

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	303.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-4.0 degrees horizontal

Beam Spread	At 10% of Imax	147.1V x 149.7H
	At 50% of Imax	107.3V x 112.0H
	At 90% of Imax	53.9V x 55.4H

Beam Flux	Total	813.5 lumens per klm.
	To 10% of Imax	799.7 lumens per klm.
	To 50% of Imax	637.6 lumens per klm.
	To 90% of Imax	198.4 lumens per klm.

Upward LOR	0.0 %
Downward LOR	81.4 %

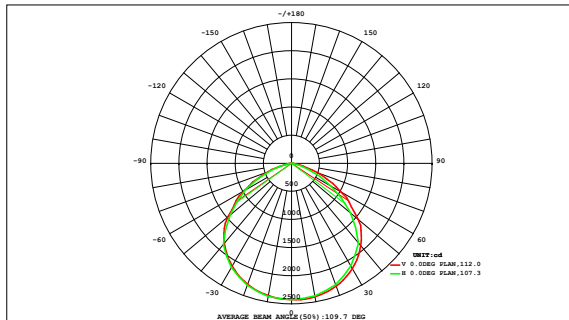
Luminaire Efficiency (Light Output Ratio)	81.5 %
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H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 July 2022

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: 98Helios100	TYPE: 98Helios100	WEIGHT: 1.5
SPEC.:	DIM.: 0.255 x 0.190 x 0.125	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98Helios100	Imax (cd)	2427
NOMINAL POWER (W)	100	AVAILABILITY (%)	80.3
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	6423
NOMINAL FLUX (lm)	8000	LOR (%)	81.5
LAMPS INSIDE	1	TOTAL FLUX (lm)	6518
TEST VOLTAGE (V)	230	θ @50% (H,V)	112,107DEG

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	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.05	0.00										
90	0.01	0.08	0.36	1.05	2.14	3.45	4.71	5.66	6.07	6.01	5.49	4.49	3.18	1.93	0.93	0.30	0.07	0.01	46.0	23.7										
80	0.01	0.18	1.16	3.53	7.21	11.5	15.7	18.5	19.8	19.6	18.1	15.1	10.9	6.64	3.23	1.03	0.16	0.01	152	143										
70	0.02	0.44	2.78	7.69	14.7	22.6	29.4	33.8	36.1	35.9	33.4	28.8	21.9	14.0	7.29	2.54	0.38	0.02	292	288										
60	0.02	0.87	4.87	12.4	22.4	33.2	41.4	47.1	50.1	49.8	46.6	40.5	32.2	21.6	11.9	4.48	0.75	0.02	420	418										
50	0.03	1.34	6.90	16.9	29.4	41.7	51.5	58.3	61.8	61.5	57.6	50.4	40.6	28.3	16.1	6.52	1.20	0.03	530	528										
40	0.04	1.75	8.30	19.5	33.6	46.3	56.7	64.0	67.6	67.3	63.1	55.6	45.0	32.4	18.7	7.95	1.56	0.04	590	588										
30	0.05	2.00	9.29	21.4	36.5	49.4	60.3	67.8	71.6	71.2	67.0	59.0	48.1	35.1	20.5	8.86	1.83	0.04	630	629										
-30	0.05	2.13	9.66	22.4	37.7	50.9	62.0	69.6	73.4	73.1	68.8	60.7	49.6	36.4	21.4	9.24	2.02	0.05	649	648										
	0.05	2.14	9.67	22.4	37.6	50.8	61.8	69.5	73.2	72.8	68.7	60.7	49.5	36.4	21.3	9.18	2.00	0.05	648	647										
	0.04	1.93	9.09	21.1	36.1	49.1	59.9	67.4	71.2	70.9	66.7	58.7	47.9	34.9	20.3	8.73	1.83	0.04	626	625										
	0.03	1.64	8.16	19.1	33.0	45.7	56.1	63.3	66.9	66.6	62.6	55.0	44.5	31.9	18.4	7.73	1.49	0.04	582	581										
	0.02	1.27	6.50	16.2	28.3	40.5	50.1	56.7	60.1	59.9	56.1	49.1	39.5	27.4	15.5	6.20	1.16	0.03	515	513										
-40	0.02	0.78	4.46	12.1	21.8	32.5	40.8	46.6	49.4	49.2	46.0	39.9	31.6	21.0	11.4	4.27	0.70	0.02	413	410										
-50	0.02	0.34	2.41	6.95	13.3	20.7	27.1	31.2	33.2	33.0	30.7	26.3	19.9	12.7	6.56	2.23	0.32	0.01	267	262										
-60	0.01	0.12	0.94	2.87	5.85	9.54	13.3	15.7	16.8	16.6	15.2	12.7	8.80	5.29	2.52	0.74	0.10	0.01	127	116										
-70	0.01	0.04	0.14	0.52	1.21	2.13	3.25	4.20	4.56	4.50	4.05	3.00	2.01	1.09	0.47	0.14	0.04	0.01	31.4	4.57										
-80	0.00	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.06	0.06	0.06	0.05	0.04	0.03	0.02	0.01	0.00	0.00	0.54	0.00										
-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)															20	30	40	50	60	70	80	90
Φ t	0.44	17.1	84.7	206	361	510	634	719	762	758	710	620	495	347	197	80.1	15.6	0.43	6518	---										
Φ a	0.00	9.27	78.2	200	355	505	629	714	757	753	705	615	490	340	191	73.7	7.88	0.00	---	6423										

one-half-peak spread: U:53.1,D:54.7 , L:53.1,R:59.6

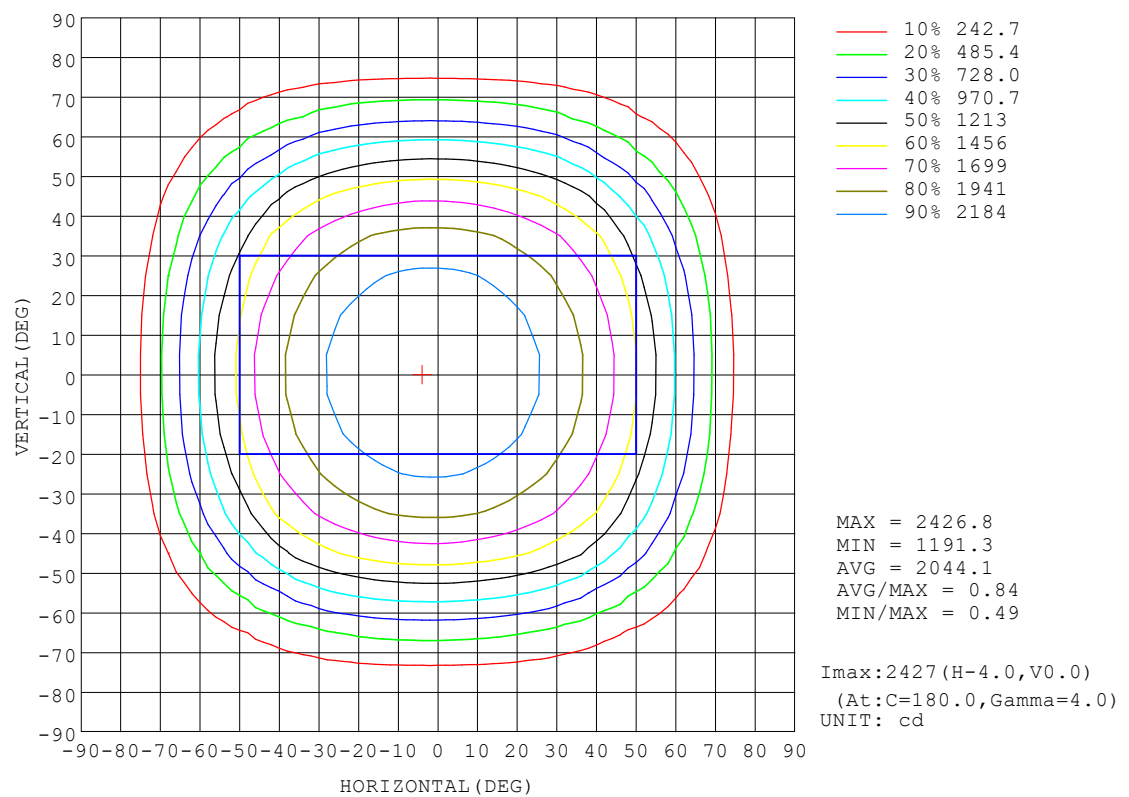
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 July 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: 98Helios100	TYPE: 98Helios100	WEIGHT: 1.5
SPEC.:	DIM.: 0.255 x 0.190 x 0.125	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

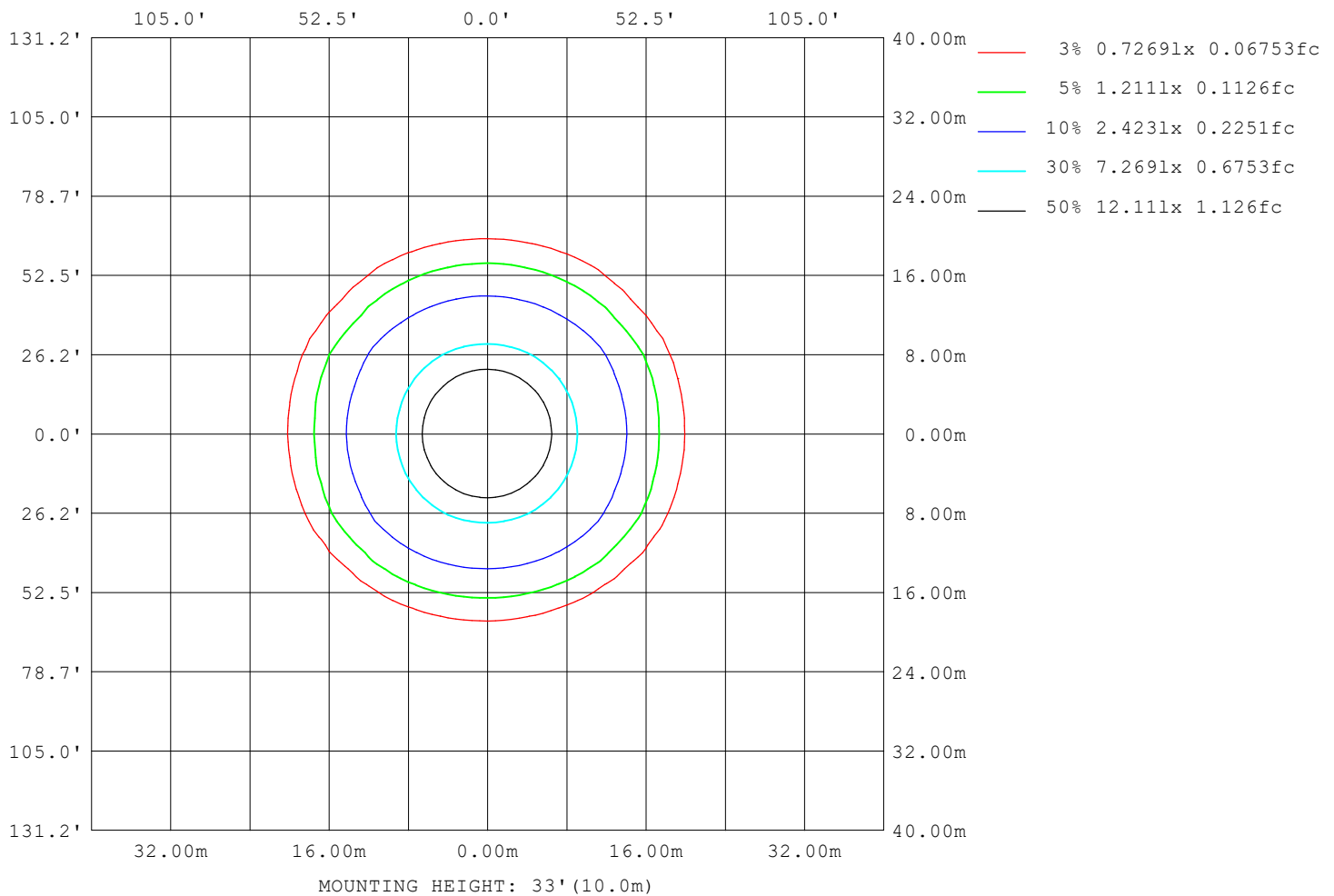


H(β) Range: -90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 01 July 2022

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

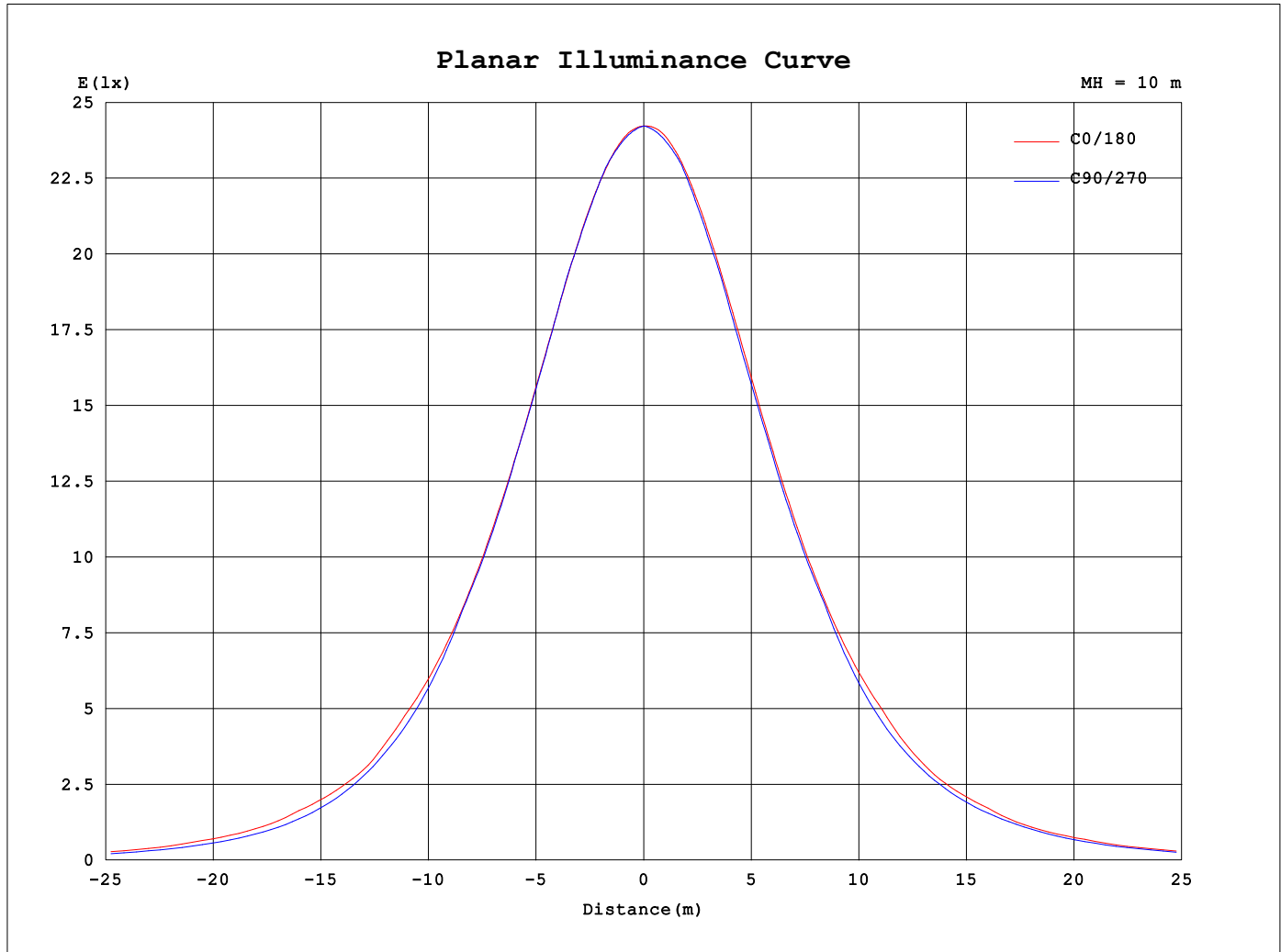
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SPEC.:	DIM.: 0.255 x 0.190 x 0.125	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 July 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

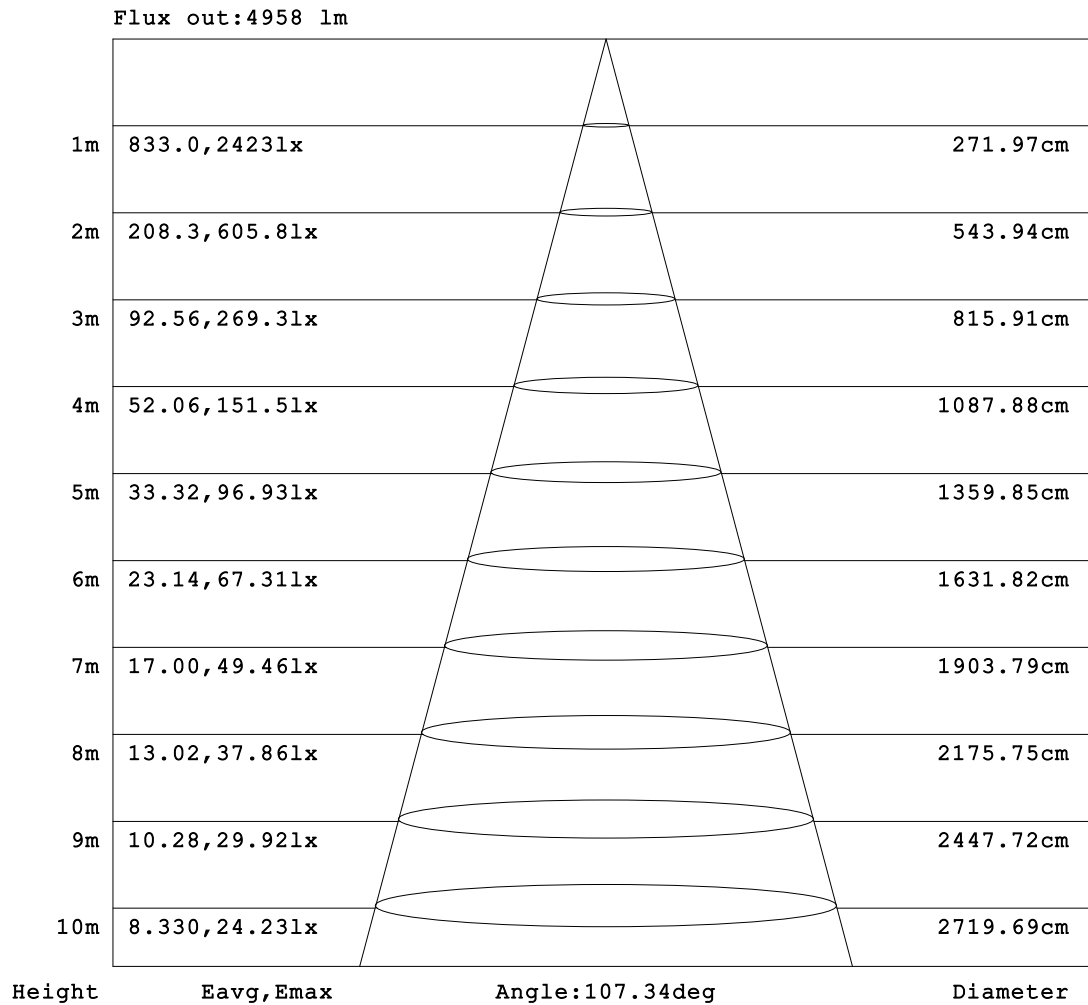


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 July 2022

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: 98Helios100	TYPE: 98Helios100	WEIGHT: 1.5
SPEC.:	DIM.: 0.255 x 0.190 x 0.125	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	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: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:01 July 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: 98Helios100	TYPE: 98Helios100	WEIGHT: 1.5
SPEC.:	DIM.: 0.255 x 0.190 x 0.125	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

Table--1

UNIT: cd

H (DEG) V (DEG)	-90	-86	-80	-76	-70	-66	-60	-56	-50	-46	-40	-36	-30	-26	-20	-16	-10	-6	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	1.89	1.92	1.91	2.35	3.86	5.37	8.30	10.7	14.8	17.7	21.5	23.9	27.4	29.4	31.9	33.3	34.6	35.1	35.3
-75	1.94	1.94	3.02	5.05	9.91	15.1	29.2	41.0	60.7	74.6	96.0	108	127	143	162	168	174	176	177
-70	1.99	1.96	4.13	7.75	16.0	24.7	50.0	71.4	107	132	171	193	228	256	291	302	313	317	318
-65	2.06	2.09	6.60	12.7	38.3	65.7	120	162	227	278	339	384	446	484	523	540	556	562	563
-60	2.13	2.23	9.06	17.6	60.7	107	190	253	347	424	506	576	664	712	755	778	799	806	808
-55	2.20	2.45	12.1	29.5	98.0	169	282	370	503	611	713	816	912	964	1019	1048	1075	1085	1089
-50	2.28	2.66	15.2	41.5	135	232	375	488	659	798	919	1057	1160	1216	1284	1318	1351	1364	1370
-45	2.37	2.99	19.4	62.1	197	309	486	630	840	966	1151	1265	1378	1441	1515	1552	1589	1603	1609
-40	2.45	3.32	23.5	82.7	258	386	596	772	1021	1135	1383	1474	1596	1665	1747	1786	1827	1842	1848
-35	2.52	3.61	28.6	107	301	456	692	860	1115	1256	1496	1592	1720	1791	1875	1915	1956	1973	1979
-30	2.60	3.90	33.6	131	344	525	788	948	1210	1378	1610	1711	1845	1917	2003	2043	2086	2105	2111
-25	2.65	4.21	44.5	153	379	565	843	1041	1281	1486	1694	1798	1934	2007	2094	2135	2179	2197	2203
-20	2.71	4.52	55.5	175	413	604	898	1134	1351	1594	1778	1885	2023	2097	2186	2227	2272	2289	2296
-15	2.76	4.71	58.8	186	431	626	930	1170	1413	1641	1827	1936	2075	2149	2237	2278	2324	2340	2345
-10	2.81	4.90	62.1	197	448	649	962	1206	1475	1687	1877	1987	2127	2201	2288	2329	2375	2391	2393
-5	2.84	5.42	68.9	201	463	667	987	1222	1505	1704	1895	2005	2145	2219	2306	2347	2393	2409	2408
0	2.88	5.93	75.7	205	478	686	1012	1238	1536	1722	1913	2024	2163	2238	2324	2366	2411	2426	2423
5	2.92	5.95	70.4	202	466	671	993	1226	1513	1708	1898	2008	2148	2223	2310	2351	2397	2413	2413
10	2.96	5.97	65.1	199	454	656	974	1214	1491	1694	1883	1993	2133	2208	2296	2337	2383	2400	2402
15	2.99	5.64	61.9	193	438	636	942	1181	1434	1654	1838	1948	2089	2161	2247	2290	2336	2352	2354
20	3.02	5.31	58.7	186	422	615	911	1149	1377	1613	1792	1903	2044	2115	2199	2243	2289	2305	2307
25	3.05	4.48	50.5	164	396	567	861	1077	1308	1525	1716	1825	1961	2032	2116	2161	2204	2219	2222
30	3.08	3.66	42.3	142	370	520	811	1005	1238	1436	1639	1747	1878	1949	2034	2079	2119	2134	2138
35	3.09	3.55	34.7	122	321	463	732	904	1147	1302	1527	1629	1758	1829	1910	1952	1995	2010	2014
40	3.11	3.44	27.1	101	272	406	652	803	1057	1169	1416	1512	1637	1709	1786	1826	1870	1887	1890
45	3.12	3.31	22.6	77.7	220	330	543	673	877	1007	1189	1312	1424	1488	1561	1597	1637	1653	1656
50	3.13	3.19	18.0	54.2	169	254	435	544	698	844	963	1112	1210	1268	1336	1369	1404	1418	1422
55	3.12	3.15	14.9	38.6	122	189	327	418	550	669	790	891	1000	1049	1109	1139	1169	1181	1186
60	3.12	3.12	11.9	22.9	75.9	125	220	293	403	493	617	669	790	829	882	909	935	945	949
65	3.12	3.05	9.12	17.2	49.3	83.2	147	199	276	338	424	468	553	582	629	649	668	675	678
70	3.11	2.97	6.38	11.4	22.6	41.1	74.4	106	150	183	231	268	316	334	376	389	400	406	406
75	3.12	2.99	4.92	7.99	15.0	25.6	44.8	62.4	87.5	106	133	153	180	190	213	221	227	231	231
80	3.13	3.02	3.45	4.58	7.40	10.1	15.1	19.0	25.4	29.4	35.1	38.7	43.7	46.7	50.4	52.4	54.2	55.0	55.3
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: 2.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:01 July 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: 98Helios100	TYPE: 98Helios100	WEIGHT: 1.5
SPEC.:	DIM.: 0.255 x 0.190 x 0.125	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

Table--2

UNIT: cd

H (DEG) V (DEG)	4	10	14	20	24	30	34	40	44	50	54	60	64	70	74	80	84	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	35.0	34.1	33.1	31.0	29.2	26.1	23.8	20.2	17.7	13.5	10.8	7.42	5.53	3.43	2.57	2.13	2.24	1.90	
-75	175	170	165	154	139	120	109	88.9	74.4	54.5	41.5	26.6	17.5	9.21	5.90	2.91	2.24	1.91	
-70	315	306	296	277	250	214	195	158	131	95.5	72.1	45.8	29.5	15.0	9.22	3.68	2.25	1.92	
-65	559	545	532	503	474	423	378	313	272	206	160	107	68.7	32.0	15.9	5.84	2.68	1.94	
-60	803	785	767	729	698	632	561	469	414	316	248	168	108	49.1	22.6	7.99	3.12	1.97	
-55	1083	1062	1040	996	957	881	814	680	613	475	394	263	182	88.5	44.6	11.2	3.97	2.02	
-50	1364	1339	1313	1262	1216	1130	1066	890	813	634	540	357	256	128	66.6	14.4	4.83	2.06	
-45	1602	1574	1547	1490	1439	1344	1271	1112	980	807	667	462	342	182	94.2	17.6	5.88	2.11	
-40	1840	1809	1782	1717	1661	1559	1476	1335	1147	979	794	567	428	236	122	20.9	6.92	2.17	
-35	1971	1940	1911	1844	1787	1682	1598	1448	1298	1074	916	662	496	279	154	25.7	8.07	2.22	
-30	2102	2070	2040	1970	1913	1806	1720	1562	1449	1169	1037	756	565	322	186	30.4	9.22	2.26	
-25	2194	2161	2130	2061	2001	1891	1804	1643	1526	1237	1098	806	622	356	201	44.7	10.1	2.31	
-20	2286	2252	2220	2151	2089	1976	1887	1725	1603	1305	1159	856	679	390	217	59.0	11.0	2.36	
-15	2336	2304	2272	2201	2139	2028	1937	1773	1649	1371	1198	893	718	408	239	58.0	11.8	2.40	
-10	2385	2355	2323	2251	2189	2080	1988	1822	1695	1437	1237	930	757	427	261	57.1	12.5	2.44	
-5	2402	2372	2341	2271	2208	2097	2005	1840	1711	1460	1250	946	766	435	265	58.1	12.8	2.48	
0	2418	2388	2359	2290	2227	2113	2022	1857	1727	1483	1264	963	774	443	269	59.1	13.0	2.52	
5	2406	2376	2346	2275	2212	2100	2007	1842	1714	1462	1253	951	768	437	266	58.7	13.0	2.57	
10	2395	2364	2333	2259	2196	2087	1993	1828	1700	1442	1242	939	763	431	263	58.4	12.9	2.61	
15	2347	2316	2283	2211	2150	2038	1946	1783	1658	1383	1206	902	733	414	247	59.4	12.3	2.66	
20	2299	2267	2233	2163	2104	1990	1899	1739	1617	1325	1171	866	704	397	232	60.5	11.7	2.71	
25	2216	2184	2150	2081	2023	1911	1822	1664	1546	1258	1114	820	642	371	210	48.6	10.9	2.75	
30	2134	2100	2067	1999	1942	1832	1745	1589	1476	1191	1056	774	579	345	188	36.6	10.1	2.80	
35	2007	1975	1944	1877	1820	1714	1630	1480	1335	1101	941	690	526	298	160	30.3	9.05	2.85	
40	1881	1851	1821	1755	1698	1596	1515	1371	1195	1010	827	606	473	250	133	23.9	7.96	2.90	
45	1648	1621	1594	1533	1481	1388	1314	1153	1024	838	702	506	384	198	102	20.2	6.94	2.94	
50	1415	1392	1367	1311	1264	1181	1112	935	852	667	578	407	295	146	70.9	16.6	5.93	2.97	
55	1180	1159	1136	1088	1047	973	891	763	674	523	450	305	219	106	49.4	13.3	4.99	3.01	
60	945	926	905	864	830	766	669	591	496	380	323	203	143	66.6	27.9	10.0	4.06	3.05	
65	674	659	644	613	582	530	463	400	340	256	213	134	93.1	43.4	20.4	7.64	3.59	3.08	
70	404	392	382	361	335	293	257	209	184	131	102	64.8	43.4	20.1	12.8	5.26	3.13	3.12	
75	229	223	217	205	190	168	147	121	107	77.1	60.7	39.0	26.6	13.1	8.58	4.17	3.06	3.15	
80	54.9	53.4	51.9	48.9	46.3	41.7	38.3	32.8	29.1	23.3	19.0	13.2	9.88	6.05	4.36	3.08	3.00	3.17	
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: 2.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:01 July 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: