

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	453.6 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-1.0 degrees horizontal

Beam Spread	At 10% of Imax	140.7V x 139.4H
	At 50% of Imax	85.5V x 91.0H
	At 90% of Imax	49.0V x 52.9H

Beam Flux	Total	941.3 lumens per klm.
	To 10% of Imax	898.1 lumens per klm.
	To 50% of Imax	630.4 lumens per klm.
	To 90% of Imax	262.2 lumens per klm.

Upward LOR	0.0 %
Downward LOR	94.1 %

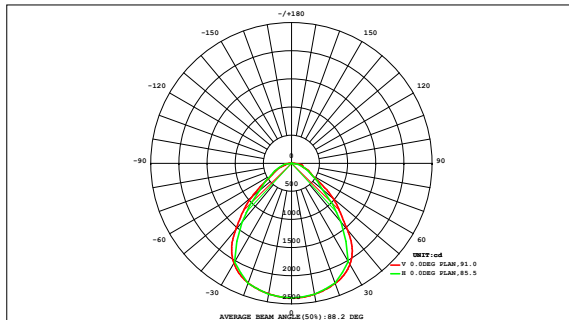
Luminaire Efficiency (Light Output Ratio)	94.3 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 September 2022

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 92Panel028CW	TYPE: 92Panel028CW	WEIGHT: 1
SPEC.:	DIM.: 596 x 596	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	92Panel028CW	Imax (cd)	2395
NOMINAL POWER (W)	48	AVAILABILITY (%)	89.9
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	4748
NOMINAL FLUX (lm)	5280	LOR (%)	94.3
LAMPS INSIDE	1	TOTAL FLUX (lm)	4978
TEST VOLTAGE (V)	230	θ @50% (H,V)	91,85DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	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	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00
80	0.07	0.55	1.21	2.13	3.59	5.03	5.62	6.10	6.02	6.08	5.82	5.05	4.25	3.03	1.87	0.98	0.40	0.05	57.8	4.20
70	0.11	0.83	1.73	3.01	5.08	6.54	7.70	9.29	9.81	9.93	9.46	7.15	5.80	4.55	2.73	1.50	0.63	0.08	85.9	60.9
60	0.17	1.05	2.37	4.59	7.52	10.1	12.7	16.6	17.4	17.2	16.3	12.2	9.50	7.02	4.24	2.16	0.85	0.12	142	132
50	0.20	1.26	3.03	6.23	10.6	15.6	22.1	29.3	30.8	30.9	28.8	21.7	14.9	9.96	5.70	2.83	1.10	0.15	235	229
40	0.23	1.49	3.73	7.58	13.6	22.7	36.4	46.4	50.8	51.1	47.2	37.1	22.6	13.0	7.01	3.41	1.31	0.18	366	362
30	0.26	1.60	4.05	9.13	17.2	30.6	49.5	61.5	66.3	66.2	61.5	50.0	31.6	17.2	8.95	3.80	1.33	0.21	481	477
20	0.28	1.57	4.25	10.4	21.4	40.2	57.5	66.3	70.4	70.4	66.1	57.3	41.3	22.1	10.3	4.04	1.27	0.23	545	542
10	0.28	1.54	4.37	11.1	25.1	45.2	59.9	67.9	72.0	72.0	67.9	59.9	46.1	26.4	11.1	4.15	1.26	0.24	576	573
0	0.28	1.56	4.33	11.2	25.4	45.1	59.7	67.9	72.0	71.9	67.9	59.8	46.1	26.8	11.2	4.13	1.26	0.23	577	573
-10	0.24	1.56	4.22	10.4	21.8	40.1	56.7	65.8	70.0	70.0	65.8	57.1	41.7	22.6	10.3	4.07	1.28	0.21	544	540
-20	0.21	1.55	3.99	9.05	17.1	31.3	49.2	60.4	65.0	65.1	60.7	50.4	32.8	17.2	8.94	3.82	1.31	0.18	478	475
-30	0.17	1.44	3.60	7.41	13.1	21.9	36.3	47.8	52.3	52.6	48.6	38.1	22.6	13.0	7.24	3.42	1.27	0.14	371	367
-40	0.14	1.21	3.00	5.99	10.3	15.4	22.0	28.8	31.4	31.6	29.7	23.0	15.0	9.83	5.64	2.83	1.08	0.11	237	231
-50	0.11	0.96	2.29	4.59	7.57	9.73	11.8	16.0	16.5	16.1	15.8	11.7	9.25	7.12	4.30	2.12	0.81	0.09	137	127
-60	0.08	0.73	1.70	3.03	4.76	6.19	7.31	8.82	9.57	9.49	9.04	6.96	5.72	4.48	2.75	1.42	0.55	0.06	82.7	54.9
-70	0.05	0.46	1.04	1.77	2.96	4.07	4.64	5.01	5.06	5.32	4.96	4.19	3.40	2.57	1.55	0.82	0.33	0.04	48.2	0.00
-80	0.01	0.12	0.28	0.53	0.94	1.34	1.57	1.54	1.38	1.33	1.31	1.30	1.15	0.68	0.41	0.20	0.07	0.01	14.2	0.00
-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	0.00	0.00	0.00	0.00	0.00	0.00
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL (DEG) 20 30 40 50 60 70 80 90																				
Φ t	2.87	19.5	49.2	108	208	351	501	606	647	647	607	503	354	207	104	45.7	16.1	2.32	4978	---
Φ a	0.00	1.21	33.9	95.1	195	337	487	593	634	635	595	488	339	195	91.3	29.2	0.05	0.00	---	4748

one-half-peak spread: U:42.9,D:43.0 , L:44.7,R:46.8

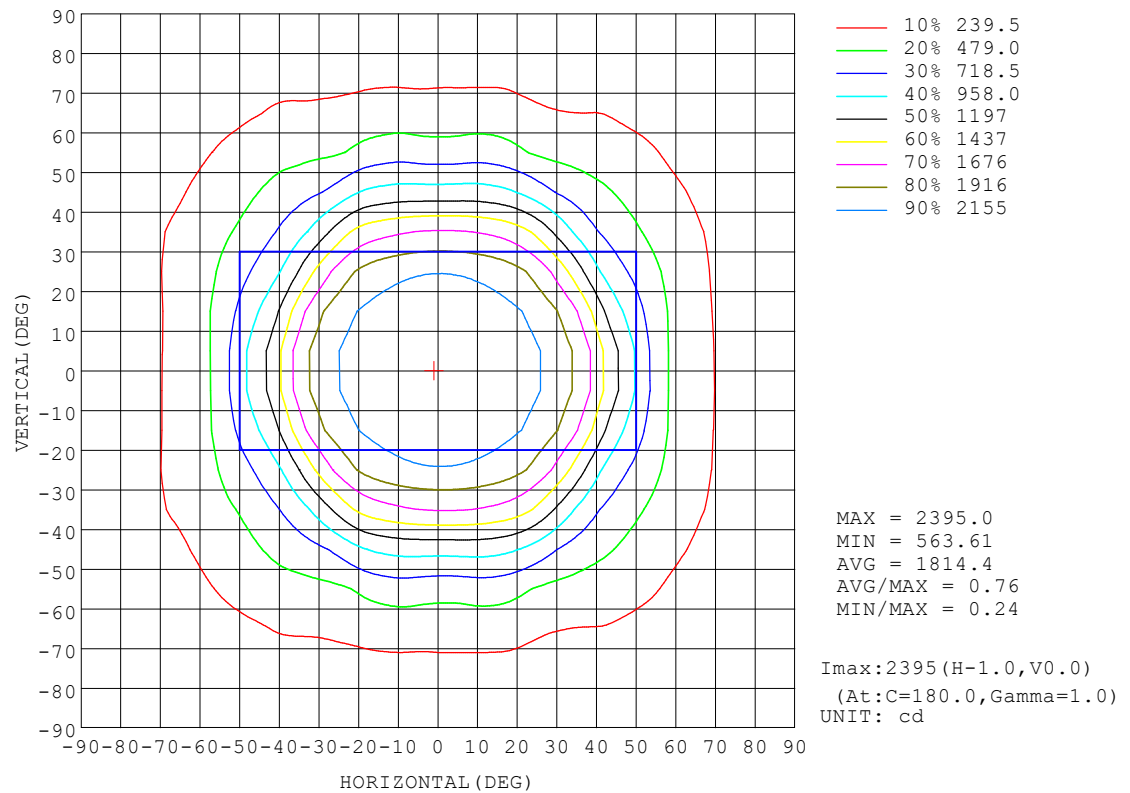
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 September 2022

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 92Panel1028CW	TYPE: 92Panel1028CW	WEIGHT: 1
SPEC.:	DIM.: 596 x 596	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:

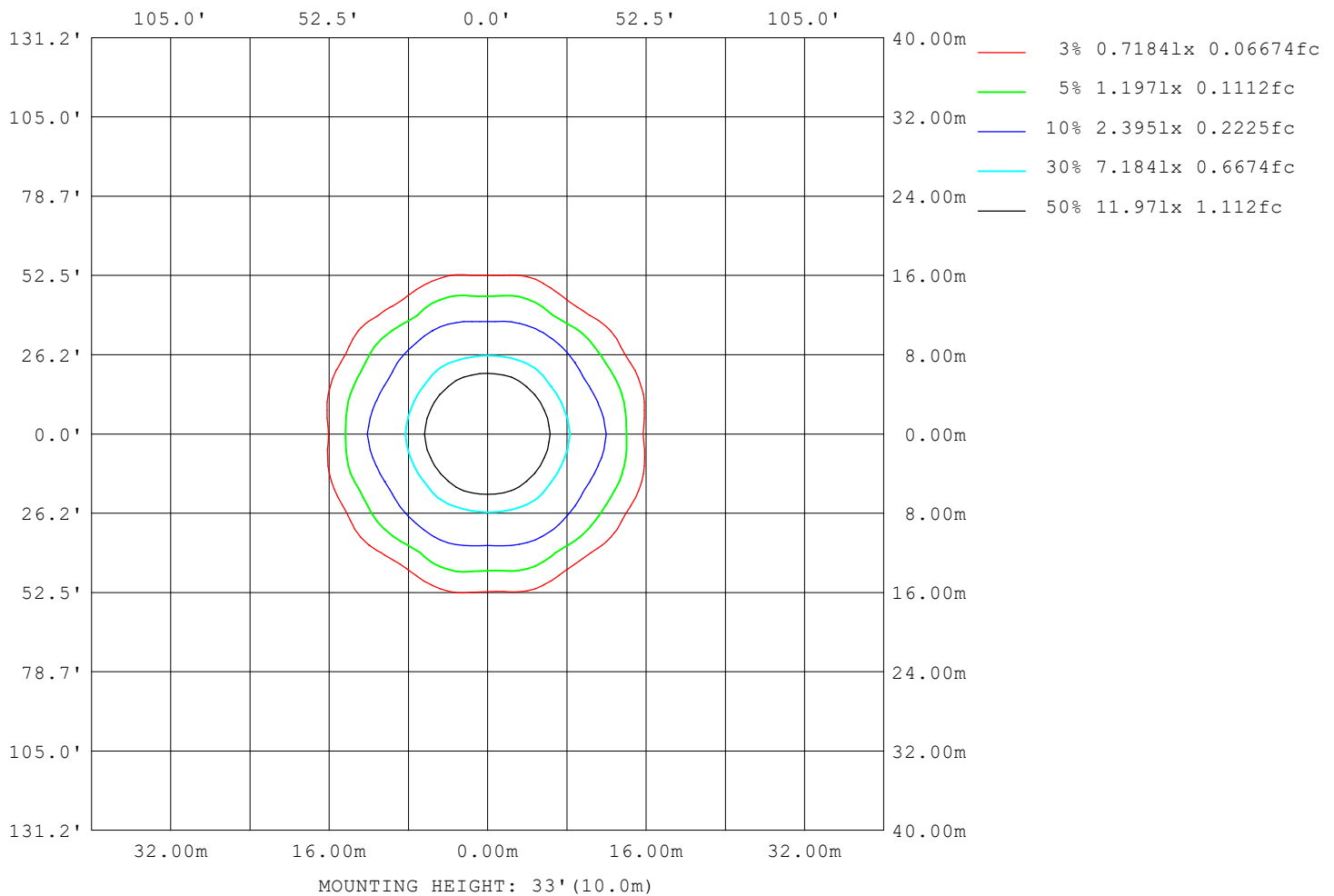


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 September 2022

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

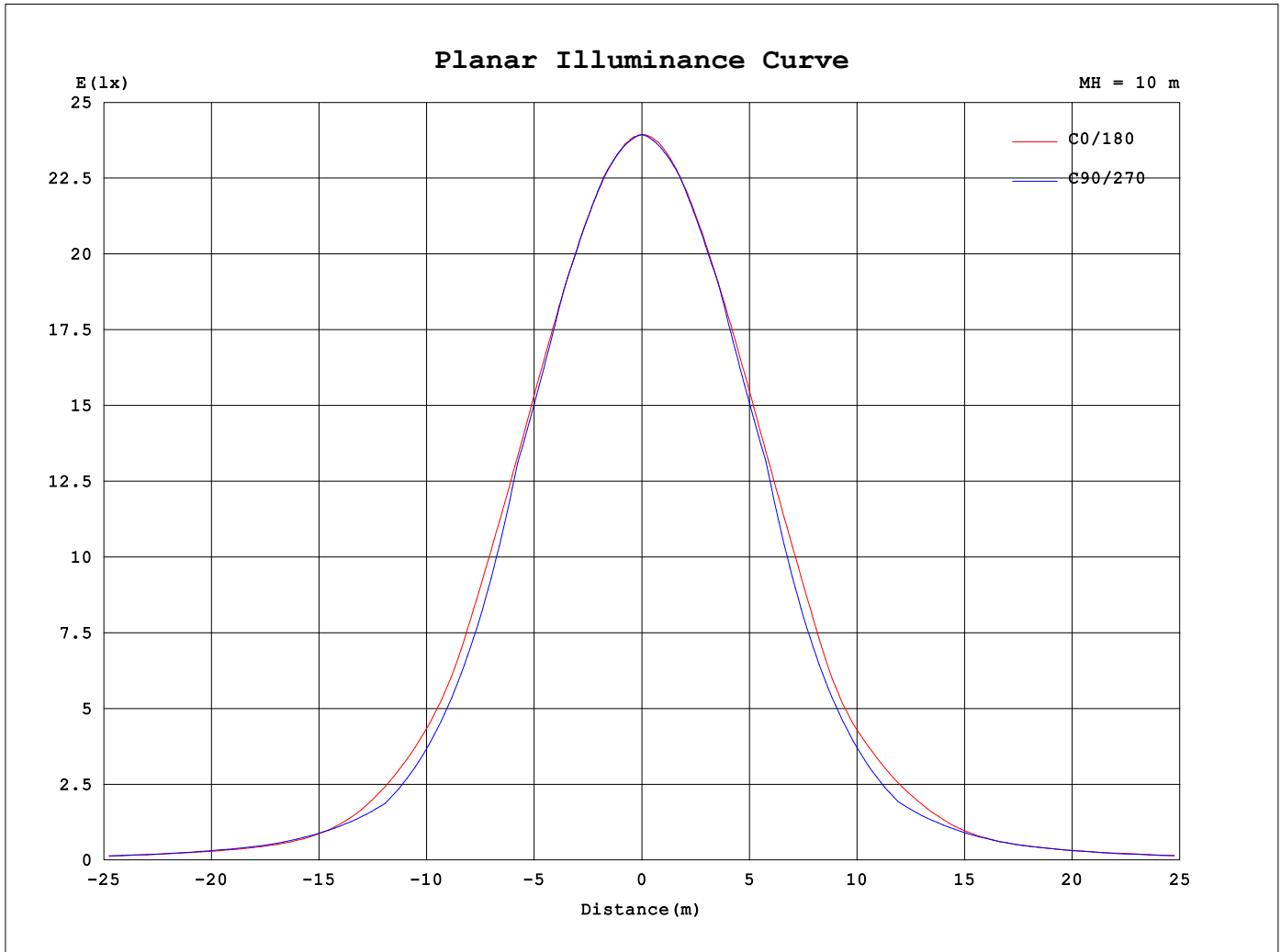
NAME: 92Panel028CW	TYPE: 92Panel028CW	WEIGHT: 1
SPEC.:	DIM.: 596 x 596	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 September 2022

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve

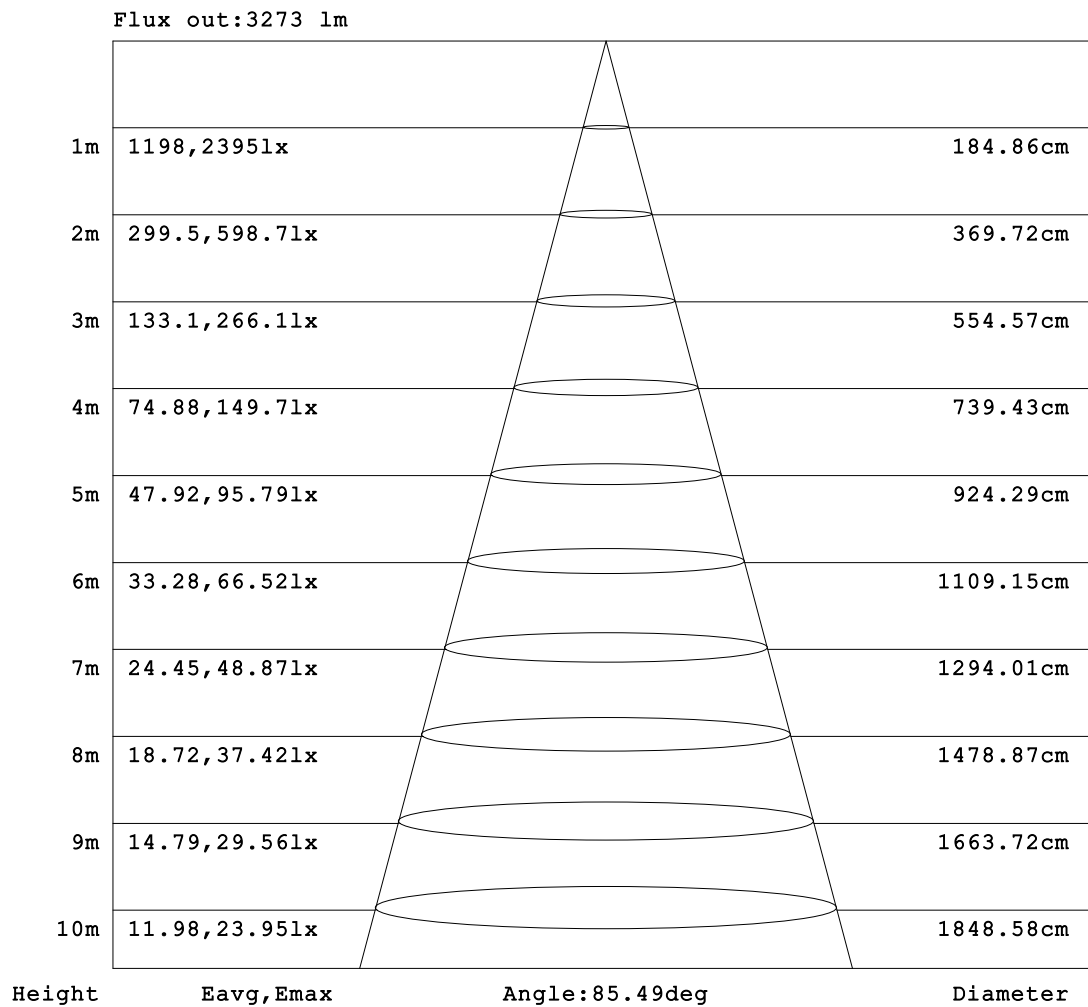


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:05 September 2022

V(B) Range:-80 - 80DEG
V(B) Interval: 5.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

AAI Figure

NAME: 92Panel028CW	TYPE: 92Panel028CW	WEIGHT: 1
SPEC.:	DIM.: 596 x 596	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:



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: 0.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 05 September 2022

V(B) Range:-80 - 80DEG
 V(B) Interval: 5.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 92Panel028CW	TYPE: 92Panel028CW	WEIGHT: 1
SPEC.:	DIM.: 596 x 596	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:

Table--1

UNIT: cd

H(°) \ V(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-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	0.00	0.00	0.00	0.00	0.00
-85	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	0.00	0.00	0.00	0.00
-80	2.50	8.48	20.8	37.6	52.4	56.5	56.6	74.0	92.4	105	111	127	140	135	123	132	129	117	120
-75	1.73	9.93	28.1	52.3	73.6	81.1	83.4	101	119	137	157	167	169	174	176	180	179	175	181
-70	2.73	16.7	45.3	76.3	101	106	115	136	151	178	209	208	199	214	231	229	227	233	245
-65	1.46	16.0	48.7	85.0	117	128	144	172	194	222	251	257	260	274	294	317	332	330	329
-60	2.91	24.4	68.2	108	142	153	184	216	247	280	299	307	325	340	367	410	440	425	414
-55	1.18	21.0	66.9	111	157	171	204	253	301	344	378	395	415	443	506	570	600	584	564
-50	3.01	30.8	85.0	134	182	196	245	310	375	424	466	491	511	564	675	746	761	733	711
-45	0.94	25.1	84.0	138	197	218	268	336	399	469	546	608	679	783	918	997	1032	1043	1041
-40	3.45	38.8	106	168	222	256	317	390	448	545	654	750	880	1054	1204	1264	1313	1352	1372
-35	0.85	29.4	104	166	228	265	326	414	494	597	717	860	1054	1279	1477	1579	1636	1675	1693
-30	3.28	46.3	130	194	249	294	368	471	574	695	829	1041	1314	1595	1805	1917	1978	2008	2017
-25	0.93	34.4	128	186	237	294	369	489	628	768	935	1197	1495	1748	1930	2036	2096	2129	2141
-20	2.90	56.0	154	202	251	317	415	562	733	900	1129	1475	1785	1987	2110	2185	2232	2258	2264
-15	1.04	40.1	148	191	234	313	398	553	762	963	1204	1561	1853	2039	2155	2227	2273	2302	2314
-10	3.02	70.2	166	196	248	338	431	625	871	1107	1412	1783	2010	2148	2235	2294	2330	2354	2361
-5	1.08	52.7	157	190	232	327	406	583	863	1117	1403	1775	2008	2151	2240	2299	2340	2368	2379
0	3.17	90.9	170	190	253	346	426	650	963	1217	1549	1883	2075	2195	2272	2323	2362	2387	2395
5	1.13	64.8	157	190	230	329	409	585	863	1117	1405	1779	2011	2153	2242	2300	2341	2368	2379
10	3.23	88.4	167	192	245	344	437	626	870	1110	1420	1791	2017	2153	2238	2294	2333	2357	2362
15	0.79	66.1	152	193	230	316	408	560	762	968	1210	1571	1863	2047	2163	2233	2278	2306	2316
20	4.23	85.1	159	203	246	323	429	571	737	909	1135	1491	1799	1999	2118	2193	2238	2263	2268
25	0.46	61.4	140	191	236	299	383	502	641	785	947	1212	1511	1767	1945	2047	2104	2137	2146
30	4.78	76.6	144	200	250	302	382	488	601	719	845	1057	1335	1621	1822	1928	1986	2016	2025
35	0.70	54.1	125	174	230	274	341	427	511	620	742	887	1079	1311	1503	1593	1646	1684	1699
40	4.97	67.5	126	174	226	268	332	400	458	568	689	786	914	1095	1237	1280	1324	1360	1374
45	1.12	44.7	110	148	200	226	281	348	408	483	569	632	705	814	953	1020	1049	1053	1051
50	4.82	53.6	110	142	184	202	254	321	384	431	478	506	531	592	710	773	780	745	730
55	1.58	34.1	94.6	123	162	176	211	259	309	352	389	410	435	462	531	588	613	590	576
60	4.56	38.6	93.9	119	149	158	187	219	255	288	310	325	345	355	380	418	445	424	422
65	2.10	24.2	69.2	99.1	123	132	147	173	199	234	264	267	271	283	306	325	339	331	333
70	4.18	24.2	61.0	88.1	104	109	118	137	158	194	223	209	202	219	242	237	233	237	245
75	2.67	15.1	37.5	62.6	79.0	85.4	87.7	106	127	148	168	176	178	179	181	188	185	179	185
80	3.78	13.2	26.1	44.1	58.3	60.9	62.7	82.7	104	110	119	143	153	140	124	140	133	123	127
85	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	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00

H(β) Range:-90 - 90DEG

H(β) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:05 September 2022

V(B) Range:-80 - 80DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 92Panel028CW	TYPE: 92Panel028CW	WEIGHT: 1
SPEC.:	DIM.: 596 x 596	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	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	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	0.00	0.00	0.00	
-85	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	0.00	0.00	0.00	
-80	119	118	121	113	116	121	109	94.6	82.5	76.2	63.0	44.6	42.7	39.2	24.5	14.1	6.34	1.71	
-75	182	179	178	173	159	150	142	140	123	109	94.5	73.6	64.1	60.6	42.2	23.0	11.5	2.35	
-70	244	238	236	226	197	177	173	182	156	137	118	96.8	83.9	78.2	49.5	27.1	12.1	1.46	
-65	328	334	330	305	268	246	236	233	216	189	163	132	111	98.3	72.6	37.7	18.6	2.62	
-60	413	431	418	369	326	311	296	283	263	232	195	158	132	115	76.5	40.7	17.6	1.23	
-55	566	588	581	531	461	414	388	364	337	294	249	200	165	139	107	54.5	25.9	2.90	
-50	727	750	729	665	572	505	469	438	395	340	283	226	185	157	112	56.3	23.0	0.97	
-45	1045	1049	1026	966	856	723	616	538	470	397	331	269	219	182	140	75.2	32.3	3.10	
-40	1367	1343	1306	1232	1085	892	728	613	516	428	352	290	235	195	139	76.2	27.7	0.82	
-35	1690	1667	1623	1543	1391	1162	931	743	618	515	419	332	264	214	159	97.9	37.5	3.24	
-30	2008	1975	1915	1809	1615	1336	1050	815	676	565	449	344	271	215	152	99.6	29.5	0.65	
-25	2134	2107	2058	1974	1830	1610	1326	1023	810	660	518	387	297	227	162	115	45.4	3.34	
-20	2252	2223	2172	2092	1970	1779	1481	1126	879	698	531	386	294	213	147	115	33.0	0.75	
-15	2306	2280	2239	2173	2074	1924	1689	1352	1045	812	593	418	318	231	154	124	60.0	3.35	
-10	2352	2323	2283	2221	2128	1989	1777	1435	1114	834	577	398	309	215	140	124	44.8	0.87	
-5	2370	2346	2309	2254	2174	2050	1868	1568	1229	939	632	418	327	234	148	128	72.2	3.39	
0	2380	2355	2316	2260	2177	2051	1862	1552	1229	919	581	389	313	214	137	127	55.3	0.98	
5	2370	2347	2310	2256	2174	2051	1868	1565	1225	934	626	419	327	232	147	130	74.8	3.49	
10	2353	2327	2284	2223	2129	1991	1778	1429	1106	822	567	400	308	209	140	127	56.6	0.94	
15	2309	2283	2241	2176	2075	1923	1684	1338	1033	803	586	418	316	224	152	129	71.7	3.69	
20	2257	2227	2177	2095	1970	1779	1467	1107	866	692	529	387	288	204	147	120	51.7	0.84	
25	2138	2111	2060	1973	1827	1594	1305	1005	801	656	514	385	294	220	163	123	64.9	3.88	
30	2013	1979	1915	1803	1604	1303	1017	805	675	564	443	340	268	212	160	110	45.9	0.87	
35	1693	1667	1622	1536	1377	1141	913	734	614	508	409	327	262	213	164	109	56.0	3.86	
40	1366	1340	1303	1217	1062	883	727	609	508	412	337	287	234	198	145	90.4	37.5	1.17	
45	1058	1056	1023	952	831	707	613	535	466	391	323	267	218	184	140	88.2	45.5	3.67	
50	751	764	724	644	546	490	465	436	393	342	284	227	186	157	111	71.4	29.2	1.45	
55	583	603	580	519	449	408	387	365	334	294	247	201	168	142	107	67.9	33.8	3.38	
60	423	439	418	365	330	317	301	286	260	229	190	160	137	119	83.2	55.0	21.0	1.84	
65	333	341	335	303	267	246	240	240	217	187	160	135	117	102	78.6	49.5	22.5	3.06	
70	245	242	244	225	192	171	178	191	160	135	119	102	88.3	81.6	59.6	35.3	13.6	2.11	
75	185	182	185	173	160	154	148	146	127	113	97.2	78.3	68.9	63.3	47.3	28.6	12.8	2.81	
80	123	122	127	114	125	136	117	95.3	87.7	85.1	67.6	49.1	47.4	41.5	26.8	15.1	6.57	2.35	
85	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	0.00	0.00	0.00	
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	0.00	0.00	0.00	0.00	

H(β) Range:-90 - 90DEG

H(β) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:05 September 2022

V(B) Range:-80 - 80DEG

V(B) Interval: 5.0DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks: