

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	494.3 cd per klm.
(Luminaire orientation as tested.)	-10.0 degrees vertical
	-8.0 degrees horizontal

Beam Spread	At 10% of Imax	113.6V x 110.1H
	At 50% of Imax	86.5V x 86.5H
	At 90% of Imax	54.8V x 56.5H

Beam Flux	Total	805.7 lumens per klm.
	To 10% of Imax	754.8 lumens per klm.
	To 50% of Imax	595.9 lumens per klm.
	To 90% of Imax	182.9 lumens per klm.

Upward LOR	0.0 %
Downward LOR	80.6 %

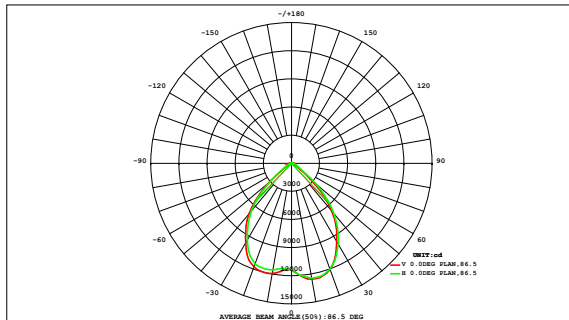
Luminaire Efficiency (Light Output Ratio)	80.6 %
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H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 2.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:28 October 2022

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: 98ANTARES200/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: r445 x165 x185	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98ANTARES200/BL	Imax (cd)	12851
NOMINAL POWER (W)	200	AVAILABILITY (%)	75.5
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	19623
NOMINAL FLUX (lm)	26000	LOR (%)	80.6
LAMPS INSIDE	1	TOTAL FLUX (lm)	20963
TEST VOLTAGE (V)	230	θ @50% (H,V)	87,86DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm			Φ t	Φ a										
	0.07	0.20	0.39	0.75	0.97	1.32	1.51	1.43	1.35	1.34	1.40	1.48	1.29	0.92	0.73	0.38	0.22	0.08	15.8	0.00												
90	0.19	0.58	1.28	2.98	4.17	5.12	6.17	7.08	5.96	5.97	6.92	6.12	4.96	4.01	2.90	1.30	0.70	0.23	66.7	0.00												
80	0.31	0.75	2.00	5.64	7.50	9.15	12.1	15.2	15.6	15.6	15.4	12.4	9.41	7.21	5.40	1.98	0.97	0.35	137	0.00												
70	0.48	0.93	2.90	7.81	9.92	15.1	24.6	35.3	42.1	41.5	34.3	24.3	15.9	10.6	7.41	2.85	1.08	0.53	277	92.4												
60	0.64	1.13	3.74	8.12	15.5	37.8	78.1	119	143	144	121	77.7	36.2	16.1	8.54	3.65	1.30	0.74	816	730												
50	0.78	1.33	4.31	9.61	31.3	91.7	163	216	243	245	221	171	95.7	30.7	10.5	4.36	1.53	0.91	1542	1488												
40	0.92	1.49	4.79	13.1	59.4	148	226	285	317	318	288	232	157	62.1	13.5	4.92	1.75	1.08	2137	2095												
30	1.05	1.60	4.99	17.7	85.8	186	271	335	355	352	334	274	193	92.1	18.3	5.16	1.88	1.25	2530	2494												
-30	1.10	1.65	5.06	21.4	101	204	298	360	361	349	349	298	209	108	22.8	5.24	1.91	1.34	2698	2665												
	1.07	1.65	5.12	21.6	102	205	300	367	377	364	354	300	210	108	23.6	5.25	1.85	1.28	2749	2716												
-40	0.97	1.60	5.15	17.9	88.8	189	276	347	378	372	341	278	194	95.3	20.7	5.18	1.72	1.14	2615	2580												
	0.82	1.48	5.02	13.6	62.8	155	233	296	333	332	296	237	160	69.2	15.4	4.95	1.52	0.96	2218	2179												
-50	0.69	1.31	4.69	10.6	33.4	98.5	172	227	256	257	229	177	106	38.5	11.1	4.56	1.31	0.80	1630	1579												
	0.56	1.11	4.38	9.01	17.6	41.8	87.2	133	157	158	136	93.3	47.3	18.7	8.62	4.16	1.12	0.63	919	842												
-60	0.39	0.89	3.61	8.47	11.4	18.3	28.9	42.7	52.5	53.9	45.4	31.0	18.4	10.9	7.80	3.49	0.93	0.44	340	165												
	0.26	0.72	2.34	6.70	8.43	10.9	14.8	18.3	18.6	18.3	17.6	14.2	10.6	7.93	6.53	2.34	0.85	0.27	160	0.00												
-70	0.16	0.57	1.45	3.40	5.28	6.66	8.45	10.4	8.78	8.63	10.2	8.51	6.58	5.12	3.41	1.48	0.67	0.18	89.9	0.00												
	0.07	0.23	0.54	1.04	1.30	1.81	2.14	2.12	1.93	1.90	2.16	2.26	1.92	1.29	1.03	0.56	0.26	0.09	22.7	0.00												
-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)																	20	30	40	50	60	70	80	90
Φ t	10.5	19.2	61.7	179	646	1425	2205	2819	3067	3038	2803	2238	1479	687	188	61.8	21.6	12.3	20963	---												
Φ a	0.00	0.00	0.00	42.6	544	1337	2118	2733	2985	2959	2718	2153	1392	588	53.0	0.00	0.00	0.00	---		19623											

one-half-peak spread: U:33.7,D:29.0 , L:30.9,R:29.9

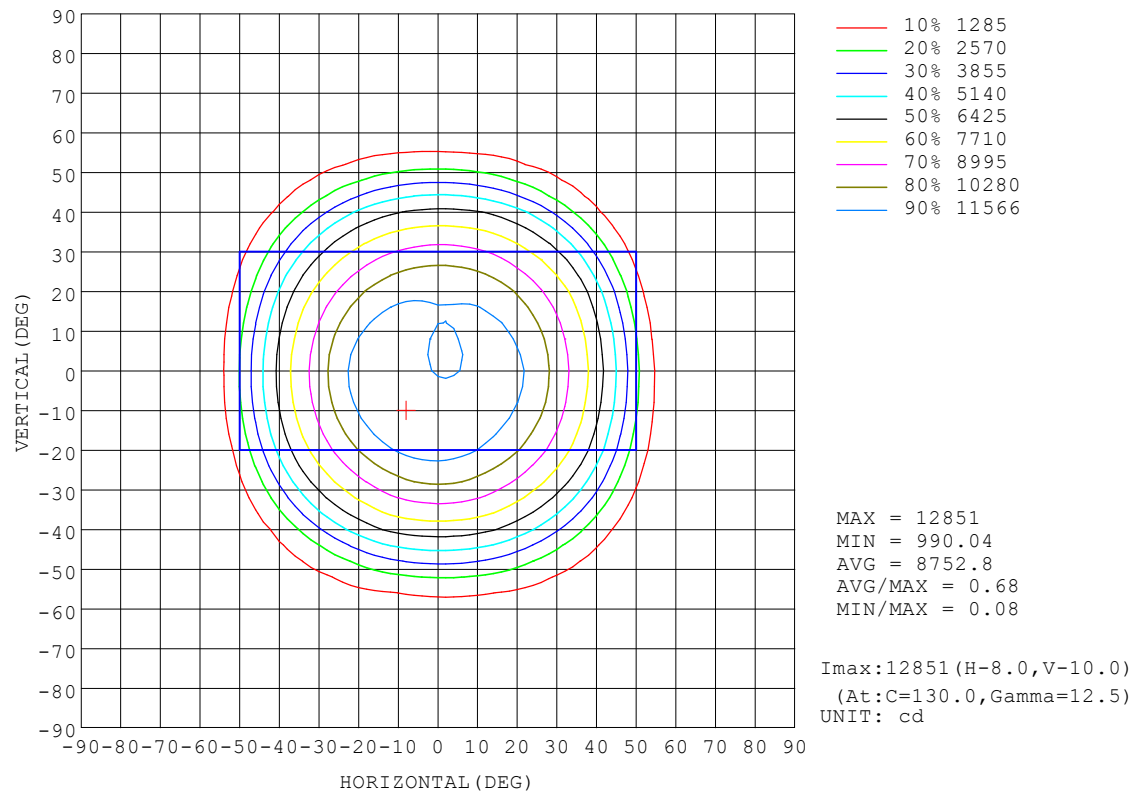
NEMA Beam Type: Type 6

H(β) Range:-90 - 90DEG  
H(β) Interval: 2.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:28 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: 98ANTARES200/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: r445 x165 x185	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:

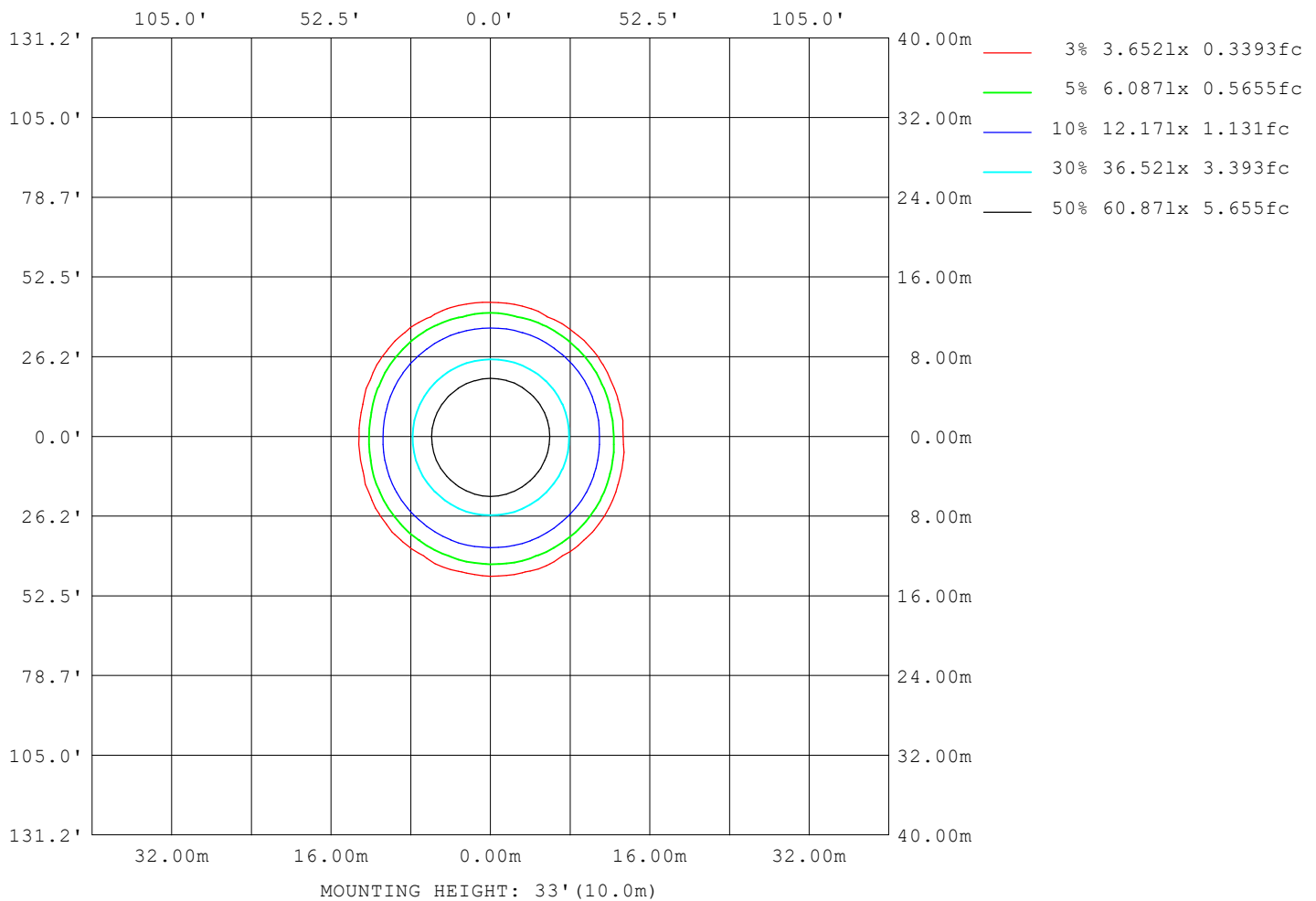


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 2.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:28 October 2022

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

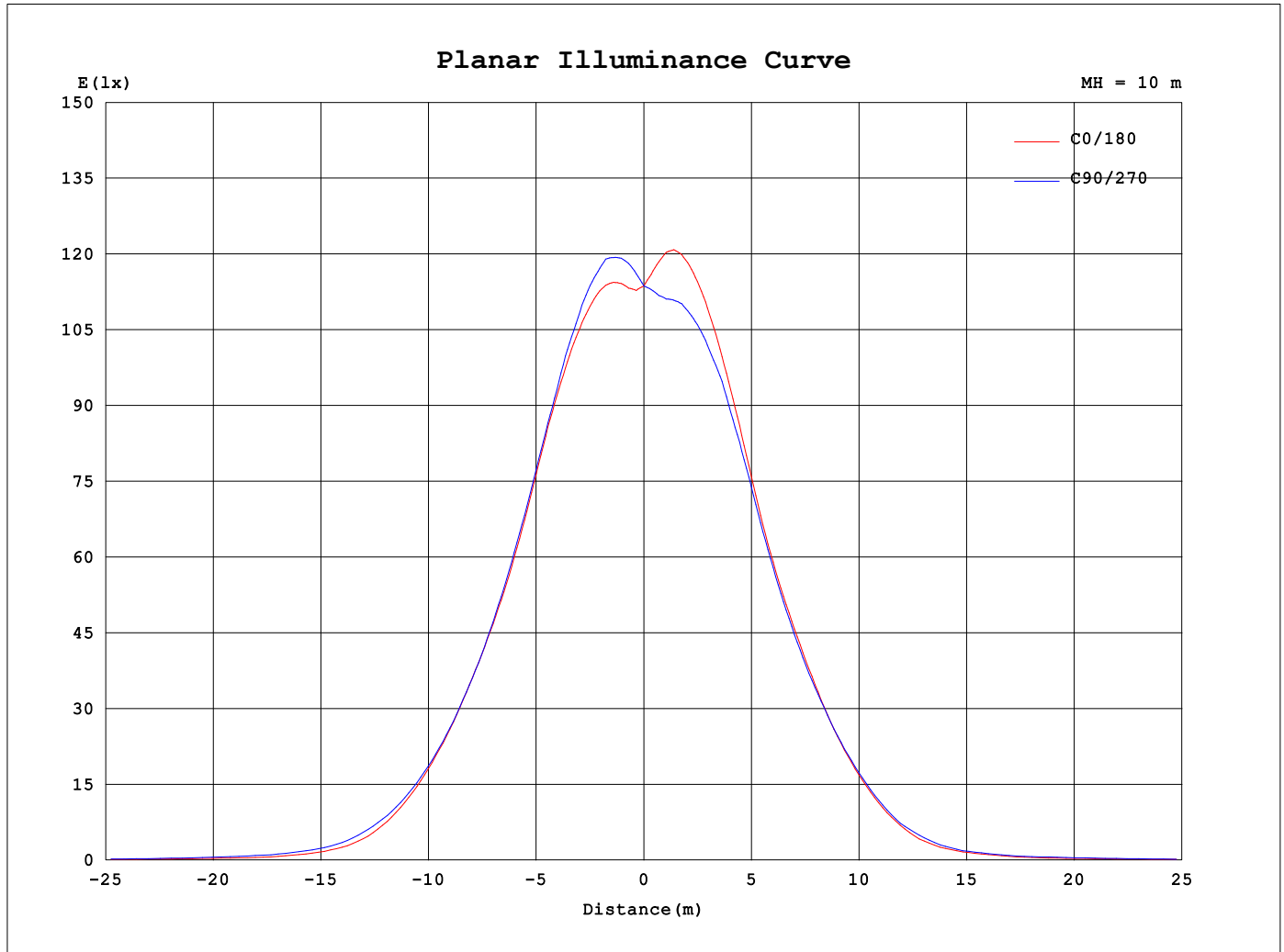
NAME: 98ANTARES200/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: r445 x165 x185	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: parallelepiped	Shielding Angle:



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 2.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:28 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

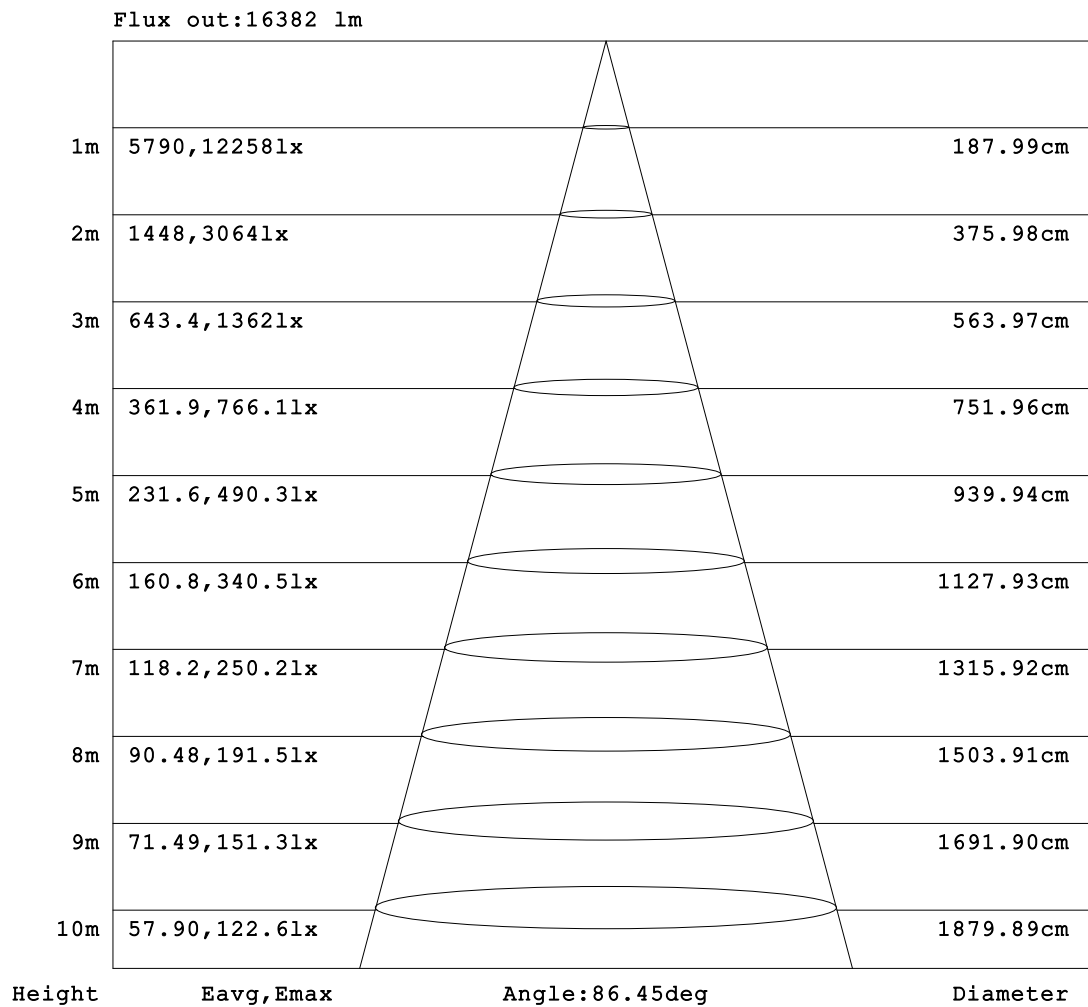


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 2.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:28 October 2022

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: 98ANTARES200/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: r445 x165 x185	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( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 2.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 28 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: 98ANTARES200/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: r445 x165 x185	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	0.25	2.41	6.73	5.67	6.22	8.11	10.8	13.3	13.6	13.9	15.7	17.0	17.1	18.2	19.5	18.9	16.6	15.4	14.2
-75	0.26	2.73	7.78	7.42	7.39	9.64	14.5	17.6	20.0	21.8	24.7	25.0	26.1	28.0	31.5	33.4	30.3	26.2	24.6
-70	0.26	3.33	8.68	9.12	8.79	12.8	20.5	25.5	33.4	34.5	33.2	35.0	37.9	40.6	45.5	49.1	49.1	44.8	39.3
-65	0.27	4.08	10.00	8.52	10.3	15.0	25.8	35.5	40.4	38.2	38.7	41.1	45.2	49.0	55.5	58.9	59.1	58.1	56.7
-60	0.28	5.41	12.8	9.73	12.7	18.7	37.4	48.6	44.2	43.3	48.4	51.7	61.4	69.4	77.7	82.0	84.9	86.1	87.8
-55	0.28	6.96	14.4	9.81	14.4	21.8	44.2	50.9	46.4	49.4	57.1	65.7	81.2	91.3	107	117	129	136	143
-50	0.29	9.05	16.9	10.8	17.0	26.0	47.3	49.1	53.2	61.5	79.5	95.3	126	156	214	254	300	320	334
-45	0.30	11.4	17.9	11.9	18.9	28.6	47.2	48.8	59.3	71.8	102	134	206	265	355	406	458	479	492
-40	0.31	13.6	20.0	13.3	21.4	30.9	46.0	51.2	70.4	93.9	161	238	373	460	567	622	677	697	709
-35	0.32	15.1	21.4	14.2	22.9	32.6	46.7	54.7	82.6	120	237	340	496	584	686	739	797	817	830
-30	0.33	16.7	24.4	15.2	24.6	34.7	48.5	60.2	105	178	362	489	652	734	831	885	951	979	997
-25	0.34	17.4	25.8	16.0	25.8	36.0	49.9	65.5	129	235	444	576	732	811	914	974	1045	1077	1094
-20	0.35	20.9	29.0	16.8	27.2	37.3	52.0	77.7	169	313	543	676	827	912	1031	1096	1167	1194	1203
-15	0.36	23.2	29.9	17.4	28.2	38.0	53.3	82.7	201	360	592	727	876	967	1095	1159	1227	1245	1237
-10	0.37	25.1	32.2	17.7	29.1	38.4	54.1	89.8	238	408	643	777	930	1035	1168	1226	1280	1280	1246
-5	0.38	26.6	32.2	18.1	29.6	38.7	55.3	94.6	255	429	664	797	953	1063	1193	1245	1281	1266	1212
0	0.39	28.0	34.0	18.1	29.7	38.7	55.2	96.2	261	436	673	806	964	1077	1202	1245	1255	1224	1137
5	0.40	28.7	33.8	18.2	29.7	38.6	54.7	95.8	256	430	666	799	955	1066	1189	1229	1240	1208	1127
10	0.40	28.0	35.2	17.7	28.9	38.0	52.0	89.1	230	399	633	766	920	1022	1143	1190	1219	1200	1153
15	0.41	28.0	34.0	17.5	28.3	37.5	50.9	83.4	208	367	599	731	883	975	1096	1148	1187	1183	1161
20	0.41	24.0	33.5	16.6	26.9	36.3	48.7	75.1	165	297	523	655	808	889	1003	1062	1119	1137	1143
25	0.42	19.5	31.6	16.1	26.0	35.3	47.5	65.0	140	247	459	588	742	822	924	982	1046	1070	1085
30	0.42	18.4	29.2	15.1	24.2	33.1	45.1	55.1	102	169	340	463	622	704	800	850	906	930	947
35	0.43	16.7	26.9	14.4	23.0	31.1	43.5	51.2	82.6	131	258	366	521	606	705	755	807	828	841
40	0.43	13.5	24.8	13.2	20.5	27.8	42.0	46.1	61.4	84.7	149	219	344	426	532	585	636	657	671
45	0.44	12.4	23.2	12.3	18.9	25.6	41.5	44.7	54.7	68.2	107	148	231	295	387	440	493	515	529
50	0.44	9.78	20.9	11.0	16.2	21.9	40.3	46.4	46.7	52.6	66.0	81.2	112	138	182	212	250	267	278
55	0.45	8.38	18.8	10.3	14.5	19.5	37.7	47.1	43.0	46.2	53.3	60.0	76.8	90.5	112	125	140	147	151
60	0.45	7.75	15.7	9.32	12.1	15.8	28.9	41.8	42.8	38.1	41.2	43.7	48.6	53.6	61.6	64.8	66.4	67.8	69.0
65	0.46	5.38	13.5	9.06	10.7	13.9	23.9	32.9	38.8	36.6	35.6	38.0	41.0	44.4	50.8	54.0	55.0	55.6	55.6
70	0.46	3.61	10.8	9.28	8.89	11.3	17.8	22.4	26.6	28.8	28.3	27.9	30.0	32.1	36.9	39.8	37.3	33.1	31.2
75	0.46	3.12	10.1	7.76	7.97	9.75	13.5	18.0	20.2	21.0	22.7	22.6	21.9	23.0	25.5	26.7	23.7	21.3	20.6
80	0.46	2.52	7.96	5.87	5.81	6.56	9.77	10.9	11.4	10.3	11.5	13.9	13.7	15.0	14.4	13.3	11.6	10.7	10.2
85	0.46	2.30	6.05	5.18	4.60	5.01	6.65	7.34	7.67	7.56	10.1	9.89	9.02	9.36	9.24	8.73	7.60	8.05	8.40
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:28 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: 98ANTARES200/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: r445 x165 x185	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	14.6	16.3	18.4	20.5	19.9	18.3	18.3	16.2	14.0	13.4	13.5	11.2	9.55	6.82	6.29	8.01	5.26	0.24	
-75	25.0	29.6	32.8	31.8	29.5	26.1	24.9	24.0	22.9	19.6	18.2	14.5	11.2	7.91	7.48	9.50	5.92	0.24	
-70	41.3	47.5	48.6	44.9	41.6	37.3	35.0	31.8	31.3	33.2	29.1	20.5	15.4	9.52	10.4	10.4	7.82	0.25	
-65	56.6	57.3	57.4	53.4	49.4	43.6	41.1	37.9	35.5	37.6	38.4	26.0	18.0	10.8	12.0	10.6	9.82	0.25	
-60	87.1	84.6	82.1	75.7	69.9	59.1	52.9	46.6	43.2	39.1	44.8	38.3	23.3	13.1	10.6	12.9	13.9	0.26	
-55	143	137	129	113	100	81.3	69.2	55.0	49.4	43.3	42.9	42.5	27.3	14.7	11.4	15.1	17.1	0.26	
-50	332	311	287	235	197	143	115	80.8	64.5	50.9	45.4	43.8	33.2	17.1	12.9	17.9	23.1	0.27	
-45	488	465	438	372	319	231	176	112	82.9	57.4	48.9	43.5	34.5	18.6	13.8	19.8	26.5	0.28	
-40	704	680	651	579	517	401	315	192	128	72.4	55.3	43.7	36.0	21.1	15.5	22.0	30.7	0.29	
-35	825	799	768	696	634	518	423	268	176	89.5	61.6	45.5	36.9	22.4	16.3	24.4	32.8	0.29	
-30	989	955	917	842	782	671	575	399	269	125	75.7	48.3	39.0	24.3	17.8	27.9	36.2	0.31	
-25	1086	1044	1003	924	858	747	655	474	335	153	87.4	49.7	39.9	25.2	18.5	31.8	38.0	0.32	
-20	1194	1156	1115	1036	964	845	753	576	428	201	109	52.8	41.1	26.9	19.6	37.8	40.9	0.33	
-15	1229	1201	1164	1089	1018	891	798	621	473	230	120	54.2	41.4	27.9	20.1	43.2	42.2	0.34	
-10	1240	1235	1212	1149	1085	948	848	676	527	269	136	56.2	41.9	29.1	20.6	49.1	44.2	0.35	
-5	1211	1224	1215	1167	1109	967	865	692	543	280	140	55.8	41.8	29.3	20.7	53.4	44.5	0.36	
0	1141	1192	1201	1174	1125	980	877	707	556	291	142	55.1	42.1	29.7	20.9	56.6	45.4	0.37	
5	1136	1187	1195	1165	1113	969	868	698	546	280	136	53.9	41.9	29.4	20.8	59.1	44.9	0.38	
10	1158	1187	1182	1137	1075	939	844	671	520	255	124	53.2	41.8	28.8	20.5	59.7	44.9	0.38	
15	1164	1172	1157	1097	1029	901	811	633	480	223	110	52.3	41.5	27.9	20.2	59.3	43.5	0.39	
20	1140	1122	1092	1016	945	832	747	562	406	182	91.8	51.5	41.1	26.6	19.5	54.9	41.9	0.39	
25	1080	1052	1017	938	876	771	683	491	337	139	83.2	50.5	40.2	25.3	18.9	50.5	40.2	0.39	
30	943	916	886	818	765	661	559	362	227	99.0	68.4	48.8	38.6	23.5	17.8	43.4	37.8	0.40	
35	838	816	790	726	670	551	443	263	160	84.5	62.6	46.5	36.2	22.1	16.9	39.7	35.7	0.40	
40	669	649	621	552	486	355	260	142	98.5	66.8	55.4	42.4	32.4	20.1	15.7	34.4	32.8	0.41	
45	524	499	467	394	330	224	163	103	80.1	59.9	50.9	40.1	30.1	18.6	14.5	31.4	30.6	0.41	
50	273	247	221	172	140	104	88.8	70.7	61.5	50.7	44.7	38.2	26.5	16.4	13.0	26.6	26.8	0.42	
55	147	135	125	107	94.8	78.6	67.7	57.7	52.0	44.7	44.1	35.8	23.4	14.8	12.0	23.1	21.9	0.42	
60	69.0	68.1	68.3	64.6	60.0	52.2	48.2	43.3	40.1	39.9	41.4	28.7	18.9	12.6	11.1	18.5	14.0	0.43	
65	55.6	55.7	55.8	51.8	47.8	42.6	40.4	36.3	33.9	36.2	34.8	23.4	16.4	11.1	12.4	16.0	13.0	0.44	
70	31.6	36.7	39.5	36.5	33.7	30.0	28.2	26.9	26.9	25.9	23.4	17.7	13.2	9.30	9.85	14.1	9.72	0.45	
75	20.7	23.6	25.9	25.3	23.8	21.7	21.3	21.6	20.6	19.9	18.7	13.6	11.1	8.34	8.31	12.7	7.82	0.45	
80	10.5	11.7	12.2	13.6	14.6	13.0	13.3	10.8	10.1	11.2	11.4	9.45	7.38	6.22	6.16	9.35	5.92	0.46	
85	8.09	7.56	8.11	9.10	9.28	8.78	9.33	9.31	8.02	7.35	7.46	6.39	5.36	4.64	4.73	6.94	4.86	0.46	
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:28 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: