

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	348.1 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	1.0 degrees horizontal

Beam Spread	At 10% of Imax	129.7V x 144.2H
	At 50% of Imax	91.2V x 107.1H
	At 90% of Imax	49.1V x 53.6H

Beam Flux	Total	805.0 lumens per klm.
	To 10% of Imax	778.1 lumens per klm.
	To 50% of Imax	617.7 lumens per klm.
	To 90% of Imax	210.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	80.5 %

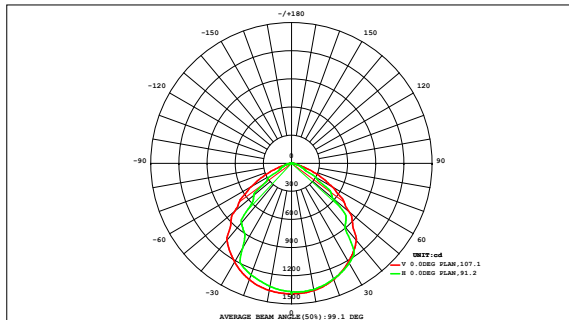
Luminaire Efficiency (Light Output Ratio)	80.5 %
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C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 12 July 2022

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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: 98Helios50_new_design	TYPE: 98Helios50_new_design	WEIGHT: 1
SPEC.:	DIM.: 0.175 x 0.122 x 0.095	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 102x50	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98Helios50_new_design	Imax(cd)	1392
NOMINAL POWER(W)	50	AVAILABILITY(%)	77.9
RATED VOLTAGE(V)	230	Avai. FLUX(lm)	3117
NOMINAL FLUX(lm)	4000	LOR(%)	80.5
LAMPS INSIDE	1	TOTAL FLUX(lm)	3220
TEST VOLTAGE(V)	230	θ @50% (H,V)	107,91DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.01	0.02	0.05	0.11	0.17	0.24	0.28	0.31	0.31	0.28	0.24	0.17	0.11	0.06	0.03	0.01	0.00	2.40	0.00
90	0.00	0.03	0.14	0.37	0.71	1.11	1.49	1.76	1.91	1.91	1.76	1.49	1.12	0.72	0.38	0.15	0.03	0.00	15.1	0.00
80	0.01	0.09	0.38	0.93	1.85	2.73	3.19	3.88	4.01	4.01	3.89	3.18	2.73	1.87	0.96	0.38	0.09	0.01	34.2	9.08
70	0.01	0.16	0.72	2.15	4.23	6.48	8.71	10.3	10.9	10.9	10.3	8.72	6.51	4.25	2.19	0.73	0.17	0.01	87.5	82.6
60	0.02	0.25	1.39	4.15	8.30	12.4	15.9	18.8	19.8	19.8	18.8	15.9	12.3	8.33	4.16	1.39	0.25	0.02	162	159
50	0.02	0.36	2.31	6.53	12.0	18.7	23.9	26.0	27.7	27.7	25.9	23.7	18.8	12.0	6.53	2.28	0.36	0.02	235	233
40	0.03	0.51	3.18	8.59	15.7	24.6	29.3	34.5	36.6	36.4	34.3	29.2	24.5	15.8	8.55	3.13	0.50	0.03	305	304
30	0.03	0.64	3.91	10.1	18.6	27.1	33.0	37.4	39.4	39.3	37.3	33.0	27.0	18.6	10.1	3.86	0.62	0.03	340	339
20	0.03	0.73	4.39	11.1	19.9	28.3	34.6	39.1	41.3	41.2	39.1	34.6	28.3	19.9	11.1	4.33	0.71	0.03	359	358
10	0.03	0.74	4.45	11.4	20.2	28.6	34.9	39.5	41.7	41.8	39.6	35.0	28.5	20.1	11.3	4.37	0.71	0.03	363	362
0	0.03	0.66	4.07	10.8	19.4	27.7	34.0	38.4	40.6	40.7	38.6	34.1	27.7	19.4	10.7	4.00	0.63	0.03	351	350
-10	0.03	0.52	3.40	9.36	17.8	25.8	32.0	36.3	38.5	38.5	36.5	32.1	25.8	17.8	9.18	3.32	0.51	0.03	327	326
-20	0.02	0.38	2.48	7.25	14.7	21.3	26.9	31.9	33.8	33.8	31.9	26.8	21.4	14.5	7.14	2.41	0.37	0.02	277	276
-30	0.02	0.25	1.55	4.94	9.66	15.2	19.6	22.5	24.0	24.0	22.5	19.4	15.0	9.49	4.80	1.50	0.25	0.02	195	193
-40	0.01	0.17	0.79	2.54	5.19	8.08	10.9	13.0	13.8	13.7	12.9	10.8	7.93	5.05	2.46	0.77	0.17	0.01	108	104
-50	0.01	0.09	0.39	1.05	2.14	3.11	3.93	4.72	4.99	4.98	4.67	3.85	3.06	2.09	1.03	0.39	0.09	0.01	40.6	20.2
-60	0.00	0.03	0.14	0.38	0.72	1.15	1.55	1.85	2.03	2.02	1.85	1.55	1.14	0.72	0.38	0.14	0.03	0.00	15.7	0.00
-70	0.00	0.01	0.02	0.05	0.08	0.13	0.18	0.22	0.24	0.24	0.22	0.18	0.13	0.08	0.05	0.02	0.01	0.00	1.88	0.00
-80	0.00	0.01	0.02	0.05	0.08	0.13	0.18	0.22	0.24	0.24	0.22	0.18	0.13	0.08	0.05	0.02	0.01	0.00	1.88	0.00
-90	0.00	0.01	0.02	0.05	0.08	0.13	0.18	0.22	0.24	0.24	0.22	0.18	0.13	0.08	0.05	0.02	0.01	0.00	1.88	0.00
HORIZONTAL (DEG)																				
Φ t	0.29	5.63	33.8	91.8	171	253	314	361	382	381	360	314	252	171	90.9	33.2	5.51	0.31	3220	---
Φ a	0.00	1.06	28.5	86.7	166	246	306	352	373	373	352	305	246	165	85.8	27.7	0.90	0.00	---	3117

one-half-peak spread: U:43.6,D:43.3 , L:55.0,R:52.8

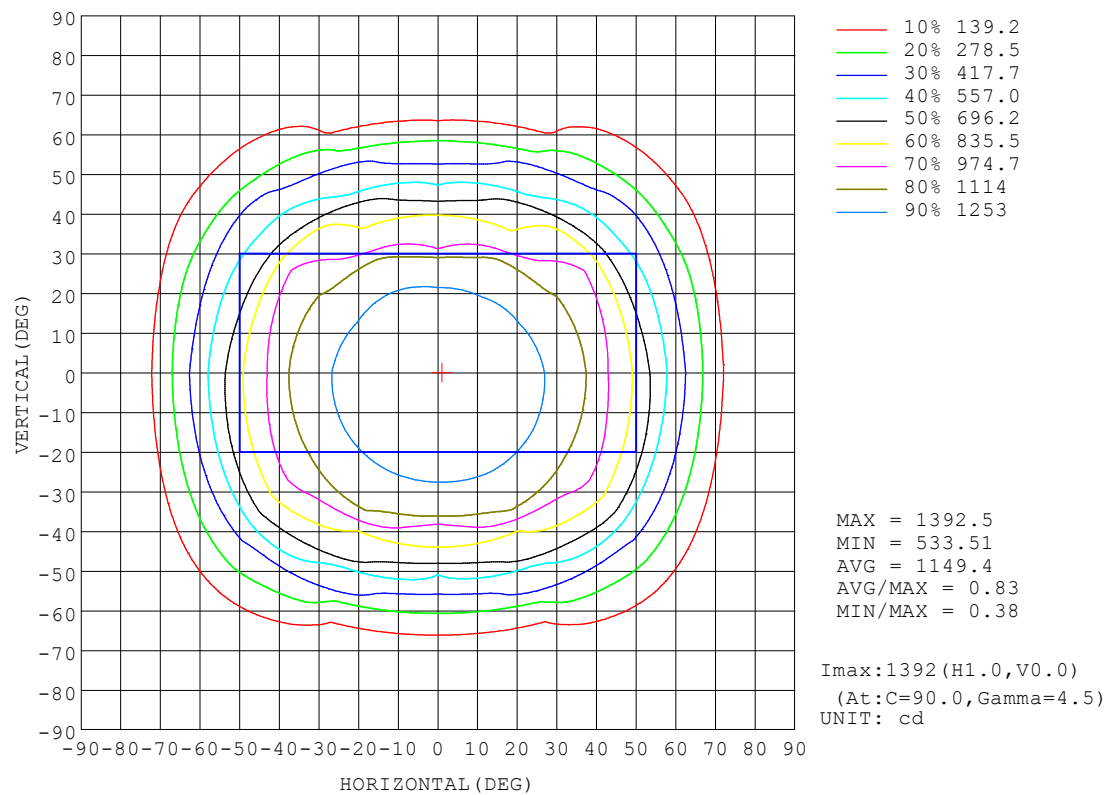
NEMA Beam Type: Type 7 x 6 (H x V)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:12 July 2022

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 98Helios50_new_design	TYPE: 98Helios50_new_design	WEIGHT: 1
SPEC.:	DIM.: 0.175 x 0.122 x 0.095	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 102x50	Shielding Angle:

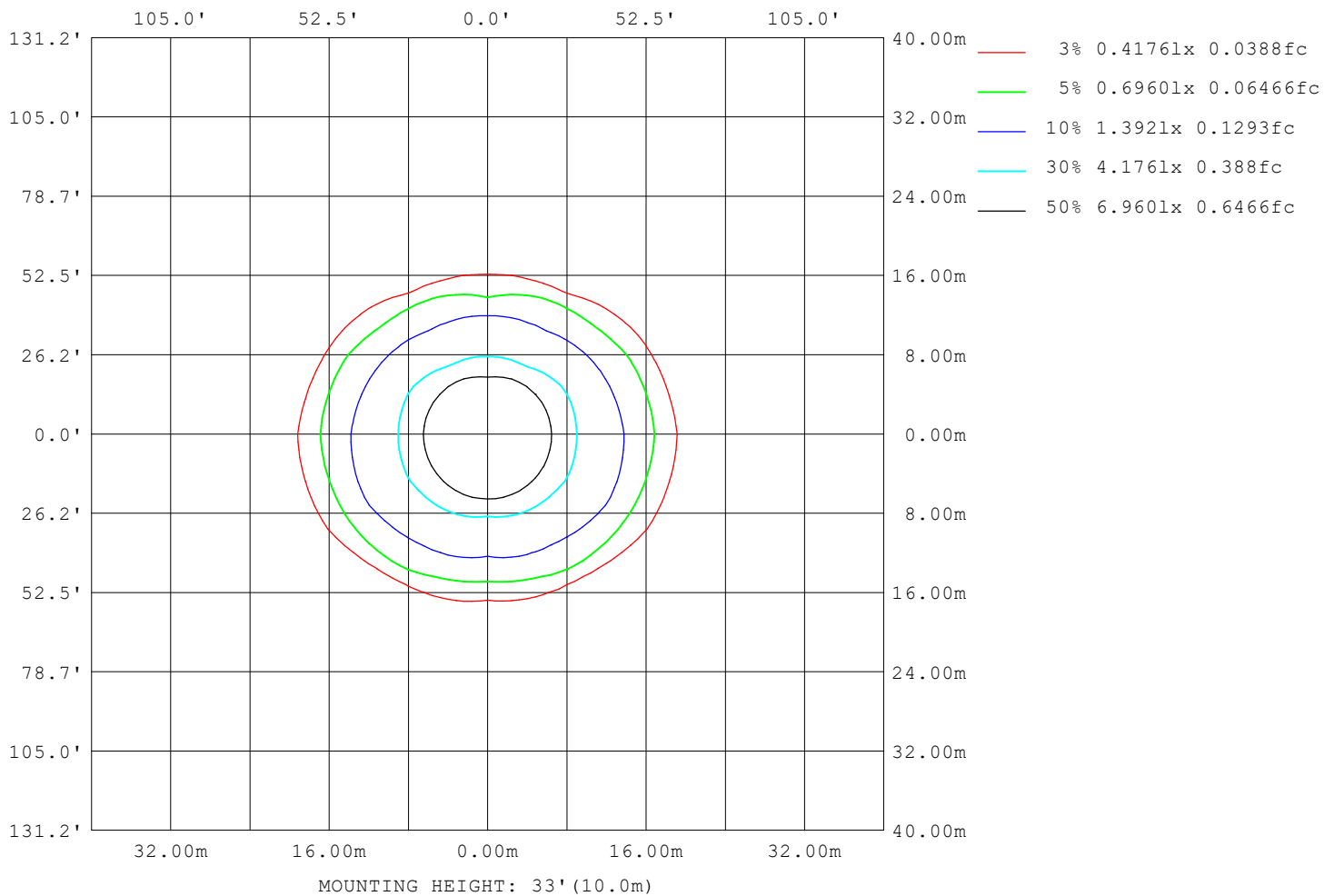


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ISOLUX DIAGRAM

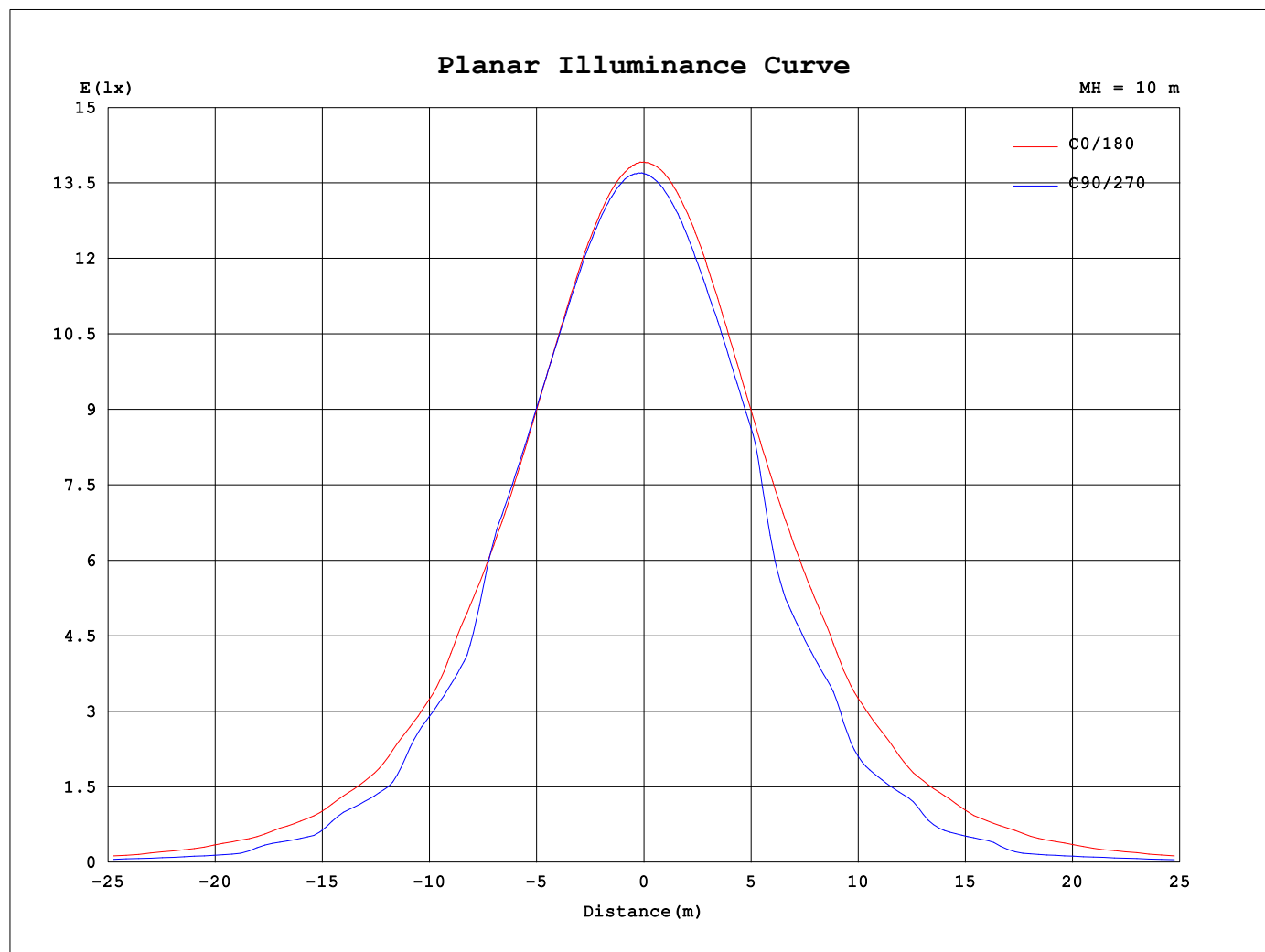
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SPEC.:	DIM.: 0.175 x 0.122 x 0.095	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 102x50	Shielding Angle:



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Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve

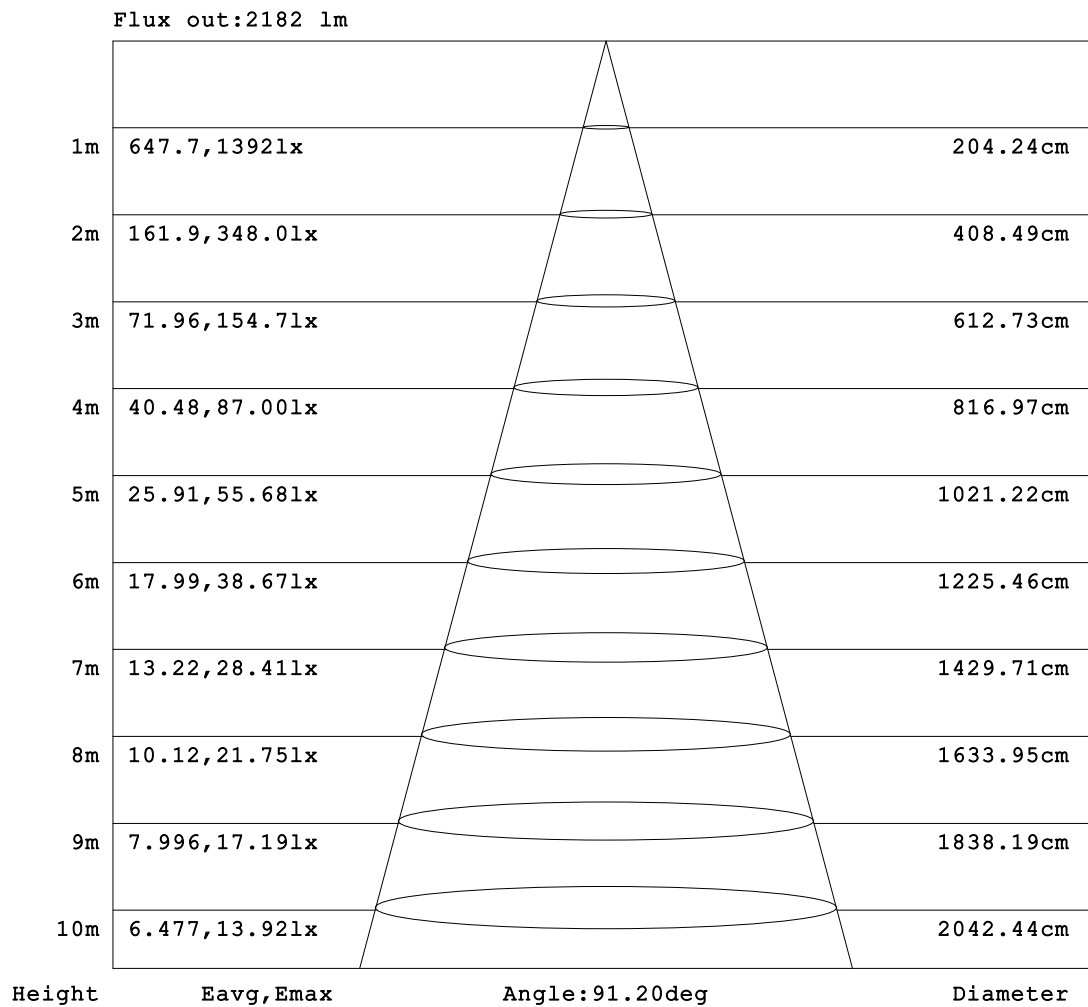


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 12 July 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

AAI Figure

NAME: 98Helios50_new_design	TYPE: 98Helios50_new_design	WEIGHT: 1
SPEC.:	DIM.: 0.175 x 0.122 x 0.095	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 102x50	Shielding Angle:



Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:12 July 2022

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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: 98Helios50_new_design	TYPE: 98Helios50_new_design	WEIGHT: 1
SPEC.:	DIM.: 0.175 x 0.122 x 0.095	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle 102x50	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	1.10	1.11	1.11	1.12	1.12	1.13	1.13	1.09	1.05	1.00	0.96	0.92	0.87	0.86	0.84	0.82	0.80	0.79	0.77
-85	1.10	1.08	1.06	1.04	1.04	1.10	1.22	1.43	1.65	1.85	2.16	2.46	2.80	3.12	3.41	3.59	3.66	3.62	3.47
-80	1.10	1.05	1.04	1.39	2.31	3.83	5.81	8.02	10.6	13.4	16.3	19.1	21.6	23.8	25.7	27.2	28.3	29.0	29.2
-75	1.10	1.02	1.42	3.09	5.97	10.1	15.3	20.7	26.4	32.3	38.3	44.5	50.4	55.3	59.3	62.5	64.8	66.2	66.6
-70	1.10	1.04	2.39	5.91	11.6	19.1	27.6	36.4	46.4	56.7	69.4	79.7	85.5	90.6	95.9	101	104	107	108
-65	1.10	1.15	3.82	9.69	18.6	29.2	41.6	55.5	78.5	94.5	113	124	127	129	135	141	148	152	150
-60	1.10	1.38	5.58	14.3	26.1	40.6	58.8	90.5	126	155	168	186	232	250	245	265	293	304	303
-55	1.10	1.75	7.65	19.2	33.8	55.4	93.7	145	186	236	296	315	337	429	437	437	459	478	485
-50	1.10	2.17	9.92	24.1	42.8	82.6	140	200	287	352	376	482	518	516	572	629	628	603	569
-45	1.10	2.61	12.3	28.5	55.2	111	189	284	380	424	545	599	679	747	756	782	806	817	822
-40	1.10	3.11	14.8	33.4	74.3	151	227	353	434	574	669	770	806	830	833	905	942	929	889
-35	1.10	3.59	17.1	38.6	94.8	184	303	412	534	699	803	850	908	969	1081	1111	1134	1156	1163
-30	1.10	4.06	19.1	42.8	114	221	347	459	632	788	868	962	1031	1116	1159	1190	1212	1225	1230
-25	1.10	4.47	20.9	47.0	136	243	396	522	699	828	943	1045	1110	1164	1206	1238	1260	1272	1277
-20	1.10	4.85	22.3	56.3	157	285	422	572	746	868	997	1086	1148	1202	1246	1278	1297	1310	1312
-15	1.10	5.15	23.4	60.6	174	312	445	614	767	900	1028	1115	1178	1235	1280	1310	1330	1342	1344
-10	1.10	5.36	24.1	68.1	185	326	473	645	784	923	1057	1136	1199	1257	1302	1334	1355	1364	1365
-5	1.10	5.48	24.5	73.1	190	334	495	662	797	929	1072	1148	1212	1269	1315	1349	1372	1378	1374
0	1.10	5.52	24.5	75.1	194	337	508	667	798	923	1076	1151	1215	1272	1318	1355	1375	1389	1392
5	1.10	5.50	24.5	72.7	188	328	494	646	776	923	1065	1139	1201	1256	1301	1336	1358	1369	1356
10	1.10	5.38	24.0	67.4	180	315	468	614	739	911	1043	1119	1178	1231	1274	1309	1330	1339	1333
15	1.10	5.18	23.3	59.9	168	299	432	573	696	873	1006	1090	1148	1197	1242	1276	1295	1303	1299
20	1.10	4.89	22.2	55.5	151	276	396	535	655	804	968	1053	1106	1158	1206	1239	1260	1267	1265
25	1.10	4.52	20.8	46.1	132	239	356	502	601	711	909	1003	1027	1055	1148	1195	1214	1222	1221
30	1.10	4.12	19.1	41.9	110	211	305	446	538	630	762	923	949	951	963	1040	1083	1076	1049
35	1.10	3.67	17.0	37.8	87.3	165	267	361	489	552	631	743	867	873	860	865	890	898	887
40	1.10	3.19	14.7	32.7	68.9	136	221	289	410	481	547	594	655	773	786	799	823	830	831
45	1.10	2.69	12.4	28.0	53.0	106	161	240	293	400	440	511	538	546	581	642	654	631	596
50	1.10	2.24	10.0	23.7	41.1	71.3	121	182	225	267	349	371	427	480	481	504	519	525	527
55	1.10	1.81	7.82	19.1	32.8	52.1	79.3	114	167	196	205	274	297	288	316	355	367	348	320
60	1.10	1.42	5.79	14.3	25.6	38.6	53.9	73.8	105	128	155	156	146	176	218	212	197	186	169
65	1.10	1.16	4.06	9.91	18.5	28.2	39.1	50.9	64.3	86.3	97.2	106	113	114	119	124	127	130	131
70	1.10	1.04	2.59	6.26	11.8	18.9	26.6	34.8	43.8	53.0	62.2	71.3	78.8	83.0	87.3	91.2	94.3	96.0	96.6
75	1.10	1.01	1.52	3.45	6.45	10.5	15.3	20.8	26.5	32.2	38.1	43.9	49.4	53.7	57.2	59.9	61.8	63.0	63.3
80	1.10	1.03	1.04	1.54	2.74	4.46	6.55	9.08	12.0	15.1	18.2	21.2	24.0	26.1	27.9	29.4	30.5	31.1	31.3
85	1.10	1.06	1.02	0.99	1.02	1.19	1.50	1.92	2.45	3.05	3.76	4.48	5.25	5.76	6.20	6.52	6.70	6.75	6.67
90	1.10	1.09	1.08	1.06	1.05	1.03	1.02	0.99	0.96	0.93	0.90	0.87	0.84	0.82	0.81	0.79	0.78	0.77	0.75

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LUMINOUS DISTRIBUTION INTENSITY DATA

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MFR.: Elmark Industries JSC	SUR.: rectangle 102x50	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	0.79	0.81	0.82	0.84	0.86	0.88	0.93	0.97	1.02	1.06	1.11	1.15	1.18	1.21	1.24	1.27	1.29	1.32	
-85	3.59	3.61	3.52	3.32	3.01	2.68	2.41	2.16	1.89	1.70	1.49	1.27	1.17	1.14	1.16	1.21	1.26	1.32	
-80	29.0	28.4	27.3	25.7	23.9	21.7	19.2	16.3	13.4	10.7	8.20	6.03	4.04	2.52	1.58	1.21	1.24	1.32	
-75	66.2	64.8	62.5	59.2	55.2	50.3	44.5	38.4	32.5	26.7	21.1	15.5	10.3	6.26	3.36	1.66	1.21	1.32	
-70	107	104	100	95.7	90.4	85.3	79.2	67.2	56.3	46.3	36.6	27.8	19.4	11.9	6.23	2.68	1.25	1.32	
-65	150	146	141	135	129	126	123	110	93.7	75.3	55.0	41.7	29.4	19.0	10.0	4.15	1.39	1.32	
-60	302	291	267	247	249	217	179	166	155	119	89.3	57.8	40.7	26.4	14.6	5.93	1.66	1.32	
-55	478	460	437	437	418	328	316	291	220	185	140	92.5	53.0	34.2	19.5	8.02	2.05	1.32	
-50	603	624	616	554	517	511	470	373	351	267	199	131	78.6	42.8	24.3	10.3	2.50	1.32	
-45	818	807	784	758	746	662	595	524	423	379	264	186	108	51.4	28.6	12.7	2.97	1.32	
-40	925	933	892	835	835	808	764	667	545	432	350	225	142	69.2	33.9	15.1	3.47	1.32	
-35	1157	1137	1115	1074	957	913	855	800	688	514	409	288	181	92.0	38.8	17.4	3.95	1.32	
-30	1227	1216	1196	1163	1117	1024	968	870	786	607	457	340	219	110	42.7	19.4	4.43	1.32	
-25	1274	1264	1245	1212	1166	1110	1045	954	826	693	514	394	240	131	46.0	21.2	4.85	1.32	
-20	1312	1302	1283	1253	1207	1149	1085	997	868	745	556	419	274	147	50.9	22.6	5.24	1.32	
-15	1346	1337	1316	1285	1239	1180	1113	1027	903	764	598	440	304	168	57.8	23.6	5.54	1.32	
-10	1371	1360	1341	1307	1261	1202	1134	1055	924	779	635	465	319	181	63.2	24.3	5.76	1.32	
-5	1385	1375	1352	1318	1272	1214	1145	1070	927	791	655	488	329	187	66.6	24.6	5.89	1.32	
0	1388	1377	1354	1319	1274	1215	1148	1073	919	792	661	500	333	190	68.0	24.6	5.93	1.32	
5	1362	1356	1335	1302	1257	1201	1136	1062	919	771	640	486	324	184	66.5	24.6	5.90	1.32	
10	1332	1325	1306	1274	1231	1178	1115	1040	908	736	607	461	311	177	62.8	24.2	5.78	1.32	
15	1298	1287	1271	1240	1196	1146	1087	1003	875	695	567	432	296	163	57.4	23.5	5.58	1.32	
20	1262	1250	1232	1201	1157	1103	1051	965	811	653	532	399	269	143	50.4	22.5	5.29	1.32	
25	1218	1206	1186	1145	1052	1023	1000	909	718	595	499	358	236	129	45.4	21.1	4.91	1.32	
30	1073	1080	1038	959	945	945	919	775	633	534	442	298	213	108	42.1	19.4	4.50	1.32	
35	897	888	859	852	867	862	752	635	545	486	370	264	164	87.2	38.2	17.4	4.03	1.32	
40	828	819	793	779	773	660	595	540	479	412	285	217	132	67.1	33.4	15.1	3.55	1.32	
45	630	654	644	582	542	535	505	440	395	301	238	166	104	49.9	28.2	12.8	3.05	1.32	
50	524	517	500	476	474	432	369	349	275	224	188	119	72.4	41.6	24.1	10.4	2.58	1.32	
55	348	368	360	319	285	294	280	204	195	173	114	83.7	50.9	33.4	19.5	8.23	2.12	1.32	
60	185	196	210	220	181	145	155	154	133	105	79.2	54.9	39.4	25.9	14.7	6.16	1.71	1.32	
65	130	127	123	119	114	113	107	96.9	86.9	66.9	52.1	39.9	28.6	18.9	10.3	4.39	1.41	1.32	
70	95.9	94.1	91.0	86.8	82.3	78.3	72.0	62.8	53.7	44.6	35.4	27.0	19.3	12.2	6.60	2.90	1.25	1.32	
75	62.9	61.8	59.8	57.0	53.6	49.4	44.0	38.3	32.5	26.8	21.2	15.9	10.9	6.78	3.74	1.78	1.20	1.32	
80	31.1	30.5	29.4	28.0	26.2	24.0	21.3	18.4	15.4	12.3	9.40	6.82	4.70	2.98	1.76	1.22	1.22	1.32	
85	6.77	6.73	6.56	6.26	5.82	5.32	4.58	3.86	3.17	2.57	2.04	1.61	1.30	1.14	1.11	1.17	1.25	1.32	
90	0.77	0.79	0.80	0.82	0.84	0.85	0.89	0.92	0.96	0.99	1.02	1.06	1.10	1.15	1.19	1.23	1.28	1.32	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:12 July 2022

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks: