

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	485.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-7.5 degrees horizontal

Beam Spread	At 10% of Imax	127.7V x 128.8H
	At 50% of Imax	101.6V x 101.0H
	At 90% of Imax	54.5V x 57.7H

Beam Flux	Total	1088.6 lumens per klm.
	To 10% of Imax	1051.3 lumens per klm.
	To 50% of Imax	865.5 lumens per klm.
	To 90% of Imax	338.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	108.9 %

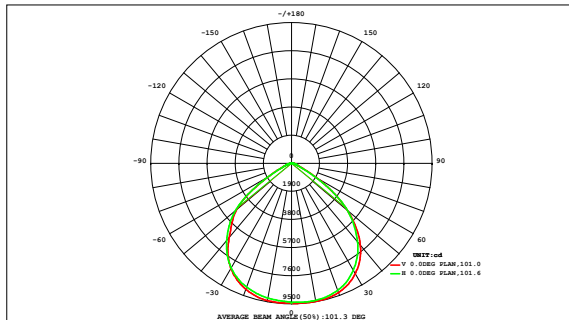
Luminaire Efficiency (Light Output Ratio)	108.8 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 27 October 2022

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: 98LONDON150/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F310	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98LONDON150/W	Imax (cd)	9476
NOMINAL POWER (W)	150	AVAILABILITY (%)	104.7
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	20423
NOMINAL FLUX (lm)	19500	LOR (%)	108.8
LAMPS INSIDE	1	TOTAL FLUX (lm)	21221
TEST VOLTAGE (V)	230	θ @50% (H,V)	101,102DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm			Φ t	Φ a										
	0.04	0.21	0.51	0.91	1.38	1.83	2.22	2.52	2.66	2.63	2.45	2.10	1.65	1.18	0.75	0.40	0.16	0.03	23.6	0.00												
90	0.08	0.53	1.42	2.71	4.33	6.01	7.58	8.95	9.49	9.25	8.57	7.33	5.76	4.11	2.49	1.24	0.44	0.06	80.4	0.00												
80	0.13	0.89	2.60	5.04	8.22	12.4	17.9	23.6	27.3	27.0	22.9	17.2	12.1	8.17	4.82	2.30	0.78	0.10	193	57.3												
70	0.17	1.28	3.92	8.21	17.1	35.6	62.6	88.1	103	102	87.1	61.4	33.9	16.0	7.72	3.50	1.15	0.14	633	574												
60	0.21	1.67	5.31	14.5	42.1	86.7	131	163	179	178	162	132	86.6	39.6	13.3	4.81	1.52	0.18	1241	1208												
50	0.24	2.02	7.01	26.9	75.9	133	178	210	227	228	211	176	131	74.0	24.6	6.44	1.86	0.21	1712	1689												
40	0.27	2.29	9.26	41.9	104	166	213	242	257	260	246	210	158	100	39.2	8.49	2.14	0.24	2060	2041												
30	0.30	2.48	11.6	53.6	122	188	235	262	274	276	265	231	176	115	51.4	10.7	2.36	0.26	2277	2261												
-30	0.31	2.56	13.2	59.9	131	198	246	273	283	282	270	237	184	122	58.4	12.3	2.49	0.27	2377	2362												
	0.31	2.54	13.0	59.7	131	197	245	274	285	284	270	237	184	122	59.1	12.5	2.52	0.27	2379	2364												
	0.30	2.42	11.2	52.9	121	187	237	268	282	278	260	227	173	117	53.1	11.2	2.43	0.26	2284	2268												
	0.28	2.21	8.72	41.1	103	167	219	251	266	262	239	203	155	103	40.6	9.02	2.22	0.24	2072	2054												
	0.25	1.94	6.46	26.2	75.5	133	184	217	233	229	206	171	131	77.1	25.3	6.90	1.92	0.21	1725	1702												
-40	0.21	1.61	4.86	13.7	42.0	87.0	131	163	180	178	161	131	88.8	40.8	13.8	5.19	1.55	0.18	1244	1211												
-50	0.17	1.24	3.61	7.76	16.5	36.0	62.9	87.5	102	102	88.2	63.0	34.8	16.2	7.96	3.71	1.15	0.14	634	577												
-60	0.13	0.87	2.42	4.93	8.15	12.0	17.2	22.7	26.4	26.3	22.7	17.1	11.8	7.84	4.72	2.34	0.76	0.10	188	54.2												
-70	0.08	0.51	1.34	2.57	4.11	5.67	7.11	8.23	8.82	9.02	8.47	7.10	5.52	3.89	2.39	1.20	0.43	0.06	76.5	0.00												
-80	0.04	0.20	0.46	0.81	1.20	1.59	1.95	2.21	2.32	2.30	2.14	1.85	1.48	1.09	0.70	0.38	0.16	0.03	20.9	0.00												
-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)																	20	30	40	50	60	70	80	90
Φ t	3.51	27.5	107	423	1008	1653	2199	2568	2747	2736	2532	2132	1574	969	410	103	26.0	3.00	21221	---												
Φ a	0.00	0.00	34.9	368	957	1605	2152	2520	2701	2690	2484	2084	1525	918	355	29.9	0.00	0.00	---	20423												

one-half-peak spread: U:43.4,D:51.0 , L:43.3,R:45.6

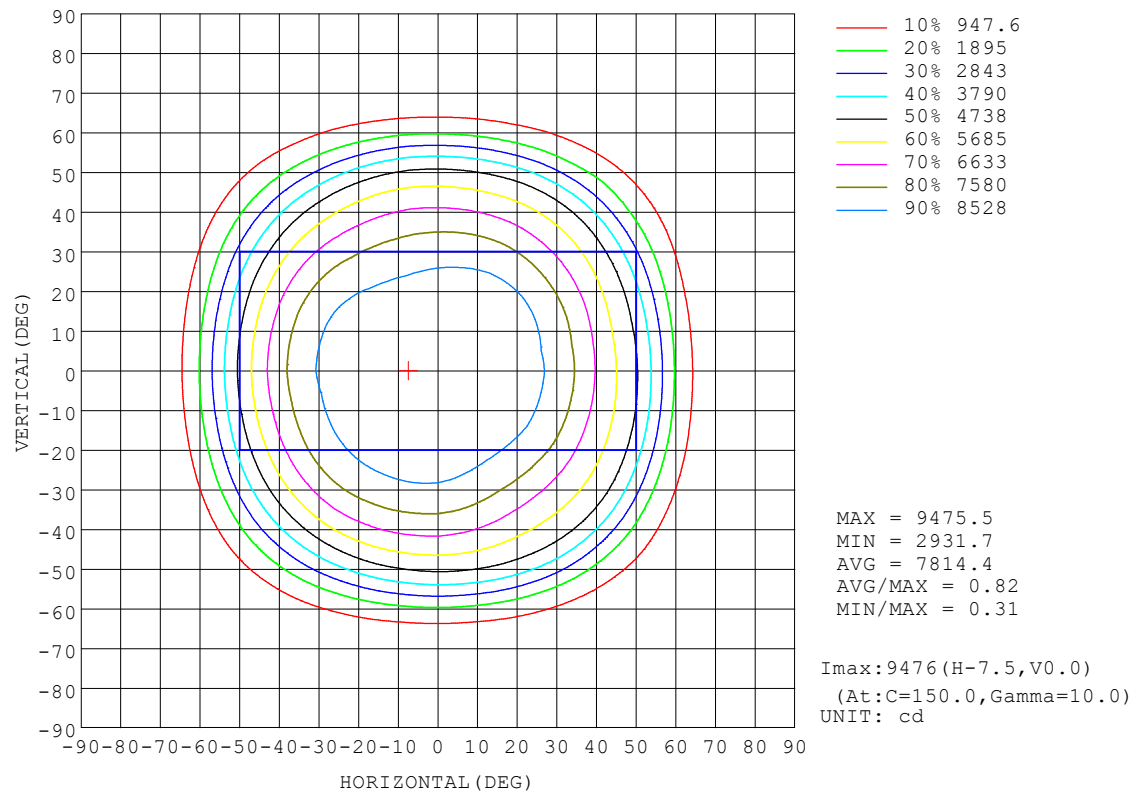
NEMA Beam Type: Type 6

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:27 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: 98LONDON150/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F310	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

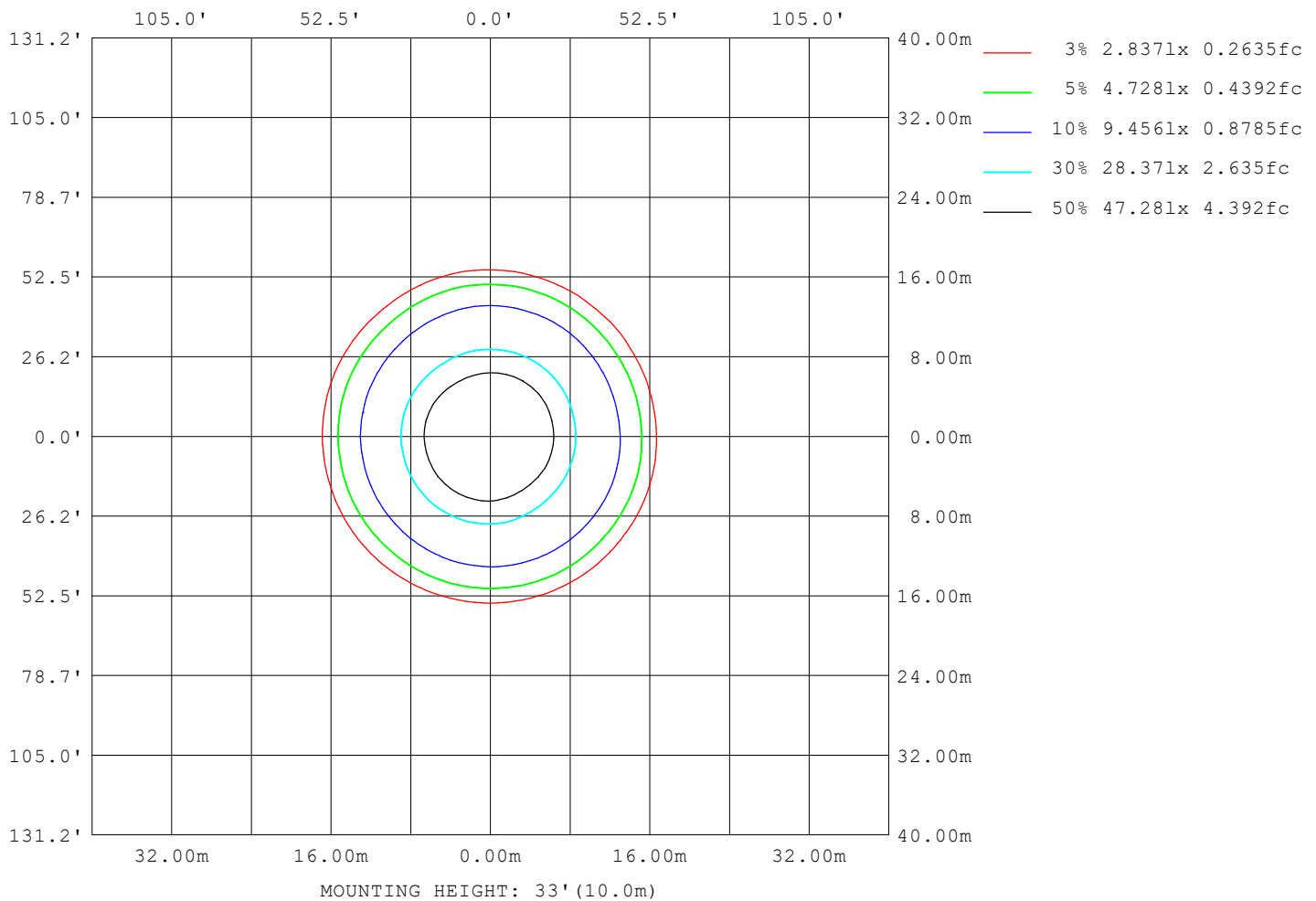


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 27 October 2022

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:

ISOLUX DIAGRAM

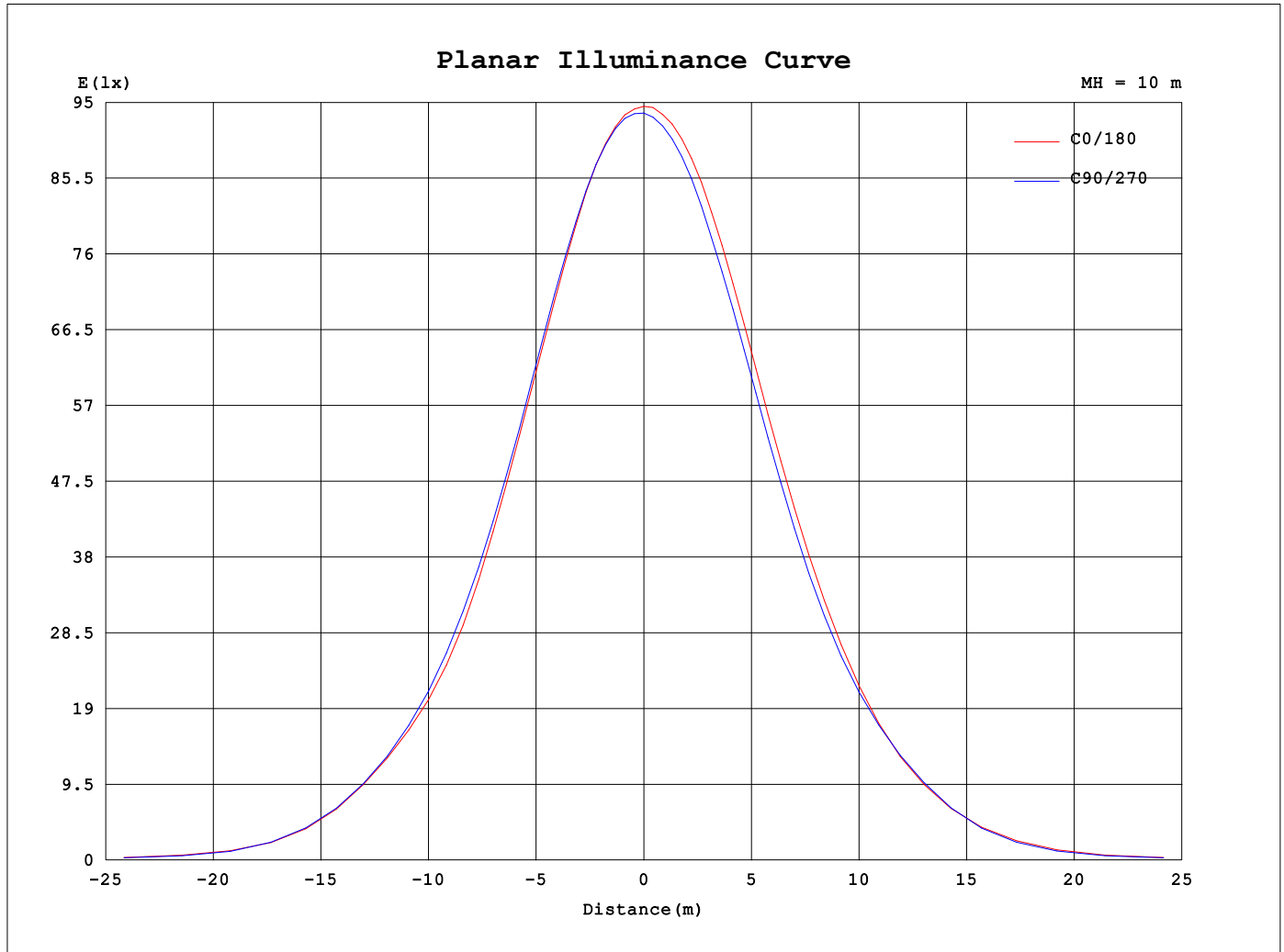
NAME: 98LONDON150/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F310	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



C Range: 0 - 360DEG
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 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

Planar Illuminance Curve

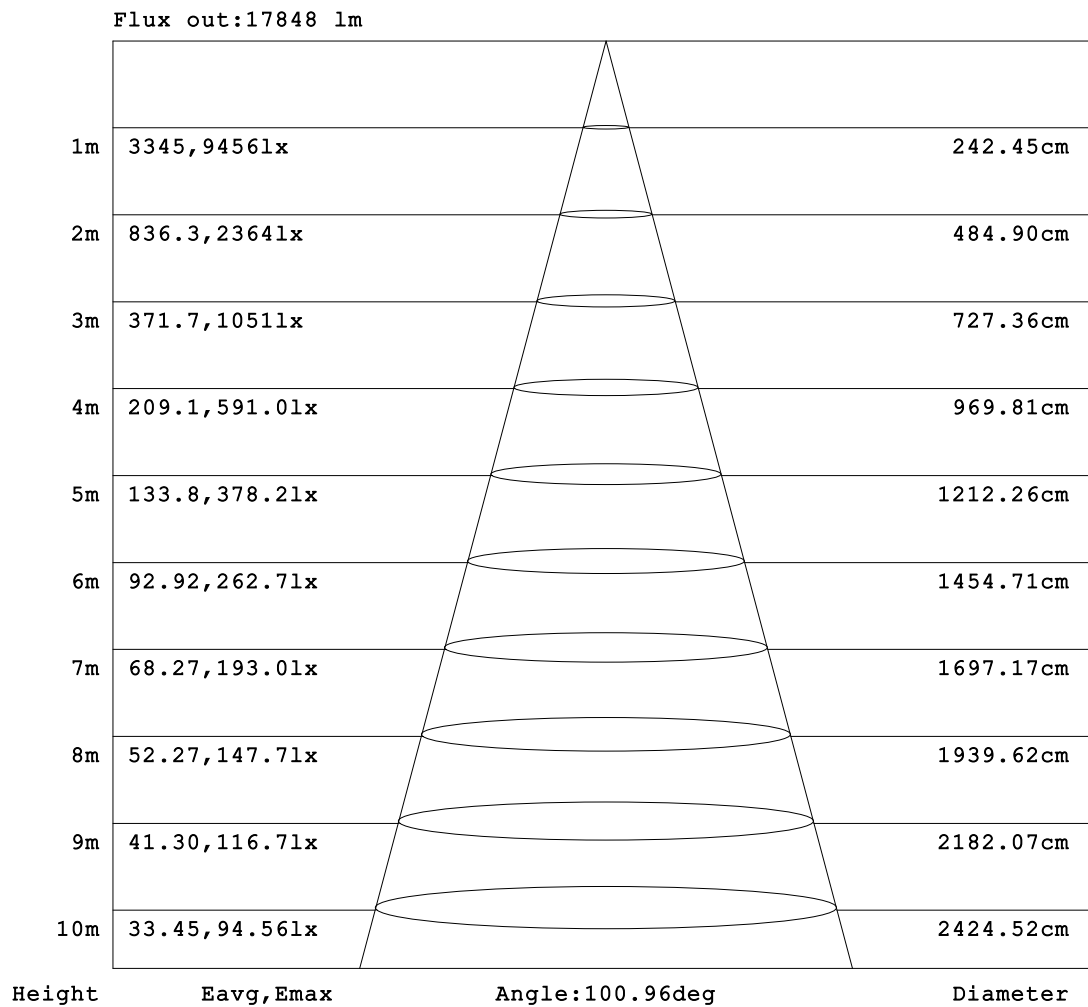


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 27 October 2022

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: 98LONDON150/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F310	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: MEDIUM

Temperature:25.3°C

Operators:

Test Date:27 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: 98LONDON150/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F310	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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	6.57	6.69	6.82	6.55	6.28	6.15	6.03	6.00	5.97	5.98	5.98	5.99	6.00	6.02	6.03	6.05	6.07	6.08	6.10
-85	6.57	13.0	19.1	24.6	29.8	35.1	40.0	44.9	49.7	54.0	57.6	61.3	64.6	67.2	69.3	70.7	71.5	71.8	71.5
-80	6.57	19.2	31.4	42.8	55.1	67.4	79.3	91.7	102	112	122	133	142	151	160	163	164	167	170
-75	6.57	25.3	43.6	63.3	81.8	103	123	145	166	188	208	225	240	257	271	279	283	289	292
-70	6.57	31.3	57.3	83.7	111	142	173	209	246	281	310	333	353	375	395	410	420	431	438
-65	6.57	37.1	70.6	106	143	184	230	280	330	374	417	460	511	557	631	683	714	739	750
-60	6.57	42.7	83.3	128	176	229	289	352	417	489	572	718	894	1100	1321	1531	1680	1776	1810
-55	6.57	48.6	97.0	151	210	275	348	432	536	703	982	1361	1802	2251	2657	2996	3244	3406	3474
-50	6.57	54.3	110	174	243	320	412	538	759	1164	1752	2411	3040	3600	4078	4439	4690	4851	4919
-45	6.57	59.5	122	196	275	364	490	718	1185	1894	2720	3512	4215	4797	5260	5609	5833	5961	6001
-40	6.57	64.3	133	216	306	415	583	1010	1775	2730	3660	4493	5220	5813	6265	6601	6813	6927	6950
-35	6.57	68.6	144	234	335	466	742	1397	2423	3514	4493	5357	6106	6709	7140	7447	7634	7726	7739
-30	6.57	72.4	154	251	361	530	939	1842	3038	4195	5216	6115	6857	7440	7837	8090	8259	8356	8347
-25	6.57	75.7	163	266	388	587	1170	2286	3578	4773	5829	6738	7465	7987	8336	8573	8744	8826	8820
-20	6.57	78.4	170	279	414	675	1403	2668	4029	5250	6322	7223	7901	8362	8690	8930	9081	9148	9131
-15	6.57	80.5	175	289	435	750	1628	2983	4381	5633	6707	7558	8182	8625	8946	9152	9281	9333	9314
-10	6.57	82.0	179	296	451	808	1797	3226	4647	5906	6969	7781	8370	8803	9108	9281	9377	9415	9395
-5	6.57	82.9	181	301	463	848	1905	3381	4827	6102	7154	7935	8495	8907	9180	9334	9401	9401	9411
0	6.57	83.1	182	302	468	867	1949	3444	4906	6193	7244	8039	8611	9033	9295	9431	9471	9459	9456
5	6.57	82.8	182	303	469	859	1915	3394	4847	6128	7179	7977	8548	8962	9208	9328	9353	9338	9314
10	6.57	81.8	180	301	464	830	1817	3251	4685	5958	7011	7827	8409	8816	9063	9170	9211	9223	9239
15	6.57	80.3	176	295	453	782	1658	3020	4430	5690	6748	7587	8172	8582	8822	8950	9023	9058	9101
20	6.57	78.1	170	286	436	715	1441	2708	4083	5316	6355	7189	7817	8238	8497	8651	8764	8839	8894
25	6.57	75.4	163	275	413	631	1214	2330	3631	4834	5848	6684	7324	7784	8064	8266	8409	8519	8598
30	6.57	72.2	154	259	386	574	994	1890	3074	4237	5239	6068	6713	7188	7531	7773	7952	8088	8161
35	6.57	68.4	143	242	359	508	801	1440	2445	3525	4525	5353	6004	6498	6879	7163	7374	7517	7574
40	6.57	64.2	131	223	328	453	641	1058	1791	2724	3671	4515	5195	5726	6128	6437	6654	6788	6819
45	6.57	59.5	120	201	296	398	536	771	1207	1890	2698	3496	4215	4818	5262	5600	5820	5943	5964
50	6.57	54.4	108	178	262	352	446	581	804	1186	1736	2361	3000	3602	4113	4497	4772	4924	4957
55	6.57	48.9	95.2	154	227	302	371	457	568	739	996	1333	1772	2231	2639	3003	3284	3440	3476
60	6.57	43.1	81.9	128	189	251	305	363	429	504	592	727	909	1115	1327	1543	1706	1789	1799
65	6.57	37.5	69.8	107	152	200	242	286	330	373	423	473	535	589	662	717	757	777	780
70	6.57	31.7	57.4	84.7	118	151	183	217	248	281	312	341	367	397	424	443	456	459	456
75	6.57	25.7	44.5	65.0	86.2	108	128	153	177	200	221	239	255	273	290	303	314	311	305
80	6.57	19.6	32.3	45.1	59.1	71.7	83.3	97.9	112	125	138	148	156	165	173	179	184	183	180
85	6.57	13.3	20.0	26.5	33.0	39.0	44.7	50.9	57.1	62.3	67.0	71.3	75.0	77.6	79.6	81.5	83.0	83.1	82.6
90	6.57	7.05	7.54	7.89	8.25	8.53	8.81	8.96	9.11	9.14	9.18	9.25	9.31	9.27	9.23	8.95	8.67	8.34	8.01

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:27 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: 98LONDON150/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F310	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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	6.10	6.11	6.11	6.12	6.12	6.12	6.13	6.14	6.15	6.15	6.16	6.18	6.18	6.19	6.20	6.20	6.19	6.18	
-85	70.7	69.4	68.0	66.1	63.2	59.7	56.3	52.3	47.5	42.3	37.1	31.7	27.7	23.5	19.4	15.2	10.7	6.18	
-80	168	165	161	154	145	136	128	118	106	94.2	81.7	68.9	57.2	45.1	32.9	24.0	15.2	6.18	
-75	297	298	288	274	255	236	219	201	179	156	135	110	91.3	70.3	51.8	33.1	19.6	6.18	
-70	440	437	427	410	382	352	325	294	262	228	198	166	132	99.5	70.5	45.5	23.9	6.18	
-65	739	715	684	633	562	512	454	406	356	312	267	222	179	132	91.6	57.5	28.1	6.18	
-60	1765	1661	1508	1290	1068	868	699	568	486	413	347	288	229	168	112	69.1	32.1	6.18	
-55	3422	3270	3026	2672	2239	1744	1291	942	700	551	443	358	285	207	137	81.9	37.6	6.18	
-50	4869	4724	4497	4172	3705	3092	2373	1660	1105	767	568	436	340	244	160	94.0	42.8	6.18	
-45	5917	5747	5511	5204	4849	4350	3615	2688	1795	1130	739	526	390	283	184	105	47.6	6.18	
-40	6826	6600	6291	5931	5580	5180	4624	3779	2706	1687	987	625	448	319	207	116	52.1	6.18	
-35	7603	7358	7024	6615	6179	5764	5303	4642	3615	2371	1327	764	507	353	228	128	56.1	6.18	
-30	8213	7972	7652	7268	6794	6281	5778	5221	4367	3063	1751	934	573	383	247	139	59.7	6.18	
-25	8681	8457	8170	7829	7378	6809	6191	5604	4888	3673	2222	1130	632	412	264	148	62.7	6.18	
-20	9001	8817	8588	8296	7891	7315	6590	5901	5215	4164	2631	1342	708	437	277	155	65.2	6.18	
-15	9210	9053	8864	8629	8268	7715	6952	6150	5448	4486	2986	1544	766	456	287	161	67.3	6.18	
-10	9326	9215	9055	8833	8493	7981	7236	6365	5599	4694	3232	1686	807	468	293	165	68.7	6.18	
-5	9386	9328	9194	8969	8628	8137	7421	6506	5679	4808	3371	1770	832	474	296	167	69.6	6.18	
0	9453	9413	9296	9053	8702	8210	7501	6563	5694	4831	3406	1794	838	474	295	168	69.9	6.18	
5	9322	9316	9220	8979	8620	8135	7433	6518	5637	4748	3328	1756	819	467	293	167	69.7	6.18	
10	9264	9274	9184	8938	8559	8044	7300	6386	5507	4576	3150	1659	783	454	289	165	68.9	6.18	
15	9134	9143	9050	8799	8402	7845	7089	6190	5348	4338	2882	1503	731	436	281	161	67.5	6.18	
20	8922	8918	8798	8526	8105	7504	6741	5917	5091	4009	2541	1296	663	413	270	156	65.5	6.18	
25	8610	8562	8411	8112	7656	7036	6324	5570	4736	3525	2153	1093	586	386	257	149	63.0	6.18	
30	8150	8080	7900	7567	7077	6485	5849	5128	4195	2932	1712	902	531	357	240	140	60.0	6.18	
35	7556	7444	7225	6869	6405	5895	5303	4521	3443	2267	1301	732	467	330	222	130	56.5	6.18	
40	6772	6635	6406	6102	5709	5224	4565	3651	2574	1621	960	587	413	299	204	119	52.4	6.18	
45	5903	5768	5562	5280	4891	4306	3505	2585	1774	1089	708	491	359	267	184	108	47.9	6.18	
50	4902	4749	4505	4161	3649	2987	2275	1660	1080	742	542	409	313	232	162	96.2	43.0	6.18	
55	3419	3249	2967	2592	2171	1683	1255	929	696	541	429	341	266	200	139	83.9	37.7	6.18	
60	1759	1655	1486	1267	1059	867	702	576	494	417	345	281	220	166	115	70.8	32.1	6.18	
65	772	746	700	642	571	521	466	420	374	327	274	222	175	133	94.1	58.7	28.0	6.18	
70	451	440	426	408	384	359	336	309	280	243	204	166	133	101	72.8	46.1	23.7	6.18	
75	301	295	289	280	264	246	228	209	188	165	140	116	94.5	73.1	53.4	33.1	19.3	6.18	
80	180	178	175	169	159	149	136	122	112	99.6	86.3	72.5	60.1	47.2	33.8	23.6	14.8	6.18	
85	82.5	81.7	80.5	78.4	73.7	68.7	64.3	59.3	53.3	47.1	41.0	34.5	29.4	24.3	19.3	14.3	10.2	6.18	
90	7.56	7.10	6.53	5.96	5.61	5.26	5.08	4.90	4.89	4.88	4.90	4.91	4.92	4.92	4.94	4.95	5.57	6.18	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:27 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: