

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	516.5 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of I _{max}	131.5V x 159.4H
	At 50% of I _{max}	74.3V x 150.1H
	At 90% of I _{max}	23.2V x 135.5H

Beam Flux	Total	998.8 lumens per klm.
	To 10% of I _{max}	973.1 lumens per klm.
	To 50% of I _{max}	618.7 lumens per klm.
	To 90% of I _{max}	33.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	99.9 %

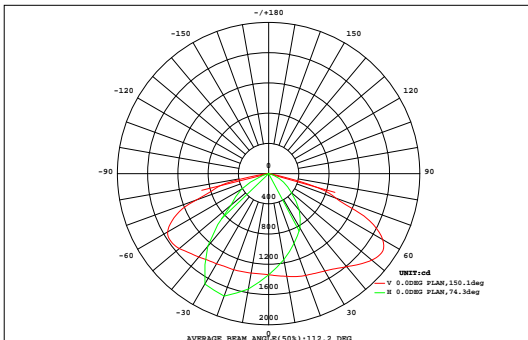
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2017-12-13

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

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.3V I:0.2483A P:52.43W PF:0.9627 Lamp Flux:5089.9x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	PROTECTION ANGLE:



DATA OF LAMP		Eff:97.08lm/W	
MODEL	F-LED218-50W	Imax(cd)	2493
NOMINAL POWER(W)	50	AVAILABILITY(%)	97.7
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	4972
NOMINAL FLUX(lm)	5089.9	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	5089.9
TEST VOLTAGE(V)	220	θ @50%(H,V)	150,74DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.01	0.03	0.06	0.09	0.11	0.12	0.13	0.13	0.13	0.13	0.12	0.11	0.08	0.06	0.03	0.01	0.00	1.33	0.00
90	0.00	0.01	0.03	0.06	0.09	0.11	0.12	0.13	0.13	0.13	0.13	0.12	0.11	0.08	0.06	0.03	0.01	0.00	1.33	0.00
80	0.00	0.04	0.26	0.56	0.68	0.83	0.94	1.01	1.07	1.10	1.08	1.03	0.93	0.80	0.68	0.32	0.05	0.00	11.4	0.00
70	0.01	0.21	1.47	2.35	2.95	3.46	3.76	3.97	4.18	4.26	4.21	4.13	3.94	3.61	2.97	1.80	0.28	0.01	47.6	3.62
60	0.01	0.83	3.71	5.46	7.07	8.09	8.64	9.04	9.32	9.48	9.43	9.43	9.11	8.30	6.77	4.52	0.91	0.01	110	104
50	0.02	1.75	5.47	9.06	11.3	12.9	13.9	14.5	15.1	15.4	15.5	15.5	14.9	13.5	11.4	7.28	2.17	0.03	180	179
40	0.04	2.87	8.48	13.8	17.0	19.2	20.6	21.3	22.0	22.6	23.0	23.2	22.4	20.6	17.6	11.3	3.71	0.05	270	269
30	0.09	4.19	11.9	18.4	22.3	24.8	26.2	26.9	27.5	27.9	28.0	28.0	27.0	24.9	21.4	14.0	4.58	0.08	338	338
	0.13	4.68	14.2	21.9	26.3	29.0	30.7	31.8	32.3	32.7	33.2	32.9	31.6	29.3	25.4	16.6	5.11	0.09	398	397
	0.16	5.04	16.3	25.5	30.5	33.2	35.4	37.0	37.7	38.2	38.6	37.7	36.0	33.8	29.6	18.6	5.21	0.07	459	458
	0.13	4.96	17.4	29.0	34.3	37.2	39.7	42.0	43.4	44.1	43.9	42.4	40.4	38.5	33.6	20.2	5.12	0.06	517	516
	0.09	4.62	18.2	32.7	39.3	42.0	44.0	46.7	49.2	50.0	48.8	46.9	45.8	44.1	37.8	20.9	4.68	0.04	576	575
-30	0.04	3.84	17.9	35.9	44.6	47.3	48.0	49.5	52.2	52.6	50.9	50.3	50.7	49.5	41.1	20.4	4.12	0.03	619	619
-40	0.03	2.98	16.4	36.5	47.7	49.9	48.6	46.9	46.5	46.3	46.5	48.8	51.0	49.8	39.5	17.7	3.36	0.03	598	598
-50	0.02	2.05	13.1	28.8	38.2	39.3	36.8	32.9	30.2	29.8	31.9	35.2	37.0	34.7	26.0	12.6	1.90	0.02	430	430
-60	0.02	1.01	7.39	12.5	14.7	15.8	16.0	15.5	15.0	15.0	15.7	15.7	14.5	12.1	9.06	5.64	0.51	0.02	186	185
-70	0.01	0.21	2.40	4.02	4.31	5.56	6.92	8.03	8.42	8.32	7.89	6.63	5.10	4.01	2.67	0.94	0.14	0.01	75.6	43.2
-80	0.01	0.08	0.13	0.22	0.42	0.76	0.92	1.15	1.32	1.24	1.03	0.82	0.66	0.40	0.20	0.11	0.06	0.01	9.54	0.00
-90	0.00	0.02	0.05	0.09	0.09	0.10	0.11	0.10	0.09	0.09	0.09	0.09	0.09	0.08	0.07	0.06	0.05	0.03	1.25	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.83	39.4	155	277	342	370	381	388	396	399	400	399	391	368	306	173	41.9	0.58	4827	---
Φ a	0.20	36.0	151	271	335	361	372	379	386	389	390	390	383	362	301	170	38.6	0.00	---	4715

one-half-peak spread: U:26.5,D:48.6 , L:15.2,R:15.8 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG	V(B) Range:-90 - 90DEG
H(β) Interval: 1.0DEG	V(B) Interval: 5.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.288
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:13.440m [K=1.0000]
Test Date:2017-12-13	Remarks:

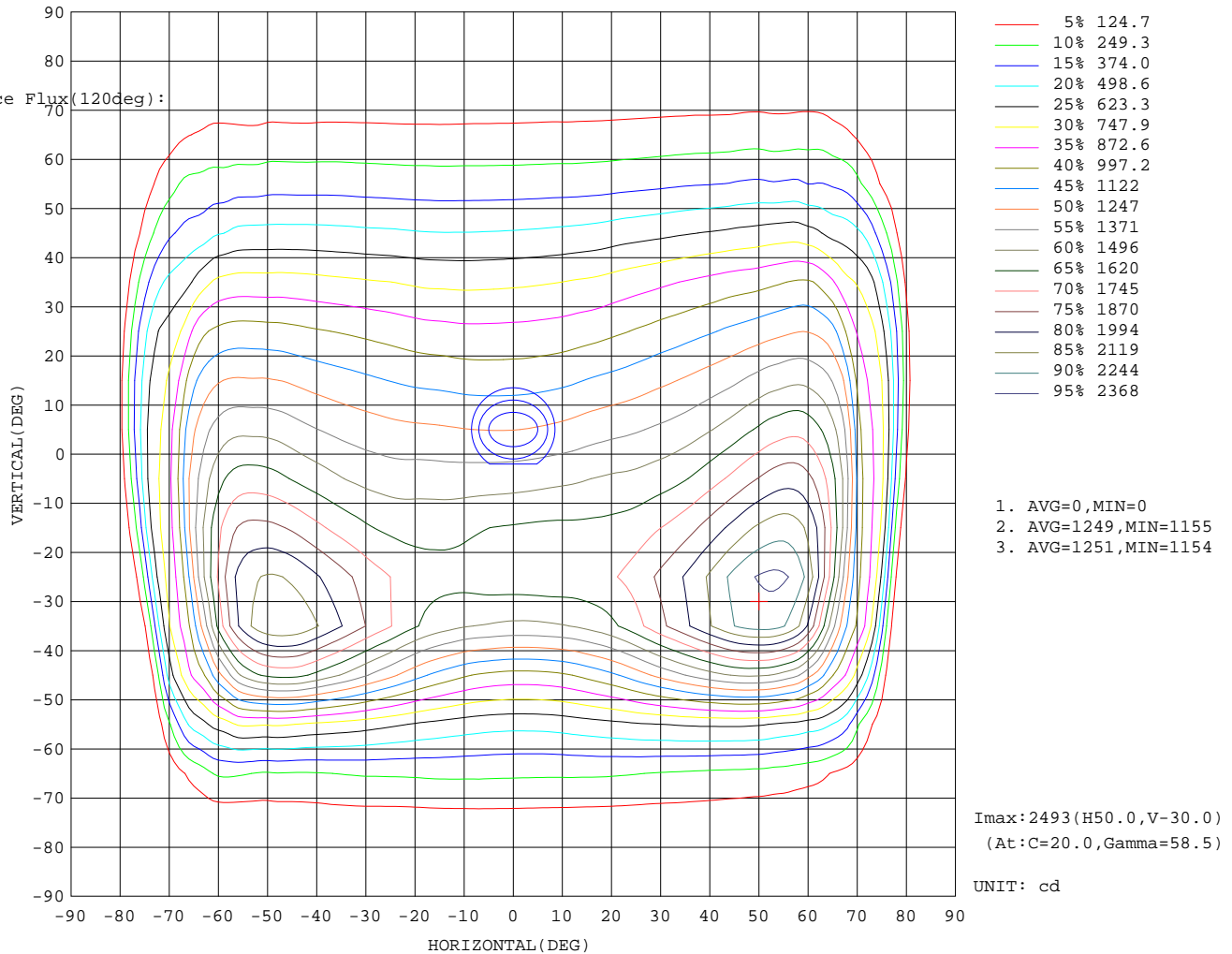
ISOCANDELA DIAGRAM

Conical surface Flux(90deg):

2443.4 lm
 %lum = 50.7%
 %lamp = 50.6%

Conical surface Flux(120deg):

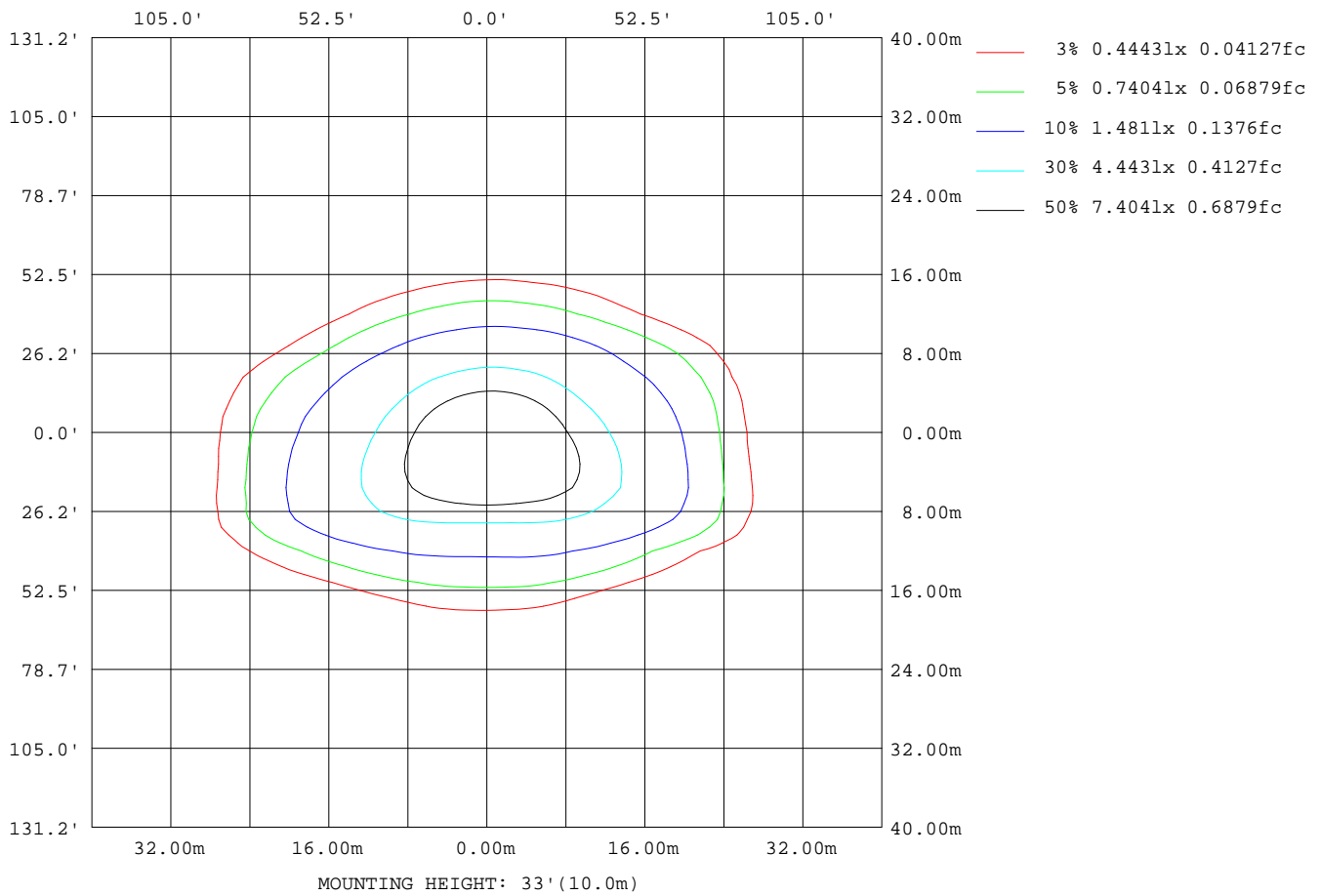
3873.9 lm
 %lum = 80.3%
 %lamp = 80.3%



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:

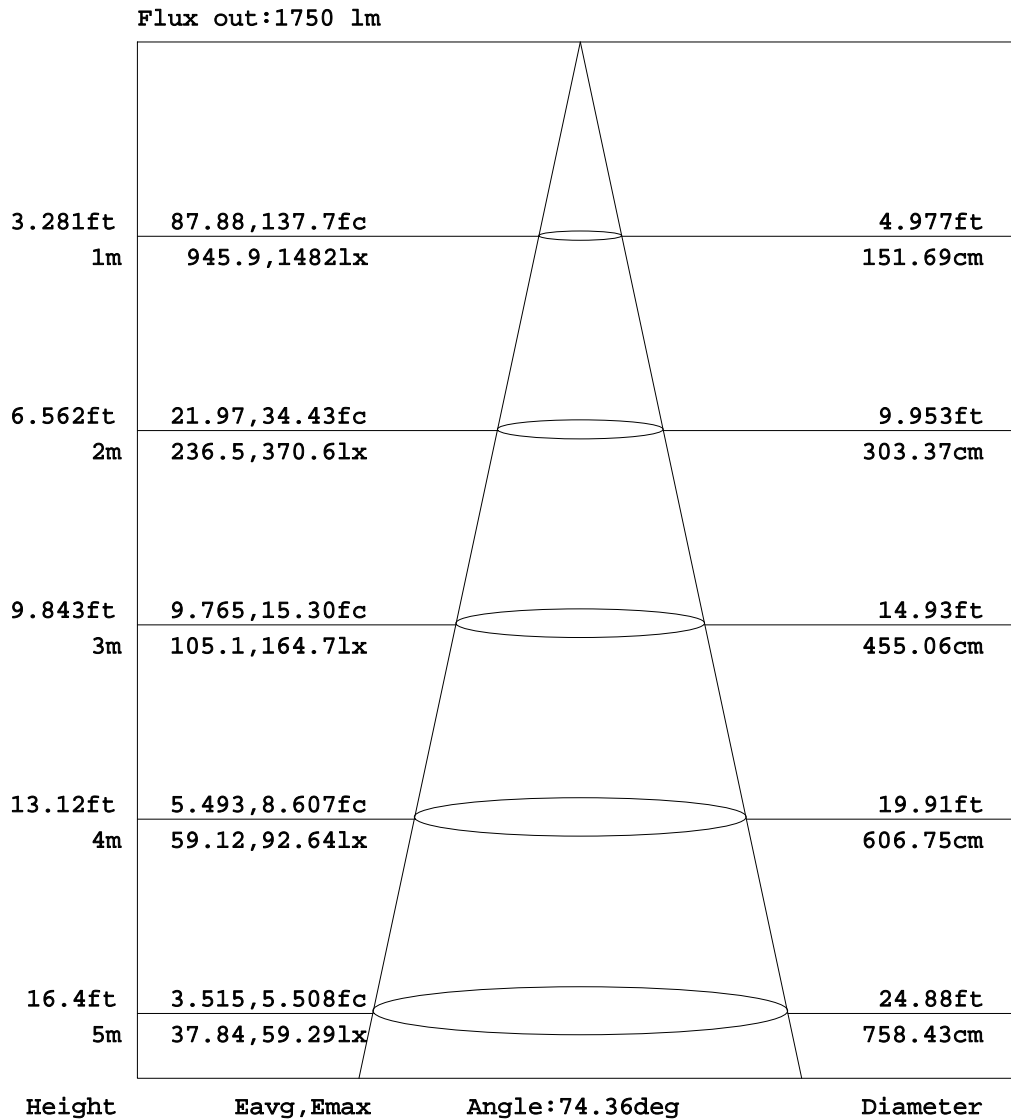
ISOLUX DIAGRAM



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

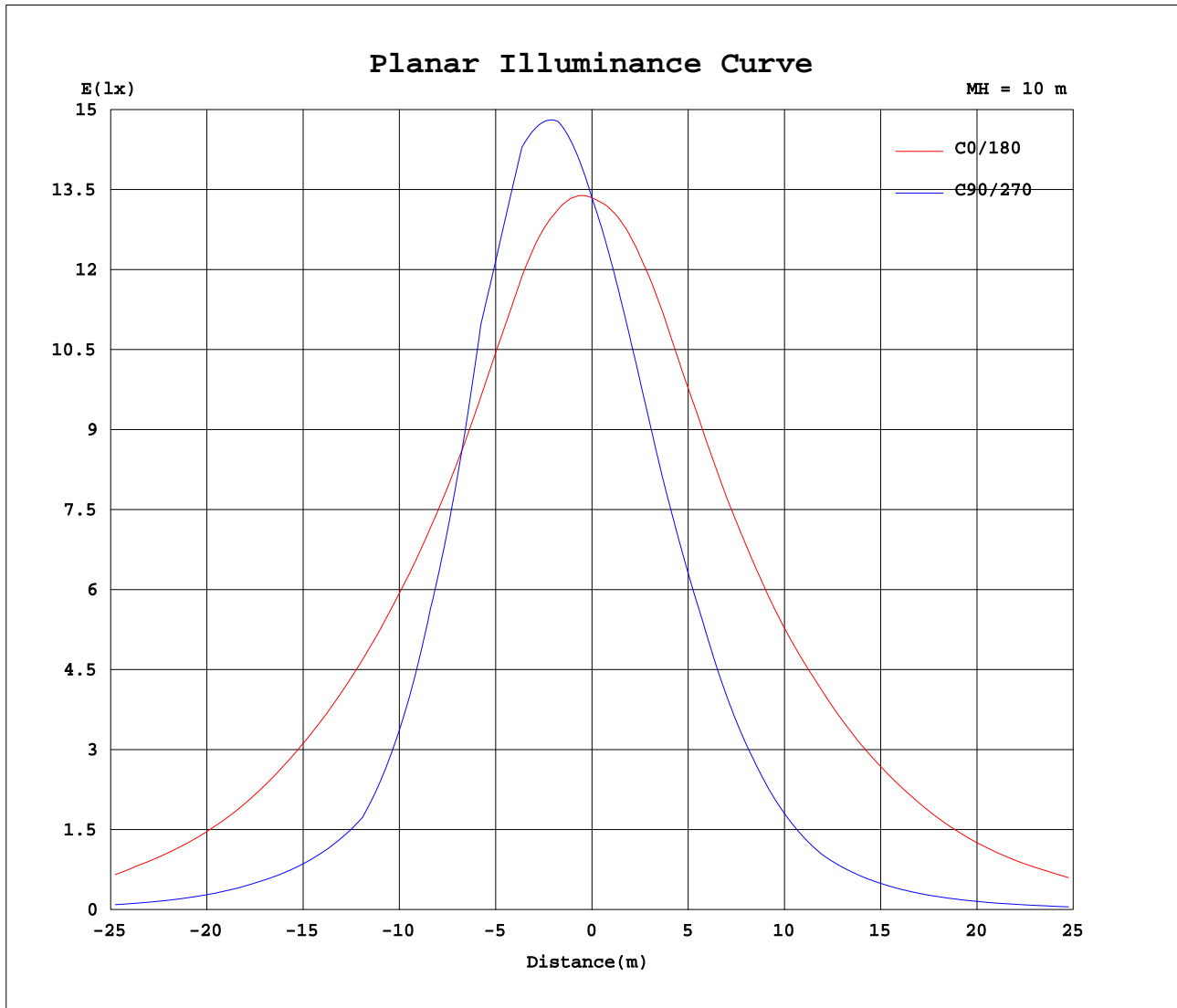


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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	0.63	1.63	1.58	1.53	1.46	1.37	1.36	1.34	1.28	1.26	1.25	1.21	1.20	1.19	1.14	1.14	1.13	1.13	1.15
-85	0.44	1.35	1.66	2.90	4.18	5.50	6.53	7.31	7.72	7.80	7.91	8.61	8.81	8.64	8.27	7.98	7.81	7.44	7.30
-80	0.55	1.49	2.43	5.33	7.98	10.5	12.4	13.7	14.2	14.4	15.0	16.4	16.5	15.7	15.2	14.7	14.2	13.5	13.5
-75	0.39	1.25	3.42	7.89	14.0	21.9	26.2	28.0	32.5	39.1	46.1	54.2	56.9	56.9	59.5	63.5	65.7	66.9	66.4
-70	0.50	2.09	7.85	14.5	26.4	37.5	41.4	45.5	56.3	69.7	85.6	94.9	97.3	98.7	108	114	119	120	118
-65	0.37	1.35	7.00	16.0	45.8	160	263	257	237	240	242	253	261	263	267	273	273	271	268
-60	0.43	3.30	13.3	28.5	167	363	493	450	433	408	408	418	426	430	431	433	427	420	417
-55	0.32	1.71	11.2	26.9	233	545	672	765	757	752	723	702	676	644	612	586	562	542	535
-50	0.36	4.74	20.0	77.6	597	824	923	1077	1093	1069	1021	967	900	836	769	717	679	657	653
-45	0.23	1.98	15.6	44.0	554	900	1208	1519	1643	1659	1587	1489	1382	1277	1170	1083	1014	972	953
-40	0.27	5.74	26.4	226	835	1148	1751	2092	2224	2213	2074	1930	1778	1631	1493	1391	1307	1267	1253
-35	0.18	2.13	20.5	117	740	1084	1657	2044	2214	2222	2128	1999	1869	1752	1635	1557	1506	1487	1471
-30	0.21	7.41	39.8	492	885	1452	1934	2177	2239	2183	2078	1963	1863	1772	1705	1681	1684	1691	1688
-25	0.12	2.17	28.0	283	792	1252	1764	2056	2131	2098	2007	1911	1819	1745	1685	1667	1674	1698	1704
-20	0.15	8.40	84.4	647	947	1518	1897	2023	2016	1948	1859	1785	1711	1662	1642	1652	1685	1713	1724
-15	0.09	2.12	46.8	465	835	1342	1715	1893	1901	1852	1773	1701	1637	1595	1581	1582	1597	1620	1632
-10	0.11	11.1	187	717	1025	1489	1731	1788	1755	1694	1628	1566	1523	1509	1520	1518	1529	1538	1549
-5	0.10	1.96	73.6	563	851	1317	1576	1678	1667	1613	1555	1501	1461	1437	1436	1432	1431	1434	1439
0	0.07	12.2	259	712	1017	1380	1544	1572	1543	1483	1439	1400	1377	1359	1352	1342	1336	1331	1338
5	0.07	1.71	96.6	582	835	1234	1419	1468	1461	1421	1374	1336	1307	1284	1270	1262	1250	1243	1244
10	0.04	13.7	307	694	957	1273	1363	1357	1356	1319	1277	1247	1219	1195	1182	1172	1157	1154	1158
15	0.04	1.49	96.3	543	771	1097	1236	1258	1255	1231	1196	1169	1144	1119	1097	1086	1071	1066	1068
20	0.05	10.7	255	641	799	1071	1145	1153	1139	1114	1093	1072	1048	1024	1003	989	978	978	983
25	0.06	1.32	72.6	465	674	898	1026	1050	1042	1029	1008	989	970	948	925	912	901	901	905
30	0.05	8.14	184	547	670	885	939	942	941	927	907	892	873	853	832	825	822	826	830
35	0.02	1.29	42.7	326	527	639	775	799	797	796	785	772	760	749	731	722	717	721	727
40	0.05	5.10	74.4	319	452	525	641	655	657	659	653	644	637	631	617	615	615	620	630
45	0.01	1.18	19.4	169	353	419	490	530	534	535	534	528	521	516	507	501	501	505	509
50	0.04	3.93	32.4	196	323	348	373	412	414	411	411	407	401	395	391	388	389	392	394
55	0.01	0.74	9.63	70.5	202	281	298	317	326	327	327	326	320	314	310	307	308	308	310
60	0.03	2.45	10.9	59.6	176	228	232	221	244	242	243	240	235	229	228	226	228	227	228
65	0.00	0.23	4.91	18.8	69.2	128	153	146	154	152	153	154	152	150	148	147	149	149	150
70	0.01	0.60	5.05	10.6	24.5	48.9	68.0	67.8	64.4	62.0	65.7	66.8	67.9	68.3	68.0	68.5	70.7	72.5	73.5
75	0.00	0.05	1.75	4.72	10.4	23.1	35.6	37.8	38.2	36.6	37.6	38.9	39.5	39.8	40.0	39.9	40.2	41.6	42.1
80	0.00	0.06	0.40	2.52	4.35	6.35	7.97	9.21	10.1	10.8	11.2	11.5	11.6	11.6	11.8	11.4	11.3	11.3	11.4
85	0.00	0.02	0.09	0.70	1.83	2.77	3.68	4.39	4.91	5.27	5.54	5.68	5.79	5.81	5.89	5.80	5.62	5.69	5.66
90	0.01	0.02	0.03	0.01	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:
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	1.22	1.30	1.40	1.47	1.61	1.76	1.95	2.15	2.19	2.40	2.67	2.97	3.31	3.51	3.59	3.59	2.98	0.68	
-85	7.31	7.35	7.59	7.46	7.38	7.37	7.26	6.92	6.49	6.34	6.16	5.89	5.74	5.65	4.83	4.08	3.65	1.48	
-80	13.3	13.6	13.9	13.3	13.1	12.9	12.2	11.4	10.6	10.2	9.50	8.57	8.15	7.29	5.37	4.17	3.13	0.44	
-75	64.5	62.2	59.2	56.6	52.8	50.0	48.1	44.2	36.5	29.1	25.4	20.7	18.1	14.5	9.79	6.67	3.80	1.37	
-70	114	108	102	97.3	89.2	86.2	81.4	71.9	56.5	45.4	35.9	30.9	25.6	18.1	11.4	6.56	2.87	0.35	
-65	266	266	265	262	253	241	233	223	216	209	192	163	116	59.1	21.2	11.2	4.40	1.23	
-60	417	424	427	419	408	390	376	368	372	357	324	271	162	58.8	21.0	10.4	2.80	0.06	
-55	537	549	570	590	610	623	635	642	642	634	600	561	495	271	54.4	16.5	5.53	1.05	
-50	663	692	729	774	825	865	902	917	911	888	857	830	721	280	36.1	13.6	2.75	0.00	
-45	956	979	1032	1098	1188	1284	1370	1447	1502	1509	1448	1284	1003	698	193	22.8	6.73	0.86	
-40	1264	1301	1386	1487	1631	1773	1905	2028	2115	2107	1960	1564	1083	773	82.4	17.4	2.84	0.00	
-35	1474	1489	1529	1595	1702	1839	1969	2109	2243	2300	2250	1978	1415	979	410	29.3	7.78	0.69	
-30	1695	1698	1719	1779	1883	2007	2145	2303	2439	2493	2401	1980	1311	900	162	20.5	2.58	0.00	
-25	1711	1712	1713	1733	1797	1897	2006	2140	2283	2379	2386	2197	1662	1042	599	38.8	8.95	0.51	
-20	1732	1722	1713	1730	1787	1869	1969	2092	2220	2300	2283	2048	1478	917	310	24.0	2.50	0.00	
-15	1644	1648	1650	1660	1687	1744	1819	1922	2035	2141	2190	2088	1713	1092	726	61.6	10.2	0.36	
-10	1562	1573	1591	1606	1630	1673	1747	1844	1944	2037	2066	1913	1528	945	442	29.4	2.13	0.00	
-5	1452	1469	1491	1514	1530	1564	1613	1691	1781	1875	1943	1897	1658	1105	777	109	11.1	0.25	
0	1356	1379	1410	1433	1456	1487	1536	1608	1697	1780	1825	1741	1473	945	552	42.0	2.13	0.00	
5	1256	1277	1309	1335	1360	1392	1432	1488	1558	1638	1699	1688	1530	1063	778	158	11.4	0.19	
10	1172	1198	1232	1255	1289	1326	1368	1420	1486	1559	1598	1540	1356	902	559	51.9	1.81	0.00	
15	1077	1095	1126	1153	1184	1222	1259	1303	1352	1414	1460	1464	1364	975	749	184	10.8	0.14	
20	995	1014	1044	1074	1110	1146	1185	1222	1269	1316	1348	1336	1181	850	538	55.6	1.76	0.00	
25	912	924	946	974	1007	1042	1076	1111	1149	1186	1224	1243	1160	863	661	167	9.12	0.09	
30	838	852	867	900	931	964	995	1030	1058	1089	1128	1115	900	759	427	38.0	1.35	0.00	
35	736	749	766	793	823	851	880	909	938	958	993	1011	887	738	512	107	6.80	0.06	
40	644	662	681	712	738	762	788	812	833	855	884	844	706	624	290	21.7	1.12	0.00	
45	516	526	537	556	576	594	614	631	649	666	685	663	583	522	301	47.0	4.68	0.04	
50	396	398	406	420	430	442	454	461	479	495	496	434	434	302	92.9	11.3	0.51	0.00	
55	313	316	320	328	339	350	362	370	382	393	388	373	359	279	111	15.9	2.74	0.02	
60	233	234	239	247	257	268	277	285	297	276	290	321	256	129	24.8	7.21	0.15	0.00	
65	152	154	156	159	164	170	175	178	184	191	182	194	166	107	29.5	7.67	1.11	0.00	
70	74.0	73.6	74.1	75.1	75.5	76.4	77.6	74.8	81.7	90.1	84.7	71.3	39.7	15.5	7.75	2.86	0.01	0.00	
75	42.7	42.4	43.1	43.4	43.7	44.0	43.7	43.0	43.7	47.5	47.4	46.0	29.0	13.9	5.69	2.87	0.16	0.01	
80	11.4	11.7	12.1	12.0	11.9	11.8	11.3	10.8	10.1	9.20	8.18	7.01	5.35	3.40	1.43	0.14	0.00	0.00	
85	5.75	5.74	6.02	6.02	5.99	5.93	5.75	5.55	5.20	4.80	4.33	3.77	3.04	2.09	1.08	0.28	0.02	0.01	
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	0.03	0.03	0.01	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: