

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	501.5 cd per klm.
(Luminaire orientation as tested.)	1.5 degrees vertical
	-10.0 degrees horizontal

Beam Spread	At 10% of Imax	128.4V x 129.1H
	At 50% of Imax	100.0V x 97.8H
	At 90% of Imax	48.3V x 49.8H

Beam Flux	Total	1085.0 lumens per klm.
	To 10% of Imax	1050.6 lumens per klm.
	To 50% of Imax	840.4 lumens per klm.
	To 90% of Imax	264.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	108.5 %

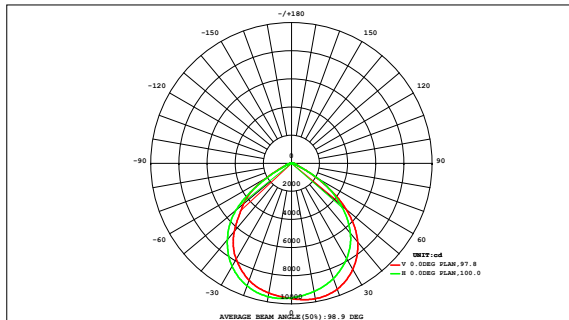
Luminaire Efficiency (Light Output Ratio)	108.5 %
---	---------

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: 98LONDON150SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F310	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98LONDON150SMD	Imax (cd)	9779
NOMINAL POWER (W)	150	AVAILABILITY (%)	104.7
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	20414
NOMINAL FLUX (lm)	19500	LOR (%)	108.5
LAMPS INSIDE	1	TOTAL FLUX (lm)	21152
TEST VOLTAGE (V)	230	θ @50% (H,V)	98,100DEG

90 80 70 60 50 40 30 -30 -40 -50 -60 -70 -80 -90	AREA FLUX DIAGRAM															UNIT:lm				Φ t	Φ a									
	0.04	0.18	0.43	0.77	1.18	1.57	1.93	2.20	2.32	2.30	2.12	1.81	1.41	1.01	0.65	0.35	0.14	0.03	20.4	0.00										
0.07	0.46	1.24	2.42	3.94	5.52	7.04	8.32	8.75	8.45	7.77	6.54	5.06	3.59	2.17	1.08	0.38	0.06	72.9	0.00											
0.11	0.78	2.32	4.58	7.68	11.7	17.3	23.1	27.0	27.0	23.0	16.9	11.3	7.33	4.23	2.01	0.67	0.09	187	56.2											
0.14	1.15	3.58	7.68	16.4	35.3	63.2	89.9	106	106	91.3	65.8	36.7	16.4	7.15	3.07	0.99	0.12	650	594											
0.18	1.53	4.95	14.1	42.2	89.0	137	171	187	185	166	135	91.3	43.4	13.9	4.36	1.31	0.15	1287	1256											
0.21	1.86	6.68	27.1	78.0	138	187	220	236	234	214	177	131	77.6	27.3	6.21	1.61	0.18	1765	1743											
0.24	2.12	9.05	42.9	107	171	221	253	269	268	249	210	155	99.0	42.9	8.79	1.88	0.21	2111	2094											
0.26	2.28	11.6	55.5	126	192	242	274	288	285	266	228	173	110	53.9	11.6	2.09	0.22	2322	2307											
0.26	2.35	13.4	62.1	134	201	252	284	294	288	270	232	179	115	59.1	13.4	2.22	0.23	2402	2388											
0.26	2.31	13.3	61.6	132	197	247	278	288	282	263	227	176	114	59.3	13.6	2.25	0.23	2357	2343											
0.25	2.16	11.3	54.4	121	185	233	264	275	268	247	214	165	106	54.6	12.1	2.16	0.22	2216	2201											
0.23	1.94	8.40	42.4	103	164	212	241	253	247	225	192	144	94.5	44.3	9.52	1.97	0.20	1983	1966											
0.21	1.67	5.86	27.1	76.3	130	177	207	219	215	193	158	117	77.0	29.3	6.88	1.69	0.18	1642	1621											
0.18	1.37	4.20	13.5	43.9	86.6	126	154	168	166	148	120	88.4	47.4	15.5	4.86	1.35	0.15	1190	1160											
0.14	1.05	3.05	6.80	16.5	38.5	66.0	89.1	102	103	91.9	71.0	42.4	18.5	7.88	3.30	0.99	0.12	662	610											
0.10	0.71	2.02	4.09	7.03	11.1	17.4	24.8	30.1	30.8	26.5	19.2	12.2	7.50	4.24	2.02	0.65	0.09	200	76.2											
0.07	0.41	1.10	2.11	3.40	4.75	5.99	7.11	7.77	8.03	7.66	6.41	4.89	3.40	2.05	1.02	0.36	0.05	66.6	0.00											
0.03	0.16	0.37	0.64	0.95	1.26	1.55	1.77	1.89	1.89	1.78	1.53	1.23	0.90	0.58	0.32	0.13	0.03	17.0	0.00											
-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)															20	30	40	50	60	70	80	90
Φ t	2.99	24.5	103	430	1021	1662	2213	2593	2764	2726	2493	2082	1536	943	429	104	22.9	2.55	21152	---										
Φ a	0.00	0.00	34.5	378	974	1617	2169	2549	2720	2682	2449	2038	1492	897	378	37.5	0.00	0.00	---		20414									

one-half-peak spread: U:49.0,D:43.8 , L:40.8,R:57.5

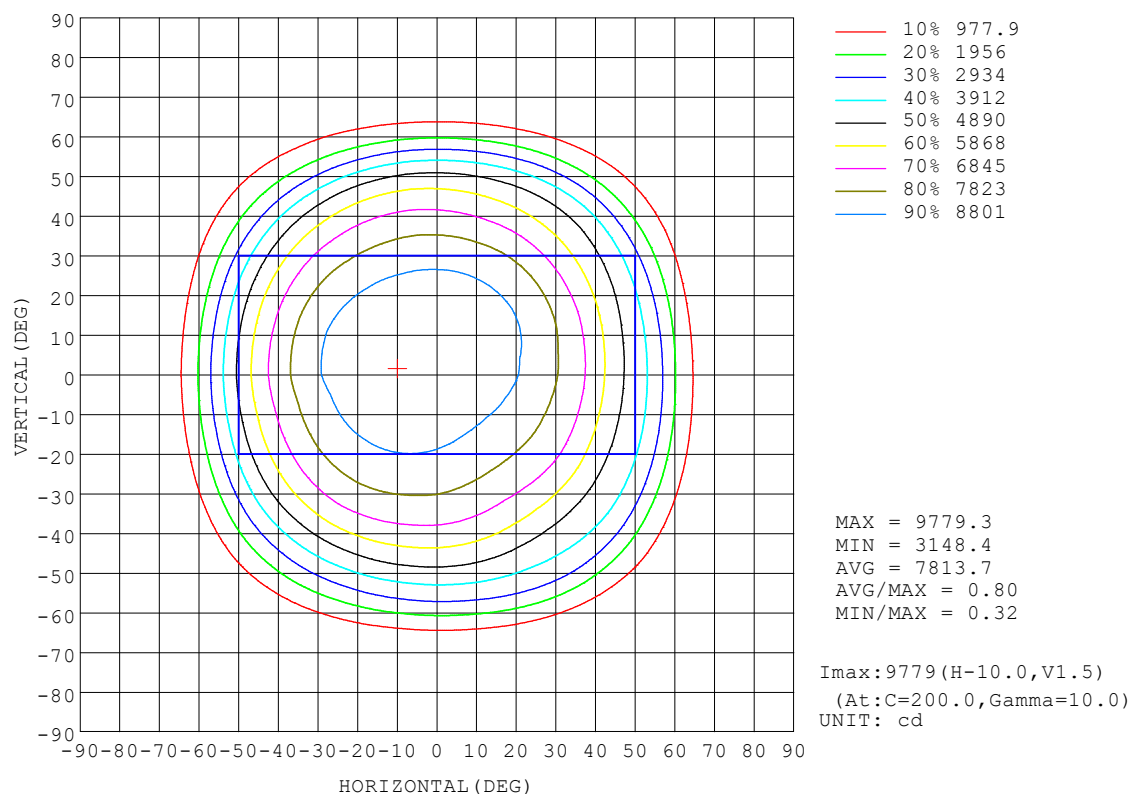
NEMA Beam Type: Type 6

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: 98LONDON150SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F310	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

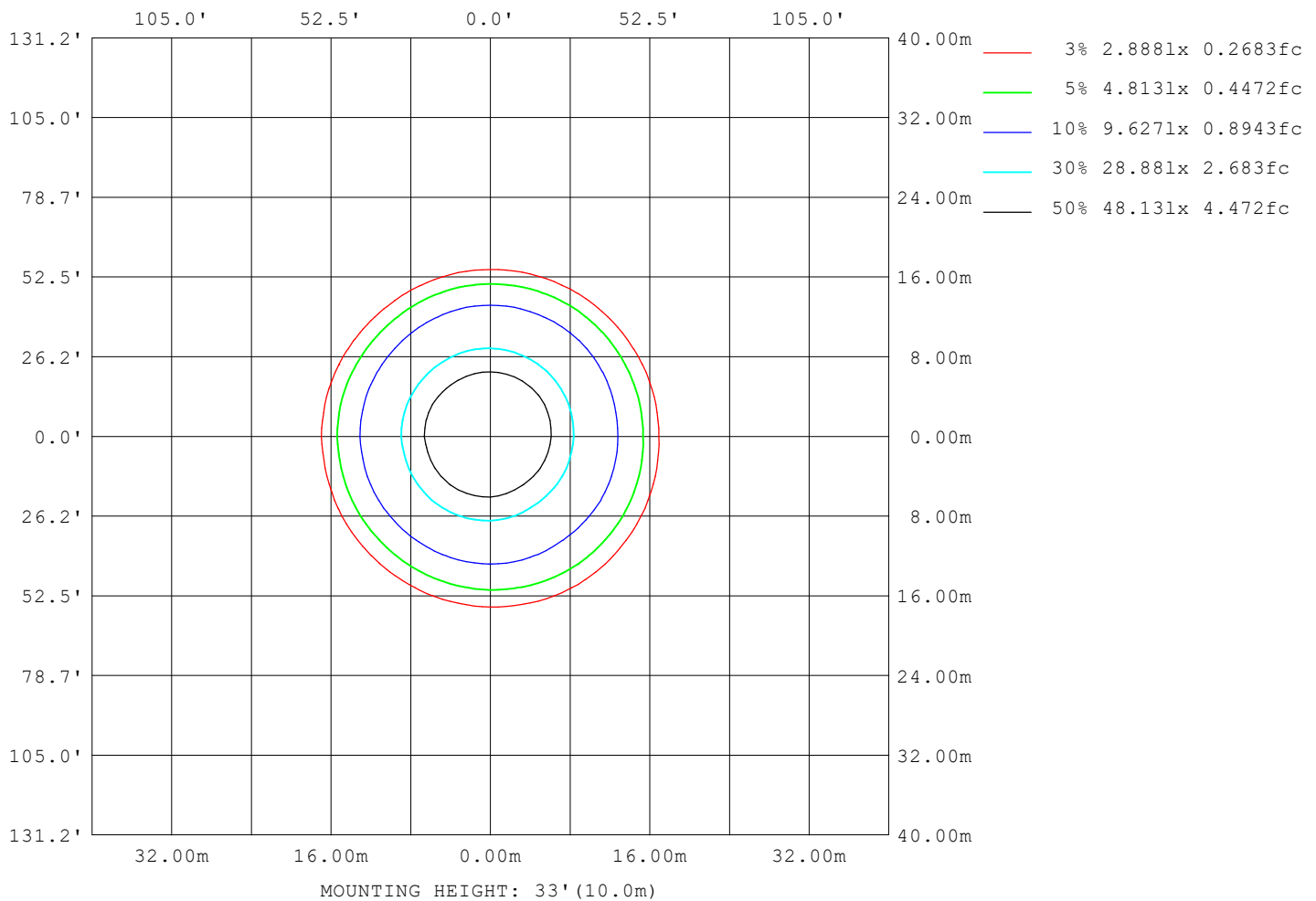


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 27 October 2022

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**

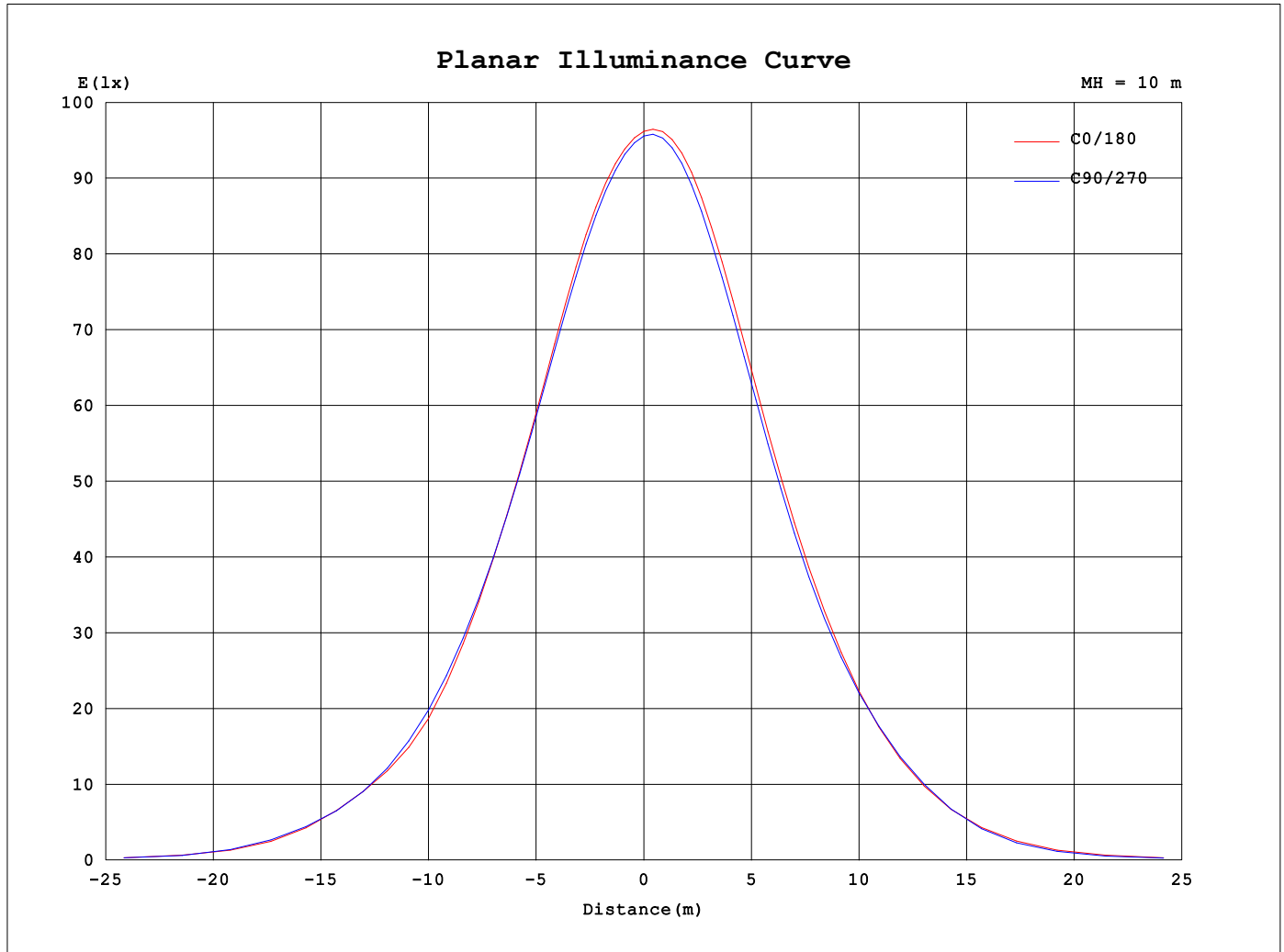
NAME: 98LONDON150SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F310	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



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:

# Planar Illuminance Curve

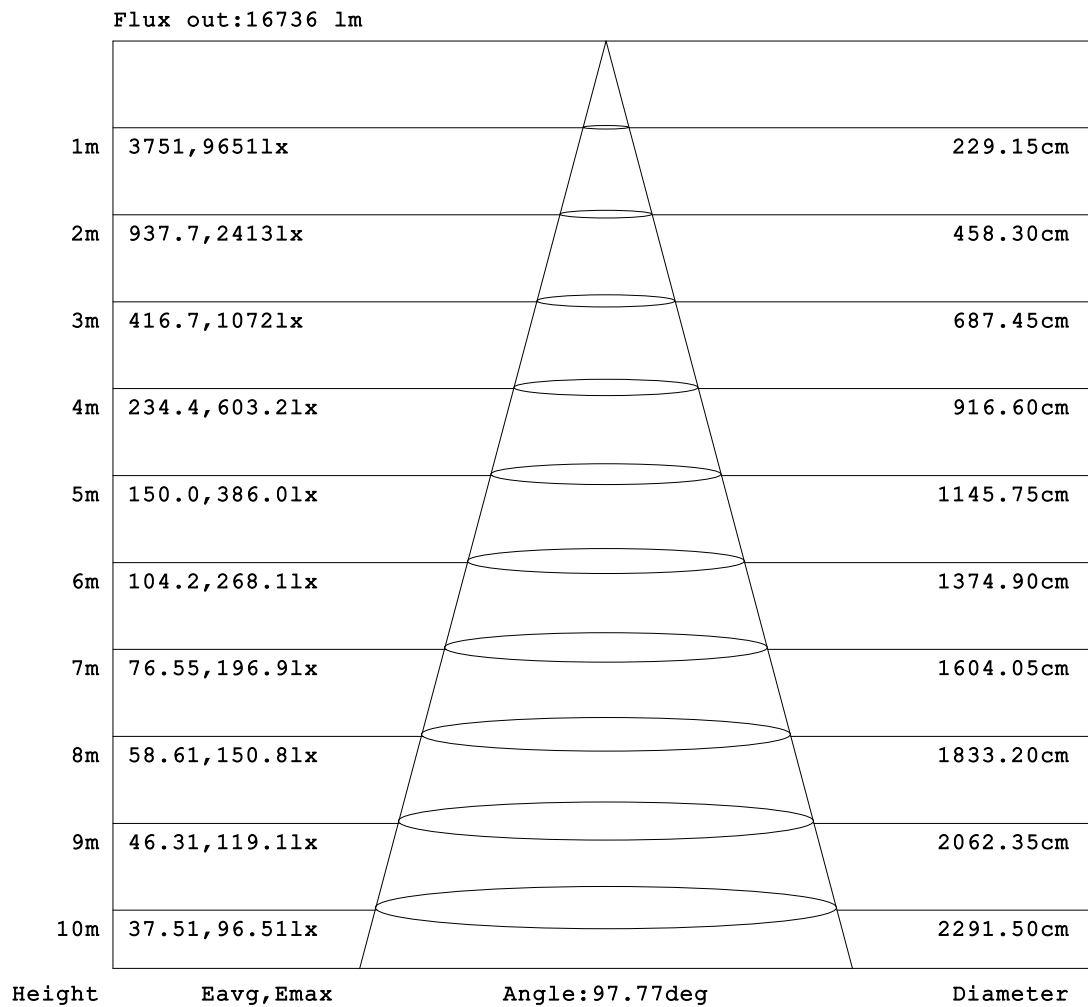


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 27 October 2022

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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: 98LONDON150SMD	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: 98LONDON150SMD	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	6.29	6.27	6.25	6.17	6.10	6.06	6.03	6.02	6.01	6.00	6.00	5.99	5.99	5.99	5.99	5.99	5.99	6.00	6.00
-85	6.29	11.2	15.7	19.8	23.5	27.3	30.9	34.8	38.2	41.9	45.2	48.0	50.3	52.6	54.5	55.7	56.5	57.3	57.5
-80	6.29	16.1	25.1	33.6	43.7	53.8	63.3	73.0	81.9	90.4	98.4	108	115	123	131	135	138	139	139
-75	6.29	20.9	34.5	50.8	66.2	83.6	100	119	137	156	174	187	199	214	228	237	244	250	253
-70	6.29	25.7	46.0	67.9	91.5	117	144	172	202	234	263	285	304	328	352	372	388	402	410
-65	6.29	30.3	57.2	87.1	119	155	190	231	277	319	364	410	475	537	644	725	780	829	859
-60	6.29	34.7	68.0	106	149	192	241	295	359	437	534	720	959	1240	1521	1780	1973	2107	2170
-55	6.29	39.8	80.0	127	178	232	295	370	488	694	1037	1491	1979	2410	2791	3072	3273	3407	3470
-50	6.29	44.7	91.3	147	206	273	354	487	756	1235	1879	2521	3072	3529	3911	4207	4407	4528	4571
-45	6.29	49.2	102	166	235	314	432	697	1239	2011	2798	3487	4076	4578	4982	5291	5489	5595	5614
-40	6.29	53.3	112	184	262	361	530	1029	1871	2814	3654	4391	5035	5571	5978	6270	6439	6521	6522
-35	6.29	57.0	123	201	291	412	716	1454	2518	3554	4453	5236	5922	6466	6834	7085	7220	7270	7255
-30	6.29	60.4	132	217	316	481	943	1926	3116	4215	5172	5993	6661	7164	7511	7723	7838	7871	7842
-25	6.29	63.2	141	232	345	544	1202	2376	3645	4795	5779	6610	7242	7712	8035	8233	8346	8374	8324
-20	6.29	65.6	148	245	372	649	1454	2762	4094	5273	6270	7085	7696	8140	8456	8664	8774	8788	8721
-15	6.29	67.5	154	256	396	739	1689	3075	4452	5659	6657	7436	8038	8486	8806	9013	9115	9109	9024
-10	6.29	68.9	158	265	416	809	1868	3327	4735	5945	6937	7707	8300	8762	9089	9294	9376	9347	9252
-5	6.29	69.8	161	271	432	857	1983	3495	4945	6177	7170	7928	8505	8957	9284	9484	9559	9523	9427
0	6.29	70.2	162	274	441	883	2032	3572	5057	6312	7328	8108	8714	9186	9523	9710	9774	9728	9622
5	6.29	69.9	162	276	442	868	1989	3521	5007	6268	7288	8082	8699	9171	9493	9682	9759	9732	9642
10	6.29	69.2	160	274	436	832	1880	3375	4853	6121	7147	7957	8593	9059	9369	9564	9664	9677	9630
15	6.29	67.9	157	270	425	775	1705	3134	4594	5869	6902	7734	8363	8825	9145	9357	9480	9518	9508
20	6.29	66.1	152	263	408	699	1468	2797	4228	5502	6535	7369	8014	8488	8824	9057	9200	9264	9275
25	6.29	63.8	145	252	386	606	1224	2388	3743	5014	6052	6894	7553	8044	8387	8649	8815	8908	8932
30	6.29	61.1	137	239	360	547	989	1916	3148	4384	5447	6310	6982	7484	7856	8138	8325	8442	8464
35	6.29	57.9	127	223	334	478	784	1446	2478	3615	4696	5594	6294	6824	7231	7522	7722	7845	7858
40	6.29	54.2	115	205	304	424	612	1048	1794	2755	3773	4694	5441	6031	6479	6795	6998	7105	7104
45	6.29	50.2	105	184	273	370	505	748	1196	1884	2722	3586	4371	5028	5519	5884	6121	6242	6246
50	6.29	45.7	94.1	162	239	325	416	552	779	1165	1723	2374	3056	3700	4245	4652	4946	5112	5150
55	6.29	40.9	82.7	138	205	275	342	425	538	707	973	1321	1764	2242	2671	3057	3356	3535	3595
60	6.29	35.9	70.5	113	170	225	276	333	400	473	562	707	892	1101	1319	1544	1718	1821	1854
65	6.29	31.3	59.8	93.4	135	178	217	259	305	350	397	445	510	565	639	696	737	760	766
70	6.29	26.6	48.7	73.1	103	133	163	195	227	259	290	319	345	374	399	416	427	429	426
75	6.29	21.7	37.2	55.5	74.2	94.2	111	136	161	182	202	218	234	253	270	282	290	286	277
80	6.29	16.7	27.1	37.8	50.3	61.6	72.2	85.4	99.2	111	121	132	140	149	157	163	168	166	162
85	6.29	11.7	17.0	22.4	27.9	32.7	37.3	42.7	48.2	52.6	56.5	60.4	63.7	66.1	68.0	69.9	71.3	71.5	71.1
90	6.29	6.54	6.80	7.02	7.24	7.32	7.39	7.42	7.46	7.40	7.35	7.32	7.28	7.21	7.15	7.01	6.87	6.69	6.51

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: 98LONDON150SMD	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	5.99	5.99	5.99	5.98	5.98	5.98	5.99	6.00	6.01	6.02	6.04	6.06	6.08	6.09	6.11	6.13	6.13	6.14	
-85	57.2	56.5	55.2	53.5	51.2	48.5	45.8	42.6	39.0	35.0	30.5	25.9	22.9	19.8	16.6	13.3	9.74	6.14	
-80	141	140	138	133	125	116	108	99.1	89.6	79.8	68.8	57.7	47.9	37.7	27.4	20.4	13.3	6.14	
-75	259	261	256	245	227	207	191	175	156	136	115	93.8	77.4	59.4	43.7	27.7	16.8	6.14	
-70	417	417	410	395	367	333	301	267	235	202	171	140	112	84.8	59.9	38.4	20.3	6.14	
-65	849	818	772	698	596	533	455	396	337	286	237	194	154	114	78.2	48.8	23.6	6.14	
-60	2146	2051	1893	1652	1366	1061	802	603	492	401	321	255	200	146	95.8	58.8	26.8	6.14	
-55	3445	3349	3193	2977	2637	2193	1643	1144	784	572	433	328	251	180	118	69.8	31.6	6.14	
-50	4513	4375	4171	3915	3633	3274	2761	2055	1348	864	587	416	305	213	139	80.2	36.0	6.14	
-45	5518	5325	5051	4699	4339	3999	3618	3024	2179	1353	813	523	358	249	161	89.9	40.2	6.14	
-40	6404	6186	5877	5471	5038	4592	4188	3732	3016	2012	1144	646	423	282	181	99.5	44.0	6.14	
-35	7127	6907	6596	6201	5735	5215	4687	4223	3660	2690	1564	835	490	317	199	110	47.5	6.14	
-30	7700	7478	7181	6841	6411	5861	5223	4627	4086	3258	2044	1054	572	348	215	119	50.5	6.14	
-25	8172	7949	7673	7364	6998	6477	5785	5024	4392	3688	2505	1296	645	379	230	127	53.1	6.14	
-20	8568	8352	8083	7784	7434	6969	6280	5415	4649	3981	2891	1537	743	406	242	133	55.3	6.14	
-15	8878	8686	8435	8130	7767	7305	6658	5770	4878	4177	3164	1756	816	426	250	138	57.0	6.14	
-10	9116	8952	8731	8423	8021	7550	6925	6050	5072	4313	3355	1906	868	439	255	141	58.2	6.14	
-5	9309	9173	8970	8659	8241	7739	7116	6253	5220	4404	3464	1989	896	445	257	143	58.9	6.14	
0	9498	9360	9164	8850	8405	7882	7232	6359	5296	4443	3489	2005	902	443	256	143	59.2	6.14	
5	9519	9384	9197	8891	8428	7897	7231	6354	5305	4432	3444	1972	881	436	255	143	59.0	6.14	
10	9531	9399	9216	8902	8437	7871	7157	6250	5229	4356	3312	1873	837	422	251	141	58.4	6.14	
15	9428	9293	9096	8781	8321	7730	6988	6065	5091	4228	3095	1709	771	403	244	138	57.3	6.14	
20	9219	9085	8865	8529	8064	7442	6659	5780	4889	4018	2797	1481	684	378	234	134	55.6	6.14	
25	8883	8741	8506	8160	7669	7008	6239	5430	4619	3670	2399	1234	580	349	222	128	53.6	6.14	
30	8404	8249	8005	7630	7105	6461	5767	5037	4238	3162	1934	990	513	318	208	120	51.0	6.14	
35	7778	7601	7334	6941	6431	5869	5265	4551	3653	2519	1463	772	436	291	192	112	48.0	6.14	
40	7006	6815	6536	6178	5742	5239	4636	3851	2841	1821	1052	577	377	261	176	102	44.6	6.14	
45	6149	5964	5703	5371	4963	4431	3731	2856	1933	1205	732	463	321	232	159	92.5	40.8	6.14	
50	5076	4901	4637	4295	3827	3219	2509	1786	1186	769	521	373	276	202	140	82.8	36.6	6.14	
55	3548	3391	3126	2775	2353	1846	1374	990	702	516	392	303	232	173	120	72.1	32.2	6.14	
60	1827	1734	1571	1349	1123	899	703	550	457	377	306	245	191	144	99.3	60.8	27.4	6.14	
65	763	739	692	628	546	490	427	379	333	288	239	193	153	115	81.4	50.6	24.0	6.14	
70	419	407	393	374	349	323	299	272	245	213	178	145	116	87.9	62.9	40.0	20.5	6.14	
75	274	268	261	251	235	217	200	183	165	145	122	101	82.0	63.3	46.3	29.0	16.9	6.14	
80	162	161	156	150	140	130	118	106	96.2	86.2	74.7	62.8	52.1	41.0	29.5	20.8	13.1	6.14	
85	71.0	70.4	67.8	64.7	62.2	59.2	54.6	49.8	45.3	40.5	35.3	29.7	25.6	21.4	17.1	12.9	9.33	6.14	
90	6.20	5.90	5.63	5.36	5.22	5.08	4.99	4.89	4.87	4.85	4.85	4.85	4.85	4.85	4.86	4.86	5.50	6.14	

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: