

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	641.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	139.1V x 138.4H
	At 50% of Imax	72.3V x 74.2H
	At 90% of Imax	23.7V x 24.4H

Beam Flux	Total	1111.9 lumens per klm.
	To 10% of Imax	1098.3 lumens per klm.
	To 50% of Imax	546.4 lumens per klm.
	To 90% of Imax	90.2 lumens per klm.

Upward LOR	0.0 %
Downward LOR	111.2 %

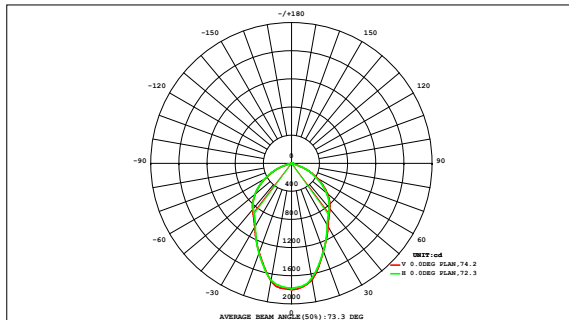
Luminaire Efficiency (Light Output Ratio)	111.1 %
---	---------

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 23 January 2023

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.340m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 96RAY30/WW	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: circle	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	96RAY30/WW	Imax (cd)	1797
NOMINAL POWER (W)	30	AVAILABILITY (%)	109.4
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	3065
NOMINAL FLUX (lm)	2800	LOR (%)	111.1
LAMPS INSIDE	1	TOTAL FLUX (lm)	3112
TEST VOLTAGE (V)	230	θ @50% (H,V)	74,72DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.01	0.01	0.00	0.34	0.00
90	0.00	0.01	0.01	0.02	0.04	0.14	0.52	1.03	1.35	1.37	1.06	0.57	0.16	0.04	0.02	0.01	0.01	0.00	6.37	0.00
80	0.00	0.01	0.02	0.19	1.63	4.39	6.71	8.46	9.38	9.40	8.50	6.78	4.48	1.96	0.30	0.02	0.01	0.00	62.2	54.4
70	0.00	0.01	0.13	2.19	5.89	9.56	12.9	15.5	16.9	16.9	15.6	13.0	9.65	6.06	2.57	0.22	0.01	0.00	127	124
60	0.00	0.01	0.88	4.74	9.29	14.1	18.5	21.6	23.2	23.2	21.6	18.5	14.2	9.36	4.86	1.18	0.02	0.00	185	183
50	0.00	0.03	2.04	6.63	12.1	17.8	22.5	25.9	27.9	27.9	25.9	22.5	17.8	12.1	6.67	2.29	0.06	0.00	230	229
40	0.00	0.10	2.98	8.08	14.3	20.3	25.7	31.3	35.6	35.6	31.4	25.7	20.2	14.3	8.10	3.09	0.20	0.00	277	276
30	0.00	0.20	3.53	9.06	15.7	22.0	29.5	38.9	45.5	44.9	38.1	29.4	22.0	15.6	9.08	3.63	0.33	0.00	327	326
20	0.00	0.26	3.80	9.56	16.3	23.1	32.1	43.6	52.1	51.8	43.0	32.2	23.2	16.5	9.66	3.92	0.41	0.00	361	361
10	0.00	0.25	3.77	9.48	16.2	22.8	31.7	42.6	51.2	52.0	43.5	32.4	23.4	16.6	9.68	3.91	0.40	0.00	360	359
0	0.00	0.19	3.45	8.84	15.3	21.6	29.0	37.6	44.0	44.4	38.2	29.5	22.2	15.8	9.11	3.58	0.29	0.00	323	322
-10	0.00	0.09	2.86	7.81	13.9	19.8	25.2	30.8	34.8	35.0	31.2	25.7	20.3	14.2	8.01	2.95	0.15	0.00	273	272
-20	0.00	0.03	1.96	6.33	11.7	17.2	21.9	25.3	27.5	27.7	25.8	22.3	17.5	11.9	6.48	2.06	0.04	0.00	226	224
-30	0.00	0.01	0.83	4.46	8.81	13.5	17.7	20.8	22.4	22.5	21.0	17.9	13.6	8.94	4.62	0.95	0.02	0.00	178	176
-40	0.00	0.01	0.10	1.96	5.44	8.92	12.1	14.5	15.8	15.9	14.6	12.2	9.00	5.57	2.10	0.13	0.01	0.00	118	115
-50	0.00	0.01	0.02	0.11	1.23	3.50	5.81	7.50	8.32	8.31	7.51	5.85	3.58	1.31	0.15	0.03	0.01	0.00	53.3	43.4
-60	0.00	0.01	0.02	0.02	0.03	0.07	0.18	0.47	0.70	0.71	0.49	0.21	0.08	0.04	0.03	0.02	0.01	0.00	3.11	0.00
-70	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.00	0.44	0.00
-80	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.00	0.44	0.00
-90	0.00	0.01	0.01	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.02	0.02	0.01	0.00	0.44	0.00
HORIZONTAL (DEG)																				
Φ t	0.05	1.26	26.4	79.5	148	219	292	366	417	418	368	295	221	150	81.5	28.0	1.98	0.06	3112	---
Φ a	0.00	0.00	21.5	76.3	145	216	289	363	414	415	365	292	219	147	78.2	23.0	0.00	0.00	---	3065

one-half-peak spread: U:36.5,D:37.0 , L:37.3,R:38.0

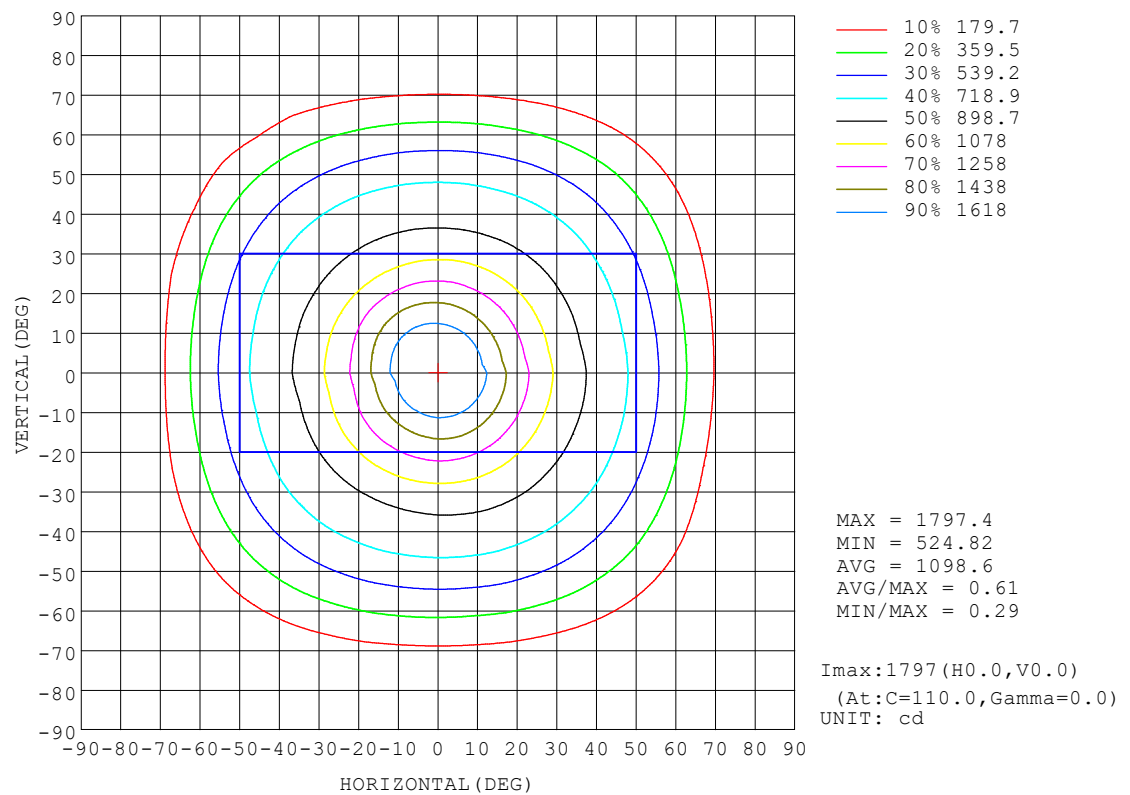
NEMA Beam Type: Type 7

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:23 January 2023

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.340m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

NAME: 96RAY30/WW	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: circle	Shielding Angle:

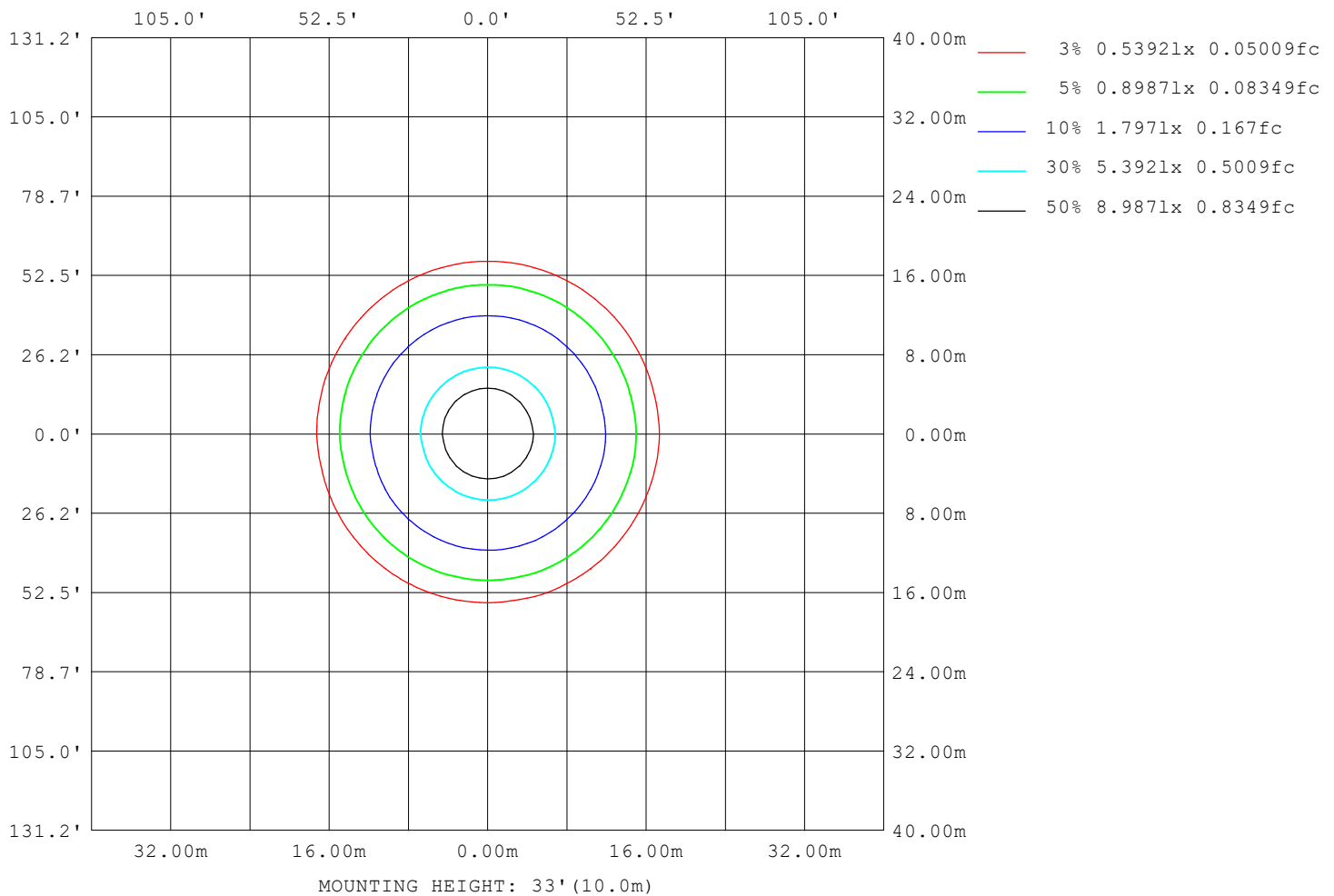


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3°C  
 Operators:  
 Test Date:23 January 2023

γ Range: 0 - 90DEG  
 γ Interval: 2.5DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity:65.0%  
 Test Distance:6.340m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

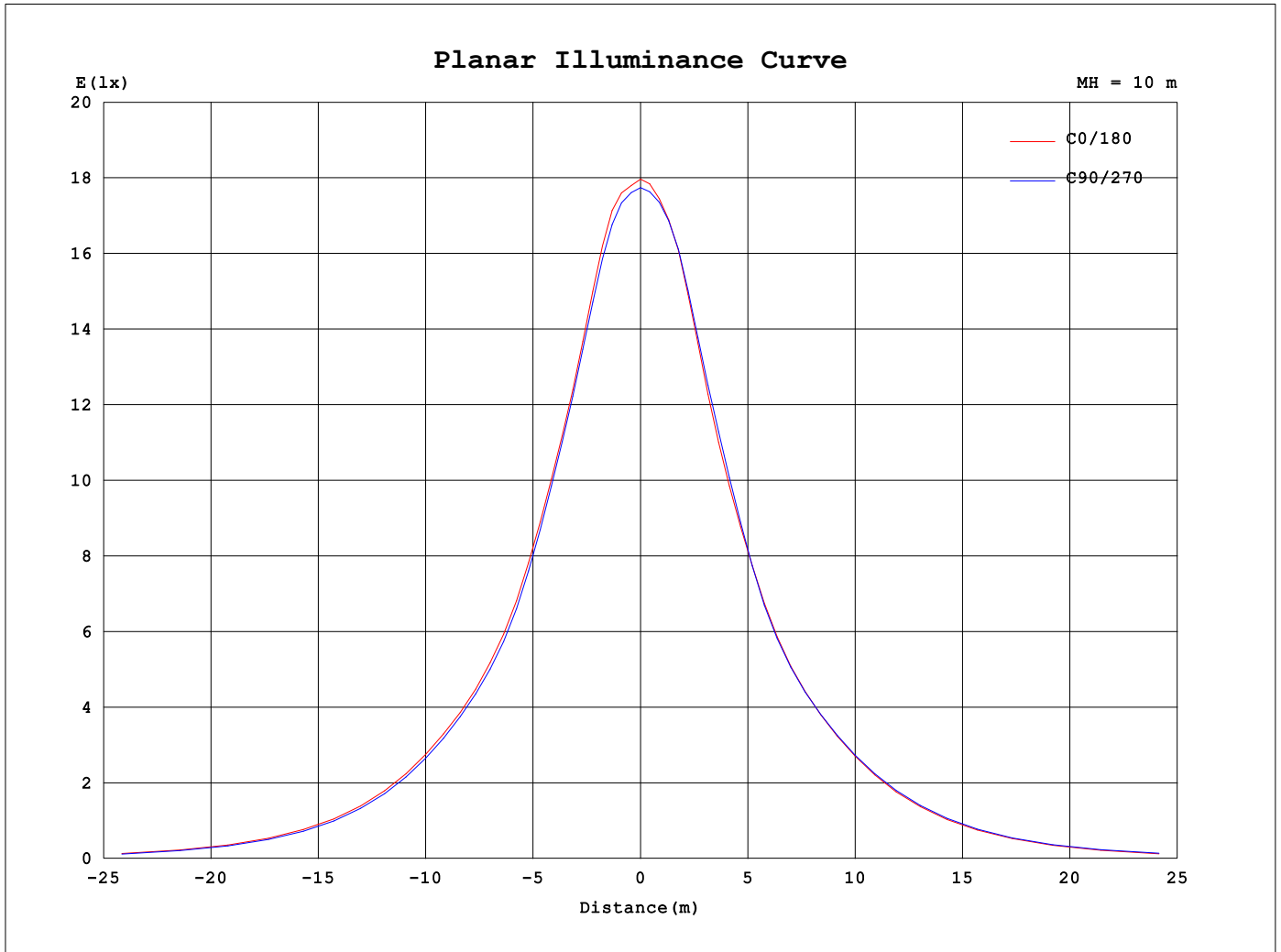
NAME: 96RAY30/WW	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: circle	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 23 January 2023

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.340m [K=1.0000]  
Remarks:

# Planar Illuminance Curve

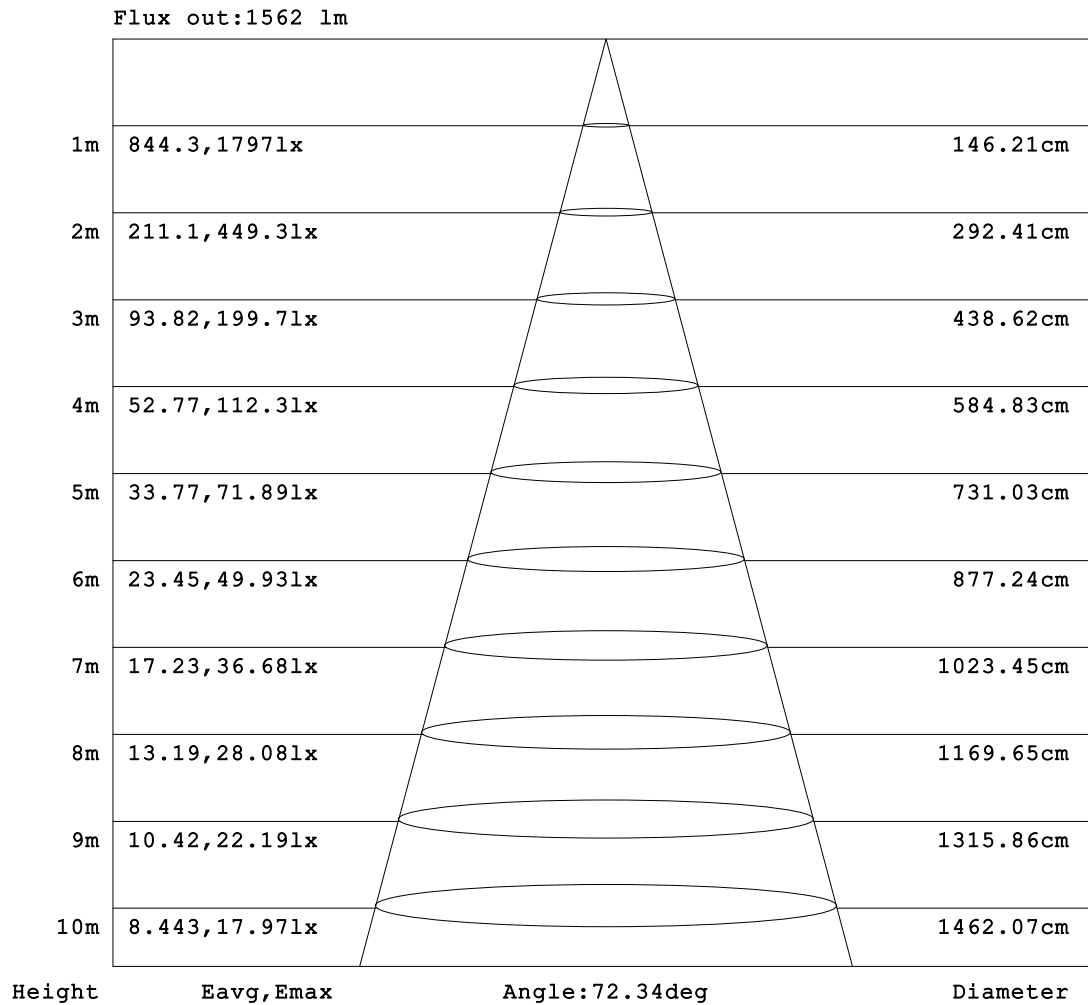


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 23 January 2023

γ Range: 0 - 90DEG  
 γ Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.340m [K=1.0000]  
 Remarks:

**AAI Figure**

NAME: 96RAY30/WW	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: circle	Shielding Angle:



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

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 23 January 2023

γ Range: 0 - 90DEG  
 γ Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.340m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96RAY30/WW	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: circle	Shielding Angle:

Table--1

UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.94	1.02	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11
-85	0.94	1.02	1.10	1.11	1.13	1.12	1.11	1.13	1.16	1.15	1.15	1.18	1.20	1.20	1.20	1.23	1.26	1.28	1.29
-80	0.94	1.02	1.11	1.13	1.15	1.16	1.15	1.20	1.25	1.27	1.29	1.36	1.43	1.47	1.50	1.57	1.65	1.71	1.77
-75	0.94	1.02	1.11	1.15	1.19	1.23	1.26	1.35	1.44	1.55	1.69	1.84	2.01	2.15	2.27	2.43	2.59	2.75	2.89
-70	0.94	1.02	1.12	1.18	1.26	1.35	1.44	1.65	1.87	2.14	3.75	11.3	17.4	49.1	86.8	115	135	147	150
-65	0.94	1.02	1.13	1.23	1.36	1.53	1.79	2.13	9.06	21.3	94.8	160	192	219	241	257	268	275	278
-60	0.94	1.02	1.14	1.28	1.48	1.83	2.27	19.5	89.0	171	218	261	297	329	356	377	392	401	404
-55	0.94	1.02	1.17	1.37	1.70	2.27	20.7	114	194	252	308	359	402	440	472	497	514	525	530
-50	0.94	1.03	1.19	1.45	1.94	11.2	91.3	195	265	333	396	454	504	546	582	610	629	641	646
-45	0.94	1.03	1.21	1.57	2.25	30.4	171	253	334	410	479	543	598	644	682	712	732	746	752
-40	0.94	1.03	1.24	1.71	4.91	100	219	309	398	480	556	624	682	728	764	792	813	827	835
-35	0.94	1.03	1.27	1.82	19.1	162	261	360	455	544	624	694	752	795	831	863	886	903	912
-30	0.94	1.03	1.30	1.96	32.4	194	300	406	506	600	683	752	806	854	895	937	977	1005	1018
-25	0.94	1.02	1.32	2.10	62.9	221	334	445	549	646	730	798	855	909	975	1046	1109	1151	1169
-20	0.94	1.02	1.33	2.21	93.7	245	362	478	586	683	767	835	898	977	1076	1172	1249	1303	1330
-15	0.94	1.02	1.34	2.30	116	264	386	504	614	713	794	864	942	1052	1172	1284	1381	1457	1495
-10	0.94	1.01	1.35	2.36	129	279	405	526	637	734	813	888	982	1111	1245	1381	1512	1613	1660
-5	0.94	1.00	1.34	2.40	135	289	418	541	655	754	832	908	1013	1146	1288	1451	1612	1711	1754
0	0.94	1.00	1.33	2.41	134	293	424	549	665	766	847	927	1041	1180	1328	1511	1685	1765	1797
5	0.94	1.00	1.33	2.40	136	291	421	545	661	761	842	920	1030	1164	1315	1493	1656	1739	1756
10	0.94	1.00	1.33	2.36	131	283	412	534	649	749	830	905	1002	1130	1273	1431	1573	1662	1687
15	0.94	1.00	1.31	2.29	119	271	396	516	629	731	812	882	959	1067	1197	1329	1441	1512	1528
20	0.94	1.00	1.29	2.19	97.6	253	374	492	603	703	785	851	914	992	1093	1198	1288	1346	1361
25	0.94	0.99	1.27	2.05	66.9	231	347	461	568	666	750	815	872	925	990	1063	1130	1179	1196
30	0.94	0.99	1.24	1.88	36.2	201	314	423	525	620	704	773	826	872	913	954	992	1022	1032
35	0.94	0.99	1.20	1.71	22.3	161	276	378	474	564	647	719	774	817	855	881	903	917	922
40	0.94	0.98	1.16	1.59	5.57	103	234	327	417	502	580	649	707	754	790	816	836	848	850
45	0.94	0.98	1.13	1.45	2.26	44.3	171	272	353	431	504	568	625	673	711	739	758	770	773
50	0.94	0.97	1.09	1.33	1.86	16.3	98.6	209	286	355	420	479	532	577	613	641	662	675	678
55	0.94	0.96	1.06	1.24	1.60	2.40	32.8	127	210	276	332	384	431	472	504	530	549	560	563
60	0.94	0.96	1.02	1.14	1.37	1.81	2.76	33.8	104	177	244	287	325	360	388	411	427	437	440
65	0.94	0.95	1.00	1.06	1.21	1.49	1.93	2.74	18.8	61.4	132	188	221	249	270	288	302	310	313
70	0.94	0.95	0.98	0.99	1.06	1.24	1.51	1.81	2.16	2.89	9.72	44.7	65.2	102	138	158	174	184	186
75	0.94	0.95	0.97	0.96	0.93	1.04	1.19	1.36	1.50	1.62	1.72	1.79	2.09	2.55	2.96	3.38	3.76	4.05	4.24
80	0.94	0.94	0.95	0.94	0.92	0.93	0.95	1.06	1.17	1.21	1.23	1.24	1.22	1.25	1.28	1.29	1.29	1.32	1.34
85	0.94	0.94	0.94	0.93	0.92	0.91	0.89	0.93	0.97	0.99	1.01	0.99	0.97	0.99	1.00	0.99	0.98	0.99	1.00
90	0.94	0.94	0.93	0.92	0.92	0.91	0.91	0.91	0.91	0.92	0.93	0.92	0.92	0.92	0.93	0.92	0.92	0.92	0.92

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:23 January 2023

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96RAY30/WW	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: circle	Shielding Angle:

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	1.11	1.10	1.10	1.10	1.10	1.10	1.10	1.09	1.09	1.09	1.10	1.10	1.10	1.11	1.11	1.11	1.12	1.12	
-85	1.32	1.34	1.32	1.29	1.29	1.29	1.26	1.24	1.23	1.22	1.19	1.16	1.16	1.16	1.14	1.12	1.12	1.12	
-80	1.83	1.88	1.82	1.74	1.70	1.65	1.59	1.52	1.48	1.44	1.37	1.30	1.26	1.23	1.17	1.14	1.13	1.12	
-75	3.03	3.12	2.94	2.75	2.60	2.42	2.25	2.10	1.93	1.78	1.64	1.50	1.40	1.31	1.23	1.15	1.13	1.12	
-70	147	135	116	87.7	51.2	20.4	14.0	4.79	2.78	2.40	2.08	1.78	1.60	1.43	1.29	1.19	1.14	1.12	
-65	275	267	257	242	221	193	163	99.1	27.0	12.0	3.19	2.25	1.85	1.58	1.37	1.22	1.14	1.12	
-60	400	391	378	358	331	299	264	224	176	95.7	26.5	3.67	2.24	1.76	1.46	1.26	1.15	1.12	
-55	526	516	501	477	444	406	362	311	258	202	122	28.9	3.44	2.04	1.58	1.31	1.17	1.12	
-50	643	633	615	587	552	509	459	401	338	272	204	102	16.4	2.43	1.70	1.36	1.18	1.12	
-45	749	738	719	688	650	604	549	485	415	341	263	182	43.9	3.50	1.85	1.41	1.20	1.12	
-40	834	824	806	777	739	689	631	564	487	405	318	229	109	7.92	2.02	1.46	1.21	1.12	
-35	910	900	880	850	812	765	703	634	553	464	369	272	162	29.0	2.18	1.52	1.22	1.12	
-30	1012	991	956	917	873	824	768	695	611	516	415	311	198	48.9	2.64	1.57	1.23	1.12	
-25	1157	1118	1059	994	931	874	816	747	661	562	457	345	233	78.5	3.23	1.62	1.24	1.12	
-20	1315	1263	1183	1088	995	920	856	788	702	602	492	375	256	108	3.74	1.65	1.25	1.12	
-15	1476	1405	1305	1188	1067	965	887	819	735	634	520	398	274	131	4.17	1.68	1.25	1.12	
-10	1630	1538	1409	1272	1131	1006	915	841	759	656	540	416	288	150	4.50	1.70	1.25	1.12	
-5	1739	1644	1485	1328	1178	1037	934	855	774	670	553	427	297	163	4.73	1.71	1.26	1.12	
0	1781	1697	1518	1349	1197	1050	943	860	780	676	558	431	300	170	4.84	1.71	1.26	1.12	
5	1732	1628	1463	1307	1163	1027	926	847	768	667	551	427	297	168	4.82	1.69	1.25	1.12	
10	1643	1534	1392	1260	1125	999	904	830	749	650	538	416	289	160	4.68	1.65	1.23	1.12	
15	1489	1404	1300	1188	1065	960	879	812	728	629	517	399	276	147	4.38	1.61	1.22	1.12	
20	1334	1273	1192	1093	996	915	849	784	700	603	493	377	258	129	3.94	1.56	1.21	1.12	
25	1179	1132	1067	995	929	870	815	746	665	568	462	350	236	107	3.33	1.50	1.19	1.12	
30	1025	999	960	916	871	827	770	701	619	525	424	318	210	79.0	2.56	1.44	1.17	1.12	
35	918	903	880	852	818	772	716	646	564	475	380	281	179	46.9	1.92	1.37	1.15	1.12	
40	846	834	816	788	751	706	650	581	503	419	331	240	134	11.5	1.74	1.30	1.14	1.12	
45	769	757	737	710	675	627	571	507	435	358	277	193	79.5	4.08	1.56	1.24	1.12	1.12	
50	675	663	643	616	579	535	483	425	361	291	219	130	29.1	2.20	1.41	1.18	1.10	1.12	
55	561	550	532	507	474	434	388	337	282	221	150	59.9	4.35	1.67	1.29	1.12	1.08	1.12	
60	438	429	412	390	362	328	289	246	200	134	62.4	5.04	1.81	1.41	1.17	1.06	1.06	1.12	
65	311	303	290	272	250	223	191	143	83.8	30.5	4.23	1.78	1.45	1.23	1.08	1.02	1.05	1.12	
70	184	174	159	140	110	76.7	48.7	11.9	3.92	2.04	1.58	1.36	1.21	1.07	0.99	0.98	1.04	1.12	
75	4.30	4.22	4.00	3.61	2.99	2.24	1.64	1.52	1.38	1.26	1.19	1.09	1.01	0.92	0.95	0.94	1.03	1.12	
80	1.32	1.29	1.27	1.25	1.20	1.15	1.12	1.09	1.05	1.01	0.96	0.89	0.89	0.90	0.91	0.93	1.03	1.12	
85	0.99	0.97	0.98	0.98	0.96	0.94	0.94	0.94	0.92	0.90	0.88	0.86	0.87	0.89	0.90	0.92	1.02	1.12	
90	0.92	0.91	0.91	0.90	0.90	0.89	0.89	0.89	0.89	0.89	0.88	0.88	0.88	0.88	0.90	0.91	1.02	1.12	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:23 January 2023

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks: