

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	486.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-10.0 degrees horizontal

Beam Spread	At 10% of Imax	124.2V x 124.5H
	At 50% of Imax	99.6V x 99.1H
	At 90% of Imax	57.7V x 52.4H

Beam Flux	Total	1059.0 lumens per klm.
	To 10% of Imax	1011.3 lumens per klm.
	To 50% of Imax	855.8 lumens per klm.
	To 90% of Imax	326.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	105.9 %

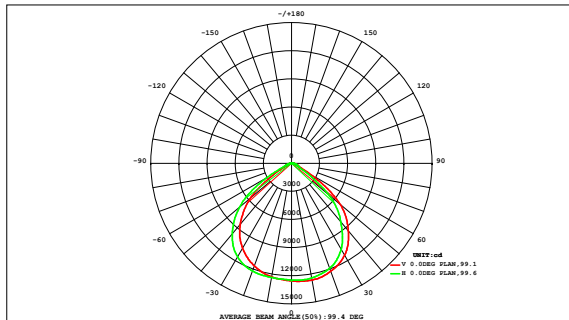
Luminaire Efficiency (Light Output Ratio)	105.9 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 28 October 2022

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: 98LONDON200SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F344	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98LONDON200SMD	Imax (cd)	12643
NOMINAL POWER (W)	200	AVAILABILITY (%)	101.0
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	26267
NOMINAL FLUX (lm)	26000	LOR (%)	105.9
LAMPS INSIDE	1	TOTAL FLUX (lm)	27526
TEST VOLTAGE (V)	230	θ @50% (H,V)	99,100DEG

90 80 70 60 50 40 30 -30 -40 -50 -60 -70 -80 -90	AREA FLUX DIAGRAM															UNIT:lm				Φ t	Φ a									
	0.05	0.30	0.75	1.35	2.06	2.79	3.44	3.89	4.09	4.07	3.86	3.41	2.73	1.99	1.30	0.72	0.28	0.05	37.1	0.00										
	0.12	0.79	2.16	4.16	6.65	9.16	11.3	12.8	13.7	13.8	12.9	11.1	8.81	6.38	4.07	2.13	0.78	0.12	121	0.00										
	0.18	1.34	3.80	7.41	11.9	17.5	25.8	35.6	41.7	40.5	32.9	23.2	16.2	11.1	7.10	3.75	1.31	0.18	282	98.4										
	0.25	1.90	5.45	10.9	23.9	56.3	103	141	158	154	129	88.1	43.7	18.7	9.97	5.31	1.87	0.25	952	872										
	0.31	2.43	7.06	18.3	63.2	138	204	246	263	255	229	184	117	47.3	14.5	6.65	2.40	0.31	1798	1750										
	0.37	2.90	8.77	35.8	115	201	267	312	329	320	292	245	176	92.6	26.0	7.88	2.85	0.37	2434	2399										
	0.41	3.30	11.0	56.8	153	237	306	346	363	357	329	282	211	127	42.2	9.15	3.19	0.41	2838	2809										
	0.44	3.58	13.4	72.7	172	257	323	361	375	370	345	298	230	146	55.4	10.5	3.42	0.44	3036	3010										
	0.46	3.74	15.0	80.1	178	262	327	366	379	372	350	304	237	154	62.3	11.3	3.53	0.46	3106	3081										
	0.46	3.74	14.7	77.5	173	256	322	363	379	375	350	303	236	152	60.5	11.2	3.53	0.46	3080	3055										
	0.44	3.61	12.9	65.4	159	240	308	352	371	364	337	288	220	138	50.2	10.2	3.41	0.45	2923	2896										
	0.41	3.34	10.5	46.3	132	212	277	322	343	339	310	260	192	111	34.1	8.87	3.18	0.42	2603	2571										
	0.37	2.96	8.55	27.2	88.2	165	225	266	286	282	257	210	145	69.9	19.8	7.67	2.86	0.37	2064	2023										
	0.31	2.48	6.93	15.0	41.0	93.8	149	188	205	202	179	134	77.2	30.2	12.8	6.52	2.44	0.32	1347	1285										
	0.25	1.91	5.45	10.2	17.1	31.6	54.6	76.8	88.8	85.8	69.5	45.3	25.9	15.5	9.82	5.27	1.92	0.25	546	417										
	0.18	1.32	3.82	7.31	11.2	15.2	19.0	22.5	24.1	23.5	21.4	18.2	14.8	11.0	7.22	3.79	1.34	0.18	206	0.00										
	0.12	0.77	2.13	4.10	6.45	8.89	11.0	12.6	13.3	13.2	12.3	10.8	8.87	6.52	4.13	2.12	0.77	0.12	118	0.00										
	0.05	0.28	0.69	1.23	1.85	2.52	3.12	3.52	3.72	3.75	3.55	3.12	2.52	1.86	1.21	0.67	0.27	0.05	34.0	0.00										
-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)															20	30	40	50	60	70	80	90
Φ t	5.20	40.7	133	542	1354	2206	2940	3430	3640	3576	3263	2712	1964	1141	422	114	39.4	5.22	27526	---										
Φ a	0.00	0.00	27.1	457	1277	2132	2866	3355	3565	3500	3188	2634	1883	1055	324	4.66	0.00	0.00	---		26267									

one-half-peak spread: U:42.1,D:52.9 , L:41.2,R:58.2

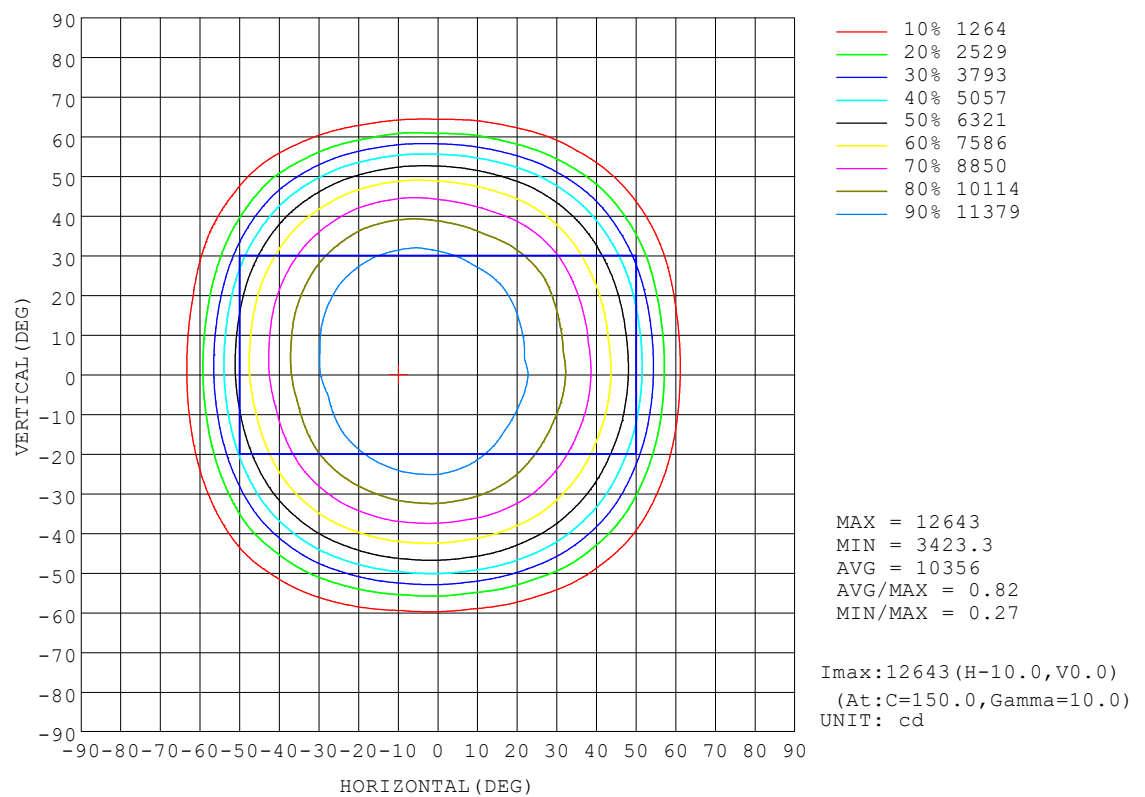
NEMA Beam Type: Type 6

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:28 October 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: 98LONDON200SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F344	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

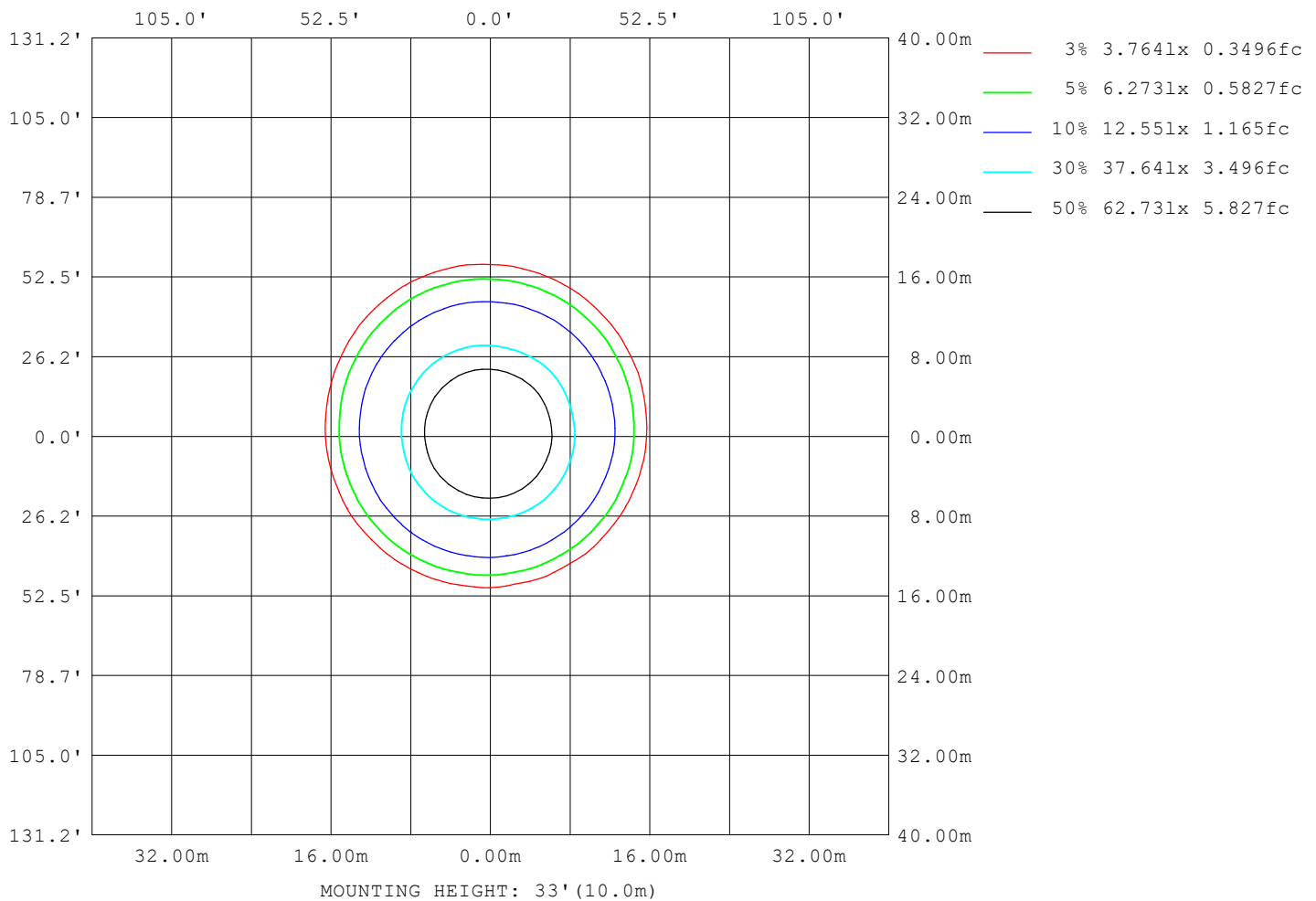


C Range: 0 - 360DEG
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 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
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γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.265m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

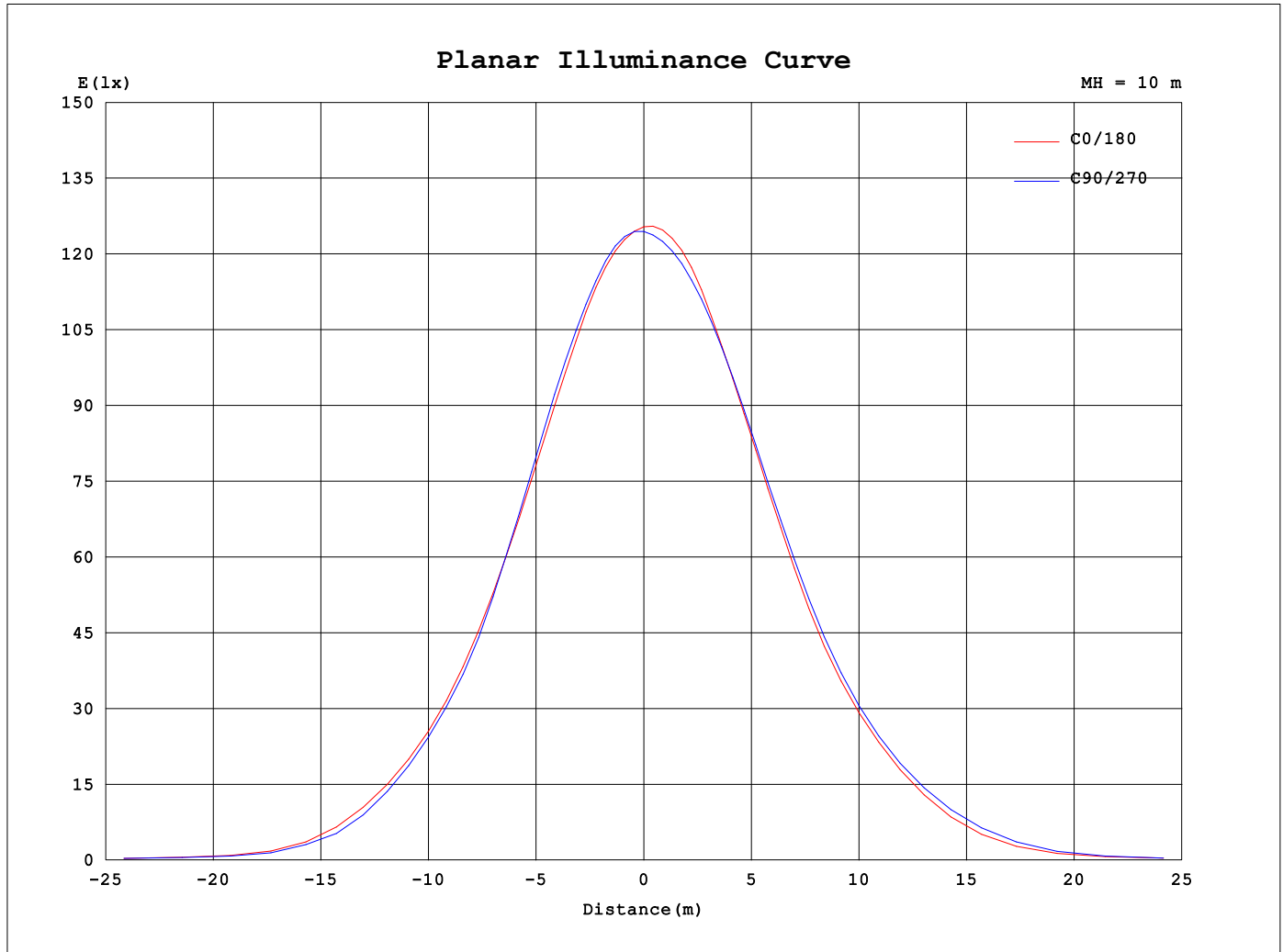
NAME: 98LONDON200SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F344	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



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Test Distance: 6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve

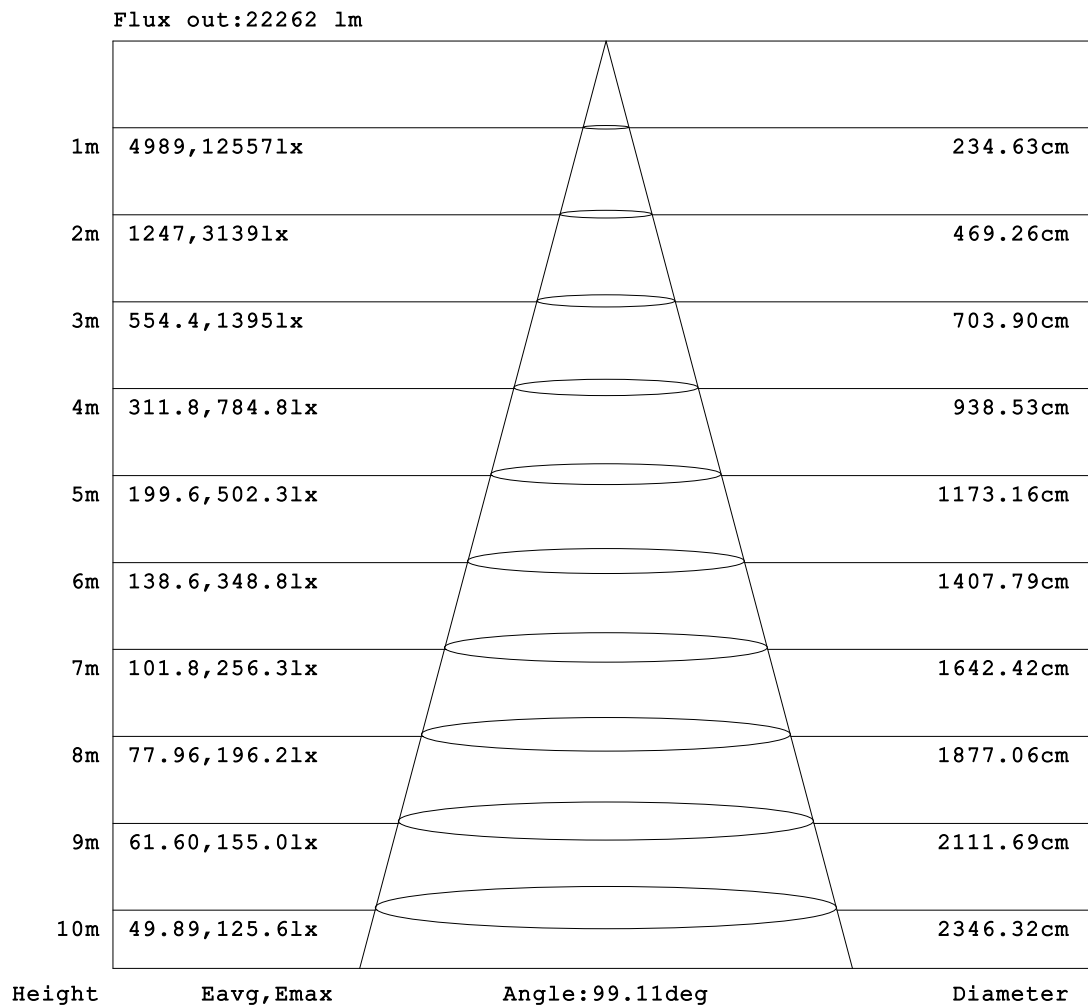


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 28 October 2022

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: 98LONDON200SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F344	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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:28 October 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: 98LONDON200SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F344	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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	0.71	0.76	0.76	0.76	0.76	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88
-85	0.65	1.64	2.61	3.50	4.35	5.13	5.85	6.64	7.36	8.17	8.92	9.52	10.0	10.6	11.1	11.3	11.3	11.4	11.5
-80	0.65	2.56	4.45	6.25	8.33	10.4	12.5	14.4	16.2	18.2	20.0	21.8	23.4	24.8	26.0	26.5	26.6	27.2	27.5
-75	0.65	3.47	6.29	9.47	12.6	16.3	19.9	23.3	26.5	29.9	33.1	35.8	38.1	40.4	42.4	43.6	44.4	44.6	44.4
-70	0.65	4.36	8.38	12.6	17.4	22.6	27.9	32.7	37.4	41.8	45.8	48.9	51.5	53.9	56.1	57.7	58.9	59.3	59.2
-65	0.65	5.22	10.4	16.0	22.5	29.3	35.9	41.9	47.4	52.2	56.5	60.3	63.8	67.0	70.8	73.2	74.2	74.8	74.8
-60	0.65	6.04	12.3	19.3	27.7	36.0	43.5	50.0	56.2	61.9	67.6	75.2	83.8	93.3	104	114	118	120	119
-55	0.65	6.96	14.4	23.0	32.9	42.1	50.2	57.8	65.7	75.6	91.5	115	145	184	218	251	269	280	281
-50	0.65	7.82	16.3	26.7	37.9	47.7	56.9	67.1	80.7	106	150	217	291	358	419	463	492	509	513
-45	0.65	8.62	18.1	30.2	42.3	52.9	64.9	80.6	112	179	265	376	476	552	608	649	674	687	690
-40	0.65	9.35	19.9	33.4	46.4	58.3	75.6	103	181	282	415	537	633	703	753	789	810	819	819
-35	0.65	10.0	21.8	36.3	50.1	63.6	85.6	139	255	408	554	670	757	821	870	907	934	947	950
-30	0.65	10.6	23.4	38.8	53.6	69.6	102	186	346	524	668	773	852	921	976	1016	1046	1058	1060
-25	0.65	11.1	24.7	40.9	56.6	74.4	123	249	437	619	752	852	936	1009	1063	1101	1126	1138	1140
-20	0.65	11.5	25.9	42.7	59.1	81.4	148	307	518	691	815	916	1009	1077	1126	1162	1184	1194	1192
-15	0.65	11.8	26.7	44.2	61.1	87.4	175	364	579	744	862	966	1059	1124	1170	1201	1220	1227	1221
-10	0.65	12.0	27.3	45.3	62.5	92.1	197	408	625	780	896	1003	1091	1151	1195	1224	1242	1248	1243
-5	0.65	12.2	27.7	46.0	63.5	95.2	212	439	658	809	924	1031	1112	1166	1206	1236	1252	1253	1249
0	0.65	12.2	27.8	46.2	63.8	96.7	221	455	676	826	943	1053	1133	1188	1225	1254	1264	1262	1255
5	0.65	12.2	27.7	45.8	63.4	96.0	220	455	677	829	947	1055	1135	1189	1225	1248	1255	1250	1239
10	0.65	12.0	27.3	45.0	62.5	93.5	211	438	663	821	941	1050	1133	1187	1221	1242	1249	1244	1237
15	0.65	11.8	26.7	43.7	60.9	89.0	193	407	636	804	925	1035	1119	1176	1212	1232	1241	1239	1233
20	0.65	11.5	25.8	42.1	58.9	82.6	168	363	595	771	896	1002	1091	1154	1192	1214	1224	1225	1222
25	0.65	11.1	24.7	40.1	56.2	74.7	145	308	532	720	850	955	1046	1116	1158	1183	1196	1202	1198
30	0.65	10.6	23.4	37.8	53.1	70.3	118	243	448	642	786	894	984	1055	1107	1138	1153	1160	1152
35	0.65	10.00	21.9	35.2	49.6	64.8	93.9	192	349	538	696	815	903	975	1033	1068	1086	1093	1084
40	0.65	9.34	20.2	32.5	45.7	59.5	77.3	134	246	414	577	705	799	874	933	969	989	995	985
45	0.65	8.62	18.4	29.6	41.5	53.8	67.8	93.7	159	279	431	562	666	748	806	845	868	875	865
50	0.65	7.82	16.5	26.5	37.0	47.9	59.3	73.0	101	177	272	387	494	582	645	688	717	728	724
55	0.65	6.97	14.4	23.2	32.4	41.8	51.3	61.3	73.9	97.8	147	209	295	378	441	487	520	535	533
60	0.65	6.06	12.3	19.6	27.6	35.6	43.5	51.5	59.9	69.4	80.0	102	135	177	217	257	284	293	290
65	0.65	5.23	10.4	16.3	22.6	29.2	35.5	42.2	48.9	54.8	60.9	66.8	73.9	79.9	91.6	101	107	109	109
70	0.65	4.37	8.38	12.8	17.8	22.7	27.7	32.9	38.2	43.0	47.2	51.0	54.2	57.1	59.4	61.6	63.3	63.9	63.8
75	0.65	3.48	6.32	9.69	13.1	16.5	19.8	23.6	27.4	30.8	33.9	36.7	39.1	40.9	42.1	43.5	44.6	45.3	45.7
80	0.65	2.57	4.47	6.50	8.82	10.9	12.8	15.0	17.1	19.0	20.7	22.7	24.3	25.5	26.3	27.1	27.8	27.8	27.6
85	0.65	1.64	2.62	3.66	4.72	5.66	6.55	7.55	8.51	9.34	10.1	10.9	11.6	12.0	12.4	12.7	12.9	12.8	12.7
90	0.65	0.71	0.76	0.82	0.88	0.94	1.00	1.05	1.10	1.15	1.20	1.25	1.29	1.31	1.33	1.33	1.33	1.33	1.32

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:28 October 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: 98LONDON200SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F344	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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	0.88	0.89	0.89	0.90	0.90	0.90	0.90	0.89	0.88	0.88	0.87	0.85	0.84	0.83	0.82	0.81	0.80	0.79	
-85	11.5	11.4	11.3	11.2	10.6	10.0	9.53	8.92	8.12	7.26	6.45	5.58	4.89	4.14	3.40	2.58	1.70	0.79	
-80	27.5	27.2	26.7	26.0	24.8	23.4	22.0	20.3	18.4	16.4	14.4	12.3	10.2	8.12	6.01	4.35	2.59	0.79	
-75	43.9	43.0	42.2	41.2	39.7	37.9	36.0	33.5	30.4	27.0	23.5	19.8	16.2	12.6	9.41	6.13	3.47	0.79	
-70	58.4	57.2	56.0	54.4	52.5	50.3	48.1	45.3	41.6	37.6	32.9	27.9	22.6	17.5	12.8	8.34	4.33	0.79	
-65	73.8	72.3	71.0	68.6	65.4	62.3	59.0	55.4	51.3	46.6	41.4	35.6	29.2	22.6	16.4	10.5	5.17	0.79	
-60	114	108	101	91.7	83.1	77.0	71.4	65.9	60.5	54.9	48.9	42.4	35.3	27.7	19.8	12.5	5.97	0.79	
-55	269	249	227	189	146	112	92.5	79.4	70.6	63.3	56.0	48.5	40.7	32.4	23.5	14.7	6.92	0.79	
-50	499	471	430	373	303	238	173	111	85.2	72.7	63.2	54.2	45.5	36.7	26.9	16.8	7.82	0.79	
-45	678	655	622	567	497	408	303	199	122	87.5	71.2	60.0	50.1	40.5	30.0	18.7	8.65	0.79	
-40	808	789	758	711	650	567	459	333	209	121	82.4	65.7	54.5	43.9	32.8	20.5	9.42	0.79	
-35	936	913	877	829	769	690	590	466	320	182	101	72.3	58.6	47.0	35.2	22.2	10.1	0.79	
-30	1046	1022	984	934	868	786	692	575	428	260	130	80.7	62.5	49.8	37.3	23.7	10.7	0.79	
-25	1124	1099	1061	1012	949	869	773	659	519	341	177	91.0	66.0	52.3	39.1	24.9	11.2	0.79	
-20	1176	1151	1115	1066	1006	933	838	724	589	418	223	106	69.8	54.5	40.7	26.0	11.6	0.79	
-15	1204	1181	1148	1104	1046	978	888	776	646	478	273	122	72.9	56.2	42.0	26.8	12.0	0.79	
-10	1227	1205	1173	1133	1078	1011	926	816	686	522	311	135	75.1	57.4	42.9	27.3	12.2	0.79	
-5	1239	1222	1192	1153	1102	1035	951	841	710	552	337	144	76.5	58.2	43.5	27.6	12.3	0.79	
0	1244	1230	1205	1164	1113	1046	963	853	722	566	349	149	77.1	58.6	43.7	27.7	12.4	0.79	
5	1227	1215	1193	1155	1104	1039	956	847	718	564	348	149	76.8	58.4	43.6	27.5	12.3	0.79	
10	1226	1213	1189	1151	1099	1031	944	832	703	547	332	143	75.7	57.7	43.0	27.1	12.2	0.79	
15	1222	1205	1178	1139	1085	1016	925	811	683	520	303	132	73.6	56.6	42.1	26.5	11.9	0.79	
20	1209	1190	1160	1118	1064	991	894	778	648	479	263	116	70.6	55.0	40.8	25.6	11.6	0.79	
25	1183	1157	1125	1084	1030	951	847	731	599	419	225	100	66.8	53.1	39.2	24.5	11.2	0.79	
30	1135	1105	1074	1031	972	891	787	669	527	342	183	87.5	63.6	50.6	37.3	23.1	10.6	0.79	
35	1065	1033	998	954	893	810	710	588	432	259	130	76.5	59.8	47.8	35.0	21.6	10.0	0.79	
40	964	935	900	857	794	712	609	478	319	176	96.5	68.0	55.7	44.5	32.2	19.8	9.36	0.79	
45	848	821	786	740	676	588	475	341	202	114	76.7	61.6	51.1	40.8	29.2	18.1	8.61	0.79	
50	709	682	642	590	517	419	308	198	120	81.4	64.9	55.1	46.3	36.8	26.0	16.2	7.80	0.79	
55	519	490	444	387	317	231	156	108	80.3	65.4	56.3	48.7	41.0	32.2	22.7	14.3	6.92	0.79	
60	280	261	227	184	145	111	87.4	73.6	62.5	55.2	48.5	42.1	35.2	27.4	19.1	12.2	5.99	0.79	
65	107	103	95.1	85.9	75.2	69.4	62.2	56.3	51.2	46.2	40.6	34.9	28.9	22.3	16.0	10.3	5.18	0.79	
70	63.6	62.8	60.8	58.2	55.2	51.8	48.4	44.8	40.9	36.6	32.0	27.2	22.4	17.5	12.6	8.26	4.33	0.79	
75	45.7	45.2	43.9	42.2	40.2	38.0	35.4	32.5	29.5	26.5	23.1	19.6	16.3	12.8	9.50	6.18	3.45	0.79	
80	27.9	27.8	27.2	26.3	25.3	24.0	22.2	20.2	18.5	16.8	14.7	12.5	10.6	8.57	6.32	4.34	2.55	0.79	
85	12.8	12.8	12.6	12.3	11.9	11.4	10.6	9.74	8.99	8.16	7.22	6.24	5.40	4.50	3.49	2.50	1.64	0.79	
90	1.31	1.29	1.27	1.24	1.20	1.15	1.08	1.00	0.94	0.88	0.83	0.78	0.74	0.70	0.67	0.65	0.72	0.79	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:28 October 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: