

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	298.0 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-4.0 degrees horizontal

Beam Spread	At 10% of Imax	146.9V x 149.8H
	At 50% of Imax	107.0V x 111.6H
	At 90% of Imax	53.1V x 55.3H

Beam Flux	Total	797.9 lumens per klm.
	To 10% of Imax	784.2 lumens per klm.
	To 50% of Imax	622.6 lumens per klm.
	To 90% of Imax	194.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	79.8 %

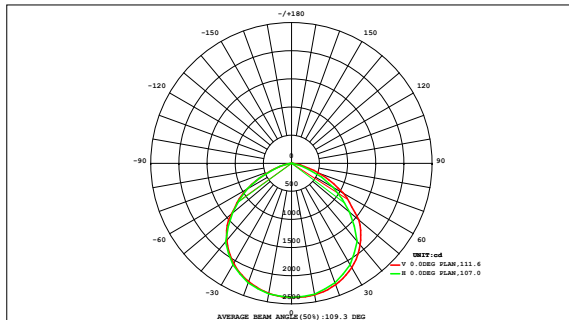
Luminaire Efficiency (Light Output Ratio)	79.9 %
---	--------

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) 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/WH	TYPE: 98Helios100/WH	WEIGHT: 1.5
SPEC.:	DIM.: 252 x 188	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98Helios100/WH	Imax (cd)	2384
NOMINAL POWER (W)	100	AVAILABILITY (%)	78.7
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	6297
NOMINAL FLUX (lm)	8000	LOR (%)	79.9
LAMPS INSIDE	1	TOTAL FLUX (lm)	6393
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.01	0.08	0.33	0.96	1.93	3.11	4.31	5.23	5.63	5.60	5.15	4.27	3.07	1.92	0.96	0.34	0.08	0.01	43.0	18.7
80	0.01	0.17	1.05	3.26	6.59	10.6	14.6	17.3	18.5	18.4	17.0	14.3	10.4	6.48	3.24	1.08	0.19	0.02	143	133
70	0.02	0.40	2.60	7.28	14.0	21.5	28.1	32.4	34.6	34.5	32.1	27.7	21.1	13.6	7.17	2.59	0.42	0.02	280	276
60	0.03	0.79	4.59	11.8	21.4	31.9	39.8	45.5	48.2	48.1	45.0	39.2	31.1	20.9	11.6	4.50	0.81	0.03	405	403
50	0.03	1.29	6.62	16.3	28.3	40.4	49.9	56.5	59.8	59.7	55.9	49.0	39.5	27.6	15.7	6.43	1.26	0.05	514	513
40	0.04	1.68	8.04	18.9	32.6	45.1	55.3	62.5	66.0	65.8	61.8	54.5	44.1	31.7	18.4	7.82	1.62	0.06	576	575
30	0.06	1.96	9.00	20.8	35.4	48.3	59.0	66.4	70.1	69.9	65.8	58.0	47.2	34.4	20.2	8.74	1.87	0.07	617	616
20	0.06	2.10	9.41	21.7	36.6	49.8	60.7	68.3	72.0	71.8	67.6	59.7	48.7	35.6	21.1	9.15	2.04	0.07	636	635
10	0.07	2.11	9.47	21.8	36.6	49.8	60.7	68.3	72.0	71.8	67.6	59.7	48.7	35.6	21.0	9.10	2.01	0.07	636	635
0	0.06	1.94	8.92	20.7	35.2	48.2	59.0	66.4	70.1	69.9	65.8	58.0	47.1	34.3	20.0	8.65	1.84	0.06	616	615
-10	0.05	1.65	8.00	18.8	32.4	45.0	55.2	62.4	65.9	65.7	61.7	54.3	43.9	31.4	18.1	7.69	1.52	0.05	574	572
-20	0.03	1.27	6.45	15.8	27.9	39.9	49.3	56.0	59.2	59.0	55.3	48.5	38.9	27.1	15.4	6.14	1.17	0.04	507	506
-30	0.02	0.82	4.52	11.9	21.5	31.8	40.0	45.8	48.5	48.4	45.2	39.3	31.1	20.7	11.3	4.22	0.70	0.03	406	404
-40	0.01	0.36	2.47	6.97	13.3	20.7	27.1	31.3	33.3	33.2	30.9	26.6	20.1	12.8	6.61	2.26	0.32	0.02	268	264
-50	0.01	0.13	0.99	3.06	6.33	10.2	14.2	16.7	17.9	17.8	16.5	13.8	9.67	5.84	2.74	0.82	0.12	0.01	137	127
-60	0.01	0.05	0.17	0.59	1.30	2.25	3.28	4.18	4.54	4.51	4.10	3.12	2.09	1.20	0.53	0.16	0.04	0.01	32.1	5.62
-70	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00	0.00	0.64	0.00
-80	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
HORIZONTAL (DEG)																				
Φ t	0.53	16.8	82.7	201	351	499	621	705	746	744	698	610	487	341	194	79.7	16.0	0.62	6393	---
Φ a	0.00	9.49	76.3	195	345	493	615	700	742	739	692	605	481	335	188	73.1	8.55	0.00	---	6297

one-half-peak spread: U:53.4,D:54.1 , L:53.6,R:58.6

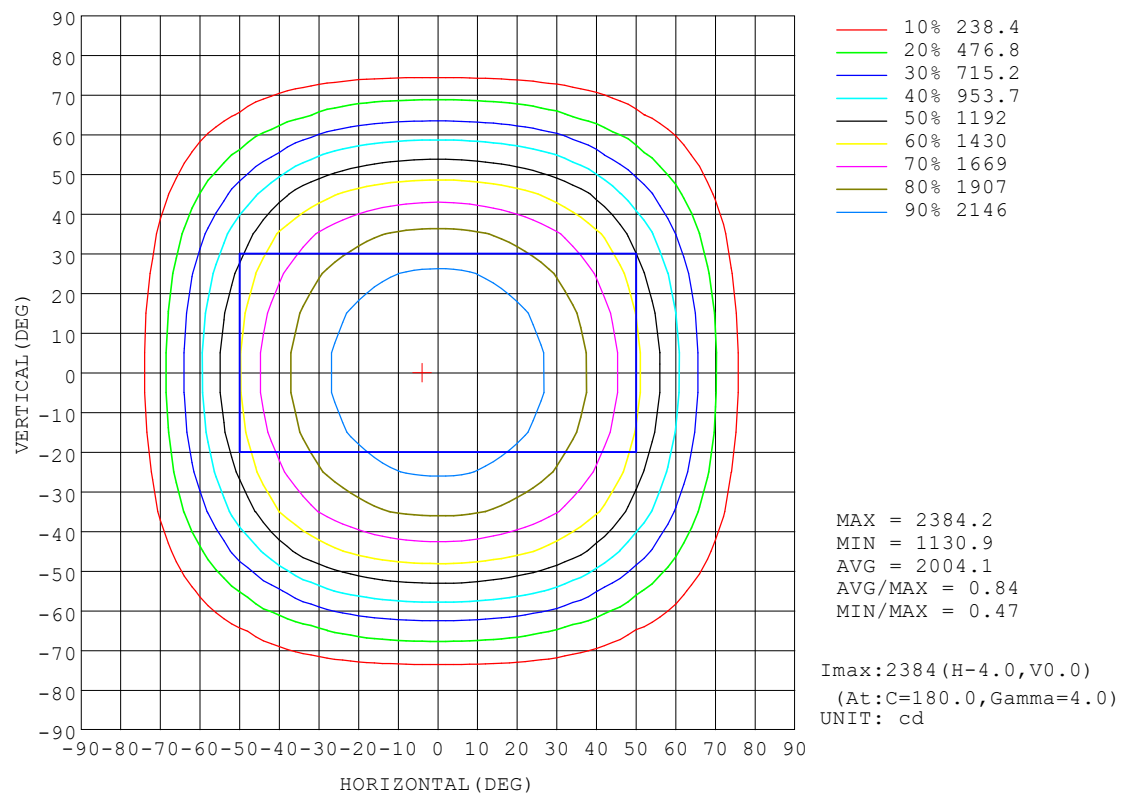
NEMA Beam Type: Type 7

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/WH	TYPE: 98Helios100/WH	WEIGHT: 1.5
SPEC.:	DIM.: 252 x 188	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

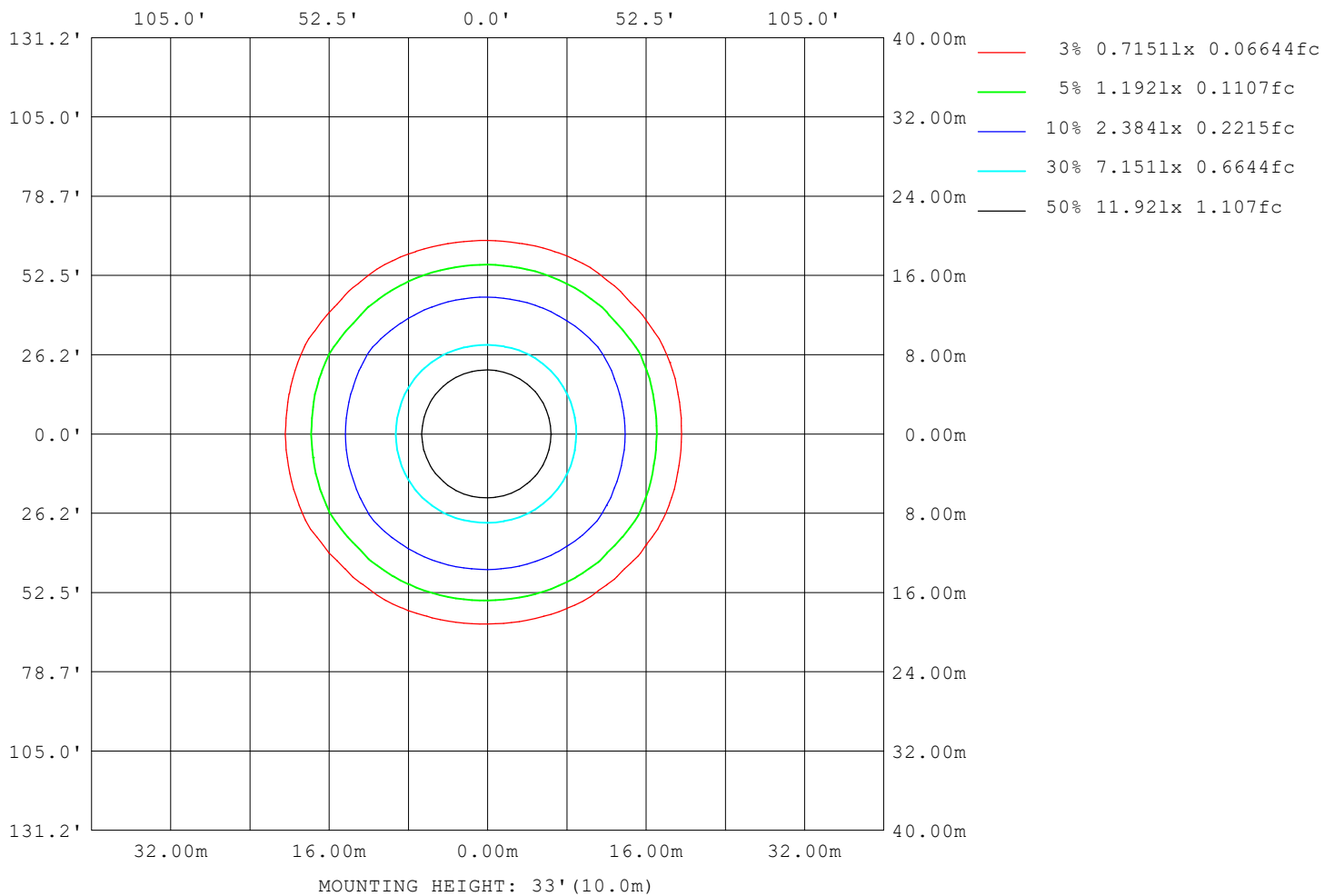


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 2.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 01 July 2022

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

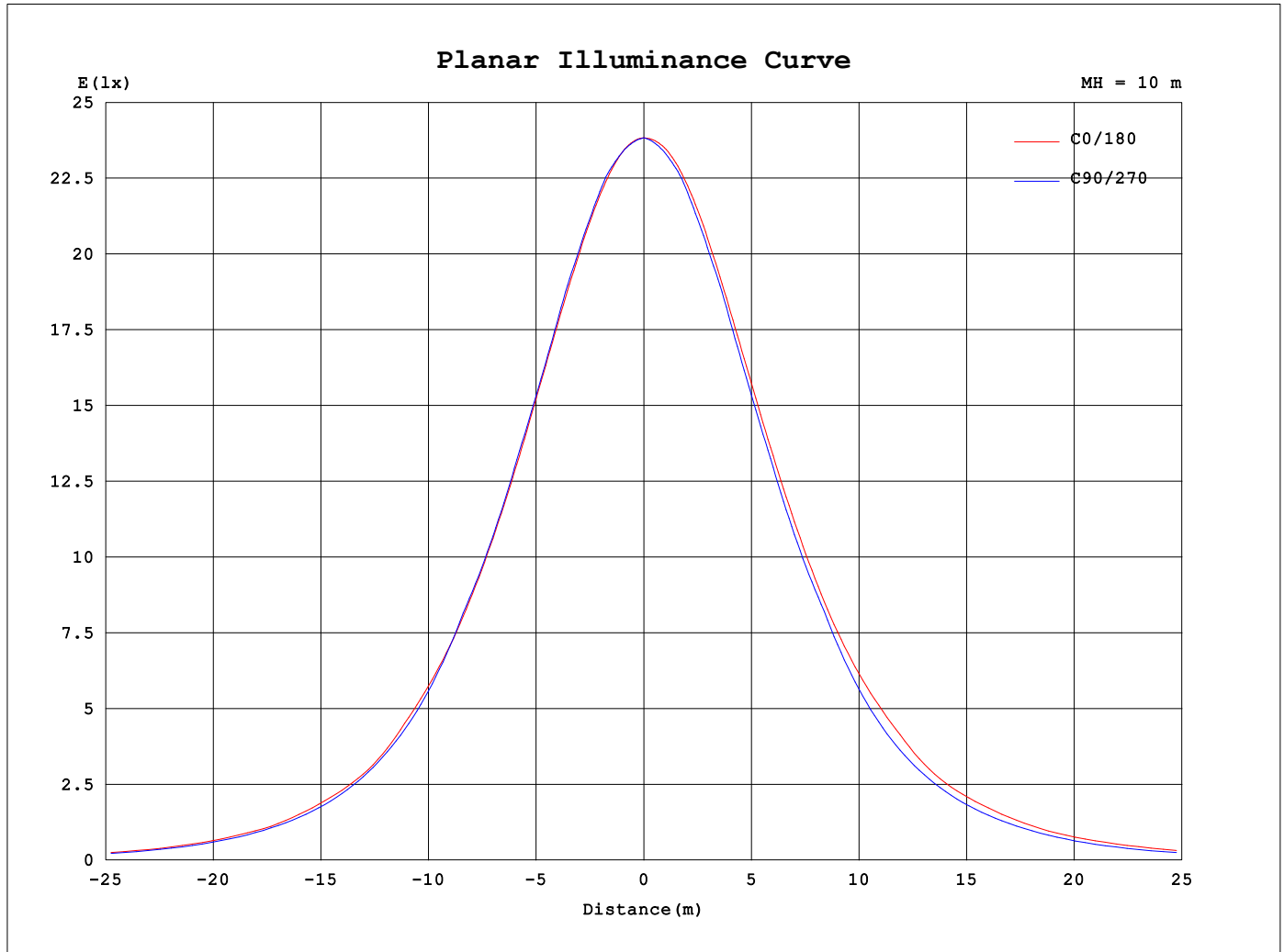
NAME: 98Helios100/WH	TYPE: 98Helios100/WH	WEIGHT: 1.5
SPEC.:	DIM.: 252 x 188	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) 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

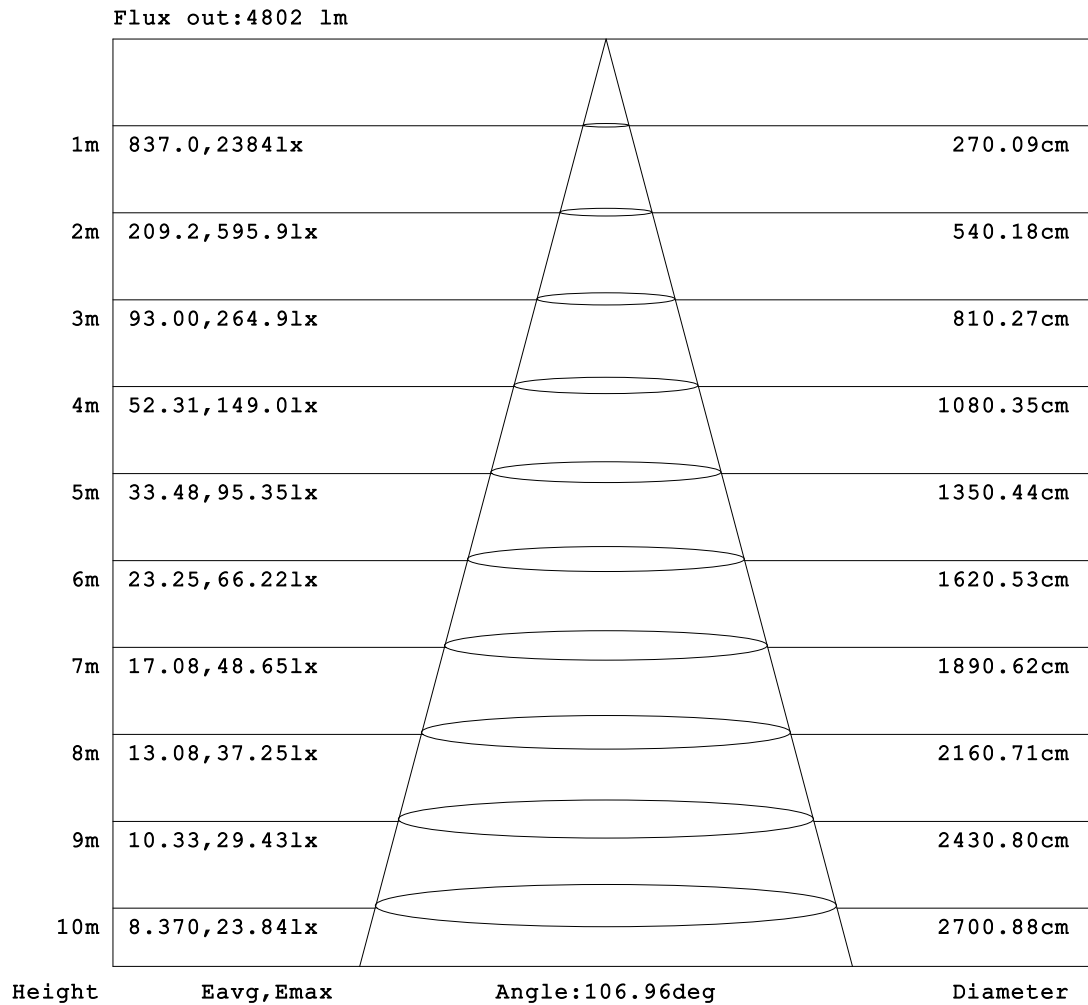


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 2.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:01 July 2022

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/WH	TYPE: 98Helios100/WH	WEIGHT: 1.5
SPEC.:	DIM.: 252 x 188	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( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) 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/WH	TYPE: 98Helios100/WH	WEIGHT: 1.5
SPEC.:	DIM.: 252 x 188	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

Table--1

UNIT: cd

H(°) \ V(°)	-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	1.85	1.87	2.23	2.96	5.05	7.02	10.5	13.1	17.5	20.2	24.1	26.6	30.1	32.2	34.7	36.0	37.1	37.6	37.7
-75	1.94	1.90	2.88	4.72	9.38	14.5	28.1	39.8	58.9	72.5	94.2	108	128	143	160	169	176	179	181
-70	1.93	2.15	5.14	8.98	18.2	29.2	56.9	78.7	113	139	177	206	242	262	296	308	319	322	324
-65	2.08	2.06	5.21	10.1	30.2	57.8	111	152	222	269	338	388	448	494	536	556	577	585	589
-60	2.06	2.84	9.44	19.1	69.0	117	203	268	371	450	553	607	710	752	799	821	844	852	854
-55	2.24	2.27	8.31	20.4	81.0	148	263	346	484	576	696	792	895	957	1019	1050	1082	1094	1101
-50	2.20	3.50	16.3	50.5	157	249	405	518	673	803	930	1056	1152	1208	1272	1303	1334	1343	1347
-45	2.40	2.48	14.4	46.2	168	272	453	591	795	912	1099	1210	1335	1401	1478	1517	1558	1573	1581
-40	2.36	5.23	33.8	111	276	419	640	785	1027	1138	1374	1465	1587	1650	1726	1764	1799	1810	1814
-35	2.56	2.89	22.6	83.5	259	400	643	808	1059	1196	1435	1540	1675	1748	1833	1877	1922	1939	1948
-30	2.49	7.11	57.5	158	371	544	806	998	1219	1419	1606	1711	1840	1907	1987	2026	2065	2077	2080
-25	2.72	3.34	32.4	120	327	506	784	973	1224	1413	1632	1745	1888	1961	2050	2096	2143	2160	2170
-20	2.57	8.17	79.8	202	460	651	941	1146	1401	1592	1772	1881	2013	2080	2163	2203	2241	2254	2259
-15	2.85	3.42	44.1	146	379	569	870	1095	1342	1564	1760	1876	2021	2097	2189	2234	2282	2301	2311
-10	2.65	9.58	94.0	231	487	703	1020	1215	1515	1679	1866	1975	2109	2181	2263	2302	2344	2359	2360
-5	2.94	3.65	50.5	159	412	603	918	1149	1413	1628	1821	1939	2084	2161	2254	2299	2348	2366	2373
0	2.71	10.6	99.4	240	518	732	1057	1244	1560	1710	1897	2008	2140	2209	2293	2335	2373	2384	2384
5	3.01	3.95	49.2	160	413	605	919	1150	1415	1629	1821	1938	2084	2161	2253	2298	2346	2365	2370
10	2.80	10.3	92.5	234	492	707	1024	1216	1519	1681	1865	1974	2109	2180	2261	2300	2342	2355	2355
15	3.07	3.80	44.8	150	385	575	875	1103	1348	1569	1761	1876	2021	2098	2189	2234	2281	2299	2308
20	2.85	9.59	83.7	215	466	661	953	1152	1413	1596	1775	1883	2014	2082	2165	2204	2241	2255	2260
25	3.12	3.55	36.4	128	339	515	797	991	1234	1428	1639	1751	1892	1966	2054	2100	2145	2163	2172
30	2.92	8.34	62.0	169	387	556	819	1020	1232	1438	1616	1720	1848	1914	1993	2031	2069	2082	2085
35	3.15	3.38	26.7	94.7	272	417	666	829	1077	1215	1452	1554	1686	1758	1842	1886	1928	1946	1955
40	2.96	6.85	42.7	121	299	439	668	806	1045	1162	1392	1482	1599	1664	1738	1773	1808	1820	1825
45	3.16	3.24	19.4	58.2	182	291	481	613	818	940	1124	1239	1355	1419	1496	1534	1571	1587	1596
50	2.99	5.25	24.1	64.6	172	274	436	544	710	828	969	1085	1177	1232	1295	1325	1353	1363	1366
55	3.14	3.11	13.4	29.6	98.1	163	289	374	509	617	733	833	939	993	1055	1086	1117	1129	1137
60	3.00	4.10	15.2	27.7	83.8	137	232	304	412	483	600	648	761	801	849	872	895	903	907
65	3.11	3.02	8.40	15.6	42.0	70.1	132	179	250	308	382	431	504	541	588	608	628	635	640
70	3.01	3.35	8.25	13.8	25.9	42.1	77.4	104	146	175	220	248	292	311	347	359	369	372	373
75	3.10	2.99	4.79	7.72	14.1	21.3	39.7	55.0	77.6	94.7	119	137	160	173	195	202	210	212	213
80	3.06	3.02	3.99	5.40	8.64	11.4	16.4	20.2	26.0	29.8	35.3	38.7	43.3	46.0	49.4	51.0	52.5	53.1	53.3
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/WH	TYPE: 98Helios100/WH	WEIGHT: 1.5
SPEC.:	DIM.: 252 x 188	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	37.5	36.6	35.6	33.5	31.7	28.5	26.1	22.3	19.7	15.4	12.7	8.95	6.84	4.38	3.28	2.27	2.26	1.71	
-75	180	177	173	164	152	134	121	99.6	85.5	64.3	50.4	33.0	22.7	12.3	8.38	4.20	2.73	1.97	
-70	321	314	305	284	260	224	203	164	138	99.8	76.5	46.5	29.8	16.1	10.2	4.35	2.50	1.76	
-65	587	577	566	540	513	467	414	355	304	233	189	125	86.2	43.4	22.4	9.02	4.30	1.99	
-60	848	830	812	771	737	654	591	491	432	328	257	166	111	46.7	22.7	8.32	3.32	1.84	
-55	1099	1082	1062	1022	985	914	842	723	642	505	429	294	212	110	57.7	16.4	6.94	2.02	
-50	1341	1315	1289	1237	1191	1102	1036	863	786	610	506	341	242	114	55.1	13.8	4.65	1.98	
-45	1579	1558	1532	1479	1434	1344	1272	1125	1009	826	703	506	381	208	118	26.7	10.2	2.08	
-40	1807	1776	1743	1679	1623	1516	1429	1282	1107	931	759	536	399	210	103	19.3	6.05	2.12	
-35	1945	1921	1892	1831	1781	1680	1597	1453	1325	1091	948	700	544	313	187	44.0	13.5	2.14	
-30	2073	2038	2005	1936	1877	1764	1673	1514	1384	1122	968	709	529	290	154	26.8	7.62	2.26	
-25	2167	2140	2110	2047	1993	1888	1801	1647	1532	1272	1117	842	669	401	239	67.8	16.6	2.20	
-20	2250	2214	2178	2107	2046	1928	1835	1667	1544	1250	1105	808	630	343	186	42.1	8.79	2.40	
-15	2306	2279	2249	2184	2127	2020	1932	1774	1651	1415	1217	946	756	461	284	83.8	19.4	2.24	
-10	2348	2316	2283	2206	2143	2027	1932	1759	1632	1353	1180	873	682	391	224	44.2	9.94	2.51	
-5	2368	2344	2315	2249	2192	2085	1996	1836	1711	1491	1268	1004	798	486	314	88.5	21.2	2.30	
0	2378	2344	2309	2237	2175	2057	1961	1790	1661	1391	1202	899	701	403	231	46.1	10.4	2.61	
5	2367	2343	2313	2247	2190	2084	1996	1836	1711	1492	1269	1006	799	487	314	89.0	21.4	2.37	
10	2346	2314	2278	2203	2141	2026	1931	1760	1633	1355	1183	878	686	394	226	45.0	10.6	2.69	
15	2304	2278	2248	2184	2127	2022	1934	1777	1655	1423	1221	955	763	466	289	85.0	20.0	2.46	
20	2250	2214	2181	2111	2050	1933	1841	1674	1551	1260	1112	814	633	348	193	43.2	9.30	2.79	
25	2169	2143	2112	2051	1997	1893	1807	1654	1539	1285	1125	853	682	411	246	70.4	17.4	2.56	
30	2077	2043	2008	1940	1882	1770	1679	1520	1401	1131	988	723	536	302	161	29.2	8.00	2.86	
35	1952	1926	1898	1839	1787	1688	1606	1463	1341	1102	963	713	560	327	192	47.9	14.4	2.66	
40	1815	1784	1753	1689	1632	1527	1443	1301	1123	949	771	553	419	218	109	21.1	6.59	2.94	
45	1593	1569	1546	1494	1448	1359	1286	1148	1029	846	722	527	401	221	125	29.9	11.2	2.76	
50	1359	1334	1308	1256	1209	1120	1053	882	802	625	523	365	263	124	59.8	15.0	5.28	2.99	
55	1134	1116	1097	1055	1018	948	876	764	669	541	455	321	235	120	64.5	18.3	7.93	2.84	
60	900	882	862	820	784	711	631	540	466	356	290	187	128	57.9	25.5	9.64	3.98	3.04	
65	638	626	614	586	559	511	456	394	337	266	218	147	104	50.7	27.5	10.7	5.24	2.93	
70	369	359	349	329	299	263	235	192	163	122	95.1	60.3	38.9	19.3	12.7	5.58	3.25	3.09	
75	212	207	203	192	181	160	142	120	104	80.2	64.6	43.4	30.6	15.8	10.7	5.60	3.59	3.02	
80	52.8	51.3	49.9	47.0	44.5	40.1	36.9	31.6	28.0	22.4	18.5	13.2	10.2	6.57	4.89	3.27	2.95	3.12	
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( $\beta$ ) Range:-90 - 90DEG

H( $\beta$ ) 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: