

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	514.3 cd per klm.
(Luminaire orientation as tested.)	-6.5 degrees vertical
	11.0 degrees horizontal

Beam Spread	At 10% of Imax	122.5V x 123.5H
	At 50% of Imax	96.9V x 97.7H
	At 90% of Imax	51.3V x 49.2H

Beam Flux	Total	1073.9 lumens per klm.
	To 10% of Imax	1022.3 lumens per klm.
	To 50% of Imax	853.9 lumens per klm.
	To 90% of Imax	290.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	107.4 %

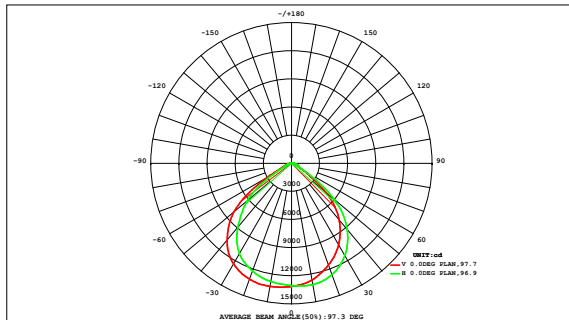
Luminaire Efficiency (Light Output Ratio)	107.4 %
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C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 28 October 2022

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: 98LONDON200/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F344	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98LONDON200/W	Imax (cd)	13371
NOMINAL POWER (W)	200	AVAILABILITY (%)	102.1
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	26554
NOMINAL FLUX (lm)	26000	LOR (%)	107.4
LAMPS INSIDE	1	TOTAL FLUX (lm)	27913
TEST VOLTAGE (V)	230	θ @50% (H,V)	98,97DEG

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	1.38	2.12	2.86	3.53	4.01	4.22	4.15	3.88	3.40	2.72	1.96	1.28	0.70	0.27	0.05	37.6	0.00	
0.12	0.82	2.27	4.38	6.88	9.27	11.3	12.7	13.6	13.8	13.0	11.3	8.97	6.48	4.11	2.14	0.76	0.11	122	0.00		
0.19	1.41	4.01	7.52	11.5	15.5	19.5	24.1	28.6	30.2	28.0	22.9	16.8	11.9	7.63	3.96	1.34	0.18	235	26.2		
0.26	2.02	5.57	10.2	16.3	28.4	56.1	90.8	117	125	114	86.6	49.8	23.7	11.9	5.99	1.99	0.24	745	639		
0.33	2.56	6.87	13.1	30.5	81.5	146	194	223	232	221	189	134	64.1	20.3	8.06	2.65	0.31	1568	1509		
0.39	3.01	8.00	18.7	65.2	144	213	265	299	311	297	258	200	122	40.3	10.4	3.26	0.37	2258	2216		
0.44	3.36	8.97	29.1	102	186	256	310	346	360	348	308	244	164	66.3	13.4	3.74	0.42	2749	2715		
0.47	3.61	9.82	39.5	126	211	282	336	372	385	373	334	271	187	86.7	16.6	4.08	0.45	3040	3010		
0.49	3.74	10.4	46.6	138	223	296	352	387	395	384	347	285	200	97.3	18.6	4.25	0.47	3188	3159		
0.49	3.75	10.4	46.3	137	222	296	353	390	402	391	354	291	203	97.1	18.5	4.23	0.47	3220	3192		
0.47	3.63	9.79	38.8	124	212	288	346	383	396	383	345	280	192	85.1	16.4	4.01	0.45	3107	3078		
0.43	3.40	8.96	27.2	98.5	188	263	319	356	370	358	320	253	165	61.7	12.6	3.64	0.42	2808	2773		
0.38	3.05	8.02	17.8	61.5	142	217	270	305	320	310	269	203	115	34.9	9.64	3.14	0.37	2290	2245		
0.33	2.57	6.92	12.9	28.3	74.4	138	192	225	237	224	185	122	54.1	17.6	7.58	2.56	0.31	1530	1467		
0.26	1.99	5.61	10.2	15.9	26.7	48.6	77.0	99.3	107	98.4	71.3	40.2	19.9	11.2	5.64	1.93	0.24	641	519		
0.19	1.37	3.95	7.51	11.4	15.4	19.3	23.1	25.8	26.4	24.5	20.5	16.1	11.7	7.41	3.78	1.31	0.18	220	6.13		
0.12	0.79	2.18	4.21	6.60	9.11	11.3	12.8	13.4	13.3	12.4	10.8	8.76	6.34	3.98	2.05	0.75	0.11	119	0.00		
0.05	0.29	0.70	1.26	1.91	2.60	3.21	3.61	3.77	3.74	3.50	3.05	2.45	1.79	1.17	0.65	0.26	0.05	34.1	0.00		
-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)					20	30	40	50	60	70	80	90	
Φ t	5.45	41.7	113	337	985	1794	2566	3185	3591	3731	3585	3139	2428	1550	656	157	44.2	5.20	27913	---	
Φ a	0.00	0.00	0.00	209	885	1702	2478	3101	3509	3653	3508	3063	2353	1474	573	47.4	0.00	0.00	---	26554	

one-half-peak spread: U:41.0,D:48.8 , L:54.8,R:43.2

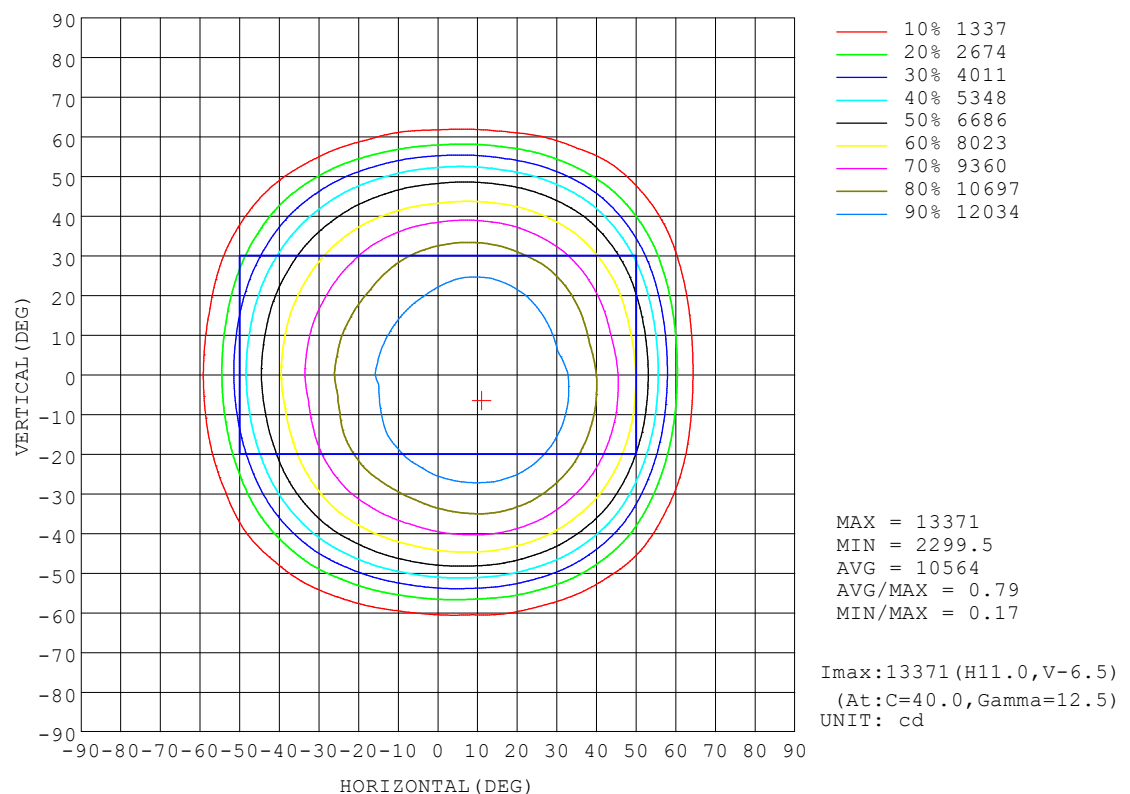
NEMA Beam Type: Type 6

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: 98LONDON200/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F344	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

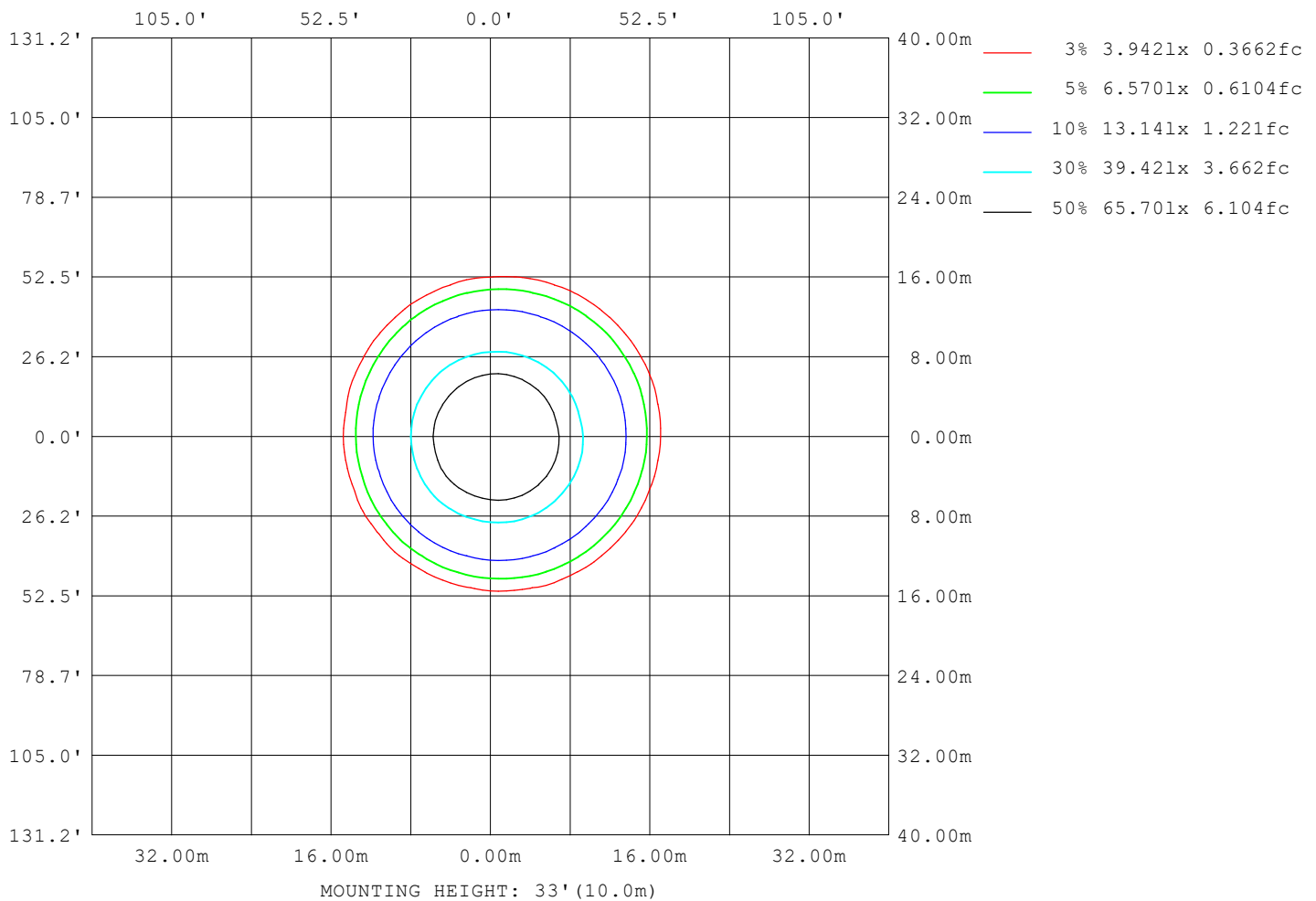


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:28 October 2022

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:

**ISOLUX DIAGRAM**

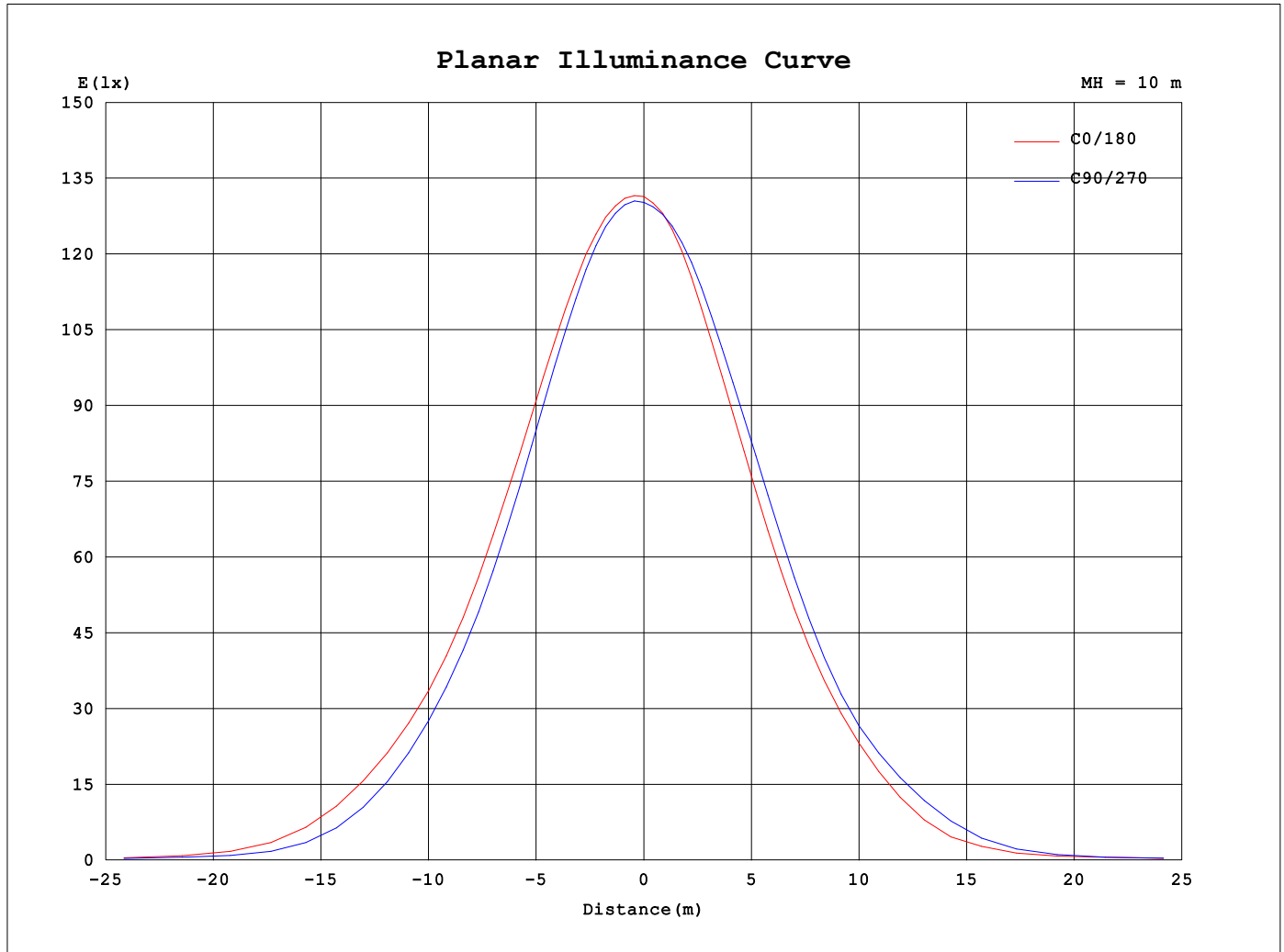
NAME: 98LONDON200/W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: round F344	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
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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:

## Planar Illuminance Curve

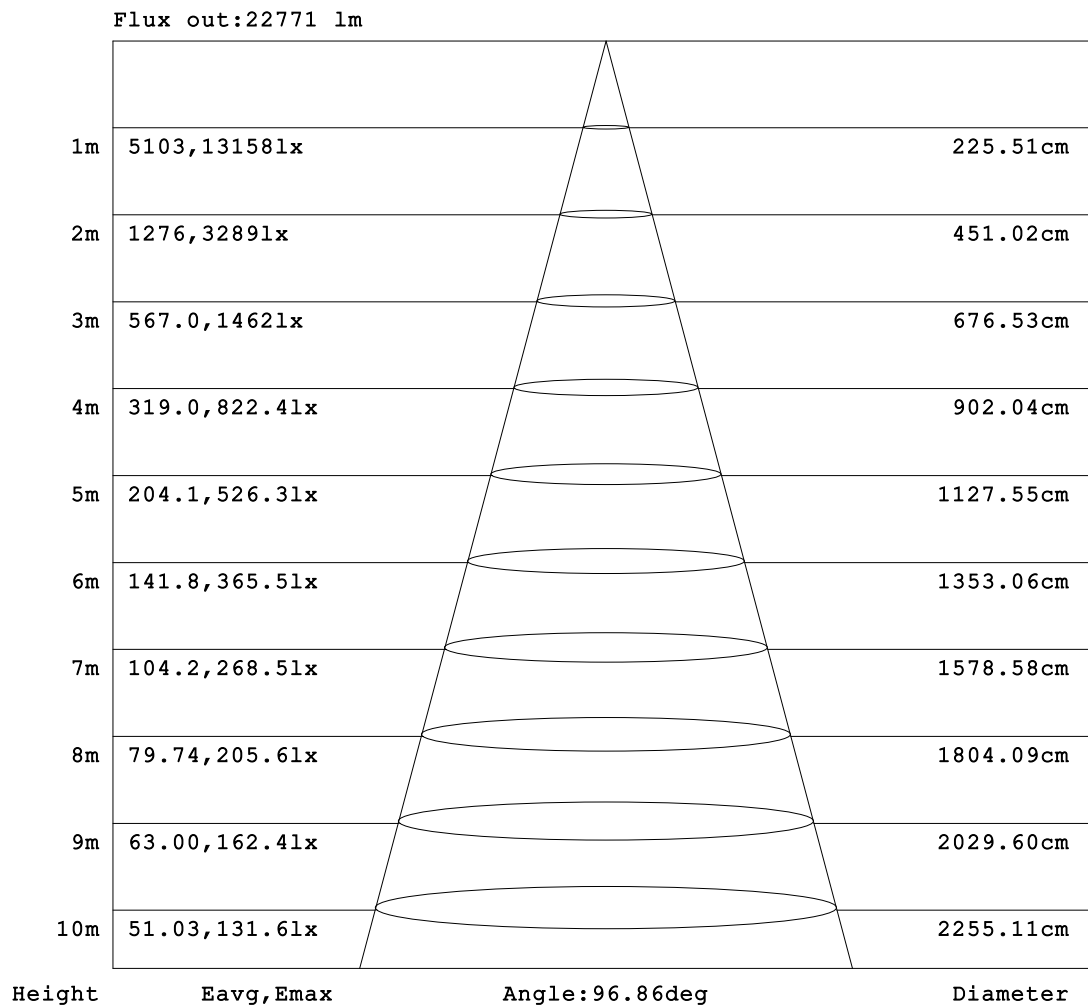


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 28 October 2022

$\gamma$  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: 98LONDON200/W	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: 98LONDON200/W	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	0.76	0.82	0.88	0.87	0.87	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.79	0.78	0.76	0.75	0.74	0.73
-85	0.76	1.75	2.70	3.57	4.39	5.18	5.93	6.78	7.56	8.41	9.20	9.87	10.4	11.0	11.5	11.6	11.6	11.7	11.6
-80	0.76	2.67	4.52	6.29	8.44	10.5	12.6	14.7	16.6	18.6	20.5	22.4	24.0	25.4	26.5	26.8	26.8	27.1	27.2
-75	0.76	3.58	6.35	9.68	12.9	16.7	20.4	23.9	27.2	30.6	33.8	36.7	39.1	41.3	43.0	44.0	44.6	44.8	44.5
-70	0.76	4.47	8.58	13.0	18.0	23.4	28.8	33.7	38.3	42.8	46.9	50.1	52.7	55.0	57.1	58.8	60.1	60.8	61.1
-65	0.76	5.34	10.7	16.7	23.3	30.4	37.1	43.1	48.5	53.3	57.7	61.6	65.2	68.7	72.6	75.5	77.3	79.0	80.1
-60	0.76	6.17	12.8	20.1	28.8	37.3	44.8	51.2	57.0	62.5	68.0	74.2	81.2	89.9	102	116	126	136	143
-55	0.76	7.15	15.0	24.0	34.2	43.5	51.3	58.3	65.3	72.3	81.8	96.4	120	160	202	250	288	320	342
-50	0.76	8.08	17.1	27.7	39.2	48.8	57.1	65.4	74.2	85.9	110	171	241	314	394	463	517	558	586
-45	0.76	8.94	19.1	31.2	43.5	53.4	62.7	72.7	86.3	114	184	289	403	507	593	663	714	753	780
-40	0.76	9.73	21.0	34.6	47.3	57.6	68.1	81.1	109	191	302	440	568	671	750	813	859	896	925
-35	0.76	10.4	22.9	37.6	50.5	61.5	73.4	92.7	157	272	429	576	699	794	866	926	972	1010	1043
-30	0.76	11.1	24.5	40.1	53.3	65.1	79.0	109	210	370	541	682	792	885	959	1016	1062	1102	1137
-25	0.76	11.6	26.0	42.0	55.7	68.2	84.8	140	270	460	627	758	865	958	1033	1089	1138	1178	1212
-20	0.76	12.1	27.2	43.7	57.6	71.2	92.0	174	335	530	688	812	921	1012	1086	1146	1194	1233	1263
-15	0.76	12.4	28.1	45.0	59.2	73.6	100	206	389	585	732	850	957	1049	1121	1180	1229	1268	1298
-10	0.76	12.7	28.8	46.0	60.3	75.4	106	227	431	620	760	877	979	1065	1139	1195	1247	1286	1314
-5	0.76	12.8	29.2	46.6	61.0	76.6	110	240	458	645	781	894	992	1074	1144	1201	1252	1288	1313
0	0.76	12.9	29.4	46.7	61.3	77.1	112	245	469	655	792	905	1005	1088	1155	1213	1263	1296	1314
5	0.76	12.8	29.3	46.4	60.9	76.6	111	242	462	647	785	899	996	1076	1142	1201	1248	1278	1293
10	0.76	12.7	28.9	45.7	60.1	75.4	108	229	439	625	766	881	978	1058	1123	1179	1227	1260	1281
15	0.76	12.4	28.2	44.6	58.8	73.5	102	204	402	593	737	853	948	1025	1092	1147	1195	1233	1258
20	0.76	12.1	27.3	43.2	57.1	71.0	94.0	177	353	545	692	808	904	984	1050	1106	1155	1193	1222
25	0.76	11.6	26.2	41.5	55.0	68.0	86.5	150	291	479	630	750	850	932	999	1058	1107	1147	1176
30	0.76	11.1	24.8	39.4	52.5	64.9	80.5	115	230	392	551	678	779	864	935	996	1044	1085	1113
35	0.76	10.5	23.2	37.1	49.6	61.2	74.5	96.2	167	293	451	585	690	775	849	908	956	994	1018
40	0.76	9.76	21.3	34.4	46.5	57.3	68.5	83.1	114	198	332	467	578	668	739	793	838	872	892
45	0.76	8.98	19.4	31.4	42.8	52.9	62.7	73.6	88.6	124	210	324	440	539	613	668	709	738	753
50	0.76	8.12	17.4	28.1	38.9	48.3	56.8	65.6	75.4	89.5	121	185	273	367	450	513	563	597	616
55	0.76	7.19	15.2	24.6	34.3	43.1	50.8	58.1	65.9	74.2	84.3	101	133	189	243	303	354	390	410
60	0.76	6.21	12.9	20.8	29.4	37.4	44.4	50.8	57.2	63.4	69.1	75.0	83.0	93.4	110	134	166	179	178
65	0.76	5.37	10.8	17.2	24.0	31.0	37.2	43.1	48.6	53.4	57.7	61.8	65.8	69.3	72.8	76.3	79.5	82.1	83.7
70	0.76	4.49	8.67	13.4	18.8	24.0	29.4	34.4	39.3	43.4	46.8	49.8	52.4	54.6	56.4	58.4	60.0	61.2	61.8
75	0.76	3.58	6.45	10.0	13.6	17.4	20.9	24.9	28.8	32.1	35.0	37.5	39.5	41.0	42.1	43.3	44.2	44.9	45.3
80	0.76	2.65	4.55	6.57	8.99	11.2	13.3	15.7	18.0	20.0	21.8	23.6	25.3	26.5	27.4	28.2	28.9	28.9	28.6
85	0.76	1.71	2.66	3.65	4.67	5.60	6.50	7.60	8.65	9.53	10.3	11.1	11.8	12.3	12.7	13.1	13.3	13.3	13.1
90	0.76	0.76	0.75	0.75	0.75	0.77	0.78	0.82	0.85	0.89	0.93	0.96	1.00	1.03	1.05	1.07	1.08	1.09	1.09

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: 98LONDON200/W	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	0.73	0.72	0.71	0.70	0.70	0.69	0.69	0.69	0.68	0.68	0.68	0.67	0.67	0.67	0.67	0.67	0.68	0.68	
-85	11.5	11.3	11.2	11.0	10.5	9.88	9.34	8.71	7.92	7.08	6.33	5.51	4.80	4.05	3.26	2.43	1.56	0.68	
-80	27.0	26.5	26.0	25.3	24.1	22.7	21.1	19.3	17.5	15.6	13.9	11.9	9.96	7.94	5.88	4.18	2.45	0.68	
-75	43.9	42.9	42.1	40.9	39.3	37.2	35.2	32.6	29.3	25.9	22.5	19.0	15.7	12.3	9.12	5.95	3.32	0.68	
-70	60.5	59.5	58.3	56.6	54.4	51.8	49.2	45.9	41.8	37.1	32.2	27.2	22.0	17.0	12.3	8.06	4.16	0.68	
-65	79.7	78.6	77.4	75.1	72.2	68.3	63.6	59.1	53.9	48.5	42.3	35.6	28.9	22.1	15.9	10.1	4.99	0.68	
-60	146	146	146	126	107	94.5	83.4	74.4	67.2	60.0	52.5	44.5	36.0	27.6	19.4	12.1	5.78	0.68	
-55	349	343	326	288	244	189	143	108	85.8	73.3	63.2	53.3	43.2	33.3	23.4	14.3	6.71	0.68	
-50	595	589	569	528	466	389	297	201	130	93.3	75.2	62.8	50.5	38.8	27.2	16.5	7.58	0.68	
-45	792	791	775	736	680	602	495	365	233	140	92.6	72.6	57.7	44.4	31.0	18.5	8.39	0.68	
-40	942	946	934	901	850	777	676	545	386	227	125	82.2	65.4	49.7	34.6	20.4	9.14	0.68	
-35	1063	1071	1062	1033	984	914	823	702	541	344	176	98.8	72.5	54.8	37.9	22.4	9.81	0.68	
-30	1157	1165	1158	1135	1089	1019	933	826	672	465	248	125	79.5	59.5	41.1	24.2	10.4	0.68	
-25	1228	1232	1224	1205	1168	1104	1018	913	777	574	335	164	86.1	63.7	44.0	25.7	10.9	0.68	
-20	1277	1281	1273	1253	1220	1168	1083	978	850	664	413	206	96.2	67.3	46.6	27.0	11.3	0.68	
-15	1311	1313	1305	1288	1257	1207	1130	1025	901	729	481	237	105	70.2	48.7	28.0	11.6	0.68	
-10	1326	1332	1326	1309	1279	1231	1159	1056	934	772	528	260	111	72.5	50.3	28.8	11.9	0.68	
-5	1328	1335	1333	1318	1288	1241	1173	1070	947	794	558	276	116	74.0	51.4	29.2	12.0	0.68	
0	1326	1333	1332	1315	1286	1238	1172	1070	948	800	569	284	118	74.8	52.0	29.4	12.1	0.68	
5	1302	1309	1306	1288	1256	1212	1148	1049	931	786	560	280	118	74.4	51.7	29.3	12.0	0.68	
10	1293	1299	1293	1274	1241	1192	1124	1021	903	760	534	266	115	73.4	50.9	28.9	11.9	0.68	
15	1274	1281	1274	1254	1216	1166	1095	988	872	723	493	242	110	71.6	49.5	28.2	11.6	0.68	
20	1240	1249	1241	1218	1179	1128	1046	943	829	673	436	207	102	69.1	47.6	27.1	11.3	0.68	
25	1195	1199	1188	1161	1125	1066	981	882	771	601	366	172	91.1	65.9	45.3	25.8	10.9	0.68	
30	1129	1128	1115	1087	1044	982	900	808	687	503	286	140	84.2	62.0	42.5	24.3	10.4	0.68	
35	1034	1033	1018	988	939	878	808	714	575	386	209	113	76.1	57.4	39.3	22.4	9.79	0.68	
40	906	904	890	863	820	767	697	590	434	266	149	91.3	68.9	52.3	35.9	20.3	9.13	0.68	
45	766	766	754	732	695	637	549	427	280	170	106	78.0	61.4	46.8	32.0	18.3	8.39	0.68	
50	625	621	603	576	527	452	356	253	175	108	81.4	66.6	54.0	41.0	27.9	16.3	7.59	0.68	
55	421	414	389	354	308	243	181	138	98.4	78.4	67.3	56.1	46.1	35.1	23.9	14.2	6.72	0.68	
60	187	188	178	159	139	116	94.4	78.7	70.0	62.4	54.3	46.5	38.1	29.0	19.6	12.0	5.81	0.68	
65	86.1	87.0	85.6	82.0	75.9	71.2	65.2	60.1	54.9	49.6	43.5	36.9	30.4	23.3	16.1	10.1	5.01	0.68	
70	62.4	62.3	61.0	59.1	56.6	53.4	49.9	46.2	42.3	37.9	33.0	28.0	23.1	17.8	12.4	8.06	4.17	0.68	
75	45.6	45.5	44.4	42.9	41.0	38.6	36.0	33.0	29.9	26.6	23.3	19.7	16.4	12.7	9.30	6.01	3.30	0.68	
80	28.6	28.3	27.7	26.8	25.6	24.2	22.4	20.3	18.5	16.5	14.6	12.4	10.4	8.37	6.14	4.19	2.42	0.68	
85	13.1	12.9	12.7	12.3	11.9	11.3	10.5	9.64	8.84	7.98	7.06	6.08	5.24	4.35	3.36	2.38	1.52	0.68	
90	1.08	1.08	1.06	1.05	1.03	1.00	0.94	0.88	0.84	0.79	0.75	0.71	0.67	0.63	0.59	0.55	0.62	0.68	

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: