

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	743.6 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	107.7V x 112.7H
	At 50% of Imax	69.7V x 50.2H
	At 90% of Imax	26.4V x 24.3H

Beam Flux	Total	944.5 lumens per klm.
	To 10% of Imax	867.9 lumens per klm.
	To 50% of Imax	489.1 lumens per klm.
	To 90% of Imax	113.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	94.4 %

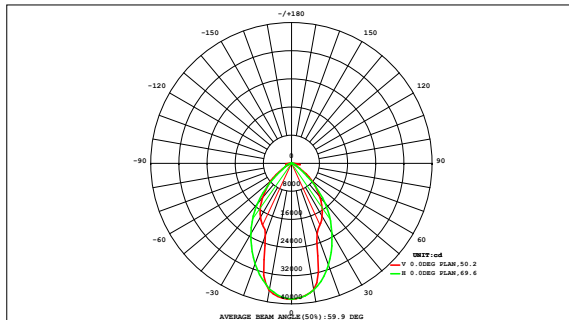
Luminaire Efficiency (Light Output Ratio)	94.5 %
---	--------

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:31 October 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
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: 98ANTARES400/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 420 x250 x115	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98ANTARES400/BL	Imax (cd)	38668
NOMINAL POWER (W)	400	AVAILABILITY (%)	86.8
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	45158
NOMINAL FLUX (lm)	52000	LOR (%)	94.5
LAMPS INSIDE	1	TOTAL FLUX (lm)	49143
TEST VOLTAGE (V)	230	θ @50% (H,V)	50,70DEG

90 80 70 60 50 40 30 -30 -40 -50 -60 -70 -80 -90	AREA FLUX DIAGRAM															UNIT:lm				Φ t	Φ a
	0.10	0.49	1.03	2.20	2.94	4.19	5.17	5.14	4.26	4.23	5.01	4.91	4.12	3.04	2.24	1.02	0.44	0.08	50.6	0.00	
0.46	1.76	4.00	9.28	14.0	19.7	23.8	25.3	23.4	23.4	24.8	23.2	19.5	14.5	9.92	4.11	1.61	0.33	243	0.00		
0.81	2.42	6.72	16.7	27.3	34.4	42.5	50.5	53.1	53.4	50.8	42.8	34.3	27.6	17.7	7.05	2.26	0.74	471	0.00		
1.37	2.89	9.47	24.9	39.0	53.8	77.6	101	113	115	104	80.6	55.5	39.4	25.4	9.84	2.92	1.38	857	244		
2.07	3.70	11.5	31.0	56.3	113	193	272	320	323	279	202	119	59.2	31.5	11.8	3.69	2.05	2034	1775		
2.74	4.55	13.0	37.2	104	219	357	493	576	577	499	366	228	110	39.1	13.2	4.43	2.62	3645	3491		
3.46	5.57	14.0	51.9	162	306	486	679	798	802	685	494	315	167	55.3	14.4	5.18	3.19	5047	4937		
4.07	6.89	14.7	70.5	198	361	563	822	998	1007	830	568	369	203	74.3	15.1	5.83	3.68	6113	6019		
4.76	7.24	14.7	81.1	214	378	553	883	1128	1137	895	557	386	219	84.7	15.3	6.18	3.87	6569	6481		
4.85	7.49	14.4	80.0	212	373	528	842	1133	1135	865	539	384	217	83.8	15.3	6.11	3.73	6445	6356		
4.35	7.48	13.9	67.8	193	350	527	775	1011	1012	796	544	362	198	71.7	15.0	6.08	3.44	5957	5862		
3.64	6.85	13.1	49.0	156	297	465	652	798	801	665	479	305	162	52.5	14.0	5.45	3.00	4927	4813		
2.86	5.63	12.1	34.1	98.8	211	342	476	564	568	485	352	217	103	36.0	12.7	4.65	2.39	3528	3373		
2.13	4.46	10.7	27.1	51.6	105	183	262	311	312	266	188	108	52.1	28.0	11.3	3.85	1.83	1929	1663		
1.42	3.53	8.48	21.8	34.4	46.3	67.1	87.7	99.3	99.0	87.8	67.4	45.7	34.0	22.2	9.13	3.05	1.29	740	145		
0.86	2.86	5.44	14.6	22.7	28.2	33.4	39.6	42.2	42.3	39.8	33.7	27.9	22.8	15.2	6.05	2.29	0.80	381	0.00		
0.42	1.78	2.94	7.12	10.6	13.4	15.8	16.4	15.2	15.3	17.1	16.8	13.9	10.8	7.67	3.20	1.50	0.40	170	0.00		
0.06	0.37	0.67	1.43	2.17	2.93	3.49	3.60	3.01	3.01	3.87	3.81	3.15	2.28	1.62	0.75	0.41	0.11	36.7	0.00		
-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)					20	30	40	50	60	70	80	90	
Φ t	40.4	76.0	171	628	1599	2916	4466	6485	7992	8029	6598	4561	2997	1646	659	179	65.9	34.9	49143	---	
Φ a	0.00	0.00	0.00	253	1299	2647	4204	6226	7742	7779	6342	4303	2735	1353	276	0.00	0.00	0.00	---	45158	

one-half-peak spread: U:34.9,D:35.3 , L:25.4,R:26.0

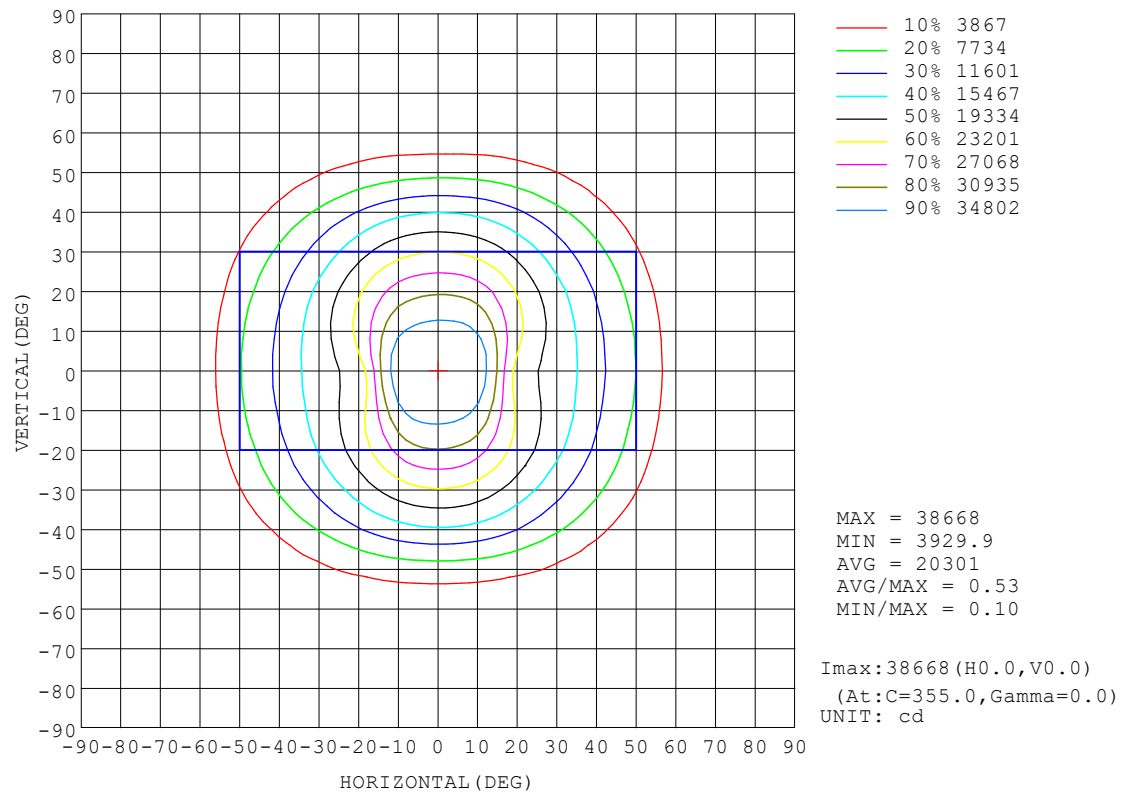
NEMA Beam Type: Type 6

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:31 October 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 98ANTARES400/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 420 x250 x115	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

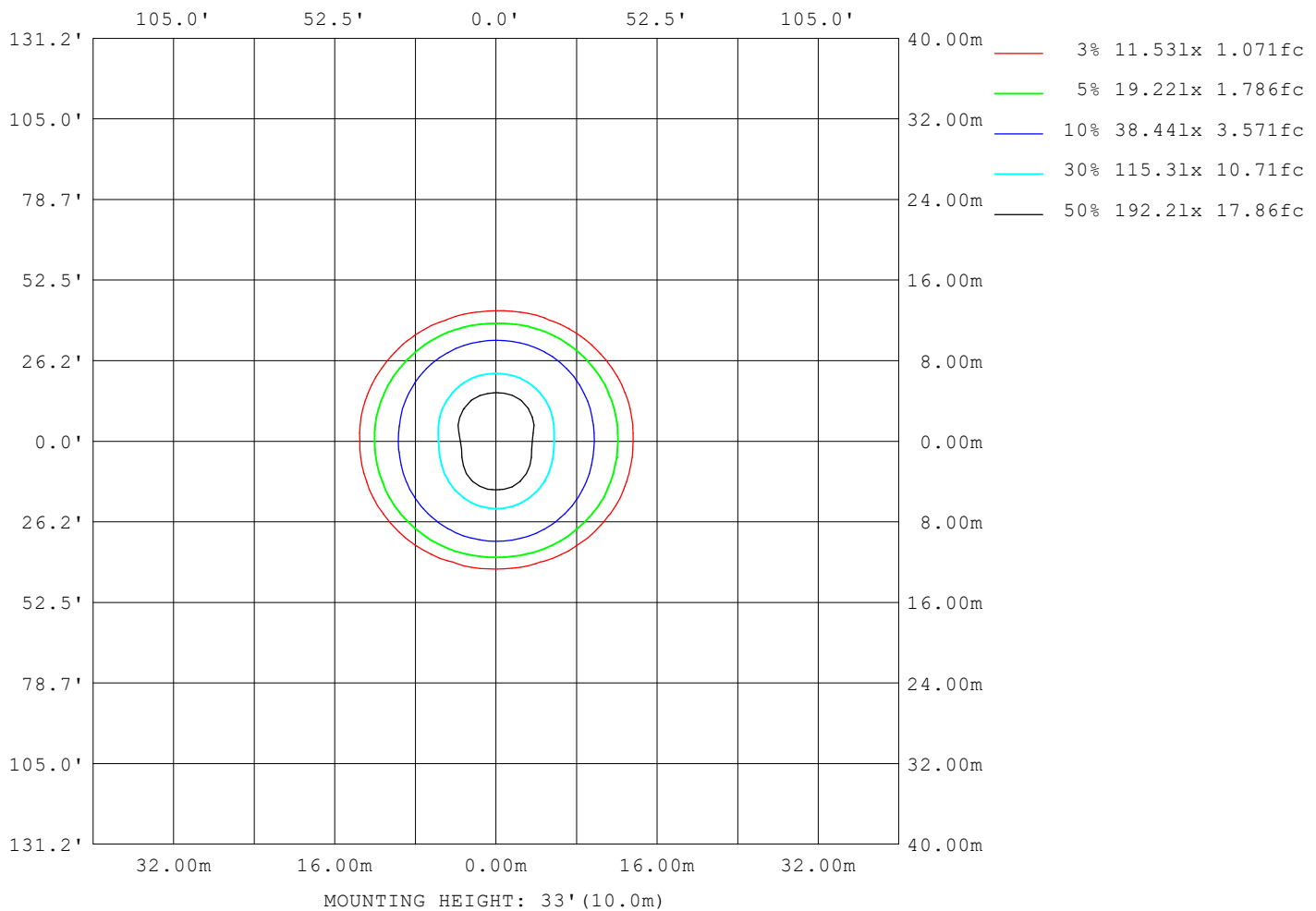


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:31 October 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

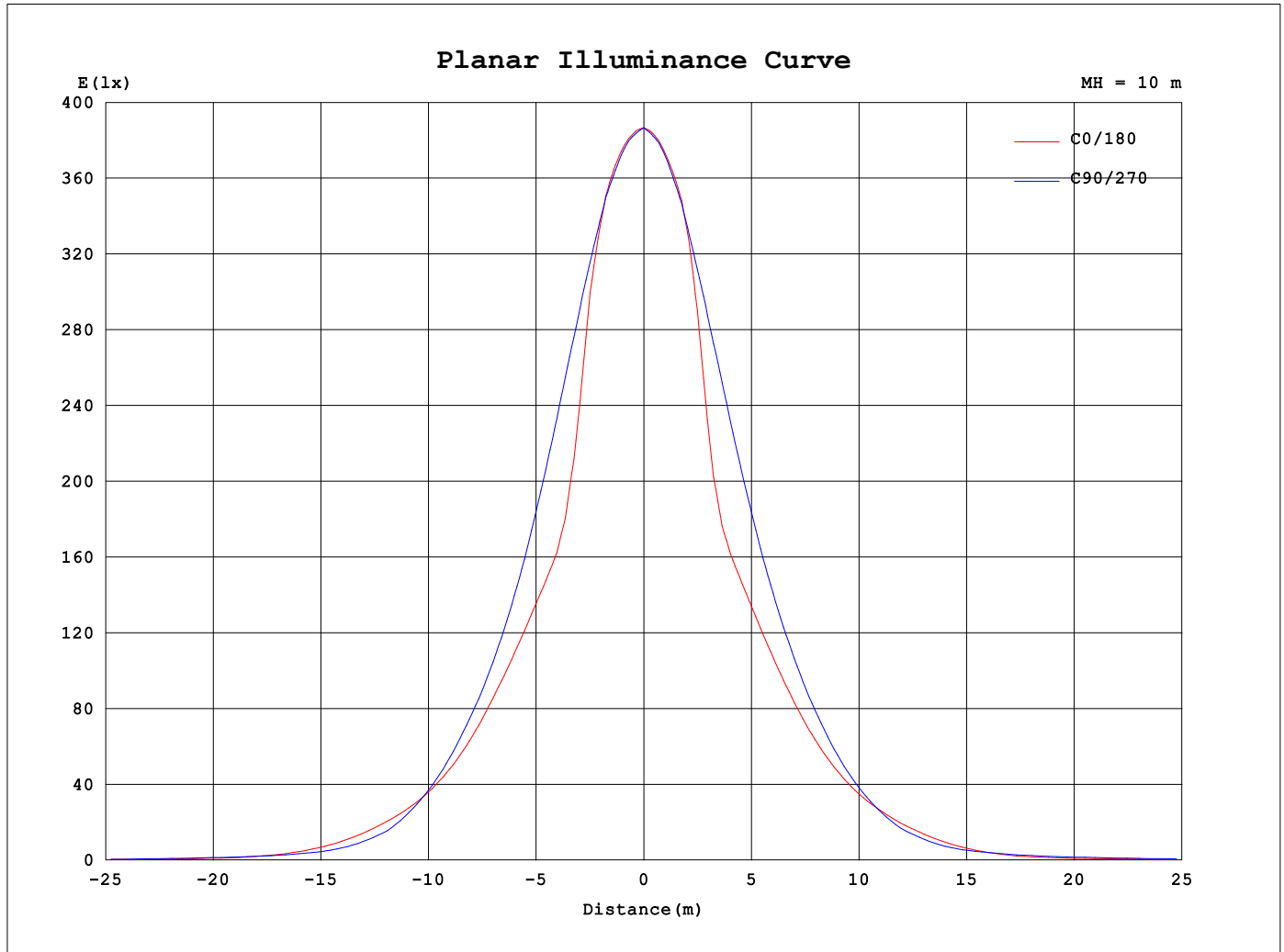
NAME: 98ANTARES400/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 420 x250 x115	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:



H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:31 October 2022

V(B) Range:-85 - 85DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.265m [K=1.0000]
 Remarks:

Planar Illuminance Curve

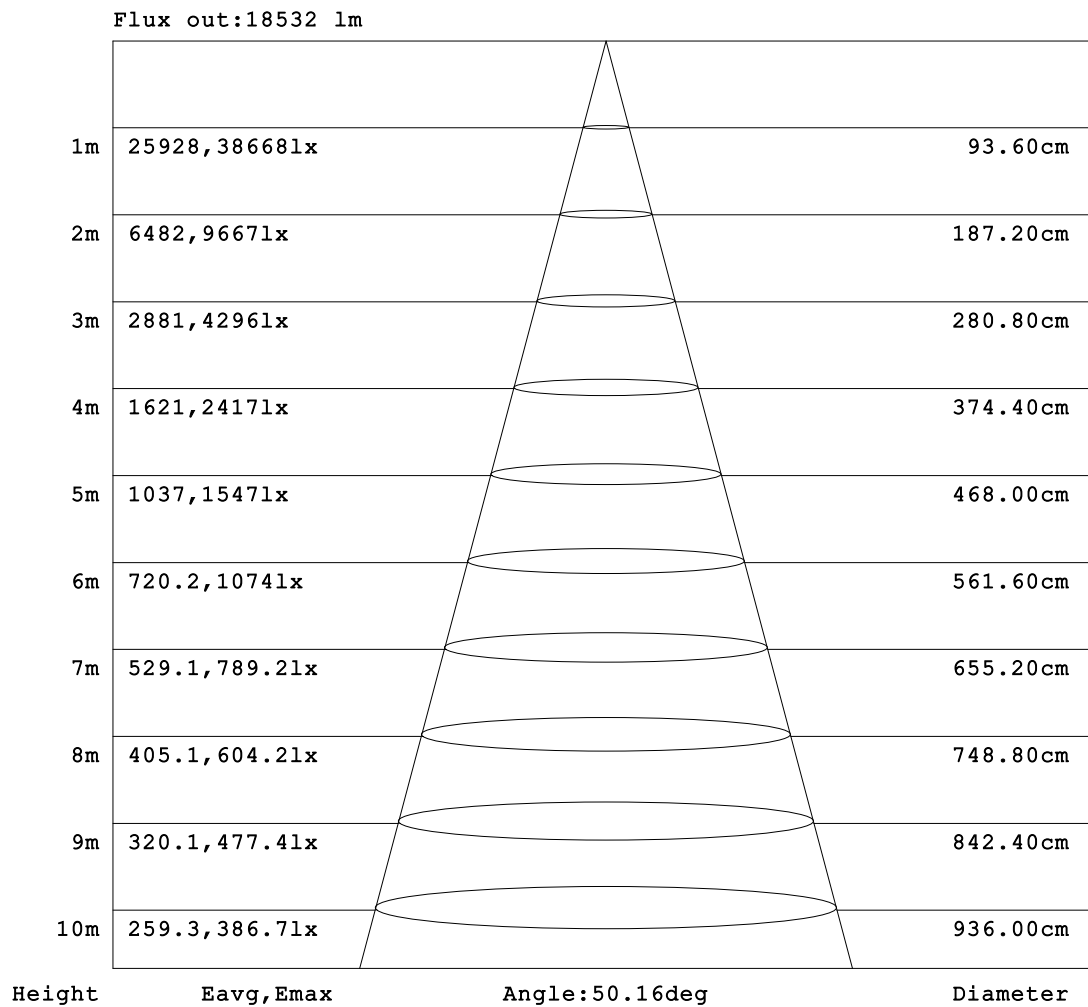


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:31 October 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

AAI Figure

NAME: 98ANTARES400/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 420 x250 x115	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	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: 31 October 2022

V(B) Range:-85 - 85DEG
 V(B) Interval: 2.0DEG
 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: 98ANTARES400/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 420 x250 x115	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

Table--1

UNIT: X10cd

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	0.81	1.50	13.3	13.4	11.9	12.8	17.3	19.9	28.4	27.7	25.9	30.0	30.6	32.9	33.6	31.7	28.1	25.9	25.2
-75	0.82	3.61	23.4	24.0	16.7	19.6	26.8	35.6	42.6	43.3	44.7	46.1	49.6	51.5	51.0	49.8	47.1	44.9	41.6
-70	0.85	8.66	37.2	38.3	22.3	28.4	45.7	57.8	70.5	73.4	80.8	84.3	84.1	84.7	88.4	88.0	86.1	85.0	77.8
-65	0.86	13.1	45.7	40.9	26.8	34.5	58.9	76.2	90.6	98.1	107	109	109	113	121	125	130	132	130
-60	0.89	19.0	59.8	46.0	33.9	45.6	80.8	101	125	134	140	140	150	159	174	184	192	194	195
-55	0.91	23.2	72.2	48.7	39.2	55.1	92.4	115	145	154	160	169	195	214	239	252	268	273	276
-50	0.93	28.7	92.8	52.8	47.9	68.1	104	133	168	184	211	243	306	361	444	492	552	575	587
-45	0.94	32.2	107	55.8	53.7	75.3	111	144	188	215	276	350	484	575	709	790	891	929	954
-40	0.98	36.3	130	64.3	60.3	81.9	119	158	227	283	453	592	795	933	1136	1258	1405	1468	1509
-35	1.00	39.1	145	70.1	64.1	85.5	126	172	269	382	615	769	1000	1154	1385	1529	1701	1778	1827
-30	1.05	42.2	171	84.1	68.6	89.6	136	197	369	553	818	987	1254	1436	1713	1897	2128	2234	2298
-25	1.08	44.4	188	90.6	71.7	93.0	146	222	459	660	929	1114	1402	1600	1908	2119	2411	2547	2618
-20	1.13	46.4	217	98.0	75.3	96.5	158	266	575	774	1055	1262	1575	1785	2128	2379	2810	3001	3077
-15	1.16	49.9	233	92.4	77.8	98.8	168	306	641	835	1125	1339	1652	1853	2194	2486	3069	3273	3341
-10	1.20	51.7	252	88.2	80.1	101	176	353	711	895	1195	1409	1713	1894	2194	2593	3415	3603	3662
-5	1.22	58.4	255	83.4	80.6	102	197	379	741	927	1232	1445	1728	1888	2127	2634	3553	3721	3785
0	1.25	77.3	251	82.5	81.7	103	186	391	747	941	1251	1464	1744	1895	2128	2734	3646	3782	3867
5	1.27	84.5	240	78.7	81.0	103	203	391	753	940	1252	1468	1764	1939	2300	2847	3614	3744	3816
10	1.29	85.9	218	81.2	80.4	102	186	364	724	910	1215	1437	1776	2005	2447	2838	3433	3556	3628
15	1.30	86.5	198	99.4	78.8	102	190	338	686	877	1179	1402	1749	1990	2411	2741	3220	3348	3416
20	1.32	79.9	169	70.9	76.8	99.6	170	281	599	796	1084	1298	1638	1881	2267	2523	2858	2976	3042
25	1.32	75.8	149	62.9	74.0	98.4	162	250	525	728	1004	1204	1521	1744	2097	2325	2596	2699	2756
30	1.34	66.0	125	54.0	70.5	93.7	150	211	393	580	844	1021	1300	1495	1788	1969	2183	2264	2312
35	1.34	56.5	111	49.0	68.8	91.1	146	197	318	464	712	879	1137	1308	1564	1716	1899	1971	2012
40	1.36	46.9	93.7	43.2	64.5	85.1	137	179	240	306	485	623	831	971	1175	1297	1441	1499	1533
45	1.36	43.6	82.7	39.8	60.2	81.4	131	171	220	250	355	456	619	730	888	983	1098	1143	1173
50	1.38	34.2	68.7	35.4	51.9	73.2	116	154	192	206	233	268	343	405	491	542	603	627	645
55	1.39	28.0	59.3	33.0	46.2	66.8	106	140	175	185	198	217	257	287	329	353	383	392	401
60	1.40	21.9	47.3	30.4	37.2	54.7	91.5	112	143	155	160	163	179	190	211	220	225	227	229
65	1.40	16.7	40.2	31.2	32.3	47.0	78.2	96.0	120	132	140	141	149	157	172	179	185	186	186
70	1.41	12.9	32.3	33.5	25.6	36.8	57.6	70.7	82.8	94.8	108	111	114	118	127	129	126	124	123
75	1.41	9.61	27.8	26.8	21.7	29.9	46.3	55.5	63.4	68.7	79.7	85.2	89.9	92.1	94.6	94.0	91.3	86.7	78.3
80	1.41	4.91	16.6	16.5	16.0	19.8	26.6	35.0	36.2	35.3	39.0	43.4	51.5	54.9	52.5	50.4	43.9	40.1	38.1
85	1.41	3.08	9.73	11.0	11.1	13.0	17.2	20.8	23.4	22.6	25.8	27.3	29.4	30.1	30.8	30.1	24.6	22.7	23.3
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:31 October 2022

V(B) Range:-85 - 85DEG

V(B) Interval: 2.0DEG

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: 98ANTARES400/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 420 x250 x115	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

Table--2

UNIT: X10cd

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	25.7	29.0	32.8	36.7	37.1	33.7	32.3	27.9	27.4	29.6	27.6	19.4	15.6	11.9	12.3	13.7	8.94	0.83	
-75	43.1	48.7	51.7	54.9	56.4	53.3	50.0	45.7	44.7	44.1	41.8	28.9	23.0	17.0	16.9	20.7	12.5	0.83	
-70	82.0	88.0	88.7	90.8	88.9	85.7	84.9	82.2	76.9	71.7	66.9	51.1	37.1	23.1	21.8	30.8	20.7	0.84	
-65	131	131	127	123	117	109	107	106	102	91.2	85.5	64.5	46.1	28.0	24.6	38.8	26.5	0.85	
-60	195	192	188	175	164	149	139	137	136	126	111	86.2	62.1	36.7	28.1	51.2	36.1	0.86	
-55	274	266	258	238	222	193	174	156	154	145	130	95.7	72.5	42.5	31.6	59.7	42.5	0.87	
-50	581	553	521	451	398	313	262	208	189	171	151	109	85.3	52.0	37.0	72.8	52.9	0.88	
-45	945	895	839	722	634	496	405	281	226	190	164	117	89.9	57.1	40.6	81.4	59.9	0.86	
-40	1497	1421	1337	1165	1034	823	685	479	347	229	187	127	97.0	64.2	46.2	93.2	71.5	0.84	
-35	1814	1722	1619	1414	1260	1022	866	638	478	278	207	133	100	67.4	49.2	103	78.7	0.87	
-30	2278	2155	2018	1760	1578	1295	1108	847	679	396	255	148	107	72.3	54.2	118	90.0	0.91	
-25	2593	2435	2261	1957	1749	1440	1238	951	773	483	301	157	110	74.9	56.7	131	100	0.94	
-20	3045	2848	2581	2189	1955	1631	1419	1092	895	604	387	182	115	79.3	60.6	148	117	0.98	
-15	3310	3105	2757	2257	2017	1705	1491	1153	947	660	436	187	117	80.3	62.1	159	126	1.01	
-10	3631	3438	3012	2271	2028	1767	1570	1234	1020	733	503	201	119	82.9	64.0	169	140	1.05	
-5	3756	3565	3143	2199	1989	1770	1586	1258	1044	748	524	205	118	82.8	64.3	149	141	1.08	
0	3838	3670	3280	2180	1970	1776	1608	1288	1073	777	546	213	119	83.5	64.9	174	144	1.11	
5	3799	3649	3261	2322	2026	1785	1602	1276	1061	762	538	209	117	82.7	64.4	173	142	1.12	
10	3616	3467	3129	2463	2143	1801	1591	1252	1037	747	516	205	118	82.3	63.9	163	140	1.15	
15	3405	3257	2964	2421	2131	1773	1549	1205	992	707	477	196	118	80.9	62.8	154	136	1.17	
20	3029	2891	2681	2285	2027	1674	1452	1121	916	628	408	188	118	79.1	61.0	136	130	1.18	
25	2740	2618	2451	2117	1884	1550	1337	1031	838	551	349	170	114	76.9	58.8	125	124	1.17	
30	2297	2196	2070	1814	1628	1344	1154	881	705	425	273	156	110	73.4	55.6	106	115	1.20	
35	1998	1910	1803	1586	1423	1169	997	744	578	339	237	148	105	70.8	52.6	96.1	108	1.22	
40	1524	1458	1377	1212	1081	872	731	521	387	252	206	140	99.5	66.8	48.3	81.7	97.4	1.24	
45	1166	1116	1052	921	818	652	540	379	292	225	191	132	94.7	62.3	44.8	74.9	85.5	1.54	
50	643	621	587	515	459	365	307	242	217	194	172	120	89.3	54.8	39.1	64.4	67.1	1.70	
55	401	392	377	341	313	267	238	202	189	176	158	109	83.0	48.5	34.9	58.6	49.0	1.72	
60	230	228	225	215	202	182	170	160	158	147	131	95.8	70.9	39.5	29.3	47.4	33.6	1.74	
65	187	186	182	173	163	150	143	139	136	123	109	82.9	60.1	33.6	26.2	39.3	25.9	1.75	
70	124	125	128	126	120	113	111	107	102	88.3	81.5	62.5	46.2	25.7	26.4	26.3	16.6	1.74	
75	83.5	89.8	91.5	93.6	91.9	88.6	86.2	79.8	74.0	68.2	63.0	49.4	35.3	21.6	21.6	20.2	11.6	1.73	
80	39.0	42.5	46.5	49.0	50.8	48.2	47.1	40.0	38.4	38.6	38.6	25.5	22.2	15.4	14.3	12.4	6.43	1.72	
85	23.1	24.6	28.8	30.3	29.5	28.7	28.6	24.4	23.0	24.7	22.6	16.6	14.1	10.3	9.83	8.72	4.34	1.71	
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:31 October 2022

V(B) Range:-85 - 85DEG

V(B) Interval: 2.0DEG

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

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks: