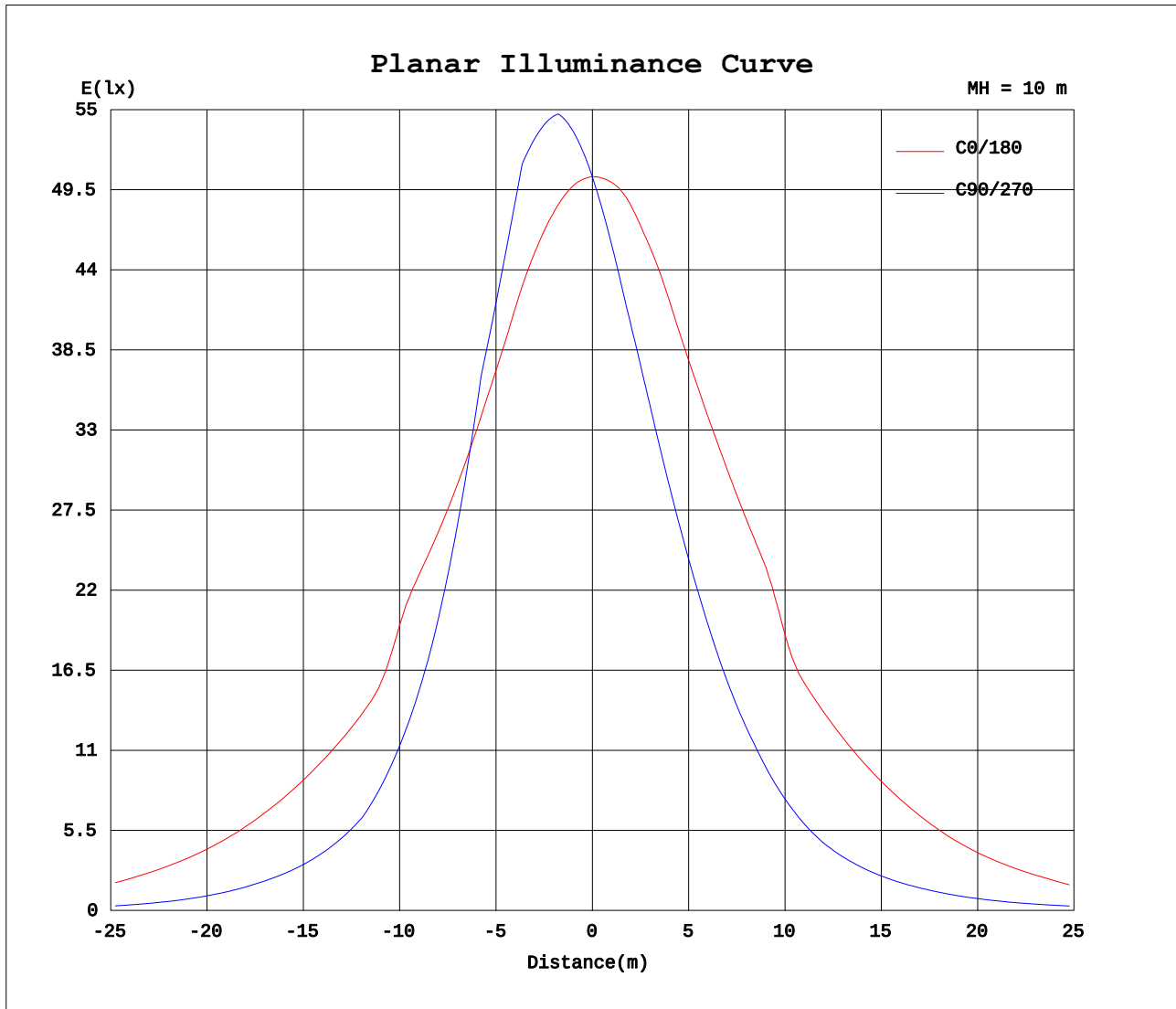


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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 G0-2000B_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 G0-2000B_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	3.33	6.29	6.24	6.12	5.95	5.80	5.71	5.67	5.47	5.31	5.16	4.93	4.85	4.85	4.85	4.76	4.80	4.83	4.98
-85	2.61	5.45	9.12	14.1	18.3	22.0	25.1	27.5	29.5	31.4	34.4	38.2	39.6	40.4	42.1	41.8	40.4	40.1	42.8
-80	2.97	6.92	16.0	25.7	33.6	40.7	46.5	51.2	55.0	59.7	66.5	73.4	74.6	77.1	79.9	77.2	76.0	75.9	82.3
-75	2.40	6.67	18.7	36.3	55.3	76.7	92.5	105	121	135	159	192	208	217	227	235	236	235	234
-70	2.76	14.4	34.9	61.4	94.2	126	149	173	196	228	276	329	348	365	377	396	396	392	387
-65	2.23	9.75	32.4	70.1	127	257	406	521	611	693	696	733	765	804	935	974	978	968	955
-60	2.63	20.2	57.1	117	251	486	758	959	1109	1155	1140	1167	1206	1359	1524	1565	1559	1532	1521
-55	2.03	12.9	48.3	116	472	1223	1512	1704	1812	1904	1887	1903	1994	2103	2156	2128	2072	2008	1974
-50	2.77	26.7	85.6	242	1245	2269	2346	2593	2605	2630	2643	2649	2961	2916	2770	2651	2533	2447	2423
-45	1.82	15.3	66.4	196	1370	2438	3195	3797	4075	4175	4103	4264	4347	4210	3894	3648	3427	3284	3206
-40	2.76	32.3	115	663	2510	3089	4559	5313	5654	5675	5532	6079	5734	5261	4801	4464	4184	4039	3979
-35	1.55	17.2	86.0	341	2130	3060	4550	5636	6168	6294	6333	6648	6422	6014	5554	5235	5002	4894	4821
-30	2.99	39.6	148	1264	2589	4131	5589	6503	6864	6828	7463	7228	6800	6378	6012	5808	5710	5677	5650
-25	1.29	18.2	106	590	2330	3554	5193	6186	6629	6643	7103	7180	6775	6426	6102	5944	5893	5917	5915
-20	2.80	44.6	185	1629	2734	4497	5742	6350	6482	6566	7133	6799	6476	6177	6036	6018	6089	6160	6181
-15	1.02	18.9	128	1004	2409	3932	5247	5961	6161	6121	6771	6563	6269	6030	5901	5869	5886	5937	5952
-10	2.88	53.5	300	1939	2947	4550	5478	5839	5796	6175	6341	6081	5863	5740	5738	5713	5729	5730	5730
-5	0.92	19.5	155	1353	2450	4002	4995	5481	5530	5524	6076	5863	5661	5521	5481	5447	5427	5407	5385
0	2.53	57.6	448	2028	2978	4354	5041	5240	5173	5541	5653	5477	5332	5246	5211	5152	5115	5059	5039
5	0.95	20.8	190	1506	2450	3870	4626	4931	4934	4910	5416	5259	5110	4998	4929	4871	4805	4737	4696
10	2.46	60.0	608	2054	2922	4099	4569	4678	4612	4884	5059	4918	4789	4683	4607	4534	4442	4370	4343
15	1.02	21.3	209	1482	2343	3554	4146	4338	4346	4275	4749	4663	4537	4426	4324	4252	4164	4088	4049
20	2.00	52.6	594	1897	2532	3620	3946	4044	4018	4014	4412	4305	4194	4082	3981	3900	3821	3762	3742
25	1.12	19.5	185	1301	2144	3024	3591	3714	3713	3650	3935	4023	3924	3819	3712	3624	3551	3497	3465
30	1.92	44.4	477	1644	2224	3082	3379	3408	3365	3328	3693	3666	3575	3468	3363	3289	3236	3197	3172
35	1.08	16.1	127	1030	1893	2364	2964	3059	3038	3009	3054	3289	3245	3169	3080	2997	2932	2891	2867
40	1.52	32.4	272	1205	1870	2208	2682	2710	2685	2650	2634	2916	2862	2804	2717	2652	2593	2559	2553
45	1.06	11.7	73.7	627	1407	1744	2087	2261	2266	2232	2196	2317	2412	2380	2315	2251	2212	2184	2169
50	1.25	21.9	114	712	1324	1505	1713	1839	1831	1781	1760	1791	1942	1916	1850	1823	1801	1796	1782
55	1.05	7.36	41.4	255	800	1200	1352	1439	1511	1480	1454	1448	1532	1569	1543	1510	1507	1491	1477
60	1.04	12.1	45.5	240	721	1068	1104	1078	1180	1149	1140	1143	1115	1217	1206	1192	1205	1175	1166
65	1.04	3.45	22.2	75.4	310	581	776	774	826	792	791	785	766	809	811	816	822	817	810
70	1.02	6.07	22.2	46.4	155	326	439	497	448	419	437	419	411	407	431	437	448	448	451
75	1.00	1.42	9.42	25.0	58.5	139	229	265	260	240	260	260	257	259	261	274	267	271	273
80	1.00	1.02	8.32	18.6	26.4	33.9	44.3	47.3	52.8	62.3	88.9	97.3	102	109	111	100	91.7	94.5	98.0
85	1.02	1.00	2.59	7.93	12.3	15.9	20.2	23.3	25.5	28.5	40.2	47.5	50.2	53.8	54.7	56.2	46.1	46.3	48.0
90	1.02	1.02	1.03	1.02	0.93	0.83	0.68	0.51	0.38	0.23	0.16	0.10	0.06	0.04	0.01	0.01	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 G0-2000B_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	5.20	5.46	5.78	6.03	6.49	6.94	7.50	8.00	8.39	8.83	10.0	11.1	12.5	13.6	14.1	15.0	13.5	6.16	
-85	41.8	41.1	41.5	43.4	41.8	39.8	38.7	35.9	33.1	31.8	30.8	29.4	28.0	25.8	22.7	18.8	15.7	8.48	
-80	76.6	76.5	79.3	79.9	75.3	71.9	68.4	61.3	56.7	53.6	50.6	46.6	41.8	35.5	28.2	20.1	13.7	5.08	
-75	235	236	235	229	222	209	202	182	158	135	117	103	89.3	71.4	52.1	33.7	18.9	8.12	
-70	395	395	390	376	357	341	326	282	241	203	169	149	124	91.0	61.9	33.9	15.3	4.19	
-65	956	966	966	946	891	776	748	708	675	628	563	480	368	229	104	57.7	24.9	7.71	
-60	1522	1541	1540	1490	1298	1187	1141	1102	1088	981	903	729	509	229	107	51.3	17.8	3.09	
-55	1975	2013	2062	2097	2109	2047	1893	1876	1858	1801	1712	1553	1431	847	213	84.1	31.2	7.25	
-50	2443	2530	2622	2722	2842	2824	2623	2636	2608	2514	2459	2322	2057	879	159	67.3	19.4	2.33	
-45	3210	3286	3443	3636	3898	4171	4257	4098	4131	4126	3968	3545	2779	1969	557	112	36.9	6.71	
-40	4017	4152	4418	4736	5180	5629	5939	5520	5692	5643	5251	4279	2984	2107	279	85.9	21.2	1.40	
-35	4823	4891	5030	5252	5596	6038	6459	6505	6252	6321	6098	5374	3854	2643	1055	140	42.3	6.18	
-30	5670	5710	5808	6009	6360	6775	7220	7264	6911	6913	6515	5426	3510	2349	446	102	21.4	0.94	
-25	5919	5918	5905	5974	6162	6491	6834	7218	6859	6742	6636	6012	4628	2797	1506	178	48.3	5.64	
-20	6176	6103	6035	6055	6207	6469	6774	7113	6524	6565	6417	5688	4151	2457	879	122	22.6	0.22	
-15	5960	5944	5896	5895	5932	6087	6303	6602	6584	6156	6218	5865	4820	2978	1824	251	54.9	5.11	
-10	5745	5745	5746	5751	5752	5857	6057	6336	5976	5842	5882	5399	4238	2493	1201	142	22.3	0.03	
-5	5391	5410	5427	5458	5451	5512	5633	5845	5971	5437	5570	5421	4709	3118	1981	400	61.7	4.67	
0	5054	5085	5132	5170	5178	5239	5358	5565	5367	5149	5253	5022	4228	2557	1507	181	24.8	0.00	
5	4695	4727	4787	4844	4871	4943	5035	5182	5255	4786	4929	4892	4429	3088	2017	554	65.7	4.35	
10	4355	4408	4495	4540	4612	4710	4815	4950	4591	4535	4643	4507	3900	2470	1528	224	25.5	0.00	
15	4041	4069	4138	4204	4272	4374	4477	4589	4476	4175	4286	4290	3993	2834	1958	628	64.1	4.06	
20	3740	3775	3842	3910	4010	4117	4227	4316	3847	3911	3967	3938	3496	2297	1470	221	26.1	0.00	
25	3454	3469	3515	3577	3665	3766	3870	3953	3632	3548	3631	3656	3439	2449	1782	570	57.3	3.82	
30	3175	3194	3231	3309	3398	3497	3589	3477	3201	3261	3333	3313	2796	2028	1202	171	22.1	0.00	
35	2861	2871	2910	2965	3044	3119	3195	3116	2870	2897	2968	3001	2715	2044	1452	403	46.8	3.57	
40	2551	2575	2627	2685	2746	2801	2842	2519	2549	2585	2645	2627	2030	1755	937	119	18.2	0.00	
45	2168	2173	2199	2237	2301	2335	2293	2149	2123	2168	2209	2179	1879	1598	1006	225	34.6	3.18	
50	1785	1793	1796	1841	1880	1899	1677	1691	1731	1778	1794	1530	1436	1085	424	67.9	12.7	0.00	
55	1477	1488	1480	1496	1530	1481	1422	1390	1410	1461	1424	1373	1271	1051	519	97.6	22.3	2.72	
60	1175	1177	1171	1179	1182	1068	1091	1099	1127	1156	1003	1085	954	603	154	37.9	8.48	0.00	
65	809	820	805	805	799	743	760	772	773	812	799	771	745	481	176	44.2	12.2	2.31	
70	455	445	441	412	412	419	435	457	435	498	544	483	303	122	44.0	18.8	3.66	0.50	
75	273	271	276	275	262	258	262	270	249	263	299	273	221	110	43.4	20.0	4.84	1.91	
80	92.7	93.7	117	113	110	99.2	94.8	81.5	59.9	54.3	56.1	48.0	35.8	29.6	19.3	6.96	1.23	0.97	
85	47.9	46.2	55.1	56.9	56.1	50.9	48.4	45.4	32.6	28.5	26.7	27.7	20.0	16.6	12.4	6.59	1.40	1.56	
90	0.00	0.00	0.00	0.01	0.06	0.09	0.17	0.37	0.57	0.79	0.99	1.14	1.26	0.89	0.98	1.04	1.07	1.28	

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 G0-2000B_V1 SYSTEM V2.0.288
 Humidity:65.0%
 Test Distance:13.440m [K=1.0000]
 Remarks: