

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	494.1 cd per klm.
(Luminaire orientation as tested.)	-7.5 degrees vertical
	10.0 degrees horizontal

Beam Spread	At 10% of Imax	124.7V x 125.8H
	At 50% of Imax	102.2V x 101.5H
	At 90% of Imax	50.7V x 51.1H

Beam Flux	Total	1087.1 lumens per klm.
	To 10% of Imax	1040.4 lumens per klm.
	To 50% of Imax	891.2 lumens per klm.
	To 90% of Imax	278.4 lumens per klm.

Upward LOR	0.0 %
Downward LOR	108.7 %

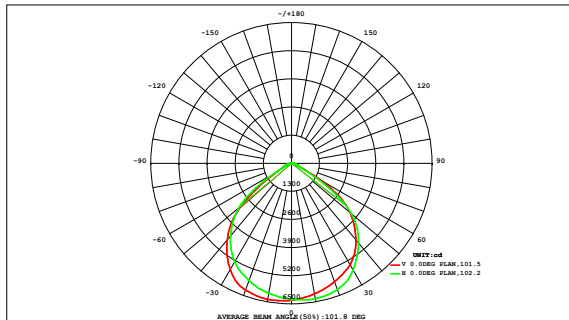
Luminaire Efficiency(Light Output Ratio)	108.7 %
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C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:27 October 2022

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: 98LONDON100SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F260	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98LONDON100SMD	Imax (cd)	6423
NOMINAL POWER (W)	100	AVAILABILITY (%)	104.0
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	13515
NOMINAL FLUX (lm)	13000	LOR (%)	108.7
LAMPS INSIDE	1	TOTAL FLUX (lm)	14128
TEST VOLTAGE (V)	230	θ @50% (H,V)	101,102DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm				Φ t	Φ a
	0.03	0.14	0.34	0.62	0.95	1.29	1.64	1.92	2.03	2.03	1.92	1.64	1.28	0.91	0.56	0.28	0.11	0.02	17.7	0.00		
90	0.06	0.38	1.06	1.99	3.08	4.22	5.27	6.01	6.38	6.47	6.25	5.59	4.53	3.31	2.11	1.06	0.34	0.04	58.1	0.00		
80	0.09	0.66	1.83	3.44	5.38	7.57	10.2	12.7	14.1	13.7	12.0	9.96	7.86	5.79	3.80	2.03	0.68	0.07	112	11.0		
70	0.12	0.92	2.55	5.07	9.94	23.6	41.6	56.2	63.0	60.9	48.3	30.0	15.7	8.60	5.36	2.85	1.02	0.11	376	326		
60	0.15	1.15	3.32	8.59	30.6	64.3	90.1	106	114	115	105	81.8	46.4	17.5	7.12	3.57	1.30	0.15	797	770		
50	0.18	1.35	4.22	19.1	57.6	90.2	116	135	146	147	137	117	83.8	39.0	10.7	4.23	1.52	0.18	1109	1090		
40	0.20	1.53	5.68	32.2	73.1	106	135	155	166	168	158	137	106	61.4	17.9	4.83	1.67	0.20	1330	1315		
30	0.22	1.66	7.60	41.4	82.1	118	146	166	178	181	173	152	119	75.5	25.7	5.48	1.78	0.22	1475	1462		
-30	0.22	1.74	9.02	46.0	87.2	124	153	173	186	189	181	162	127	82.7	30.6	6.00	1.82	0.23	1560	1548		
	0.22	1.75	9.07	46.2	87.8	125	155	176	189	193	187	166	129	84.3	31.1	5.99	1.82	0.23	1588	1576		
	0.22	1.69	7.76	41.8	84.2	121	153	175	188	192	184	160	124	79.4	26.8	5.49	1.76	0.22	1547	1534		
	0.20	1.57	5.92	32.7	76.2	113	145	168	180	181	170	146	113	66.4	19.0	4.86	1.64	0.20	1426	1411		
	0.18	1.39	4.47	19.9	60.2	97.6	128	150	159	158	148	127	92.2	44.0	11.5	4.19	1.47	0.17	1207	1188		
-40	0.15	1.18	3.53	9.48	32.9	69.5	101	121	129	128	117	92.7	54.2	19.9	7.44	3.48	1.25	0.14	892	866		
-50	0.12	0.93	2.66	5.53	11.3	26.4	48.1	66.7	74.2	71.1	58.0	36.5	17.9	9.17	5.41	2.75	0.97	0.11	438	392		
-60	0.09	0.65	1.83	3.55	5.76	8.32	11.3	14.8	16.9	15.9	13.5	10.6	8.08	5.83	3.71	1.94	0.64	0.07	123	25.1		
-70	0.05	0.36	1.00	1.90	2.98	4.18	5.24	5.88	6.16	6.25	6.02	5.33	4.30	3.12	1.96	0.99	0.32	0.04	56.1	0.00		
-80	0.02	0.13	0.31	0.56	0.84	1.14	1.44	1.64	1.70	1.71	1.61	1.35	1.05	0.75	0.47	0.25	0.10	0.02	15.1	0.00		
-90	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)				20	30	40	50	60	70	80	90		
Φ t	2.53	19.2	72.2	320	712	1106	1446	1691	1821	1830	1708	1443	1055	608	211	60.3	20.2	2.42	14128	---		
Φ a	0.00	0.00	23.4	282	677	1073	1411	1657	1786	1794	1670	1403	1014	563	159	2.66	0.00	0.00	---	13515		

one-half-peak spread: U:44.9,D:50.2 , L:62.6,R:39.3

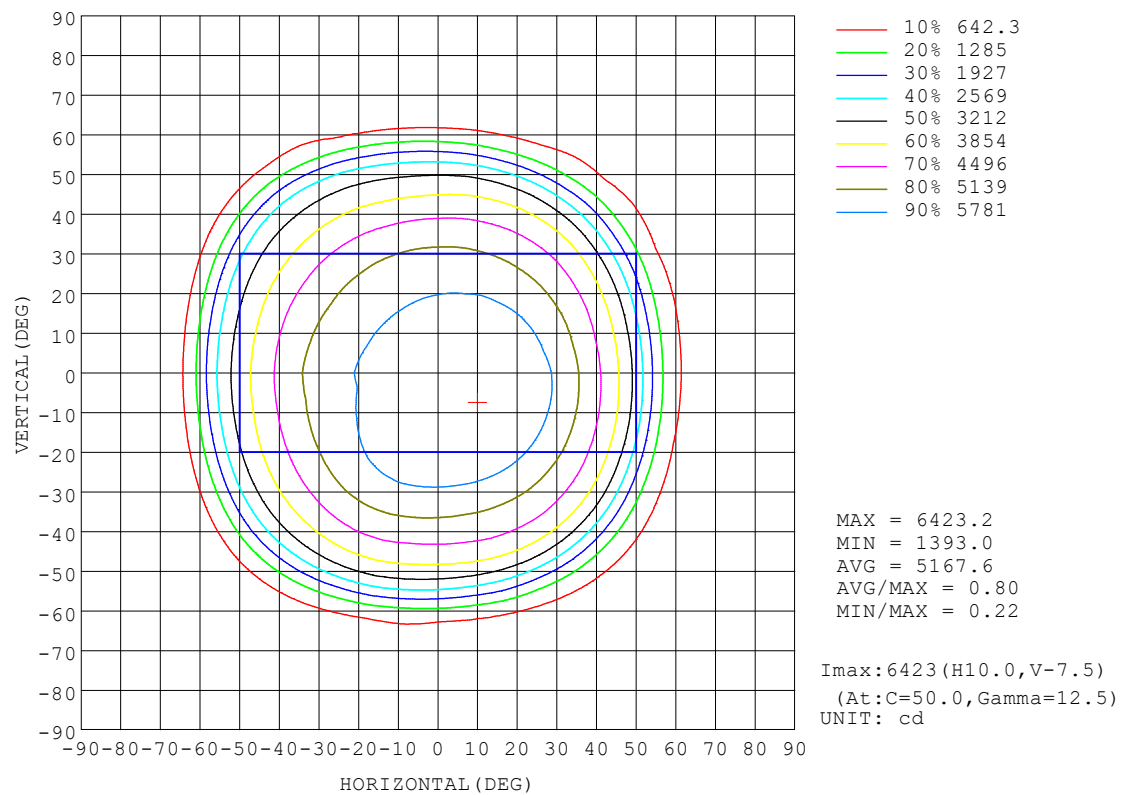
NEMA Beam Type: Type 6

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: 98LONDON100SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F260	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

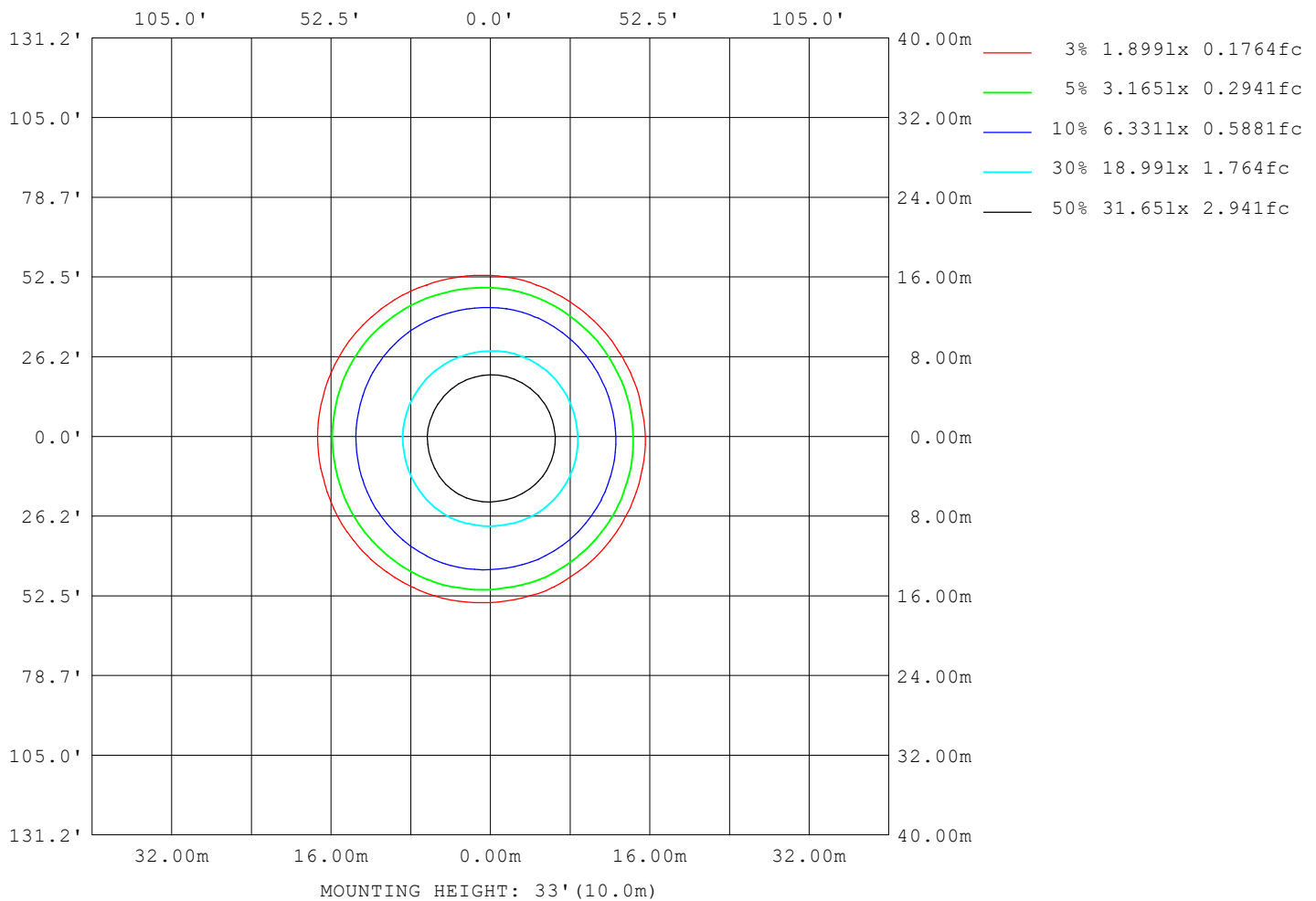


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:27 October 2022

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

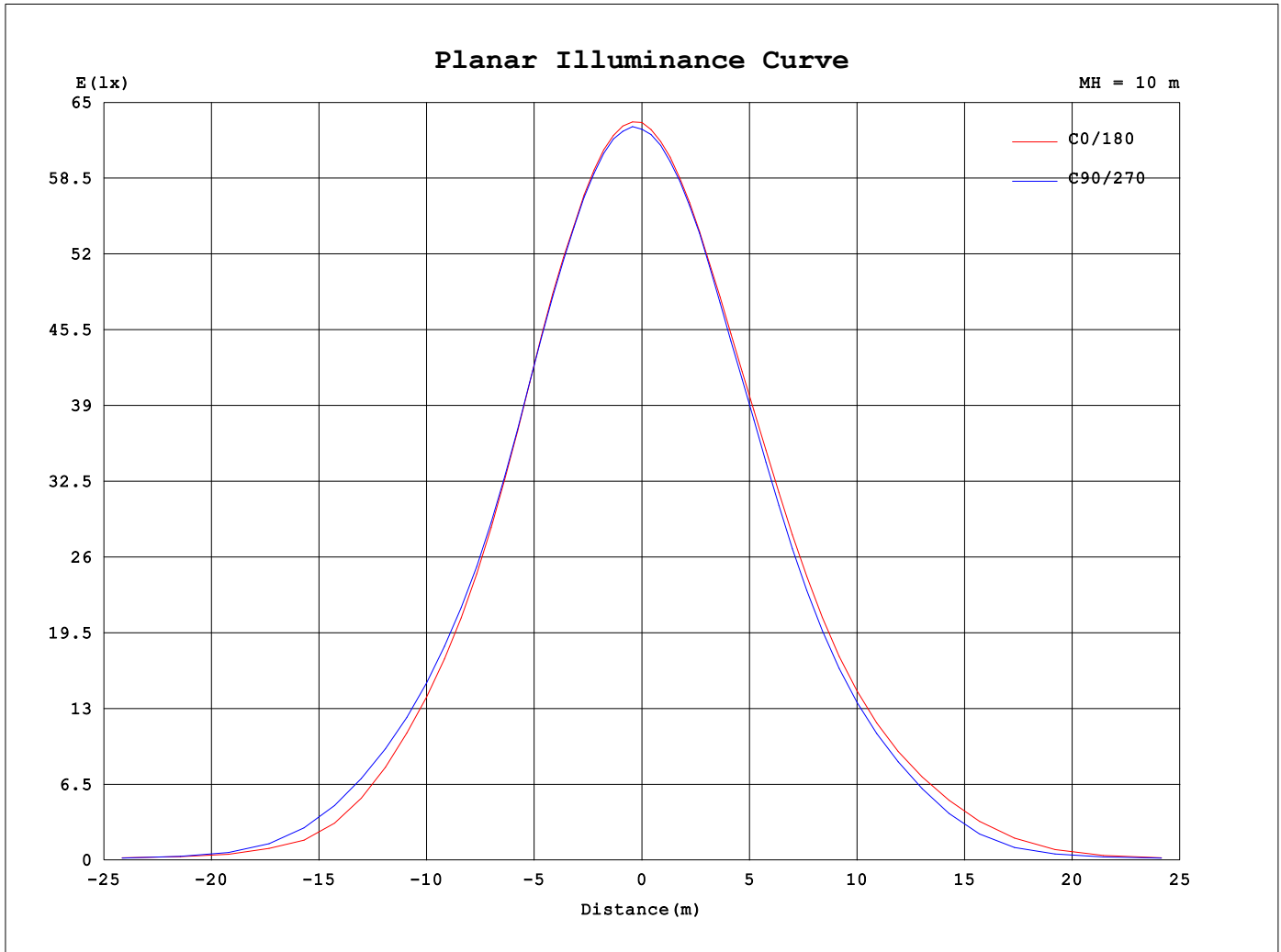
NAME: 98LONDON100SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F260	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



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

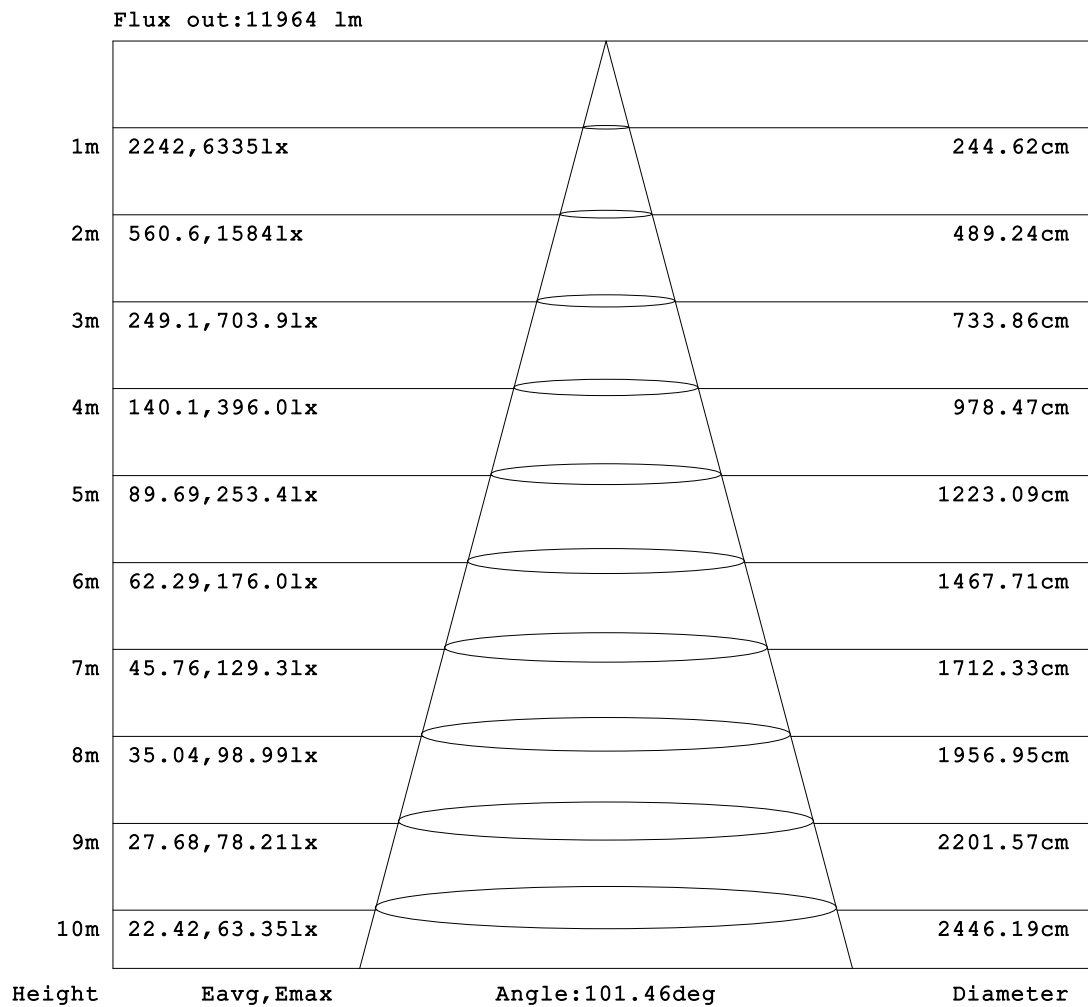


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 27 October 2022

$\gamma$  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: 98LONDON100SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F260	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: 98LONDON100SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F260	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	3.69	3.80	3.90	3.81	3.73	3.69	3.65	3.64	3.63	3.63	3.63	3.65	3.67	3.70	3.72	3.75	3.77	3.79	3.81
-85	3.69	8.04	12.2	16.0	19.6	22.9	26.0	29.7	33.4	36.9	39.9	42.6	44.8	47.8	50.5	51.3	51.5	51.9	51.9
-80	3.69	12.3	20.4	28.3	38.1	47.4	56.4	66.4	75.1	83.5	92.0	101	109	118	125	126	126	128	128
-75	3.69	16.4	28.8	44.5	59.0	76.6	92.0	108	122	138	152	166	179	188	195	198	199	201	201
-70	3.69	20.5	39.8	60.7	84.7	109	132	153	174	197	219	240	257	269	278	282	284	287	289
-65	3.69	24.4	50.4	78.7	110	141	169	201	234	266	297	325	352	374	405	425	434	442	443
-60	3.69	28.2	60.6	96.0	135	170	211	256	298	342	389	467	577	713	875	1048	1138	1155	1137
-55	3.69	33.0	71.1	113	156	203	257	312	371	470	665	966	1340	1724	2060	2314	2457	2518	2495
-50	3.69	37.6	81.0	130	177	237	301	374	504	817	1338	1917	2450	2898	3231	3447	3549	3602	3598
-45	3.69	41.8	90.1	145	199	270	347	480	837	1485	2216	2854	3340	3698	3967	4158	4252	4299	4304
-40	3.69	45.6	98.6	157	219	300	396	698	1385	2234	2957	3489	3905	4242	4507	4681	4773	4814	4824
-35	3.69	49.1	107	168	240	329	493	1032	1970	2850	3465	3942	4335	4668	4929	5111	5227	5280	5276
-30	3.69	52.2	114	178	259	361	639	1447	2478	3273	3827	4280	4665	5011	5286	5488	5620	5686	5695
-25	3.69	54.9	120	188	275	388	831	1843	2868	3570	4093	4541	4935	5276	5552	5758	5911	5985	6026
-20	3.69	57.0	124	195	288	441	1039	2173	3133	3777	4292	4740	5125	5458	5717	5913	6051	6147	6205
-15	3.69	58.8	128	201	299	483	1242	2410	3307	3925	4439	4881	5262	5559	5783	5976	6128	6235	6310
-10	3.69	60.0	131	205	306	514	1393	2588	3424	4018	4538	4979	5340	5601	5805	5998	6153	6265	6350
-5	3.69	60.8	132	207	310	532	1488	2696	3497	4088	4607	5043	5372	5601	5800	5970	6118	6238	6326
0	3.69	61.0	132	207	310	539	1524	2734	3518	4110	4634	5078	5418	5630	5823	5986	6126	6236	6331
5	3.69	60.8	132	206	307	528	1484	2686	3472	4054	4580	5011	5327	5558	5748	5905	6032	6133	6203
10	3.69	60.0	130	203	301	505	1385	2571	3378	3954	4469	4898	5216	5455	5641	5804	5932	6027	6098
15	3.69	58.8	127	198	292	471	1228	2391	3247	3824	4317	4736	5063	5320	5511	5665	5794	5894	5968
20	3.69	57.1	124	192	279	426	1016	2155	3065	3643	4120	4534	4873	5140	5346	5491	5617	5709	5765
25	3.69	54.9	119	184	264	371	804	1818	2805	3423	3873	4269	4629	4915	5126	5295	5407	5494	5545
30	3.69	52.3	113	174	246	342	609	1417	2420	3141	3596	3968	4309	4603	4839	5015	5139	5224	5261
35	3.69	49.3	106	164	229	311	462	985	1907	2749	3261	3634	3944	4214	4445	4623	4749	4834	4864
40	3.69	45.8	98.0	153	210	282	368	643	1298	2142	2808	3230	3544	3795	3997	4143	4261	4344	4384
45	3.69	42.0	89.7	141	192	253	322	432	745	1372	2097	2661	3049	3314	3507	3636	3731	3798	3831
50	3.69	37.8	80.7	128	172	223	280	340	441	713	1205	1734	2212	2597	2847	2996	3090	3155	3179
55	3.69	33.4	71.0	113	154	195	240	287	334	408	591	911	1141	1470	1731	1934	2069	2136	2130
60	3.69	28.6	60.7	96.5	134	167	202	240	275	309	346	403	504	592	704	815	880	900	880
65	3.69	24.8	50.8	80.1	112	141	168	196	223	248	273	298	324	346	370	387	397	402	400
70	3.69	20.8	40.4	62.9	88.3	112	134	155	176	195	213	230	246	260	271	278	281	285	286
75	3.69	16.7	29.8	46.7	63.9	81.0	97.0	113	129	143	156	169	181	190	197	203	207	209	210
80	3.69	12.5	21.1	30.2	41.7	51.6	60.5	71.4	81.5	90.4	98.6	108	117	126	133	138	143	143	141
85	3.69	8.18	12.6	17.1	21.7	25.6	29.3	33.9	38.3	42.4	46.2	49.9	53.0	56.4	59.5	62.1	64.2	64.1	63.4
90	3.69	3.87	4.05	4.16	4.27	4.24	4.22	4.27	4.32	4.31	4.31	4.22	4.13	4.09	4.05	3.96	3.88	3.77	3.66

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: 98LONDON100SMD	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F260	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	3.84	3.86	3.90	3.93	3.97	4.01	4.05	4.10	4.13	4.16	4.19	4.21	4.24	4.26	4.28	4.30	4.31	4.33	
-85	51.6	50.8	48.6	46.1	43.5	40.4	37.6	34.3	30.7	26.6	22.7	18.4	16.4	14.2	12.1	9.70	7.09	4.33	
-80	131	132	129	124	117	108	100	92.3	82.5	72.2	62.5	51.9	42.2	31.6	20.4	15.1	9.84	4.33	
-75	204	204	203	200	194	185	173	159	145	129	111	92.3	75.4	55.6	38.3	21.0	12.6	4.33	
-70	291	291	289	283	272	259	245	228	208	188	164	139	112	85.1	56.2	32.8	15.2	4.33	
-65	440	430	415	395	370	346	320	295	270	241	212	182	150	114	77.1	44.2	17.8	4.33	
-60	1074	973	846	687	557	475	415	373	335	297	258	219	183	143	97.0	55.2	20.3	4.33	
-55	2390	2212	1982	1639	1241	876	632	489	412	359	309	256	212	168	117	67.6	25.6	4.33	
-50	3547	3415	3199	2864	2382	1819	1247	781	529	426	360	294	238	191	137	79.2	30.6	4.33	
-45	4274	4196	4064	3816	3454	2890	2170	1412	807	525	413	334	264	209	154	90.0	35.2	4.33	
-40	4787	4724	4619	4424	4143	3718	3071	2233	1356	733	480	373	291	227	169	100	39.5	4.33	
-35	5229	5155	5038	4871	4630	4281	3765	2993	2010	1094	579	413	317	243	182	110	43.4	4.33	
-30	5649	5565	5420	5233	4990	4659	4229	3584	2632	1537	727	457	343	258	193	119	46.8	4.33	
-25	6019	5956	5810	5591	5311	4970	4553	3983	3136	1975	969	504	364	272	202	126	49.8	4.33	
-20	6219	6203	6116	5908	5601	5239	4797	4258	3492	2375	1189	566	385	284	209	132	52.2	4.33	
-15	6345	6342	6283	6135	5833	5446	4989	4449	3745	2673	1425	641	401	294	215	137	54.2	4.33	
-10	6401	6411	6361	6249	5979	5594	5122	4569	3891	2877	1589	714	412	301	219	140	55.6	4.33	
-5	6392	6416	6372	6262	6049	5673	5193	4631	3963	2986	1679	773	418	305	221	142	56.5	4.33	
0	6371	6381	6334	6235	6044	5672	5194	4630	3961	3001	1696	811	419	306	222	142	56.9	4.33	
5	6235	6224	6174	6074	5888	5552	5098	4552	3886	2927	1645	790	417	306	222	143	56.7	4.33	
10	6125	6110	6054	5949	5749	5409	4965	4421	3740	2765	1524	741	411	303	221	141	55.9	4.33	
15	5973	5954	5894	5776	5548	5215	4791	4259	3555	2531	1340	665	400	297	218	138	54.6	4.33	
20	5784	5765	5686	5533	5295	4969	4556	4022	3275	2222	1102	562	384	288	213	134	52.8	4.33	
25	5555	5510	5408	5235	5004	4685	4271	3701	2899	1843	908	485	366	277	206	129	50.4	4.33	
30	5260	5191	5075	4899	4665	4353	3918	3263	2376	1393	677	443	345	263	198	122	47.6	4.33	
35	4861	4792	4677	4507	4258	3930	3423	2676	1756	975	542	405	322	250	188	113	44.2	4.33	
40	4388	4329	4212	4034	3757	3335	2720	1950	1151	712	453	372	298	234	176	104	40.3	4.33	
45	3839	3776	3644	3410	3048	2497	1846	1182	737	480	397	335	272	217	161	93.7	36.1	4.33	
50	3150	3029	2803	2470	2007	1489	1031	679	480	403	351	298	247	198	144	82.8	31.4	4.33	
55	2048	1875	1611	1288	992	756	564	447	390	347	306	262	220	175	124	71.0	26.3	4.33	
60	840	768	668	562	483	433	391	358	326	294	261	226	191	150	103	58.4	21.0	4.33	
65	400	394	384	371	354	336	313	291	268	244	217	189	158	121	81.7	46.9	18.4	4.33	
70	289	289	287	282	273	261	246	231	213	193	171	148	119	90.2	59.7	34.9	15.6	4.33	
75	212	213	212	209	203	194	182	168	154	138	120	99.5	80.7	58.8	41.3	22.6	12.8	4.33	
80	144	145	143	139	132	124	114	103	93.5	82.9	70.3	56.5	46.1	35.0	23.0	15.9	9.88	4.33	
85	63.5	63.1	61.0	58.5	55.0	51.2	47.7	43.5	39.0	34.2	28.4	22.5	19.6	16.5	13.1	9.78	6.93	4.33	
90	3.60	3.54	3.52	3.50	3.50	3.51	3.53	3.55	3.56	3.58	3.58	3.59	3.59	3.59	3.58	3.57	3.95	4.33	

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: