

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	499.7 cd per klm.
(Luminaire orientation as tested.)	-13.5 degrees vertical
	-4.0 degrees horizontal

Beam Spread	At 10% of Imax	124.2V x 125.0H
	At 50% of Imax	99.4V x 101.9H
	At 90% of Imax	47.0V x 56.0H

Beam Flux	Total	1091.9 lumens per klm.
	To 10% of Imax	1044.6 lumens per klm.
	To 50% of Imax	884.8 lumens per klm.
	To 90% of Imax	276.2 lumens per klm.

Upward LOR	0.0 %
Downward LOR	109.2 %

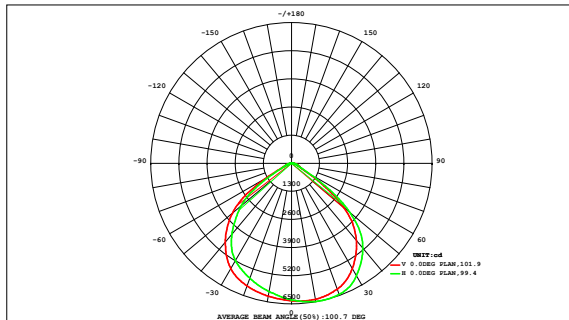
Luminaire Efficiency (Light Output Ratio)	109.2 %
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C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 27 October 2022

γ Range: 0 - 90DEG  
γ Interval: 2.0DEG  
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: 98LONDON100/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F260	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98LONDON100/W	Imax (cd)	6496
NOMINAL POWER (W)	100	AVAILABILITY (%)	104.3
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	13557
NOMINAL FLUX (lm)	13000	LOR (%)	109.2
LAMPS INSIDE	1	TOTAL FLUX (lm)	14191
TEST VOLTAGE (V)	230	θ @50% (H,V)	102,99DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.02	0.14	0.35	0.65	1.00	1.36	1.70	1.91	1.96	1.93	1.80	1.52	1.17	0.83	0.52	0.27	0.10	0.02	17.3	0.00
90	0.02	0.14	0.35	0.65	1.00	1.36	1.70	1.91	1.96	1.93	1.80	1.52	1.17	0.83	0.52	0.27	0.10	0.02	17.3	0.00
80	0.06	0.42	1.16	2.17	3.33	4.50	5.48	6.07	6.26	6.18	5.85	5.14	4.08	2.92	1.85	0.95	0.32	0.04	56.8	0.00
70	0.10	0.75	2.07	3.78	5.71	7.74	9.88	12.3	14.4	14.9	13.4	10.6	7.81	5.47	3.40	1.74	0.59	0.07	115	14.4
60	0.14	1.08	2.87	5.33	8.71	16.5	32.5	49.6	60.8	63.4	56.7	41.9	23.1	10.2	5.20	2.52	0.86	0.10	382	332
50	0.17	1.35	3.60	7.23	19.2	50.1	81.8	101	110	111	103	87.0	62.2	29.4	8.63	3.33	1.10	0.13	780	753
40	0.21	1.57	4.29	11.6	43.2	85.6	115	134	144	145	134	113	87.5	55.0	17.9	4.23	1.32	0.16	1096	1077
30	0.23	1.74	4.97	19.8	65.6	106	136	156	165	164	155	134	103	70.6	29.8	5.46	1.51	0.18	1319	1304
20	0.25	1.86	5.64	28.1	78.8	119	151	171	178	176	166	147	116	80.4	39.0	6.99	1.65	0.20	1467	1454
10	0.26	1.92	6.14	32.8	84.9	127	161	181	188	185	175	157	126	87.8	44.4	8.10	1.73	0.20	1568	1556
0	0.26	1.93	6.16	32.6	85.6	129	164	185	194	193	182	163	131	91.1	45.1	8.11	1.74	0.21	1615	1602
-10	0.25	1.87	5.71	27.7	80.5	125	161	185	196	195	183	161	128	87.9	40.4	7.03	1.68	0.20	1588	1575
-20	0.23	1.75	5.07	19.5	67.4	116	151	176	189	189	175	151	118	77.5	29.9	5.55	1.56	0.18	1473	1457
-30	0.20	1.58	4.41	11.8	43.9	93.3	131	156	168	168	155	132	99.2	56.9	17.0	4.37	1.37	0.16	1244	1225
-40	0.17	1.35	3.69	7.75	19.7	52.5	91.4	119	132	133	121	97.1	63.3	27.6	8.46	3.48	1.15	0.14	883	854
-50	0.13	1.07	2.94	5.70	9.53	17.5	33.4	52.0	64.2	65.9	56.9	39.8	21.7	10.1	5.32	2.60	0.89	0.10	390	339
-60	0.09	0.74	2.11	3.95	6.17	8.56	11.1	13.5	15.2	15.6	13.8	11.0	8.17	5.60	3.45	1.76	0.60	0.07	121	15.0
-70	0.06	0.40	1.14	2.18	3.41	4.70	5.81	6.47	6.62	6.47	6.10	5.37	4.22	2.93	1.82	0.92	0.31	0.04	59.0	0.00
-80	0.03	0.13	0.32	0.58	0.90	1.22	1.52	1.77	1.85	1.80	1.68	1.42	1.09	0.77	0.48	0.25	0.10	0.02	15.9	0.00
-90	0.02	0.14	0.35	0.65	1.00	1.36	1.70	1.91	1.96	1.93	1.80	1.52	1.17	0.83	0.52	0.27	0.10	0.02	17.3	0.00
HORIZONTAL (DEG)																				
Φ t	2.85	21.7	62.6	223	628	1066	1444	1708	1837	1834	1707	1458	1107	703	303	67.7	18.6	2.23	14191	---
Φ a	0.00	0.00	2.51	170	582	1024	1403	1668	1799	1797	1671	1422	1071	667	262	17.3	0.00	0.00	---	13557

one-half-peak spread: U:37.2,D:48.6 , L:41.8,R:60.5

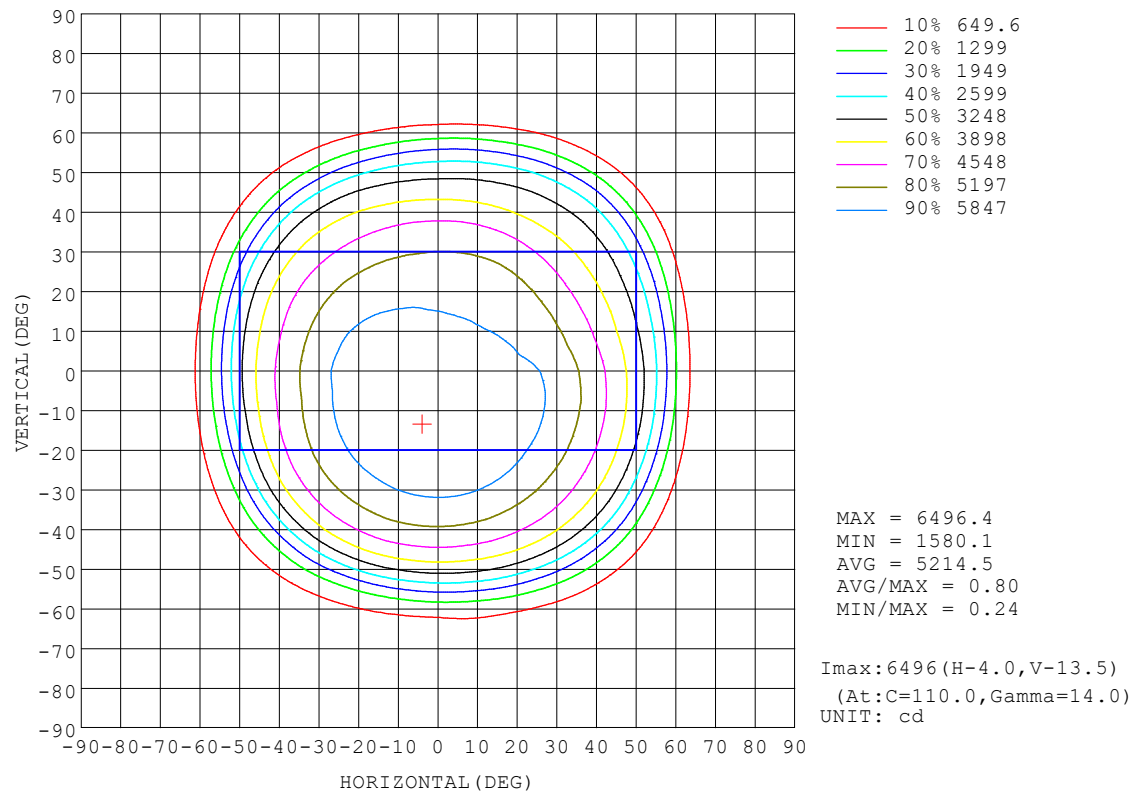
NEMA Beam Type: Type 6

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: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.265m [K=1.0000]  
Remarks:

# ISOCANDELA DIAGRAM

NAME: 98LONDON100/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F260	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

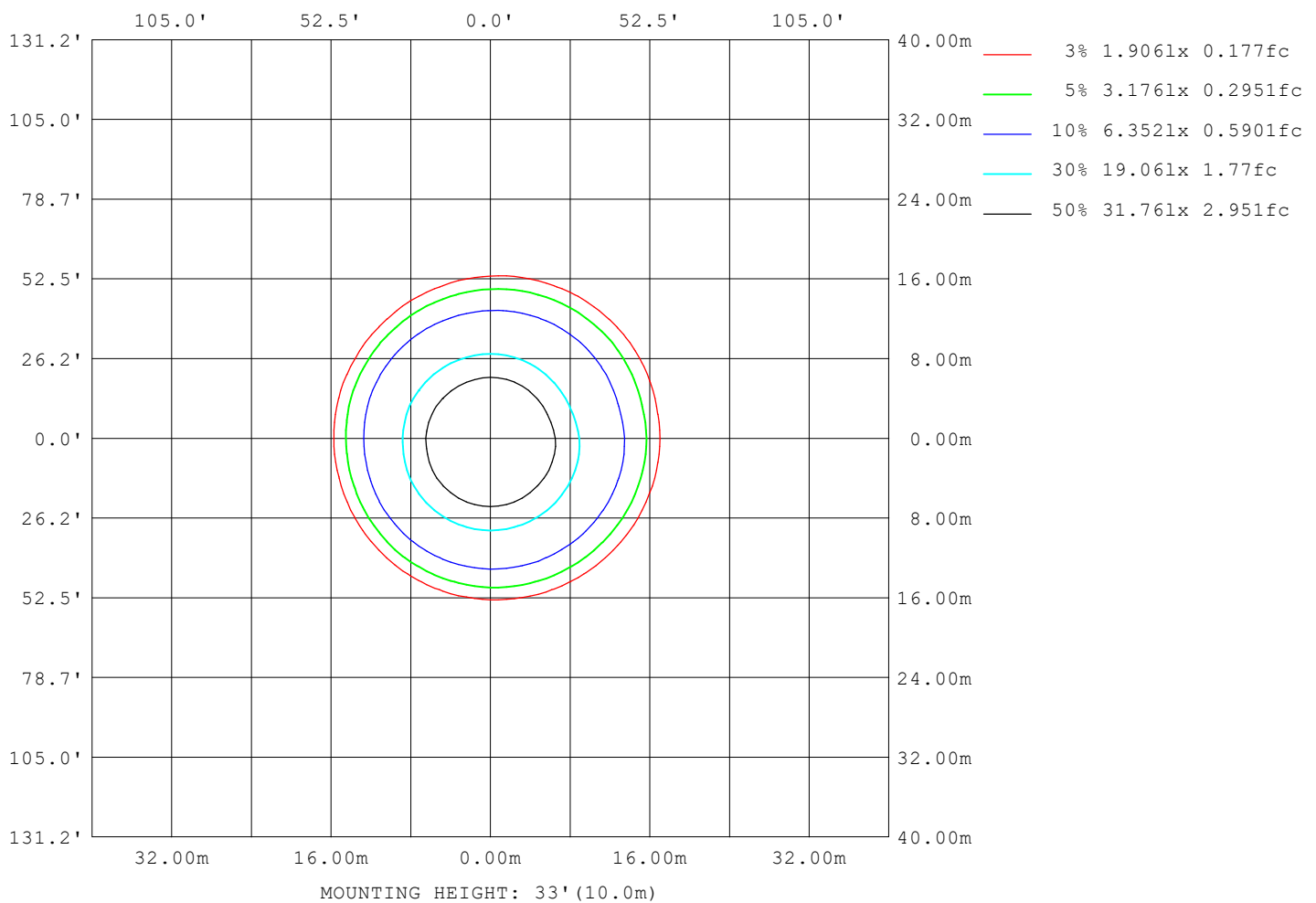


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3°C  
 Operators:  
 Test Date:27 October 2022

γ Range: 0 - 90DEG  
 γ Interval: 2.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity:65.0%  
 Test Distance:6.265m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

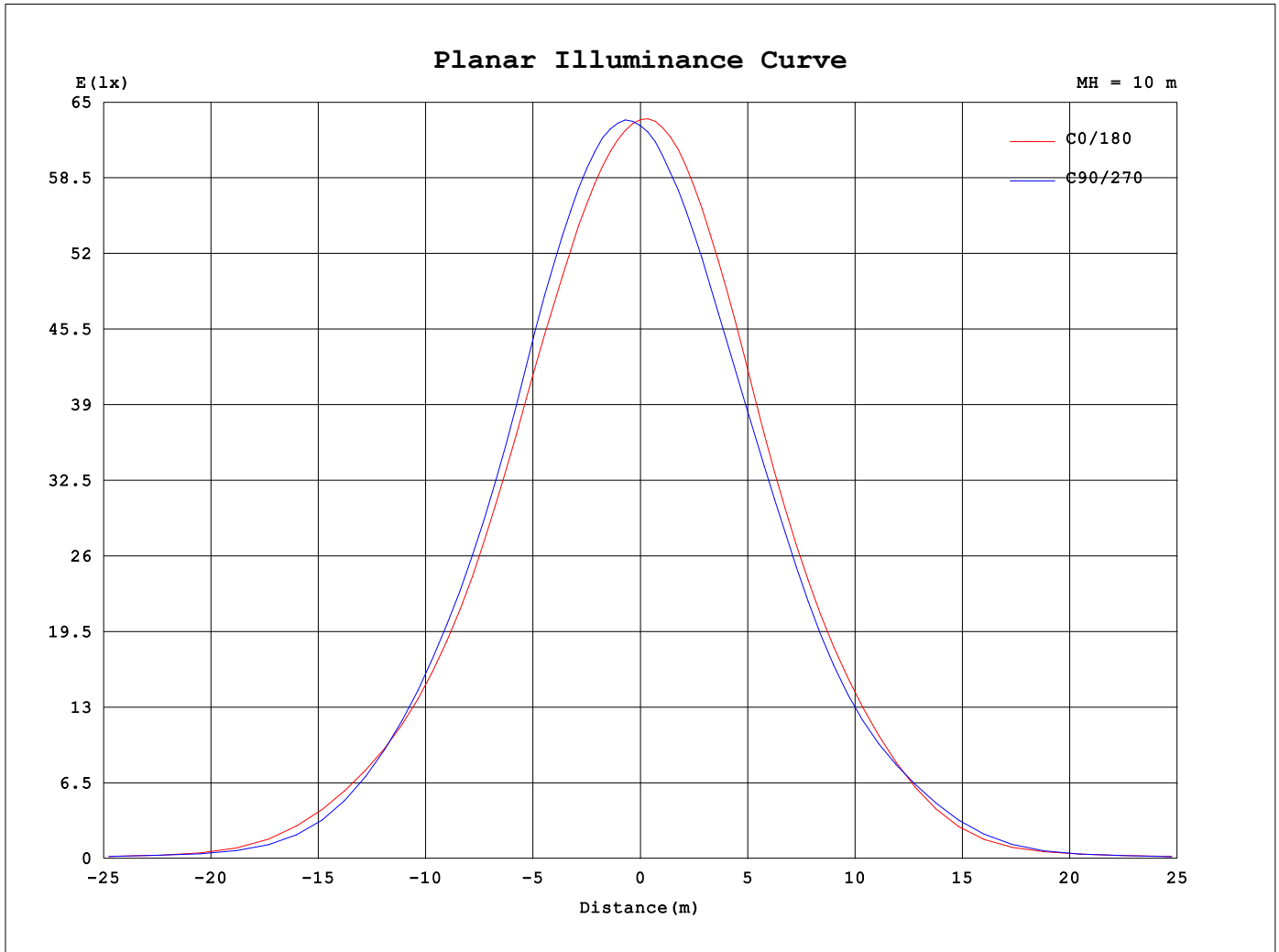
NAME: 98LONDON100/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F260	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



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: 2.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.265m [K=1.0000]  
Remarks:

# Planar Illuminance Curve

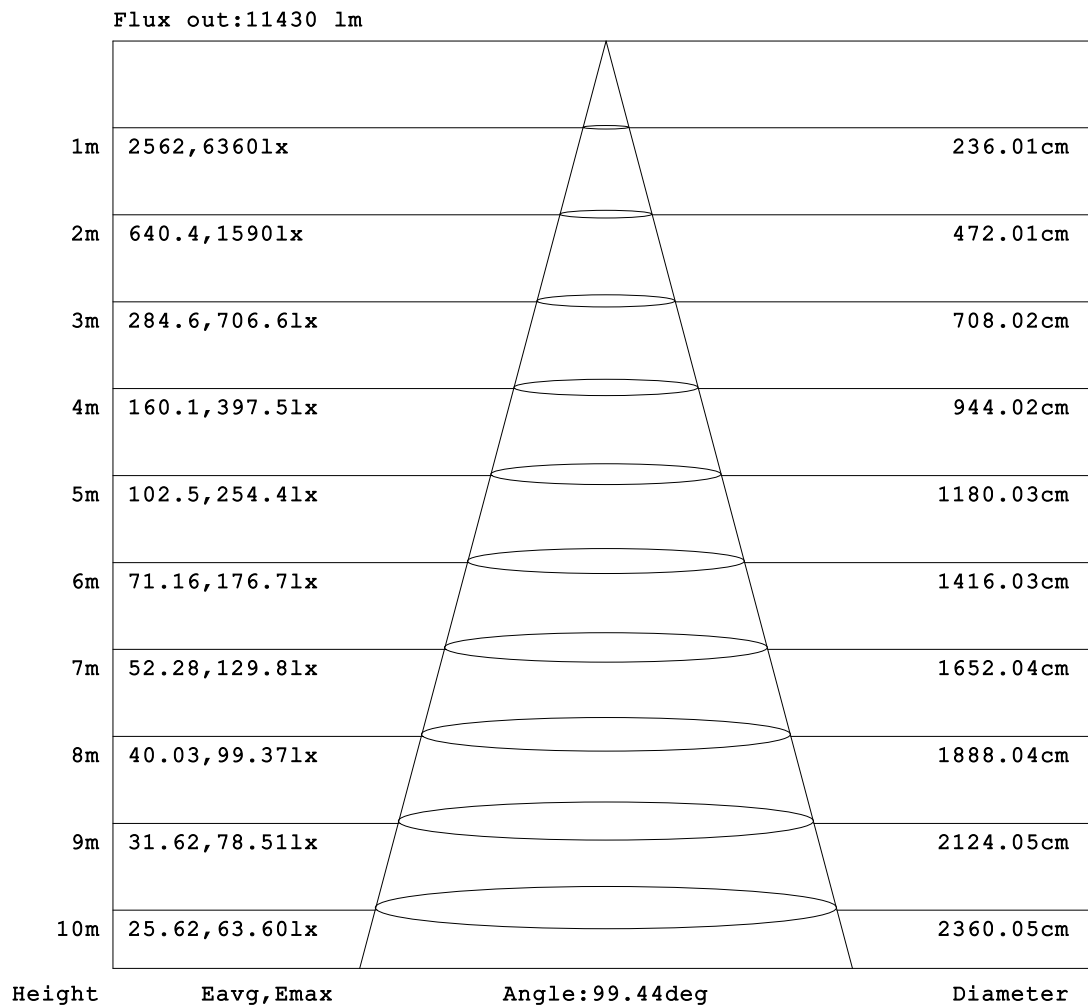


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 27 October 2022

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 2.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

**AAI Figure**

NAME: 98LONDON100/W	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: 2.0DEG  
 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: 98LONDON100/W	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	3.52	3.84	4.17	4.15	4.14	4.13	4.12	4.10	4.09	4.06	4.04	4.01	3.97	3.94	3.91	3.88	3.84	3.81	3.78
-85	3.52	8.05	12.3	15.8	18.9	22.4	27.0	30.8	34.2	37.8	41.1	44.1	46.9	50.0	52.5	54.9	56.9	56.8	56.1
-80	3.52	12.2	20.4	30.4	41.3	51.7	62.1	72.2	82.5	93.5	103	112	121	130	137	140	142	140	137
-75	3.52	16.3	31.2	48.3	68.3	86.7	106	124	141	158	174	190	203	211	216	219	218	217	213
-70	3.52	20.4	42.9	68.9	98.0	126	153	177	201	224	245	263	279	292	304	308	307	306	302
-65	3.52	24.8	54.9	89.7	128	163	195	225	256	285	313	339	367	392	414	431	448	458	460
-60	3.52	30.4	67.8	111	156	197	233	273	313	352	393	435	487	560	637	752	841	908	948
-55	3.52	35.7	80.1	131	182	225	271	325	376	428	499	615	820	1108	1424	1716	1943	2105	2184
-50	3.52	40.7	92.2	150	204	253	311	378	445	551	765	1161	1704	2222	2694	3063	3303	3457	3523
-45	3.52	45.4	104	167	223	281	352	429	549	808	1362	2086	2805	3390	3820	4123	4323	4433	4478
-40	3.52	49.7	114	183	242	309	392	493	748	1341	2184	3044	3739	4229	4578	4836	5000	5097	5128
-35	3.52	53.7	123	196	258	335	430	591	1092	2003	2998	3808	4374	4794	5099	5325	5477	5564	5596
-30	3.52	57.6	132	206	273	359	472	757	1542	2653	3638	4321	4821	5194	5470	5685	5853	5962	6003
-25	3.52	60.9	139	215	287	381	527	996	2008	3180	4066	4679	5133	5479	5761	5996	6167	6269	6309
-20	3.52	63.7	145	223	299	400	578	1248	2421	3546	4342	4908	5342	5701	6001	6223	6365	6431	6448
-15	3.52	65.9	149	228	309	416	660	1481	2732	3788	4513	5048	5477	5854	6146	6335	6432	6492	6491
-10	3.52	67.4	152	233	316	431	722	1669	2943	3931	4604	5121	5559	5936	6196	6347	6444	6485	6486
-5	3.52	68.4	154	235	321	439	759	1793	3074	4014	4663	5164	5600	5947	6185	6320	6397	6421	6413
0	3.52	68.7	155	236	322	441	772	1838	3113	4031	4675	5181	5621	5970	6188	6312	6381	6386	6352
5	3.52	68.5	154	235	320	437	759	1806	3076	3982	4603	5106	5526	5857	6069	6182	6239	6226	6173
10	3.52	67.6	153	232	315	427	721	1694	2954	3878	4483	4980	5387	5715	5910	6013	6070	6064	6019
15	3.52	66.1	150	228	307	412	657	1512	2752	3705	4331	4809	5196	5506	5713	5820	5872	5881	5847
20	3.52	64.0	145	222	297	395	570	1274	2450	3462	4118	4581	4956	5256	5480	5597	5654	5671	5649
25	3.52	61.3	140	214	283	374	513	1013	2057	3108	3821	4296	4656	4950	5174	5328	5410	5443	5439
30	3.52	58.1	133	206	270	352	453	755	1580	2614	3417	3945	4309	4592	4819	4990	5105	5166	5200
35	3.52	54.3	124	196	255	327	412	568	1100	1992	2865	3490	3897	4180	4407	4580	4710	4789	4821
40	3.52	50.2	115	183	239	301	375	461	723	1340	2146	2855	3350	3689	3914	4065	4188	4269	4294
45	3.52	46.0	105	168	221	275	336	399	509	787	1365	2018	2602	3028	3304	3476	3594	3654	3668
50	3.52	41.3	93.3	151	202	248	298	350	407	510	742	1140	1641	2116	2478	2730	2894	2993	3037
55	3.52	36.2	81.5	132	180	220	261	304	345	388	452	573	798	1106	1409	1684	1904	2051	2128
60	3.52	30.9	69.3	112	155	193	225	259	291	322	354	387	433	510	595	727	842	927	978
65	3.52	25.2	56.6	91.4	128	160	189	216	241	264	286	308	329	347	364	380	401	416	422
70	3.52	20.7	44.4	70.8	99.4	126	149	172	192	212	228	243	257	267	275	280	282	284	282
75	3.52	16.5	32.3	50.4	70.5	89.1	107	124	139	154	168	182	192	199	204	206	206	205	202
80	3.52	12.2	21.1	32.4	43.9	54.6	65.5	77.0	88.0	97.5	106	116	125	131	135	137	138	136	133
85	3.52	7.90	12.4	16.9	21.5	25.7	30.4	35.5	40.5	44.6	48.1	51.8	55.3	58.4	61.1	62.5	63.3	62.9	61.9
90	3.52	3.53	3.55	3.59	3.63	3.65	3.68	3.75	3.82	3.86	3.89	3.85	3.81	3.80	3.78	3.74	3.70	3.61	3.53

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: 2.0DEG

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: 98LONDON100/W	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	3.76	3.73	3.72	3.70	3.70	3.69	3.69	3.69	3.69	3.70	3.70	3.71	3.71	3.72	3.72	3.73	3.73	3.73	
-85	55.4	54.0	52.8	51.1	47.3	43.4	39.8	36.2	32.5	28.6	24.9	20.9	16.6	13.8	11.6	9.23	6.51	3.73	
-80	135	133	132	129	120	111	100	90.0	80.6	71.3	61.3	51.2	41.1	31.7	22.7	14.7	9.27	3.73	
-75	211	208	206	202	194	183	169	153	136	118	103	86.1	69.5	53.1	37.4	23.2	12.0	3.73	
-70	299	294	291	284	272	258	239	217	194	170	149	126	102	77.5	54.5	32.9	14.6	3.73	
-65	456	443	424	405	380	352	321	290	258	227	195	166	135	104	72.0	42.9	17.8	3.73	
-60	950	925	849	717	620	518	440	380	329	288	248	205	167	129	90.2	54.1	22.4	3.73	
-55	2171	2075	1912	1671	1375	1058	766	555	426	355	301	250	198	153	108	64.6	26.7	3.73	
-50	3494	3384	3203	2916	2545	2089	1571	1063	678	459	359	294	232	175	125	74.7	30.8	3.73	
-45	4439	4345	4174	3924	3586	3142	2574	1895	1201	696	434	339	266	196	140	84.1	34.6	3.73	
-40	5093	5000	4850	4620	4319	3923	3412	2771	1957	1137	579	390	297	219	154	92.6	38.1	3.73	
-35	5566	5470	5312	5105	4835	4472	4016	3437	2679	1720	842	452	327	239	167	100	41.5	3.73	
-30	5967	5856	5684	5461	5198	4870	4447	3920	3241	2300	1229	556	356	259	177	108	44.8	3.73	
-25	6278	6175	5997	5757	5471	5160	4773	4268	3637	2780	1647	716	388	275	186	113	47.6	3.73	
-20	6417	6335	6197	5986	5704	5382	4995	4515	3914	3130	2018	879	419	289	194	118	49.9	3.73	
-15	6449	6372	6255	6096	5868	5544	5159	4689	4102	3374	2319	1077	445	299	201	122	51.7	3.73	
-10	6437	6361	6259	6126	5942	5640	5259	4796	4221	3510	2511	1219	482	306	205	124	53.0	3.73	
-5	6376	6312	6219	6097	5940	5668	5287	4817	4244	3567	2615	1306	504	310	208	126	53.8	3.73	
0	6295	6229	6145	6027	5871	5618	5242	4767	4212	3563	2644	1338	511	310	208	126	54.0	3.73	
5	6101	6030	5954	5839	5682	5441	5071	4619	4083	3466	2577	1307	502	308	206	125	53.7	3.73	
10	5960	5891	5816	5701	5531	5263	4885	4431	3909	3320	2446	1221	478	302	203	123	52.9	3.73	
15	5802	5747	5663	5548	5347	5061	4668	4232	3743	3154	2248	1082	438	292	197	120	51.5	3.73	
20	5625	5583	5505	5376	5145	4813	4425	4006	3540	2938	1992	895	407	279	189	116	49.7	3.73	
25	5429	5396	5310	5134	4872	4524	4150	3755	3307	2653	1671	737	374	264	181	111	47.4	3.73	
30	5186	5130	5015	4803	4514	4183	3846	3483	3021	2278	1299	571	342	247	171	105	44.6	3.73	
35	4812	4730	4579	4356	4083	3813	3528	3164	2606	1782	910	453	313	228	160	97.9	41.3	3.73	
40	4273	4183	4038	3851	3655	3428	3140	2710	2023	1223	607	382	284	209	147	90.2	38.0	3.73	
45	3658	3601	3505	3379	3204	2946	2561	2007	1314	742	433	328	254	188	134	81.9	34.5	3.73	
50	3053	3012	2924	2764	2529	2168	1696	1174	723	461	350	284	223	169	120	72.8	30.6	3.73	
55	2148	2097	1967	1765	1505	1168	823	567	420	348	295	241	191	149	104	63.1	26.5	3.73	
60	997	967	882	753	646	516	424	367	322	282	242	200	163	127	88.3	53.0	22.2	3.73	
65	426	419	398	381	359	333	306	280	253	223	192	163	134	103	71.7	42.3	17.6	3.73	
70	283	281	278	271	261	248	230	211	191	170	149	126	103	79.6	55.0	32.5	14.4	3.73	
75	202	200	197	192	185	176	163	149	135	120	105	88.5	72.4	55.9	38.2	22.7	11.7	3.73	
80	134	133	130	125	118	110	100	91.1	82.8	73.4	63.6	53.7	43.6	33.7	23.3	14.2	8.95	3.73	
85	61.8	61.1	58.7	55.8	52.5	48.7	44.5	40.2	36.3	32.2	27.8	23.2	18.5	15.0	11.7	8.58	6.14	3.73	
90	3.44	3.35	3.27	3.19	3.14	3.09	3.06	3.03	3.01	2.99	2.97	2.96	2.94	2.93	2.92	2.92	3.32	3.73	

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: 2.0DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks: