

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	441.1 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-20.0 degrees horizontal

Beam Spread	At 10% of Imax	146.6V x 146.8H
	At 50% of Imax	112.6V x 111.7H
	At 90% of Imax	67.9V x 67.9H

Beam Flux	Total	1176.4 lumens per klm.
	To 10% of Imax	1158.9 lumens per klm.
	To 50% of Imax	934.8 lumens per klm.
	To 90% of Imax	409.9 lumens per klm.

Upward LOR	0.0 %
Downward LOR	117.6 %

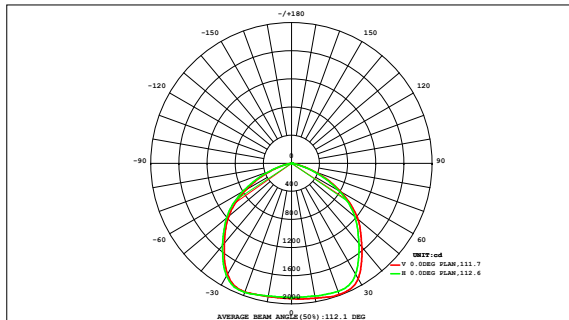
Luminaire Efficiency (Light Output Ratio)	117.6 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
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: 96RAY50/W	TYPE: 96RAY50/W	WEIGHT: 1
SPEC.:	DIM.: F 300 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	96RAY50/W	Imax (cd)	1985
NOMINAL POWER (W)	50	AVAILABILITY (%)	116.1
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	5225
NOMINAL FLUX (lm)	4500	LOR (%)	117.6
LAMPS INSIDE	1	TOTAL FLUX (lm)	5293
TEST VOLTAGE (V)	230	θ @50% (H,V)	112,113DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.72	0.00
90	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.72	0.00
80	0.00	0.02	0.03	0.16	0.76	1.75	2.88	3.85	4.43	4.42	3.80	2.79	1.67	0.68	0.14	0.03	0.02	0.01	27.4	10.9
70	0.00	0.02	0.35	2.13	5.25	9.02	12.7	15.6	17.1	16.9	15.2	12.2	8.53	4.86	1.92	0.30	0.02	0.01	122	115
60	0.01	0.08	1.61	5.66	11.6	18.1	24.2	28.5	30.8	30.4	27.7	23.0	16.9	10.7	5.14	1.41	0.07	0.01	236	233
50	0.01	0.33	3.25	9.44	17.6	26.3	33.6	38.6	41.3	41.0	37.8	32.2	24.8	16.3	8.53	2.91	0.29	0.01	334	332
40	0.01	0.66	4.86	12.7	22.7	32.3	40.5	47.3	51.1	50.9	46.5	39.2	30.7	21.1	11.6	4.34	0.57	0.01	417	416
30	0.01	0.98	6.17	15.3	26.3	36.8	47.3	55.0	58.2	57.9	53.9	45.7	35.2	24.8	14.1	5.51	0.84	0.01	484	483
20	0.01	1.24	7.07	17.0	28.6	40.6	52.0	57.7	58.9	58.4	56.4	50.1	38.7	27.0	15.8	6.33	1.05	0.01	517	516
10	0.01	1.38	7.54	17.9	29.8	42.7	53.9	57.8	58.4	57.6	56.2	51.9	40.8	28.3	16.7	6.75	1.15	0.01	529	528
0	0.01	1.37	7.50	17.8	29.6	42.4	53.3	57.2	58.0	58.1	56.7	52.3	41.2	28.5	16.8	6.74	1.14	0.01	529	528
-10	0.01	1.21	6.94	16.7	28.0	39.8	51.3	57.0	58.5	58.4	56.6	50.5	39.0	27.2	15.9	6.29	1.01	0.01	514	513
-20	0.01	0.94	5.97	14.8	25.7	36.0	46.4	54.2	57.5	57.4	53.7	45.6	35.2	24.7	14.0	5.39	0.79	0.01	478	477
-30	0.01	0.60	4.67	12.3	22.1	31.4	39.6	46.3	50.0	49.8	45.8	38.9	30.5	21.1	11.4	4.15	0.51	0.01	409	407
-40	0.01	0.29	3.09	9.08	17.0	25.4	32.5	37.5	40.0	39.9	37.0	31.7	24.5	16.1	8.28	2.68	0.23	0.01	325	323
-50	0.01	0.07	1.50	5.47	11.1	17.5	23.3	27.6	29.7	29.5	27.0	22.3	16.5	10.2	4.86	1.23	0.06	0.01	228	225
-60	0.01	0.02	0.32	1.98	5.05	8.83	12.4	15.1	16.4	16.1	14.3	11.4	7.99	4.49	1.67	0.25	0.02	0.01	116	109
-70	0.01	0.02	0.03	0.16	0.73	1.66	2.78	3.64	4.08	3.93	3.29	2.36	1.39	0.57	0.13	0.04	0.02	0.01	24.8	9.02
-80	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.08	0.08	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.86	0.00
-90	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.72	0.00
HORIZONTAL (DEG)																				
Φ t	0.11	9.26	61.0	159	282	411	529	603	635	631	592	512	394	267	147	54.4	7.84	0.12	5293	---
Φ a	0.00	4.30	56.3	155	278	407	525	599	631	627	588	508	389	263	143	49.4	2.77	0.00	---	5225

one-half-peak spread: U:36.2,D:36.8 , L:36.8,R:35.4

NEMA Beam Type: Type 7

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:01 September 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

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

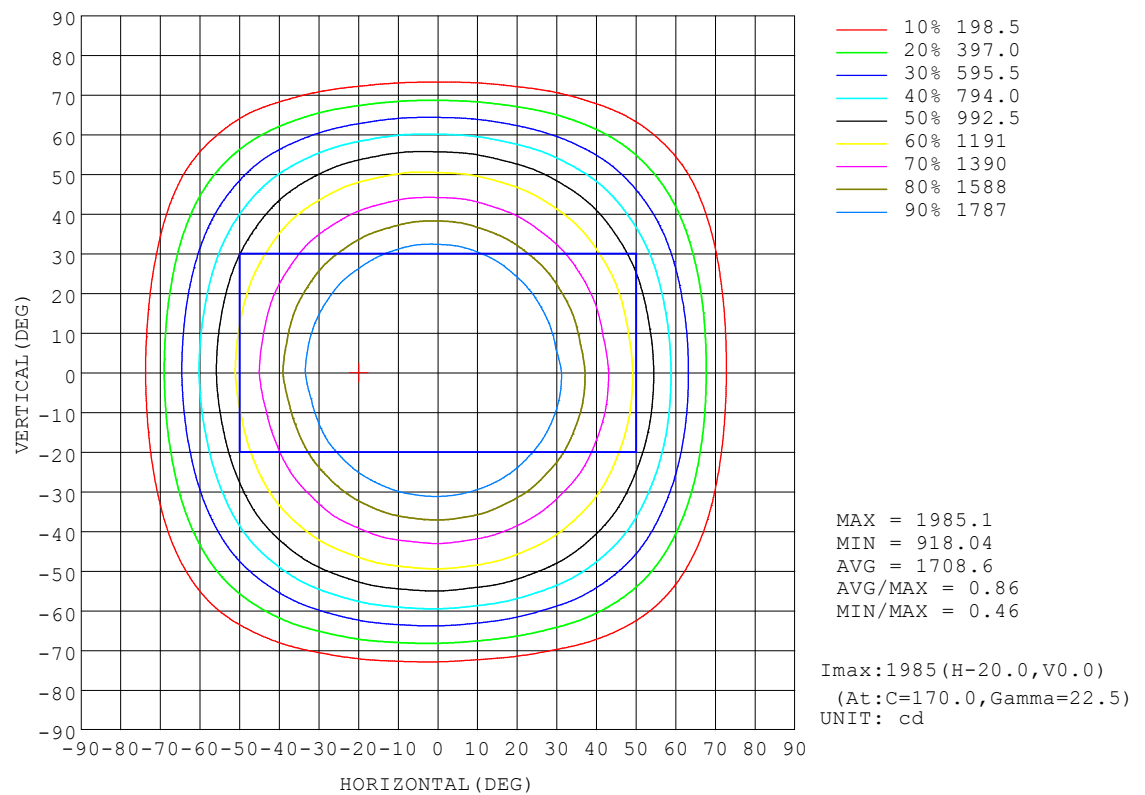
Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

NAME: 96RAY50/W	TYPE: 96RAY50/W	WEIGHT: 1
SPEC.:	DIM.: F 300 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:

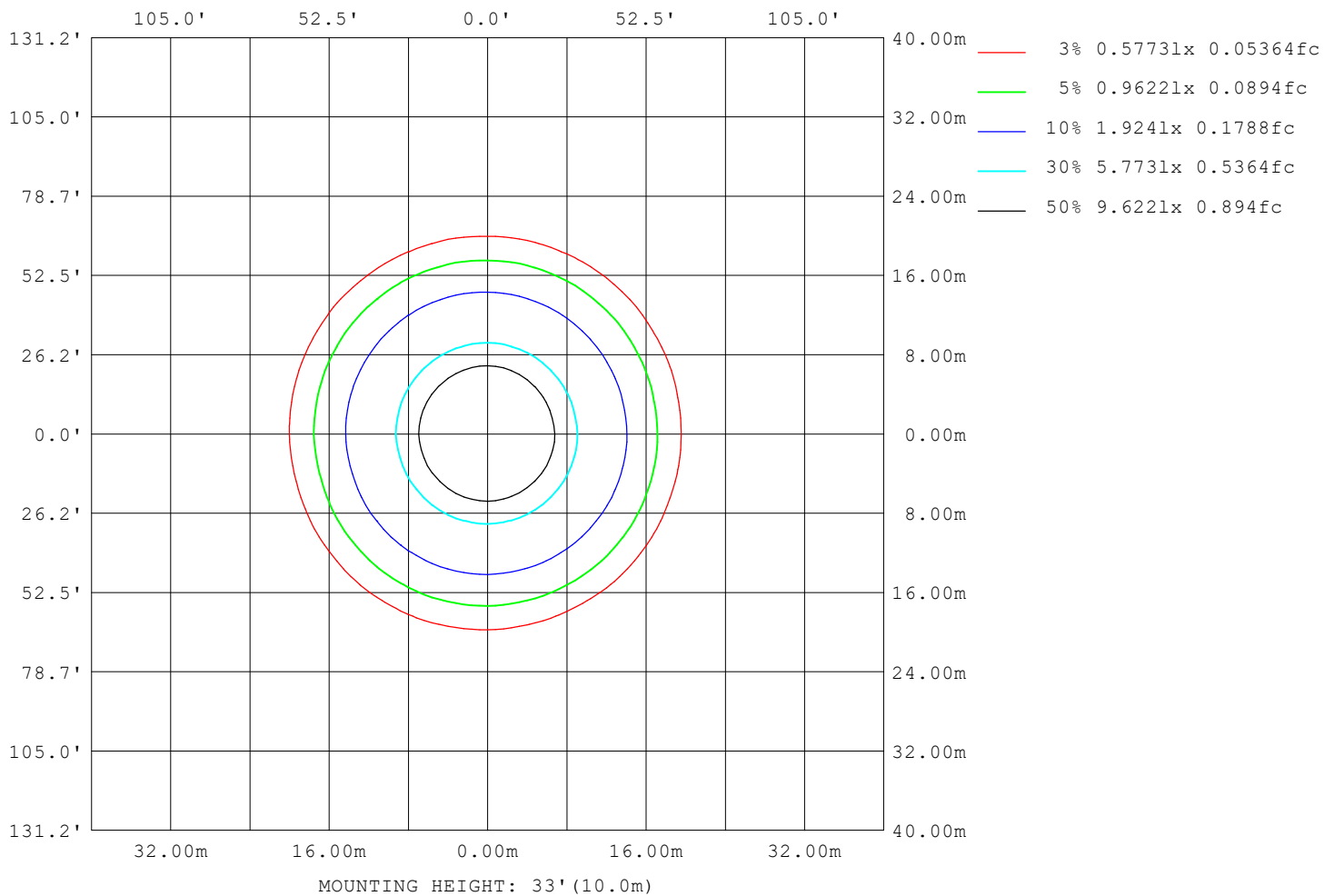


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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
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 Remarks:

ISOLUX DIAGRAM

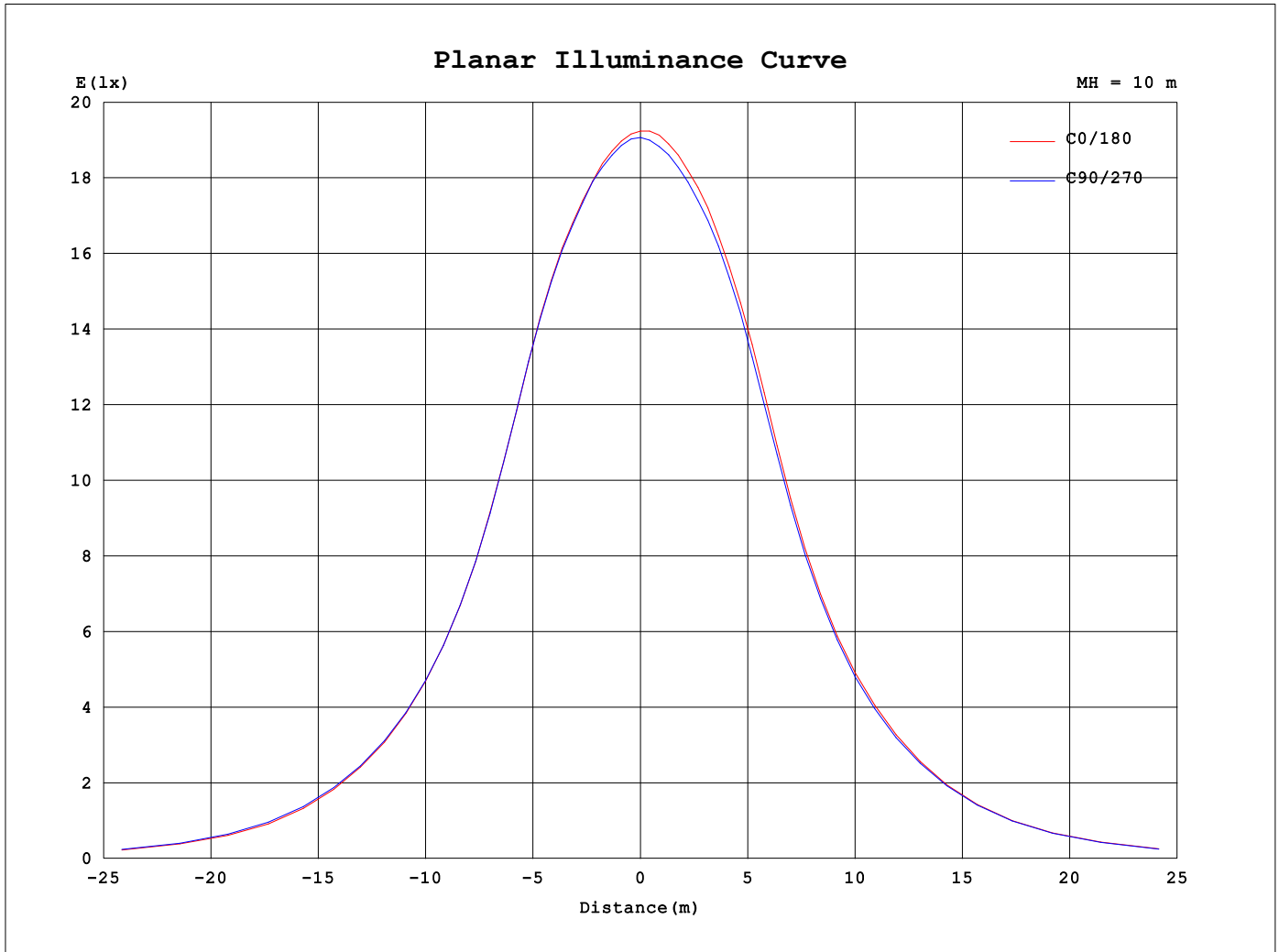
NAME: 96RAY50/W	TYPE: 96RAY50/W	WEIGHT: 1
SPEC.:	DIM.: F 300 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

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γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve

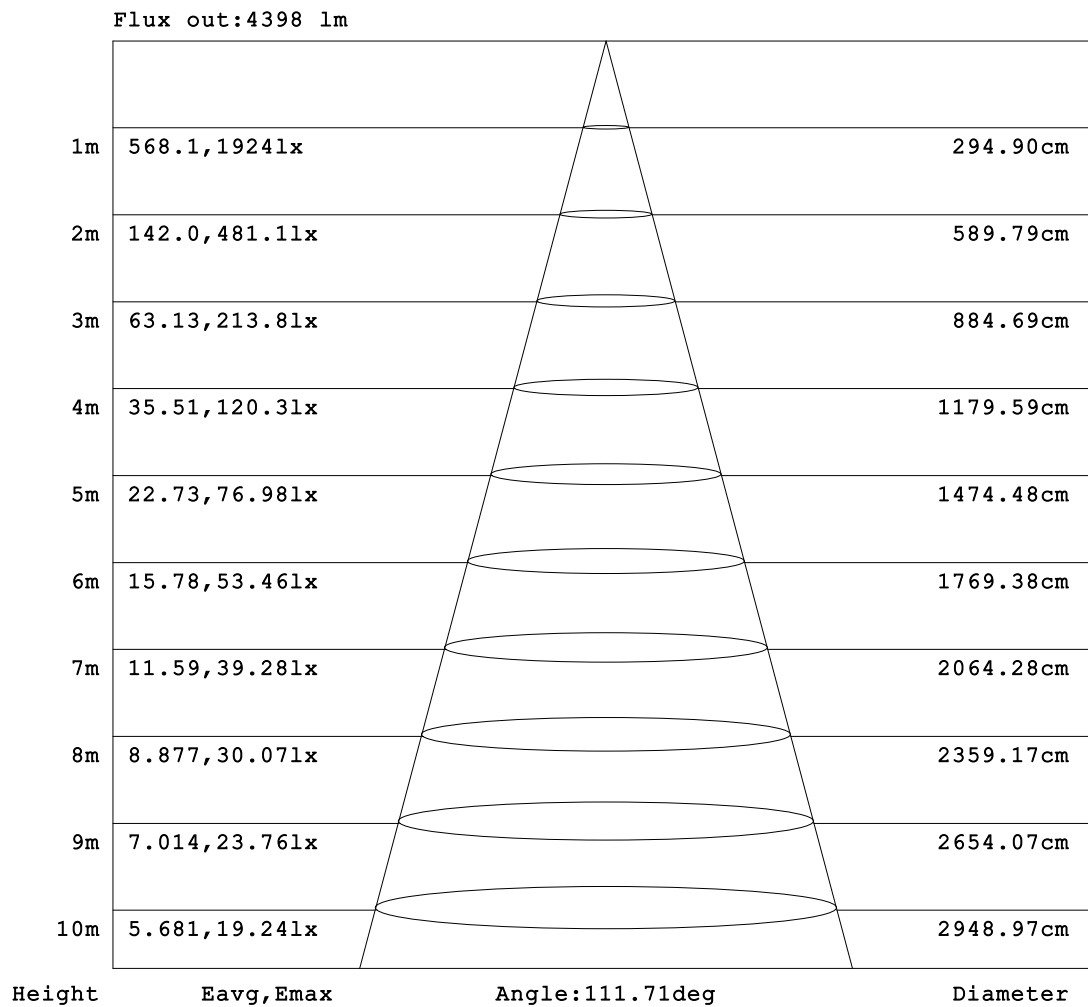


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 01 September 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

AAI Figure

NAME: 96RAY50/W	TYPE: 96RAY50/W	WEIGHT: 1
SPEC.:	DIM.: F 300 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: HIGH

Temperature:25.3°C

Operators:

Test Date:01 September 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

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: 96RAY50/W	TYPE: 96RAY50/W	WEIGHT: 1
SPEC.:	DIM.: F 300 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:

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
-90	1.75	1.93	2.10	2.10	2.10	2.11	2.11	2.12	2.12	2.13	2.14	2.15	2.15	2.17	2.18	2.19	2.20	2.21	2.23
-85	1.75	1.93	2.10	2.11	2.11	2.11	2.11	2.15	2.19	2.18	2.17	2.10	2.00	2.14	2.30	2.33	2.36	2.39	2.41
-80	1.75	1.93	2.10	2.11	2.18	2.25	2.32	2.44	2.56	2.62	2.82	3.19	3.17	3.80	4.61	4.94	5.16	5.35	5.47
-75	1.75	1.93	2.10	2.22	2.32	2.50	2.68	3.82	4.96	18.5	36.2	55.8	78.4	90.7	101	111	116	120	121
-70	1.75	1.92	2.16	2.32	2.56	3.40	5.10	35.0	73.3	107	142	183	218	252	283	301	311	318	320
-65	1.75	1.92	2.22	2.50	3.33	11.8	53.6	107	165	227	296	356	404	448	487	514	531	541	542
-60	1.75	1.91	2.27	2.67	4.62	58.8	120	202	289	375	455	528	591	648	698	732	753	768	774
-55	1.75	1.94	2.36	3.62	35.8	107	201	311	416	514	612	705	780	846	907	950	973	989	995
-50	1.75	1.96	2.45	4.59	68.1	163	288	415	537	655	766	872	961	1030	1086	1127	1152	1168	1174
-45	1.75	1.98	2.53	16.1	105	229	373	515	658	789	912	1027	1117	1182	1235	1280	1304	1320	1332
-40	1.75	1.99	2.73	33.8	142	294	451	611	767	917	1047	1155	1243	1312	1368	1422	1461	1483	1491
-35	1.75	2.01	3.29	50.5	186	353	525	697	868	1029	1160	1264	1351	1435	1511	1577	1625	1651	1661
-30	1.75	2.01	3.80	71.6	224	407	591	772	957	1123	1252	1353	1453	1561	1655	1731	1785	1813	1823
-25	1.75	2.02	4.25	93.4	260	453	650	844	1033	1197	1325	1441	1564	1686	1791	1855	1898	1913	1918
-20	1.75	2.02	4.65	112	292	493	699	904	1098	1256	1386	1523	1670	1799	1885	1928	1940	1935	1939
-15	1.75	2.02	4.98	128	317	526	740	951	1147	1304	1441	1595	1757	1874	1934	1947	1940	1930	1926
-10	1.75	2.01	5.24	140	336	552	772	991	1185	1339	1487	1654	1817	1918	1952	1950	1934	1921	1915
-5	1.75	2.01	5.41	149	349	569	794	1018	1215	1371	1529	1700	1859	1940	1957	1944	1926	1911	1908
0	1.75	1.99	5.50	153	354	577	805	1032	1232	1391	1557	1733	1898	1976	1985	1970	1948	1935	1924
5	1.75	1.99	5.44	150	350	573	799	1026	1225	1381	1539	1717	1883	1970	1979	1966	1944	1925	1905
10	1.75	1.99	5.29	142	340	560	782	1005	1204	1359	1510	1681	1844	1945	1977	1969	1947	1930	1914
15	1.75	1.98	5.04	132	322	539	754	972	1171	1332	1474	1629	1782	1900	1963	1968	1960	1944	1931
20	1.75	1.97	4.72	119	298	508	716	929	1126	1289	1421	1556	1697	1826	1909	1952	1962	1958	1953
25	1.75	1.96	4.30	103	266	469	670	873	1066	1229	1355	1475	1601	1720	1816	1882	1918	1937	1939
30	1.75	1.94	3.81	84.8	230	422	613	805	989	1150	1282	1389	1496	1595	1690	1765	1816	1847	1849
35	1.75	1.92	3.25	65.8	194	367	548	724	896	1055	1192	1305	1387	1467	1549	1610	1659	1693	1699
40	1.75	1.89	2.62	44.8	154	305	475	634	793	944	1083	1194	1276	1347	1410	1459	1500	1527	1531
45	1.75	1.86	2.38	20.3	116	238	390	537	679	820	951	1062	1152	1225	1277	1312	1345	1362	1361
50	1.75	1.83	2.26	4.92	74.9	180	299	433	559	684	799	902	994	1072	1126	1164	1196	1210	1206
55	1.75	1.80	2.14	3.71	38.1	118	210	319	432	540	637	725	809	883	937	978	1011	1024	1021
60	1.75	1.77	2.02	2.46	5.43	58.7	130	209	298	386	469	544	613	673	720	758	787	800	799
65	1.75	1.76	1.94	2.25	3.50	12.8	63.7	116	178	237	300	359	416	462	499	530	554	565	566
70	1.75	1.76	1.86	2.03	2.33	3.51	5.55	39.7	71.6	115	149	189	225	258	284	308	325	334	336
75	1.75	1.75	1.77	1.90	2.03	2.22	2.39	3.85	5.48	19.1	43.3	60.8	75.1	95.1	110	119	127	133	134
80	1.75	1.75	1.76	1.77	1.85	1.92	1.97	2.09	2.19	2.28	2.53	3.16	3.66	3.95	4.04	4.28	4.47	4.50	4.46
85	1.75	1.75	1.75	1.75	1.75	1.75	1.74	1.77	1.80	1.81	1.82	1.72	1.61	1.76	1.93	1.96	1.98	1.99	1.99
90	1.75	1.74	1.74	1.74	1.74	1.74	1.73	1.74	1.74	1.74	1.74	1.74	1.75	1.75	1.76	1.76	1.76	1.77	1.77

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

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γ Range: 0 - 90DEG

γ Interval: 2.5DEG

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: 96RAY50/W	TYPE: 96RAY50/W	WEIGHT: 1
SPEC.:	DIM.: F 300 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	2.23	2.24	2.25	2.25	2.26	2.26	2.26	2.27	2.26	2.26	2.26	2.27	2.26	2.26	2.26	2.26	2.25	2.25	
-85	2.42	2.43	2.42	2.41	2.38	2.35	2.33	2.31	2.28	2.26	2.24	2.22	2.23	2.24	2.25	2.26	2.25	2.25	
-80	5.14	4.77	4.73	4.59	4.23	3.83	3.48	2.89	2.65	2.57	2.49	2.41	2.36	2.30	2.24	2.25	2.25	2.25	
-75	114	105	98.2	87.5	72.8	55.9	40.8	29.0	14.7	5.31	4.01	2.75	2.61	2.45	2.36	2.25	2.25	2.25	
-70	311	295	278	254	224	192	161	124	88.4	51.8	27.0	5.50	3.63	2.69	2.48	2.34	2.25	2.25	
-65	531	511	487	454	413	368	319	265	203	144	88.8	40.5	9.80	3.58	2.67	2.42	2.25	2.25	
-60	760	737	707	665	610	551	488	416	338	257	176	100	39.0	5.05	2.85	2.49	2.25	2.25	
-55	981	957	927	878	811	741	664	571	474	375	275	174	86.0	25.4	3.82	2.61	2.29	2.25	
-50	1163	1141	1110	1063	1001	925	833	724	611	492	373	252	140	49.6	4.79	2.72	2.33	2.25	
-45	1317	1295	1263	1214	1154	1083	989	874	745	611	469	330	197	86.4	13.9	2.83	2.36	2.25	
-40	1477	1451	1408	1350	1284	1209	1117	1007	873	722	562	405	257	122	28.2	3.03	2.39	2.25	
-35	1647	1614	1558	1488	1410	1320	1223	1118	988	823	649	476	312	160	41.1	3.51	2.42	2.25	
-30	1808	1771	1713	1633	1538	1428	1322	1209	1079	914	728	542	362	193	58.2	3.94	2.44	2.25	
-25	1908	1888	1842	1763	1655	1537	1415	1287	1152	990	800	602	406	226	75.7	4.29	2.47	2.25	
-20	1935	1932	1912	1860	1764	1638	1494	1354	1212	1055	861	652	444	254	90.3	4.59	2.48	2.25	
-15	1928	1934	1932	1915	1843	1719	1561	1411	1264	1103	910	691	474	276	102	4.82	2.50	2.25	
-10	1916	1923	1931	1936	1888	1777	1621	1454	1301	1137	943	718	497	292	110	4.98	2.51	2.25	
-5	1913	1919	1929	1939	1913	1811	1657	1479	1322	1156	964	733	510	301	115	5.07	2.52	2.25	
0	1920	1924	1931	1946	1924	1821	1666	1489	1329	1162	970	738	515	305	117	5.10	2.52	2.25	
5	1898	1898	1908	1920	1886	1788	1638	1469	1315	1151	960	732	512	303	116	5.08	2.50	2.25	
10	1908	1907	1921	1920	1870	1756	1601	1438	1288	1127	937	715	500	296	112	4.99	2.48	2.25	
15	1925	1928	1926	1904	1826	1703	1554	1402	1256	1096	902	687	479	282	106	4.82	2.45	2.25	
20	1943	1936	1910	1856	1758	1627	1486	1351	1213	1054	859	652	451	262	96.4	4.58	2.42	2.25	
25	1922	1897	1849	1766	1661	1537	1410	1284	1156	996	803	608	416	237	84.8	4.26	2.38	2.25	
30	1837	1797	1735	1645	1542	1438	1324	1210	1079	918	736	554	375	206	71.2	3.85	2.35	2.25	
35	1686	1642	1582	1509	1421	1330	1237	1122	984	826	661	492	327	172	56.1	3.37	2.31	2.25	
40	1520	1485	1433	1377	1302	1221	1129	1015	876	725	576	423	274	133	39.0	2.80	2.26	2.25	
45	1356	1329	1288	1239	1176	1094	998	886	755	619	484	349	216	99.3	18.0	2.55	2.22	2.25	
50	1199	1174	1134	1086	1022	937	843	742	628	508	389	271	157	63.4	4.76	2.42	2.18	2.25	
55	1013	989	947	898	839	764	682	590	494	393	290	190	100	32.2	3.62	2.29	2.13	2.25	
60	792	771	735	692	641	578	508	436	359	275	190	116	49.5	4.89	2.49	2.15	2.08	2.25	
65	559	543	516	481	442	396	342	283	220	160	105	56.7	10.9	3.33	2.31	2.06	2.07	2.25	
70	333	322	303	279	251	217	180	139	102	61.2	34.9	4.52	3.27	2.39	2.11	1.97	2.07	2.25	
75	133	128	118	107	91.6	71.2	57.2	40.3	16.6	4.53	3.45	2.53	2.32	2.12	1.99	1.88	2.06	2.25	
80	4.42	4.32	4.08	3.82	3.66	3.41	3.07	2.63	2.45	2.36	2.24	2.11	2.03	1.95	1.87	1.86	2.05	2.25	
85	2.00	2.00	2.01	2.01	2.00	1.99	1.98	1.97	1.95	1.93	1.90	1.86	1.86	1.85	1.85	1.85	2.05	2.25	
90	1.78	1.79	1.79	1.80	1.81	1.81	1.82	1.82	1.82	1.83	1.83	1.83	1.83	1.84	1.84	1.84	2.04	2.25	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:01 September 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

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

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks: