

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity (Luminaire orientation as tested.)		358.5 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>	151.6V x 153.5H 112.6V x 115.1H 45.5V x 52.9H
Beam Flux	Total To 10% of I <sub>max</sub> To 50% of I <sub>max</sub> To 90% of I <sub>max</sub>	1000.0 lumens per klm. 972.5 lumens per klm. 762.5 lumens per klm. 175.8 lumens per klm.
	Upward LOR Downward LOR	1.4 % 98.6 %
Luminaire Efficiency(Light Output Ratio)		100.0 %

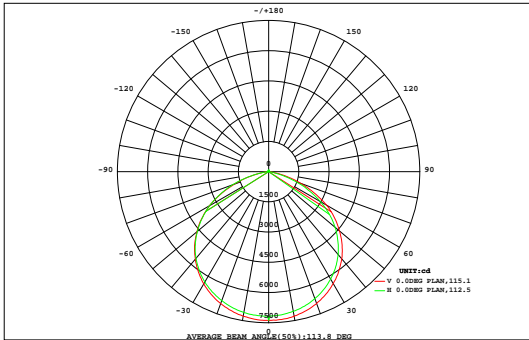
---

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:25 June 2021

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.640m [K=1.0000]  
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.0V I:0.8630A P:198.1W PF:0.9973 Lamp Flux:20590.8x1 lm		
NAME:	TYPE:200W	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.:	SUR.:0.295*0.195	Shielding Angle:



DATA OF LAMP		Eff:103.94lm/W	
MODEL		Imax(cd)	7382
NOMINAL POWER(W)	11	AVAILABILITY(%)	97.3
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	20027
NOMINAL FLUX(lm)	20590.8	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	20591
TEST VOLTAGE(V)	230	θ @50%(H,V)	115,113DEG

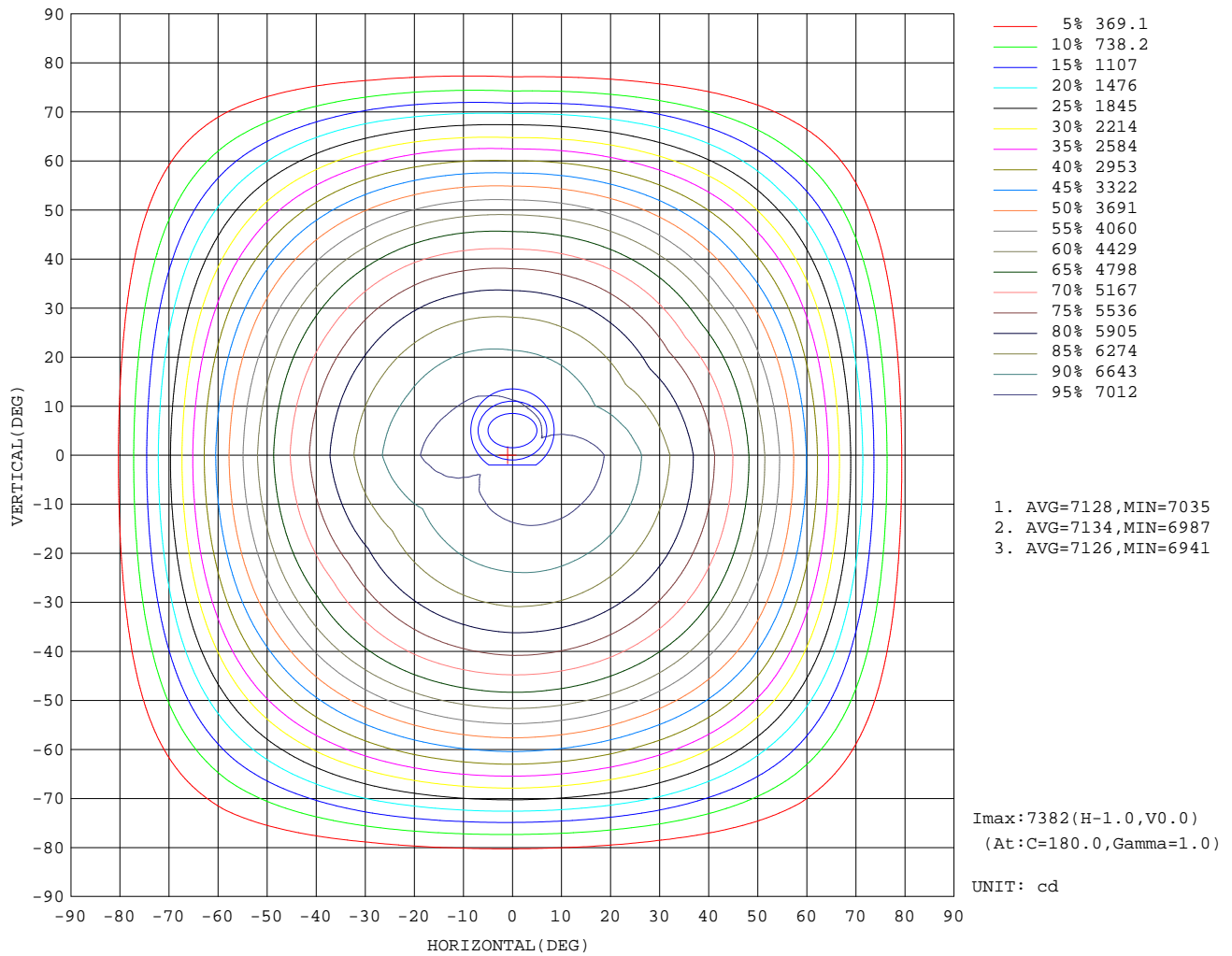
VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm	Φ t	Φ a	
	0.02	0.08	0.16	0.32	0.50	0.64	0.80	0.97	1.00	0.95	0.83	0.62	0.45	0.31	0.19	0.12	0.07	0.02	8.04	0.00
90	0.02	0.08	0.16	0.32	0.50	0.64	0.80	0.97	1.00	0.95	0.83	0.62	0.45	0.31	0.19	0.12	0.07	0.02	8.04	0.00
80	0.03	0.24	1.25	3.67	7.46	12.1	16.6	19.9	20.9	20.5	18.7	15.0	10.3	5.79	2.47	0.73	0.14	0.02	156	76.0
70	0.05	0.93	5.09	14.0	26.6	40.7	53.4	62.5	66.5	65.9	60.7	50.8	37.6	23.5	11.5	3.74	0.58	0.03	524	501
60	0.09	2.22	11.0	27.5	48.8	71.0	90.5	104	111	110	102	87.2	67.4	45.3	24.3	9.18	1.58	0.06	914	903
50	0.17	3.88	17.5	40.8	69.1	97.3	122	139	147	146	136	118	93.1	65.0	37.7	15.4	3.06	0.11	1251	1245
40	0.26	5.59	23.4	52.2	85.4	118	146	166	175	174	163	142	113	81.0	49.2	21.4	4.65	0.17	1520	1516
30	0.34	7.11	28.3	61.0	97.6	133	164	185	195	194	182	159	128	93.9	58.4	26.4	6.12	0.23	1720	1716
20	0.41	8.23	31.7	67.0	106	144	176	199	209	207	193	170	140	103	65.0	30.0	7.25	0.28	1858	1855
10	0.45	8.86	33.7	70.3	111	150	183	207	218	214	203	181	148	109	68.9	32.1	7.90	0.32	1947	1943
0	0.46	8.92	33.8	70.4	111	149	182	204	215	219	208	184	150	110	69.5	32.5	8.00	0.32	1955	1952
-10	0.42	8.41	32.2	67.4	106	143	173	196	209	211	201	178	145	107	67.0	31.0	7.51	0.30	1882	1879
-20	0.36	7.40	29.0	61.8	98.0	132	163	185	198	199	188	166	136	99.3	61.7	27.9	6.54	0.25	1760	1756
-30	0.28	5.99	24.5	53.7	86.5	119	147	168	180	181	170	150	121	87.9	53.6	23.4	5.17	0.19	1578	1574
-40	0.18	4.33	18.8	43.2	71.7	100	126	144	155	155	145	127	101	72.4	42.6	17.6	3.60	0.12	1328	1322
-50	0.10	2.64	12.6	30.4	53.2	76.4	96.9	112	121	121	113	96.9	76.4	52.7	29.1	11.3	2.06	0.07	1008	999
-60	0.05	1.21	6.54	17.3	31.7	47.8	62.5	73.6	79.7	79.5	73.2	61.8	46.8	30.3	15.7	5.46	0.86	0.04	634	616
-70	0.03	0.31	1.97	5.79	11.4	18.3	25.2	30.5	33.3	33.1	29.9	24.3	17.1	10.2	4.78	1.44	0.21	0.03	248	175
-80	0.02	0.09	0.21	0.51	0.97	1.52	2.08	2.60	2.86	2.83	2.51	1.97	1.36	0.79	0.38	0.16	0.07	0.02	21.0	0.00
-90	0.02	0.09	0.21	0.51	0.97	1.52	2.08	2.60	2.86	2.83	2.51	1.97	1.36	0.79	0.38	0.16	0.07	0.02	21.0	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	3.73	76.4	312	687	1123	1554	1929	2200	2337	2334	2190	1912	1534	1098	662	290	65.4	2.57	20311	---
Φ a	0.00	52.3	294	670	1107	1539	1914	2184	2320	2318	2176	1897	1518	1082	645	272	41.1	0.00	---	20027

one-half-peak spread: U:52.0,D:55.1 , L:55.0,R:52.6 NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG  
 H(β) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:25 June 2021

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [K=1.0000]  
 Remarks:

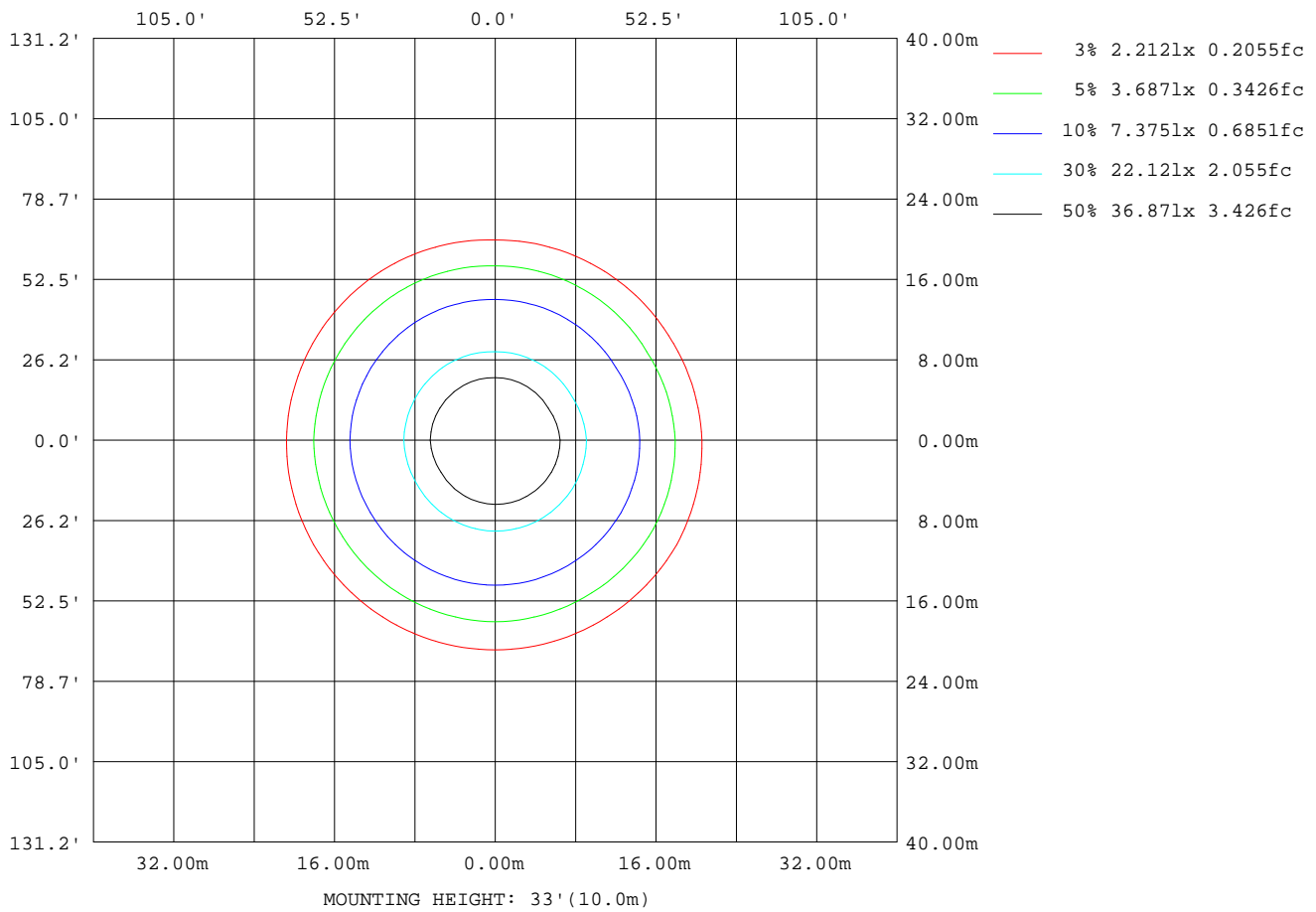
ISOCANDELA DIAGRAM



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:25 June 2021

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [K=1.0000]  
 Remarks:

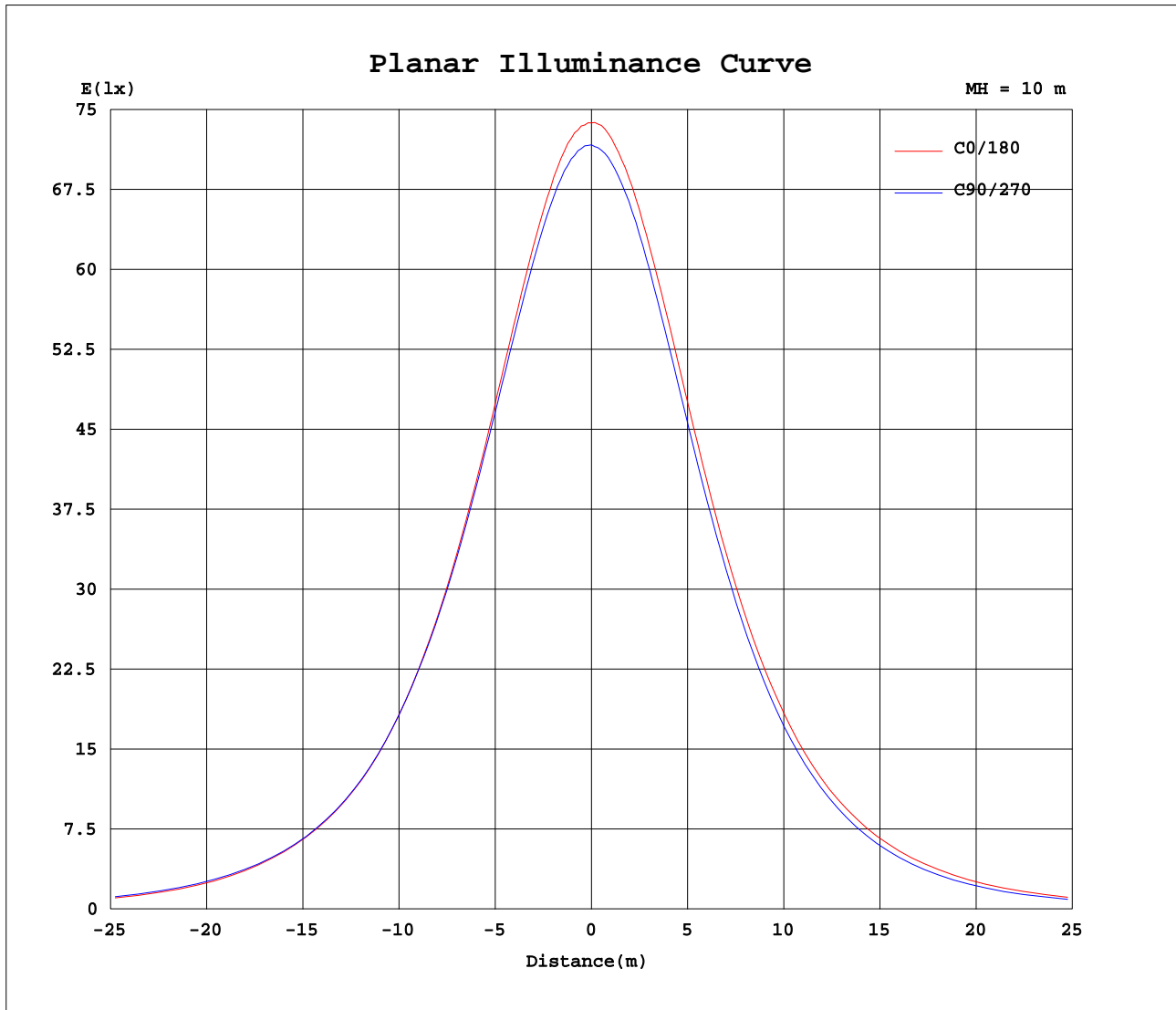
ISOLUX DIAGRAM



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:25 June 2021

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [K=1.0000]  
 Remarks:

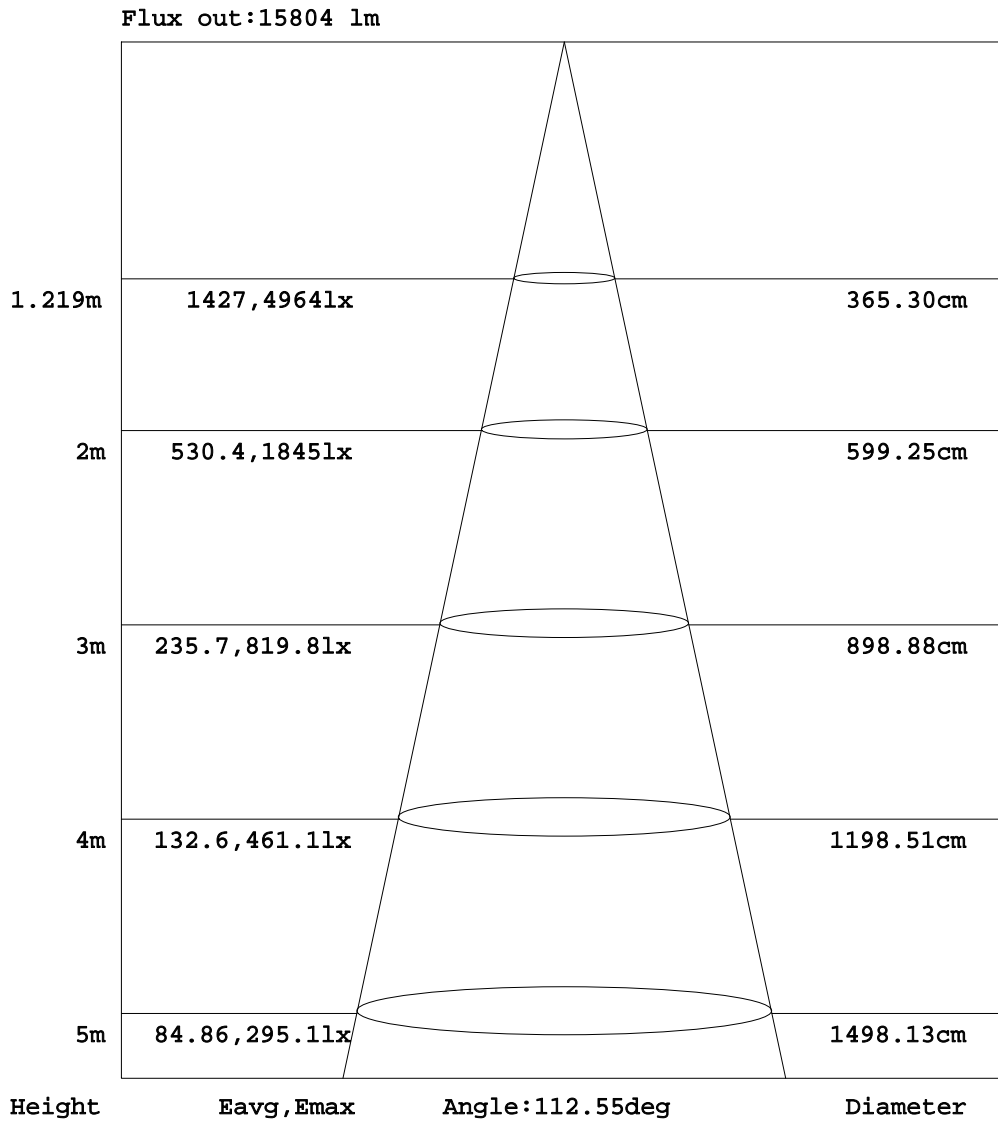
Planar Illuminance Curve



H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:25 June 2021

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [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: 0.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:25 June 2021

V(B) Range:-180 - 180DEG  
 V(B) Interval: 0.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
 Humidity:65.0%  
 Test Distance:7.640m [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
-180	8.82	12.7	17.9	23.9	30.5	37.5	44.4	50.9	57.3	63.0	68.4	73.4	77.4	81.0	84.5	87.7	90.0	91.4	89.1
-170	8.82	12.6	17.6	23.4	29.8	36.4	43.1	49.3	55.3	60.7	65.6	70.1	73.9	77.1	79.6	81.7	83.9	85.4	86.9
-160	8.82	12.4	17.0	22.4	28.3	34.4	40.5	46.2	51.7	56.7	61.0	65.0	68.4	71.9	75.0	77.6	79.7	81.6	82.8
-150	8.82	12.0	16.1	20.8	26.0	31.4	36.8	41.9	46.7	51.1	55.0	59.1	62.8	66.0	68.7	71.0	73.1	74.6	75.6
-140	8.82	11.6	15.0	18.9	23.2	27.7	32.2	36.5	40.5	44.5	48.6	52.2	55.4	58.2	60.5	62.6	64.2	65.4	66.1
-130	8.82	11.0	13.7	16.8	20.0	23.4	26.9	30.3	33.7	37.2	40.4	43.4	46.2	48.6	50.6	52.2	53.6	54.5	54.9
-120	8.82	10.4	12.3	14.5	16.7	19.1	21.4	23.8	26.4	28.9	31.3	33.5	35.6	37.3	38.9	40.1	41.1	41.8	42.2
-110	8.82	9.83	11.0	12.2	13.5	14.8	16.1	17.6	19.2	20.7	22.2	23.5	24.7	25.7	26.5	27.3	27.9	28.2	28.4
-100	8.82	9.25	9.67	10.1	10.5	11.0	11.4	12.1	12.8	13.4	14.0	14.6	15.1	15.5	15.8	16.1	16.3	16.4	16.4
-90	8.82	8.73	8.64	8.55	8.46	8.38	8.29	8.35	8.42	8.49	8.55	8.62	8.69	8.69	8.69	8.70	8.70	8.71	8.71
-80	8.82	9.52	11.2	14.8	23.1	39.2	64.7	96.5	133	166	203	237	269	307	342	368	385	395	397
-70	8.82	11.2	22.1	63.5	162	293	442	617	789	967	1154	1318	1474	1603	1698	1780	1841	1879	1892
-60	8.82	14.1	57.6	211	420	709	1037	1350	1659	1972	2259	2525	2746	2934	3096	3212	3301	3360	3386
-50	8.82	19.1	130	382	761	1201	1643	2103	2556	2929	3268	3581	3841	4077	4269	4413	4521	4589	4616
-40	8.82	26.9	218	588	1102	1657	2231	2790	3266	3706	4090	4439	4744	5004	5218	5377	5491	5572	5610
-30	8.82	37.9	287	777	1398	2046	2725	3324	3846	4311	4720	5070	5390	5657	5886	6063	6194	6281	6325
-20	8.82	47.6	347	917	1625	2361	3078	3717	4275	4768	5181	5530	5837	6109	6334	6526	6662	6755	6804
-10	8.82	53.4	389	1009	1761	2551	3309	3955	4538	5061	5502	5888	6207	6458	6639	6777	6917	7017	7097
0	8.82	55.1	400	1034	1803	2610	3394	4049	4650	5200	5660	6077	6434	6729	6968	7143	7279	7358	7375
10	8.82	52.8	381	992	1740	2525	3290	3944	4529	5066	5526	5928	6271	6551	6773	6933	7038	7072	7035
20	8.82	46.4	332	883	1588	2310	3035	3684	4257	4760	5207	5591	5923	6193	6414	6571	6678	6718	6702
30	8.82	36.3	266	732	1342	1978	2642	3262	3807	4283	4703	5077	5395	5651	5865	6016	6109	6156	6154
40	8.82	25.4	193	537	1024	1569	2120	2676	3170	3622	4016	4352	4645	4898	5101	5236	5326	5369	5365
50	8.82	18.1	113	331	672	1091	1517	1957	2372	2771	3107	3417	3674	3900	4067	4191	4270	4309	4305
60	8.82	13.5	51.2	163	343	590	869	1177	1469	1750	2011	2251	2468	2640	2776	2875	2938	2965	2955
70	8.82	10.9	19.0	52.3	109	194	316	448	581	712	871	1004	1143	1245	1322	1377	1416	1431	1420
80	8.82	9.44	10.5	12.6	16.6	24.8	43.0	55.9	64.5	71.3	87.2	99.2	111	127	144	150	147	139	125
90	8.82	8.86	8.91	8.96	9.01	9.06	9.10	9.16	9.22	9.28	9.34	9.40	9.46	9.48	9.49	9.51	9.53	9.55	9.57
100	8.82	9.44	10.1	10.8	11.5	12.2	12.9	13.6	14.3	14.9	15.5	16.0	16.5	16.9	17.3	17.7	17.9	18.0	18.1
110	8.82	10.0	11.4	12.9	14.5	16.2	17.8	19.5	21.1	22.6	24.1	25.4	26.6	27.7	28.6	29.3	29.9	30.3	30.4
120	8.82	10.6	12.8	15.2	17.8	20.5	23.2	26.0	28.6	31.2	33.6	35.8	37.8	39.5	40.9	42.1	42.9	43.5	43.7
130	8.82	11.2	14.1	17.5	21.1	24.9	28.7	32.5	36.2	39.7	43.0	45.8	48.4	50.6	52.5	53.9	55.0	55.7	55.9
140	8.82	11.7	15.4	19.6	24.1	28.9	33.8	38.6	43.1	47.3	51.2	54.6	57.6	60.2	62.3	64.0	65.2	66.0	66.3
150	8.82	12.2	16.4	21.3	26.7	32.4	38.2	43.7	48.8	53.6	57.9	61.8	65.3	68.3	70.6	72.4	73.8	74.7	75.0
160	8.82	12.5	17.2	22.7	28.8	35.1	41.5	47.5	53.2	58.5	63.2	67.6	71.2	74.4	76.9	78.9	80.6	81.6	81.8
170	8.82	12.7	17.7	23.6	30.1	36.8	43.6	50.0	56.1	61.6	66.7	71.5	75.4	78.6	81.4	83.9	86.1	87.2	87.1
180	8.82	12.7	17.9	23.9	30.5	37.5	44.4	50.9	57.3	63.0	68.4	73.4	77.4	81.0	84.5	87.7	90.0	91.4	88.7

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:25 June 2021

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.640m [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	
-180	91.0	89.4	87.9	84.9	81.5	77.7	73.3	68.5	63.2	57.7	51.4	44.9	38.0	31.1	24.5	18.4	13.2	8.99	
-170	87.5	86.9	85.2	82.9	79.6	75.9	71.7	67.0	62.0	56.5	50.4	44.0	37.3	30.6	24.1	18.2	13.1	8.99	
-160	82.7	81.8	80.3	78.0	75.2	71.8	67.9	63.6	58.8	53.6	47.9	41.8	35.5	29.2	23.2	17.6	12.8	8.99	
-150	75.4	74.5	73.1	71.1	68.7	65.7	62.2	58.2	53.9	49.1	43.9	38.4	32.7	27.1	21.7	16.8	12.5	8.99	
-140	65.9	65.3	64.1	62.3	60.3	57.7	54.7	51.3	47.4	43.2	38.7	33.9	29.1	24.4	19.8	15.7	12.0	8.99	
-130	54.8	54.2	53.2	51.9	50.1	48.0	45.6	42.7	39.6	36.1	32.5	28.7	24.9	21.2	17.7	14.4	11.5	8.99	
-120	42.1	41.7	41.0	40.0	38.7	37.1	35.2	33.1	30.8	28.3	25.7	23.1	20.4	17.8	15.3	13.0	10.8	8.99	
-110	28.5	28.3	27.9	27.3	26.6	25.6	24.6	23.4	22.0	20.6	19.1	17.6	16.0	14.5	13.0	11.5	10.2	8.99	
-100	16.5	16.4	16.3	16.1	15.8	15.5	15.1	14.7	14.2	13.7	13.2	12.6	12.0	11.3	10.7	10.1	9.55	8.99	
-90	8.65	8.59	8.53	8.47	8.42	8.36	8.40	8.44	8.49	8.53	8.57	8.61	8.68	8.74	8.80	8.86	8.92	8.99	
-80	390	375	353	324	288	249	212	173	130	100	70.4	43.3	25.8	15.5	11.2	9.38	8.56	8.99	
-70	1874	1831	1763	1672	1565	1429	1267	1086	888	706	527	370	229	107	45.6	14.1	9.24	8.99	
-60	3359	3298	3201	3074	2913	2729	2497	2224	1929	1588	1263	933	616	340	142	42.4	10.5	8.99	
-50	4597	4537	4435	4290	4094	3865	3604	3291	2945	2535	2058	1556	1091	659	302	86.4	12.4	8.99	
-40	5591	5528	5422	5263	5064	4805	4508	4144	3756	3305	2774	2167	1561	987	485	144	15.3	8.99	
-30	6313	6252	6136	5984	5776	5508	5197	4820	4380	3879	3323	2672	1966	1294	669	211	24.7	8.99	
-20	6809	6762	6655	6494	6271	6012	5667	5273	4811	4285	3706	3027	2262	1516	807	265	34.5	8.99	
-10	7128	7095	6992	6821	6590	6298	5957	5553	5074	4525	3924	3242	2444	1646	889	298	40.5	8.99	
0	7365	7280	7147	6961	6711	6410	6054	5642	5160	4587	3991	3309	2485	1680	909	305	42.6	8.99	
10	6982	6863	6710	6569	6388	6133	5811	5431	4968	4433	3849	3175	2393	1610	866	288	39.8	8.99	
20	6664	6572	6427	6239	5991	5697	5400	5042	4610	4109	3552	2901	2168	1450	766	246	33.2	8.99	
30	6122	6042	5913	5727	5496	5212	4886	4502	4082	3625	3100	2494	1830	1205	616	187	23.3	8.99	
40	5340	5266	5148	4978	4758	4492	4182	3817	3416	2977	2507	1960	1403	869	423	122	14.2	8.99	
50	4284	4222	4115	3969	3767	3535	3252	2940	2601	2200	1767	1333	922	549	239	70.9	11.7	8.99	
60	2941	2891	2803	2683	2527	2337	2128	1869	1588	1287	1001	711	461	243	101	34.5	10.0	8.99	
70	1414	1379	1318	1245	1164	1027	897	747	608	464	331	212	124	65.5	31.7	11.9	8.98	8.99	
80	131	133	129	118	97.4	79.1	66.0	55.9	46.2	35.2	23.4	16.3	13.8	10.8	9.43	8.83	8.51	8.99	
90	9.53	9.49	9.44	9.40	9.35	9.31	9.29	9.26	9.23	9.21	9.18	9.16	9.13	9.10	9.07	9.04	9.02	8.99	
100	18.1	17.9	17.7	17.5	17.1	16.7	16.2	15.7	15.1	14.5	13.9	13.2	12.5	11.8	11.0	10.3	9.65	8.99	
110	30.3	29.9	29.4	28.7	27.7	26.7	25.5	24.2	22.8	21.3	19.7	18.1	16.5	14.9	13.3	11.7	10.3	8.99	
120	43.4	42.9	42.0	40.8	39.4	37.7	35.8	33.6	31.2	28.7	26.1	23.5	20.8	18.2	15.6	13.2	10.9	8.99	
130	55.5	54.8	53.6	52.1	50.2	48.0	45.5	42.6	39.5	36.1	32.5	28.9	25.2	21.5	17.9	14.5	11.5	8.99	
140	65.9	65.0	63.6	61.7	59.5	56.9	53.9	50.5	46.7	42.7	38.5	33.9	29.3	24.6	20.0	15.8	12.1	8.99	
150	74.5	73.5	71.9	69.8	67.3	64.3	60.8	56.9	52.9	48.4	43.6	38.3	32.8	27.2	21.8	16.9	12.5	8.99	
160	81.3	80.0	77.9	75.6	72.9	69.7	66.4	62.4	57.9	53.0	47.5	41.6	35.5	29.3	23.3	17.7	12.9	8.99	
170	86.5	84.4	81.8	79.7	77.4	74.4	70.7	66.3	61.4	56.1	50.1	43.9	37.3	30.6	24.2	18.2	13.1	8.99	
180	91.0	89.4	87.9	84.9	81.5	77.7	73.3	68.5	63.2	57.7	51.4	44.9	38.0	31.1	24.5	18.4	13.2	8.99	

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:25 June 2021

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:7.640m [K=1.0000]  
Remarks: