

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	517.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	5.0 degrees horizontal

Beam Spread	At 10% of Imax	104.2V x 102.6H
	At 50% of Imax	94.5V x 95.3H
	At 90% of Imax	63.0V x 64.4H

Beam Flux	Total	970.1 lumens per klm.
	To 10% of Imax	952.3 lumens per klm.
	To 50% of Imax	904.5 lumens per klm.
	To 90% of Imax	482.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	97.0 %

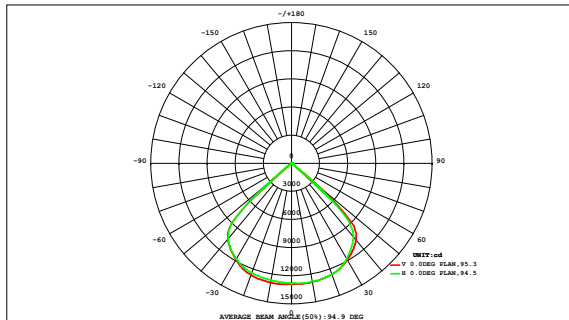
Luminaire Efficiency (Light Output Ratio)	97.0 %
---	--------

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 26 August 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: 98EOS200/BL	TYPE: 98EOS200/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 375 x 250	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Sphere 24 mm	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98EOS200/BL	Imax (cd)	12949
NOMINAL POWER (W)	200	AVAILABILITY (%)	95.3
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	23814
NOMINAL FLUX (lm)	25000	LOR (%)	97.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	24244
TEST VOLTAGE (V)	230	θ @50% (H,V)	95,94DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm				Φ t	Φ a
	0.02	0.10	0.20	0.29	0.39	0.50	0.59	0.60	0.58	0.58	0.60	0.59	0.50	0.38	0.28	0.19	0.10	0.02	6.53	0.00		
90	0.03	0.16	0.38	0.60	0.84	1.09	1.30	1.41	1.47	1.47	1.40	1.29	1.09	0.84	0.59	0.37	0.16	0.03	14.5	0.00		
80	0.04	0.23	0.55	0.93	1.36	1.81	2.26	2.62	2.82	2.81	2.59	2.24	1.79	1.34	0.91	0.53	0.22	0.04	25.1	0.00		
70	0.05	0.29	0.72	1.29	2.00	2.98	5.07	12.1	20.0	19.8	11.9	4.85	2.92	1.96	1.25	0.70	0.28	0.05	88.2	27.2		
60	0.06	0.35	0.90	1.73	3.21	17.1	96.5	190	240	239	187	91.8	13.8	3.11	1.67	0.87	0.34	0.06	1089	1051		
50	0.06	0.40	1.09	2.33	14.4	146	273	319	339	338	316	267	140	11.2	2.24	1.05	0.39	0.06	2170	2147		
40	0.07	0.45	1.27	3.29	78.0	249	312	349	368	368	347	307	242	74.0	3.15	1.23	0.44	0.07	2703	2687		
30	0.07	0.48	1.41	5.36	144	274	328	364	380	380	364	325	268	138	5.04	1.40	0.49	0.07	2981	2965		
-30	0.07	0.50	1.50	10.4	176	282	337	372	387	385	371	335	278	167	7.70	1.52	0.51	0.08	3113	3098		
	0.07	0.50	1.50	11.5	178	279	335	371	387	390	376	339	280	170	9.01	1.54	0.52	0.08	3130	3116		
	0.07	0.48	1.41	5.65	143	269	327	366	384	386	369	329	270	139	5.81	1.47	0.50	0.07	2998	2983		
	0.07	0.45	1.27	3.13	70.2	243	308	349	370	371	349	308	241	68.3	3.35	1.32	0.47	0.07	2686	2667		
	0.06	0.40	1.09	2.28	13.4	132	263	312	333	334	313	263	130	13.6	2.42	1.14	0.42	0.06	2116	2092		
-40	0.06	0.35	0.90	1.73	3.08	13.9	83.3	177	222	222	178	83.5	14.4	3.28	1.81	0.95	0.36	0.06	1007	968		
-50	0.05	0.29	0.72	1.30	2.03	3.02	4.54	8.27	14.6	14.6	8.49	4.76	3.10	2.09	1.36	0.76	0.30	0.05	70.3	14.4		
-60	0.04	0.22	0.55	0.94	1.40	1.88	2.33	2.69	2.90	2.92	2.72	2.36	1.91	1.43	0.98	0.58	0.23	0.04	26.1	0.00		
-70	0.03	0.16	0.37	0.60	0.86	1.14	1.35	1.48	1.56	1.56	1.49	1.36	1.15	0.88	0.63	0.39	0.16	0.03	15.2	0.00		
-80	0.02	0.09	0.18	0.27	0.37	0.48	0.57	0.58	0.56	0.56	0.59	0.57	0.48	0.37	0.28	0.19	0.09	0.02	6.27	0.00		
-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)						20	30	40	50	60	70	80	90	
Φ t	0.94	5.90	16.0	53.6	832	1918	2681	3199	3455	3456	3200	2666	1889	798	48.5	16.2	5.98	0.95	24244	---		
Φ a	0.00	0.00	0.00	14.2	794	1888	2653	3171	3428	3429	3172	2638	1859	760	6.30	0.00	0.00	0.00	---	23814		

one-half-peak spread: U:39.4,D:47.6 , L:42.9,R:42.5

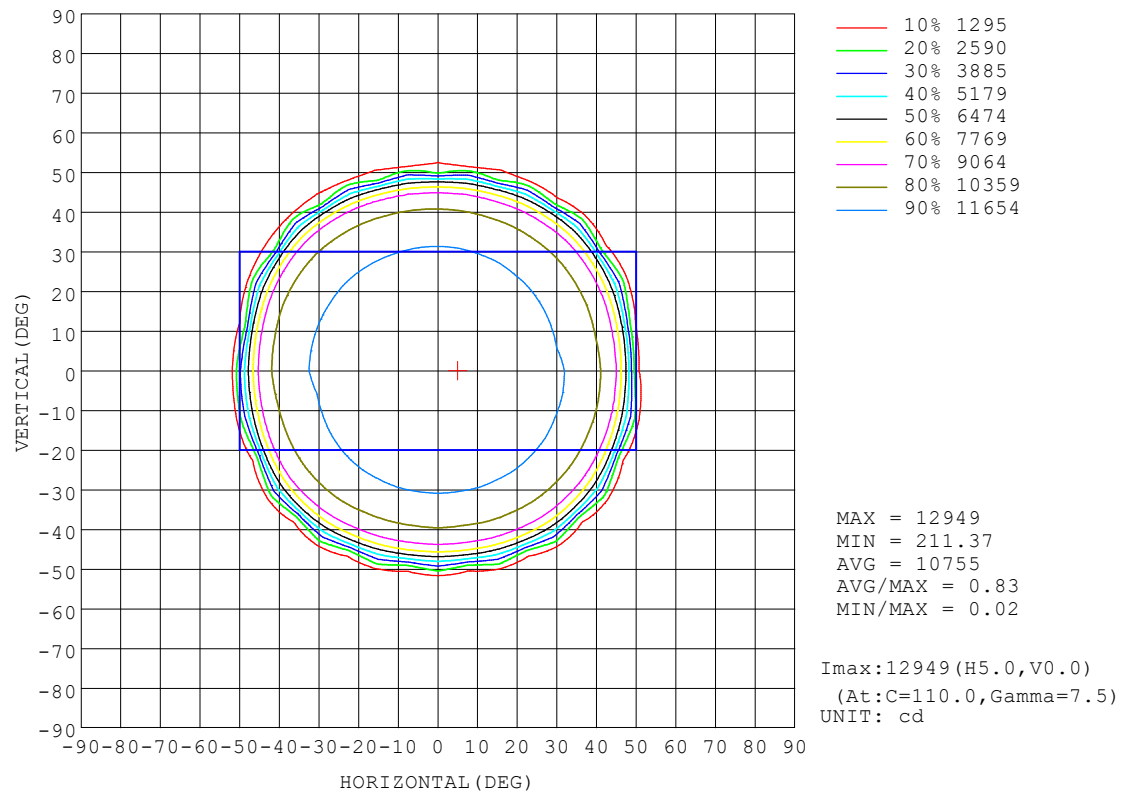
NEMA Beam Type: Type 6

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:26 August 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: 98EOS200/BL	TYPE: 98EOS200/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 375 x 250	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Sphere 24 mm	Shielding Angle:

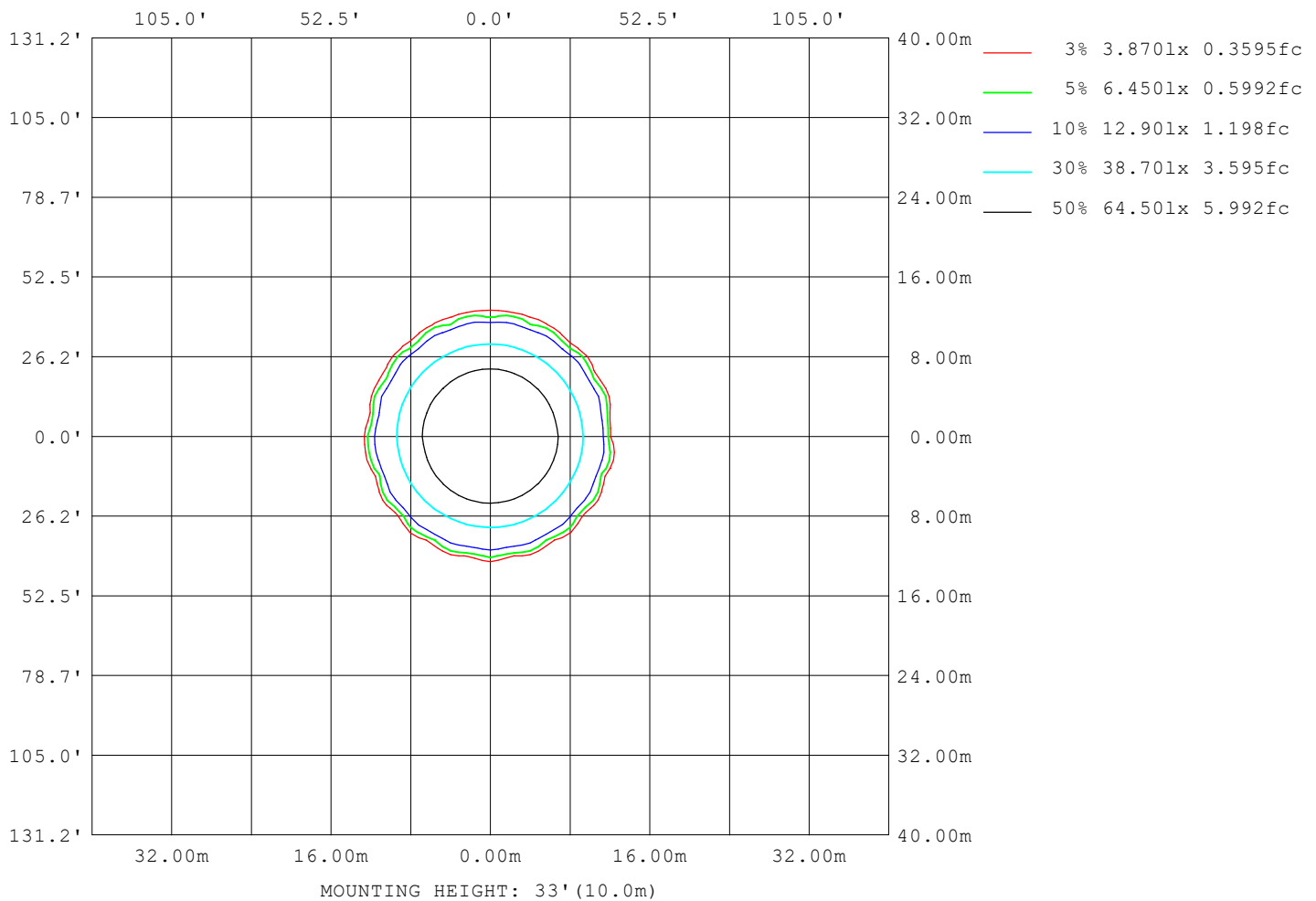


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:26 August 2022

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:

**ISOLUX DIAGRAM**

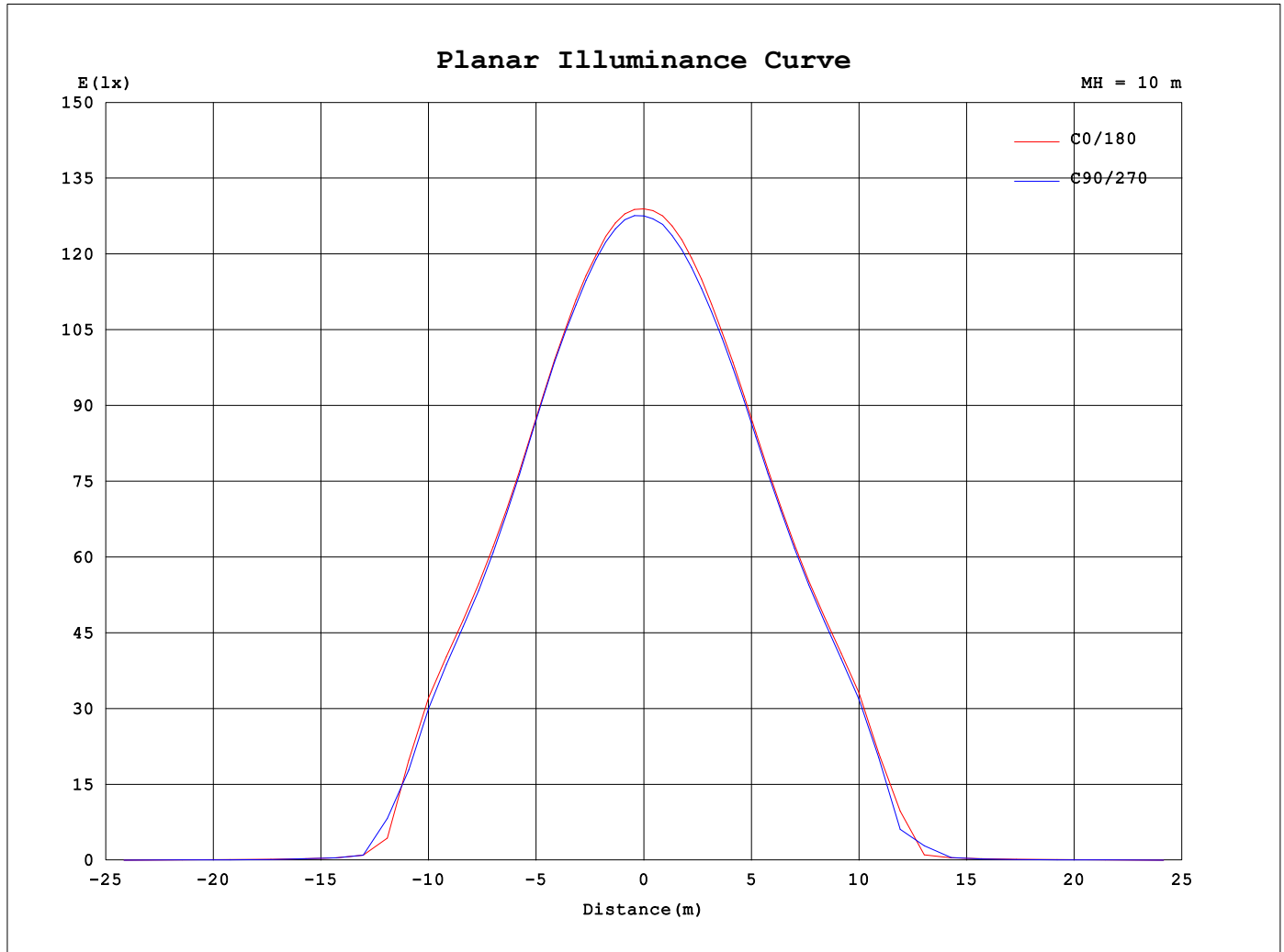
NAME: 98EOS200/BL	TYPE: 98EOS200/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 375 x 250	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Sphere 24 mm	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 26 August 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:

# Planar Illuminance Curve

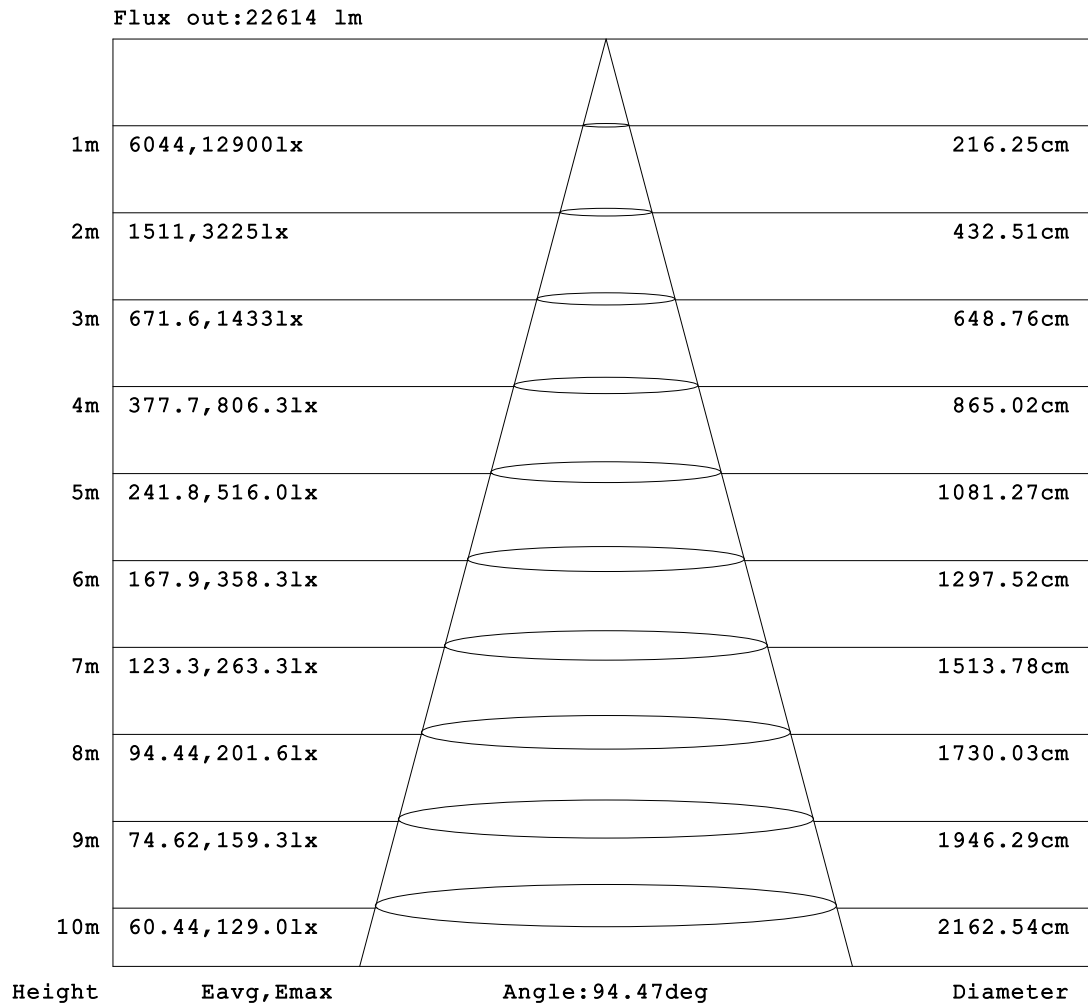


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 26 August 2022

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: 98EOS200/BL	TYPE: 98EOS200/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 375 x 250	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Sphere 24 mm	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: 26 August 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: 98EOS200/BL	TYPE: 98EOS200/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 375 x 250	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Sphere 24 mm	Shielding Angle:

Table--1

UNIT: X10cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.65	0.70	0.76	0.76	0.76	0.75	0.74	0.71	0.69	0.67	0.65	0.65	0.65	0.62	0.59	0.58	0.56	0.50	0.44
-85	0.65	0.82	0.98	1.14	1.32	1.41	1.48	1.55	1.59	1.69	1.79	1.93	2.07	2.10	2.10	1.98	1.83	1.76	1.68
-80	0.65	0.94	1.20	1.51	1.91	2.15	2.36	2.48	2.58	2.83	3.08	3.27	3.44	3.48	3.50	3.45	3.38	3.43	3.46
-75	0.65	1.05	1.41	1.92	2.52	2.89	3.21	3.45	3.69	4.00	4.30	4.55	4.75	4.88	4.96	5.00	5.01	5.12	5.20
-70	0.65	1.17	1.66	2.32	3.08	3.60	4.02	4.42	4.80	5.21	5.61	5.95	6.24	6.48	6.67	6.80	6.87	6.97	7.03
-65	0.65	1.28	1.90	2.74	3.61	4.27	4.83	5.39	5.91	6.44	7.00	7.50	7.95	8.34	8.75	9.03	9.19	9.34	9.40
-60	0.65	1.38	2.13	3.14	4.12	4.92	5.64	6.35	7.07	7.80	8.54	9.31	10.0	10.8	11.5	12.2	12.7	13.2	13.4
-55	0.65	1.49	2.40	3.53	4.63	5.56	6.46	7.37	8.35	9.33	10.5	11.7	13.0	14.8	18.0	21.1	22.6	24.2	25.1
-50	0.65	1.60	2.65	3.90	5.13	6.21	7.35	8.53	9.81	11.2	12.9	16.4	20.6	27.6	38.7	135	171	215	311
-45	0.65	1.69	2.89	4.27	5.63	6.90	8.29	9.78	11.5	13.6	17.2	25.7	69.0	216	460	650	755	823	849
-40	0.65	1.78	3.11	4.62	6.12	7.63	9.20	11.2	13.6	17.6	29.7	130	497	759	903	973	1002	1021	1030
-35	0.65	1.86	3.31	4.96	6.62	8.31	10.2	12.7	16.3	26.3	164	563	887	987	1037	1070	1092	1104	1109
-30	0.65	1.93	3.50	5.26	7.07	8.98	11.3	14.4	20.8	67.6	531	901	1008	1066	1106	1135	1158	1172	1177
-25	0.65	1.99	3.65	5.52	7.47	9.59	12.4	16.5	28.6	207	801	1004	1071	1118	1158	1189	1213	1227	1233
-20	0.65	2.04	3.78	5.74	7.80	10.2	13.4	18.5	40.7	491	947	1054	1112	1159	1199	1229	1247	1256	1261
-15	0.65	2.08	3.88	5.91	8.07	10.6	14.3	21.4	138	719	1009	1086	1140	1188	1226	1249	1263	1271	1274
-10	0.65	2.10	3.95	6.04	8.28	11.0	15.1	23.5	266	834	1036	1106	1160	1207	1240	1260	1271	1277	1282
-5	0.65	2.12	3.99	6.12	8.42	11.2	15.7	24.9	339	908	1058	1122	1174	1215	1245	1261	1272	1278	1283
0	0.65	2.13	4.00	6.15	8.49	11.3	16.1	25.5	367	937	1073	1138	1191	1235	1260	1277	1287	1291	1290
5	0.65	2.12	3.99	6.11	8.41	11.2	15.7	25.1	273	913	1067	1133	1185	1226	1253	1267	1274	1276	1273
10	0.65	2.11	3.94	6.03	8.26	11.0	15.2	24.0	167	846	1052	1121	1172	1214	1242	1256	1263	1265	1266
15	0.65	2.08	3.87	5.89	8.05	10.6	14.4	22.0	112	742	1029	1103	1152	1193	1224	1242	1252	1254	1257
20	0.65	2.04	3.77	5.71	7.77	10.2	13.5	19.1	47.3	573	971	1074	1126	1167	1200	1222	1236	1242	1246
25	0.65	2.00	3.64	5.48	7.43	9.57	12.4	17.0	32.5	304	827	1027	1091	1133	1164	1189	1207	1217	1222
30	0.65	1.94	3.49	5.21	7.04	8.97	11.4	14.8	22.3	106	499	933	1037	1088	1122	1146	1163	1175	1179
35	0.65	1.87	3.31	4.90	6.59	8.30	10.4	12.9	17.0	38.8	186	636	927	1017	1064	1093	1111	1122	1125
40	0.65	1.80	3.11	4.57	6.10	7.63	9.30	11.2	13.8	18.6	42.2	210	506	813	950	1006	1032	1048	1053
45	0.65	1.71	2.90	4.23	5.61	6.94	8.31	9.76	11.5	13.8	18.5	36.9	122	296	552	719	824	884	900
50	0.65	1.62	2.67	3.88	5.11	6.26	7.35	8.45	9.69	11.2	13.1	16.0	23.0	37.6	79.0	158	249	300	231
55	0.65	1.52	2.42	3.53	4.63	5.58	6.44	7.31	8.22	9.19	10.3	11.5	13.1	15.4	17.8	22.4	25.8	27.7	28.1
60	0.65	1.42	2.16	3.16	4.14	4.92	5.59	6.27	6.95	7.62	8.28	9.01	9.86	10.7	11.4	12.2	12.8	13.2	13.2
65	0.65	1.32	1.95	2.78	3.65	4.28	4.79	5.29	5.79	6.26	6.75	7.20	7.67	8.09	8.47	8.73	8.92	9.01	8.98
70	0.65	1.21	1.73	2.39	3.14	3.62	3.99	4.36	4.70	5.05	5.37	5.69	5.97	6.19	6.34	6.47	6.54	6.61	6.62
75	0.65	1.10	1.50	2.01	2.62	2.95	3.21	3.44	3.65	3.91	4.14	4.36	4.56	4.66	4.72	4.76	4.76	4.82	4.85
80	0.65	0.98	1.28	1.63	2.05	2.26	2.44	2.54	2.63	2.83	3.04	3.23	3.39	3.41	3.40	3.36	3.29	3.33	3.36
85	0.65	0.86	1.06	1.25	1.47	1.55	1.60	1.67	1.71	1.79	1.88	2.04	2.20	2.20	2.17	2.09	1.99	1.89	1.78
90	0.65	0.74	0.84	0.86	0.88	0.86	0.85	0.82	0.79	0.78	0.77	0.77	0.78	0.75	0.72	0.70	0.68	0.60	0.52

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:26 August 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: 98EOS200/BL	TYPE: 98EOS200/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 375 x 250	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Sphere 24 mm	Shielding Angle:

Table--2

UNIT: X10cd

H (DEG) V (DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	0.51	0.57	0.58	0.58	0.61	0.64	0.64	0.64	0.65	0.66	0.70	0.73	0.74	0.76	0.76	0.77	0.69	0.61	
-85	1.78	1.86	1.99	2.10	2.08	2.05	1.92	1.78	1.68	1.59	1.56	1.50	1.43	1.34	1.15	0.99	0.81	0.61	
-80	3.44	3.41	3.49	3.55	3.53	3.48	3.31	3.11	2.86	2.63	2.56	2.45	2.23	1.97	1.54	1.22	0.93	0.61	
-75	5.13	5.03	5.04	5.00	4.92	4.79	4.60	4.36	4.09	3.79	3.58	3.35	3.01	2.61	1.97	1.44	1.05	0.61	
-70	7.00	6.92	6.86	6.73	6.53	6.29	6.02	5.69	5.32	4.95	4.60	4.22	3.77	3.21	2.39	1.69	1.16	0.61	
-65	9.37	9.25	9.11	8.84	8.43	8.04	7.59	7.12	6.59	6.10	5.62	5.08	4.49	3.77	2.82	1.94	1.27	0.61	
-60	13.3	13.0	12.5	11.8	11.0	10.2	9.47	8.70	7.98	7.31	6.64	5.93	5.18	4.32	3.22	2.17	1.38	0.61	
-55	24.8	23.4	21.3	18.0	15.6	13.5	12.0	10.7	9.58	8.64	7.73	6.80	5.87	4.84	3.63	2.45	1.50	0.61	
-50	211	168	137	41.6	30.1	21.7	16.5	13.5	11.6	10.2	8.90	7.71	6.57	5.36	4.02	2.71	1.60	0.61	
-45	823	757	652	461	215	72.7	28.0	18.5	14.4	12.0	10.2	8.66	7.27	5.89	4.40	2.96	1.71	0.61	
-40	1021	1004	975	904	756	494	132	32.1	19.0	14.4	11.7	9.65	7.97	6.40	4.76	3.19	1.80	0.61	
-35	1104	1092	1071	1038	986	877	551	163	28.4	17.6	13.4	10.7	8.66	6.90	5.11	3.41	1.89	0.61	
-30	1172	1159	1136	1106	1066	1003	883	514	69.5	22.4	15.3	11.8	9.35	7.37	5.43	3.60	1.96	0.61	
-25	1228	1214	1192	1161	1120	1070	994	778	202	30.7	17.6	12.9	9.97	7.77	5.71	3.77	2.03	0.61	
-20	1259	1253	1236	1204	1163	1115	1051	931	473	43.3	19.7	14.1	10.6	8.10	5.95	3.91	2.08	0.61	
-15	1274	1270	1259	1236	1196	1146	1087	1001	696	137	22.7	15.2	11.0	8.37	6.13	4.02	2.12	0.61	
-10	1283	1282	1274	1254	1219	1168	1111	1034	815	236	24.6	15.8	11.3	8.57	6.27	4.10	2.15	0.61	
-5	1288	1288	1282	1264	1232	1183	1125	1052	884	226	25.8	16.0	11.5	8.70	6.35	4.15	2.17	0.61	
0	1295	1293	1284	1267	1238	1187	1129	1058	908	166	26.1	16.0	11.6	8.75	6.38	4.17	2.18	0.61	
5	1271	1269	1262	1245	1215	1168	1115	1046	881	160	25.3	15.6	11.3	8.60	6.28	4.13	2.17	0.61	
10	1265	1263	1254	1236	1204	1155	1099	1025	812	136	23.7	15.0	11.0	8.37	6.14	4.05	2.15	0.61	
15	1255	1252	1242	1220	1182	1135	1080	1000	710	105	21.4	14.2	10.5	8.07	5.95	3.95	2.12	0.61	
20	1243	1237	1221	1194	1155	1108	1049	939	548	42.6	18.4	13.1	9.91	7.70	5.72	3.83	2.07	0.61	
25	1216	1205	1186	1155	1118	1069	999	796	290	30.0	16.4	12.1	9.27	7.27	5.44	3.68	2.02	0.61	
30	1175	1160	1140	1110	1069	1012	902	482	66.0	21.1	14.3	11.0	8.70	6.81	5.13	3.50	1.95	0.61	
35	1120	1105	1083	1048	994	899	613	162	27.2	16.2	12.4	9.98	8.05	6.37	4.80	3.31	1.88	0.61	
40	1045	1024	993	932	791	492	192	31.6	18.0	13.3	10.8	8.96	7.38	5.90	4.44	3.09	1.80	0.61	
45	880	815	706	538	286	61.3	26.9	19.1	13.3	11.1	9.44	8.00	6.68	5.43	4.10	2.87	1.71	0.61	
50	296	247	160	73.9	29.7	20.7	15.6	12.7	10.9	9.43	8.20	7.09	6.02	4.94	3.76	2.64	1.61	0.61	
55	27.0	25.1	21.4	17.9	16.0	12.7	11.3	10.1	9.04	8.03	7.10	6.24	5.38	4.47	3.42	2.39	1.50	0.61	
60	13.1	12.7	12.0	11.2	10.5	9.71	8.92	8.18	7.50	6.80	6.10	5.42	4.75	4.00	3.07	2.13	1.39	0.61	
65	9.00	8.90	8.68	8.40	8.03	7.61	7.13	6.68	6.18	5.68	5.17	4.64	4.13	3.53	2.71	1.91	1.29	0.61	
70	6.60	6.53	6.44	6.30	6.14	5.93	5.65	5.33	4.99	4.62	4.26	3.88	3.51	3.05	2.33	1.69	1.18	0.61	
75	4.81	4.75	4.73	4.68	4.63	4.53	4.34	4.12	3.88	3.60	3.37	3.13	2.87	2.54	1.96	1.46	1.07	0.61	
80	3.32	3.27	3.33	3.37	3.38	3.37	3.22	3.04	2.82	2.59	2.49	2.36	2.18	1.97	1.57	1.25	0.96	0.61	
85	1.88	1.96	2.07	2.16	2.18	2.18	2.03	1.88	1.78	1.68	1.62	1.53	1.48	1.40	1.21	1.04	0.84	0.61	
90	0.60	0.67	0.69	0.71	0.73	0.76	0.76	0.75	0.76	0.77	0.79	0.81	0.82	0.83	0.83	0.83	0.72	0.61	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:26 August 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: