

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	1902.8 cd per klm.
(Luminaire orientation as tested.)	-180.0 degrees vertical
	90.0 degrees horizontal

Beam Spread	At 10% of Imax	360.0V x 180.0H
	At 50% of Imax	360.0V x 180.0H
	At 90% of Imax	75.8V x 180.0H

Beam Flux	Total	1101.6 lumens per klm.
	To 10% of Imax	858.1 lumens per klm.
	To 50% of Imax	305.1 lumens per klm.
	To 90% of Imax	3.6 lumens per klm.

Upward LOR	56.2 %
Downward LOR	54.0 %

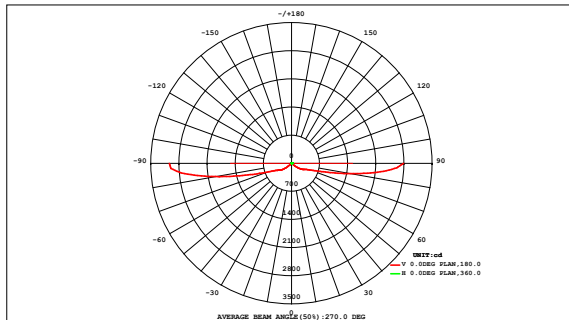
Luminaire Efficiency (Light Output Ratio)	110.2 %
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C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 26 January 2023

γ Range: 0 - 180DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 96GRF330WW/2BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 260 x 90 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	96GRF330WW/2BL	Imax (cd)	3044
NOMINAL POWER(W)	20	AVAILABILITY (%)	90.7
RATED VOLTAGE (V)	230	Avai. FLUX(lm)	1451
NOMINAL FLUX(lm)	1600	LOR(%)	110.2
LAMPS INSIDE	1	TOTAL FLUX(lm)	1763
TEST VOLTAGE (V)	230	θ @50% (H,V)	180,360DEG

90 80 70 60 50 40 30 20 10 0 -10 -20 -30 -40 -50 -60 -70 -80 -90	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a											
	5.47	7.02	5.02	3.86	0.77	0.18	0.05	0.02	0.01	0.01	0.02	0.07	0.22	1.03	4.32	5.27	8.34	6.35	48.0	38.9											
5.37	6.85	4.96	3.77	0.75	0.19	0.05	0.02	0.01	0.01	0.02	0.07	0.22	1.03	4.35	5.28	8.37	6.36	47.7	38.7												
5.31	6.70	4.90	3.67	0.72	0.19	0.05	0.02	0.01	0.01	0.02	0.07	0.22	1.03	4.37	5.31	8.38	6.37	47.4	38.1												
5.29	6.59	4.84	3.57	0.69	0.21	0.05	0.02	0.01	0.01	0.03	0.07	0.22	1.03	4.38	5.34	8.38	6.37	47.1	37.8												
5.26	6.51	4.78	3.48	0.67	0.22	0.05	0.02	0.01	0.01	0.03	0.07	0.22	1.02	4.38	5.36	8.37	6.35	46.8	37.6												
5.25	6.46	4.75	3.41	0.66	0.22	0.05	0.02	0.01	0.01	0.02	0.07	0.22	1.01	4.37	5.39	8.38	6.34	46.6	37.6												
5.26	6.44	4.73	3.38	0.64	0.23	0.06	0.02	0.01	0.01	0.02	0.07	0.22	1.00	4.35	5.41	8.34	6.34	46.5	37.6												
5.28	6.48	4.74	3.37	0.62	0.23	0.06	0.02	0.01	0.01	0.02	0.07	0.23	1.00	4.33	5.43	8.34	6.37	46.6	37.7												
5.31	6.53	4.76	3.36	0.62	0.23	0.06	0.02	0.00	0.01	0.02	0.07	0.24	1.00	4.33	5.52	8.54	6.45	47.1	38.6												
5.39	6.70	4.81	3.46	0.64	0.23	0.06	0.02	0.00	0.01	0.02	0.08	0.26	1.08	4.41	5.64	8.68	6.46	47.9	39.2												
5.49	6.98	4.87	3.50	0.62	0.22	0.06	0.02	0.01	0.01	0.02	0.08	0.26	1.06	4.35	5.64	8.62	6.42	48.2	39.6												
5.60	7.16	4.92	3.53	0.61	0.21	0.05	0.02	0.01	0.01	0.02	0.08	0.27	1.03	4.29	5.65	8.56	6.39	48.4	39.8												
5.70	7.35	4.97	3.56	0.61	0.20	0.05	0.02	0.01	0.01	0.02	0.08	0.27	1.00	4.24	5.64	8.50	6.37	48.6	40.1												
5.80	7.58	5.03	3.60	0.61	0.20	0.05	0.02	0.01	0.01	0.02	0.08	0.27	0.95	4.17	5.63	8.45	6.35	48.8	40.3												
5.90	7.83	5.09	3.64	0.62	0.19	0.05	0.02	0.01	0.01	0.02	0.08	0.27	0.91	4.12	5.61	8.39	6.32	49.1	40.7												
6.00	8.08	5.17	3.69	0.65	0.20	0.05	0.02	0.00	0.01	0.02	0.08	0.27	0.87	4.07	5.59	8.33	6.29	49.4	41.0												
6.09	8.32	5.25	3.74	0.68	0.20	0.05	0.02	0.00	0.01	0.02	0.08	0.26	0.84	4.02	5.57	8.26	6.25	49.7	41.2												
6.18	8.55	5.33	3.80	0.72	0.21	0.06	0.02	0.00	0.01	0.02	0.08	0.25	0.79	3.98	5.53	8.18	6.23	49.9	41.5												
-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)																20	30	40	50	60	70	80	90
Φ t	99.9	128	88.9	64.4	11.9	3.76	0.98	0.31	0.10	0.13	0.43	1.38	4.38	17.7	76.8	98.8	151	114	864	---											
Φ a	99.9	128	88.6	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.9	98.8	151	114	---	706											

one-half-peak spread: U:52.4,D:87.1 , L:170.3,R:12.2

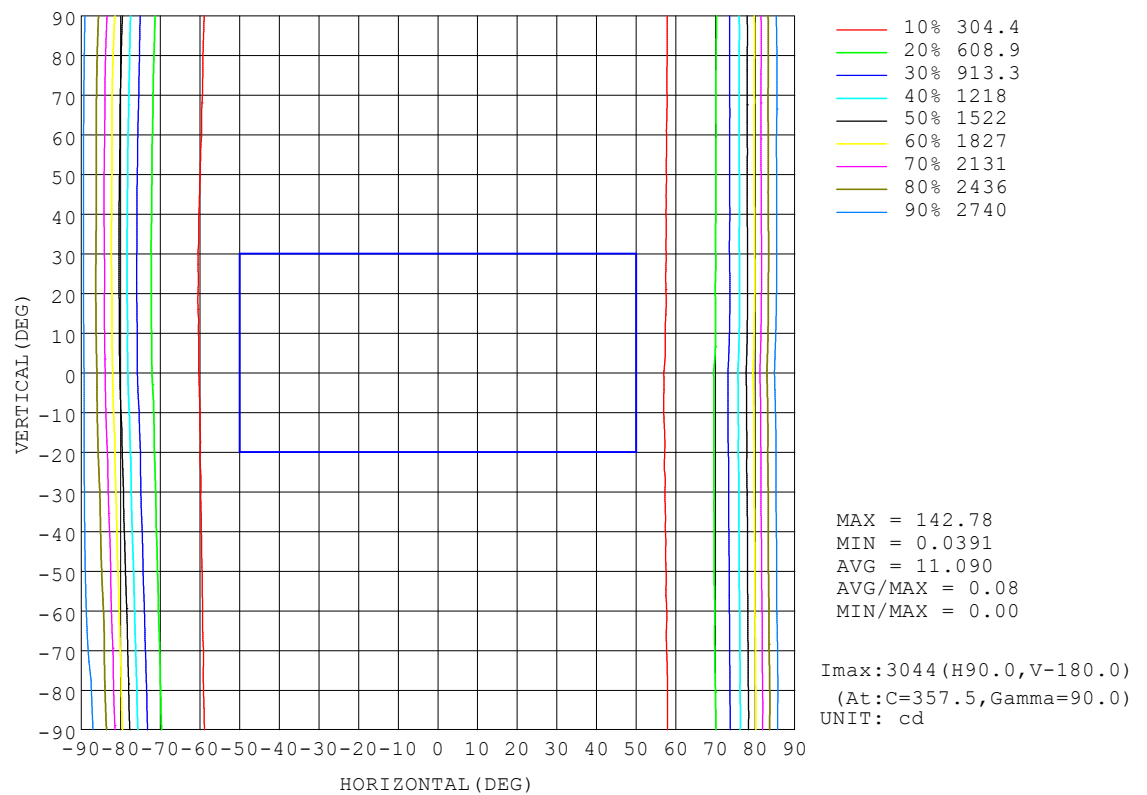
NEMA Beam Type: Type 7

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 January 2023

γ Range: 0 - 180DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 96GRF330WW/2BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 260 x 90 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:

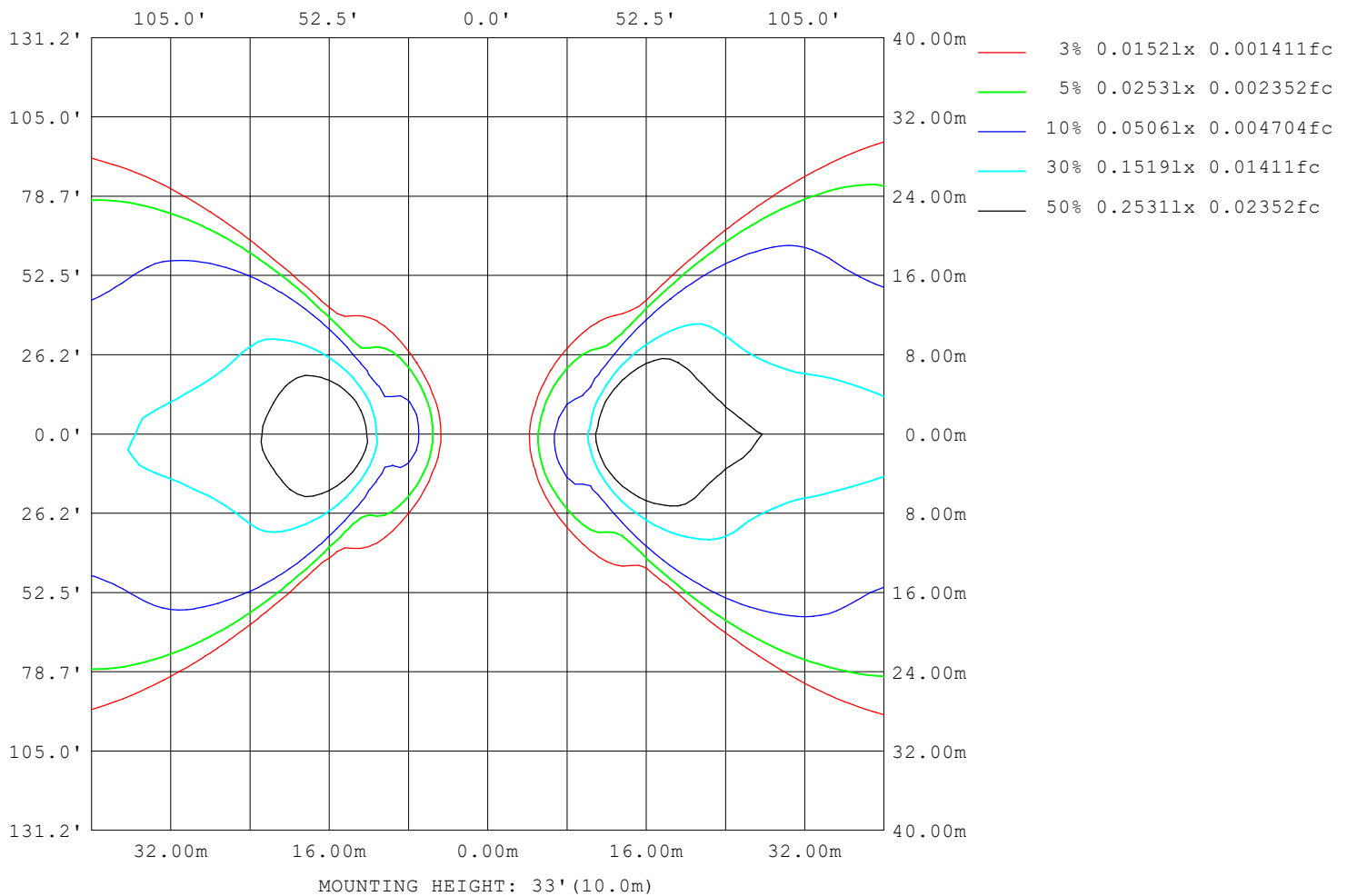


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Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
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Remarks:

ISOLUX DIAGRAM

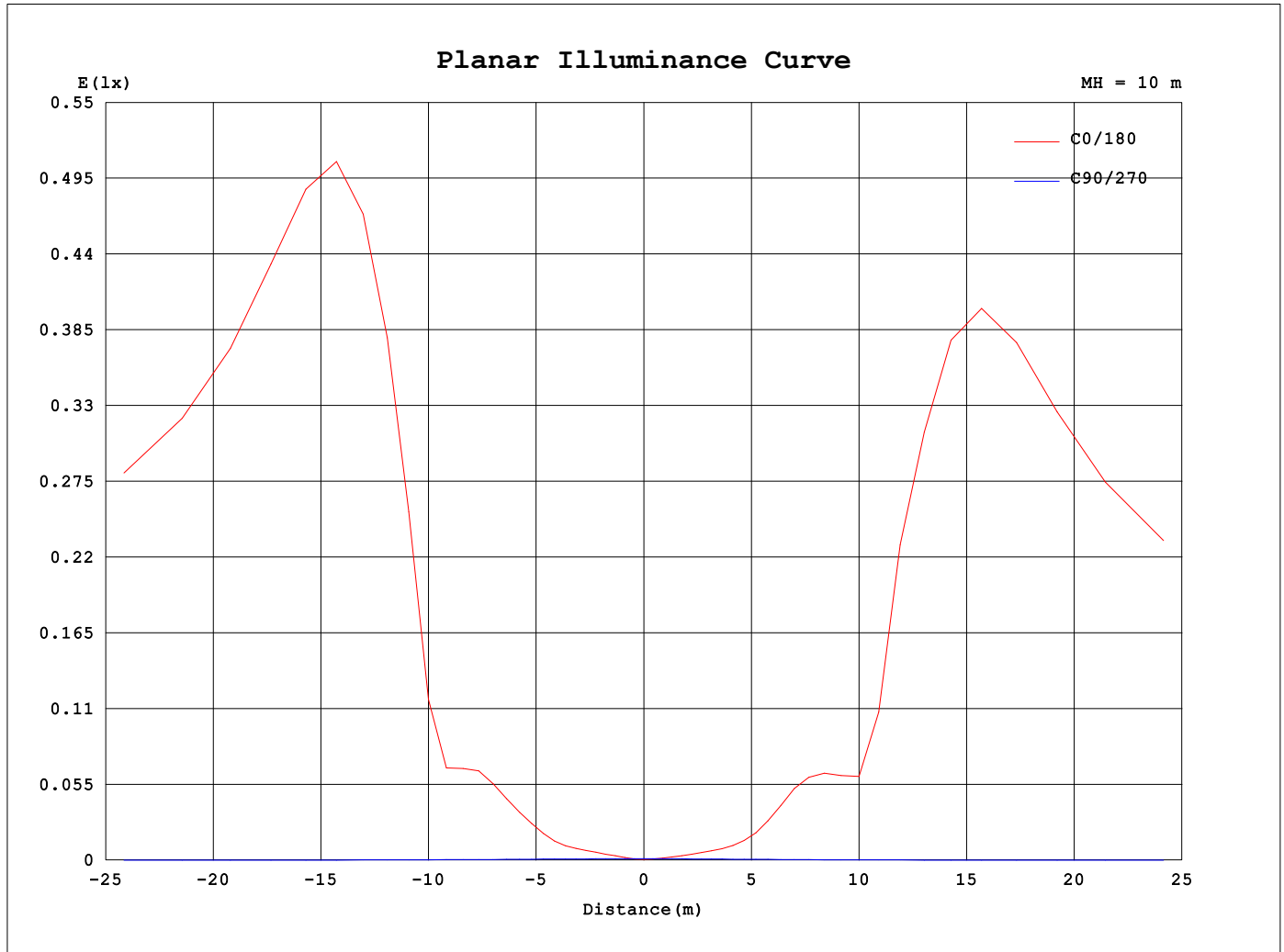
NAME: 96GRF330WW/2BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 260 x 90 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



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 Humidity: 65.0%
 Test Distance: 6.340m [K=1.0000]
 Remarks:

Planar Illuminance Curve

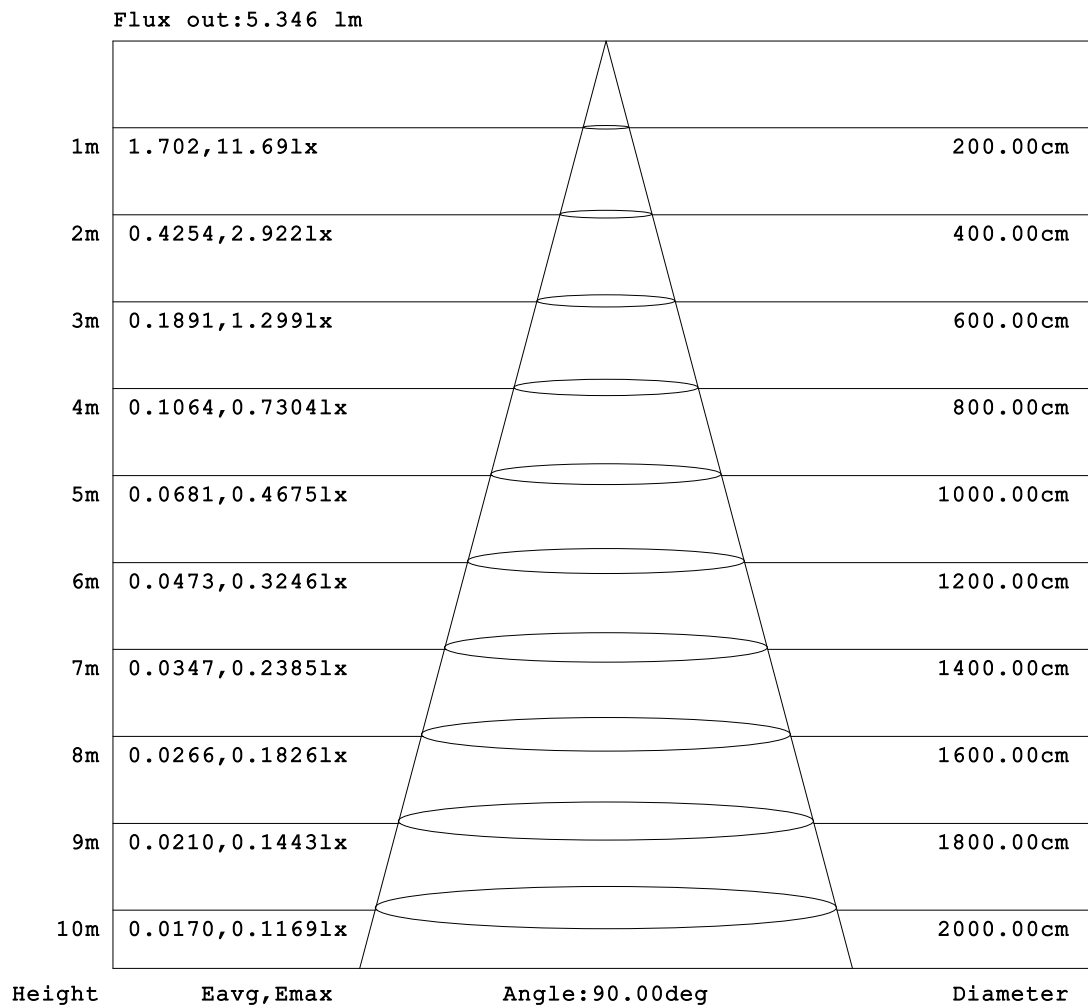


C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 26 January 2023

γ Range: 0 - 180DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.340m [K=1.0000]
 Remarks:

AAI Figure

NAME: 96GRF330WW/2BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 260 x 90 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	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: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 26 January 2023

γ Range: 0 - 180DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.340m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96GRF330WW/2BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 260 x 90 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:

Table--1

UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	2788	2681	1963	1193	654	414	332	257	135	29.9	13.0	9.98	5.32	2.48	1.12	0.64	0.36	0.14	0.06
-170	2788	2665	1935	1162	639	407	326	246	126	28.2	12.8	9.68	5.30	2.45	1.07	0.58	0.33	0.13	0.05
-160	2788	2659	1932	1174	655	409	326	242	125	28.6	12.9	9.79	5.30	2.46	1.02	0.56	0.31	0.15	0.05
-150	2788	2665	1949	1196	653	413	326	239	124	26.6	13.1	9.90	5.35	2.43	1.03	0.55	0.33	0.15	0.05
-140	2788	2645	1947	1194	661	412	327	238	121	26.4	13.4	9.94	5.37	2.37	1.02	0.55	0.33	0.12	0.06
-130	2788	2642	1954	1198	661	410	326	236	119	23.9	13.3	9.84	5.26	2.32	1.02	0.57	0.31	0.13	0.06
-120	2788	2656	1966	1197	657	410	325	234	117	26.8	13.0	9.55	5.07	2.24	0.98	0.55	0.32	0.14	0.06
-110	2788	2632	1940	1180	654	411	323	232	115	24.9	12.8	9.23	4.84	2.14	0.98	0.56	0.33	0.14	0.06
-100	2788	2618	1917	1149	640	406	322	230	110	22.1	12.6	8.83	4.60	2.04	0.95	0.57	0.32	0.14	0.07
-90	2788	2614	1899	1117	627	399	321	229	105	17.7	12.4	8.47	4.33	1.91	0.91	0.55	0.31	0.14	0.07
-80	2788	2567	1848	1088	612	397	317	226	102	20.2	12.2	8.13	4.12	1.83	0.90	0.55	0.31	0.14	0.08
-70	2788	2532	1805	1058	599	393	316	222	99.1	17.8	12.1	7.93	4.00	1.74	0.89	0.55	0.31	0.14	0.08
-60	2788	2509	1766	1020	576	387	313	219	96.2	17.4	12.0	7.82	3.85	1.68	0.88	0.56	0.32	0.15	0.10
-50	2788	2458	1713	987	565	383	311	216	92.9	16.3	12.1	7.76	3.76	1.65	0.86	0.54	0.33	0.17	0.10
-40	2788	2423	1664	958	549	380	309	214	90.8	15.9	12.3	7.97	3.83	1.66	0.87	0.56	0.32	0.19	0.11
-30	2788	2407	1634	921	538	377	307	212	89.1	16.7	12.7	8.43	4.03	1.72	0.89	0.56	0.32	0.17	0.12
-20	2788	2357	1581	907	529	373	305	210	88.4	18.4	13.2	8.91	4.22	1.80	0.93	0.57	0.33	0.17	0.12
-10	2788	2322	1530	870	516	370	304	208	90.9	19.3	13.7	9.32	4.46	1.91	0.95	0.59	0.29	0.15	0.12
0	2788	2305	1483	819	494	364	301	200	86.3	17.2	14.1	9.48	4.41	1.92	1.01	0.64	0.35	0.16	0.07
10	2788	2276	1466	823	493	364	300	200	84.9	19.0	14.1	9.54	4.54	1.90	0.95	0.56	0.30	0.13	0.11
20	2788	2265	1456	817	495	364	297	200	88.6	19.5	14.0	9.56	4.44	1.84	0.89	0.53	0.29	0.18	0.11
30	2788	2272	1452	818	490	364	298	200	90.0	18.0	13.8	9.39	4.31	1.78	0.89	0.55	0.34	0.19	0.10
40	2788	2254	1458	819	494	366	300	203	92.9	17.4	13.4	9.13	4.18	1.73	0.90	0.56	0.37	0.17	0.09
50	2788	2256	1474	829	498	368	305	208	97.3	18.2	12.8	8.67	3.99	1.74	0.90	0.58	0.35	0.18	0.10
60	2788	2278	1494	843	502	373	309	214	101	20.2	12.2	8.17	3.84	1.64	0.88	0.56	0.35	0.18	0.08
70	2788	2287	1506	864	516	378	312	221	107	20.7	11.7	7.75	3.68	1.62	0.90	0.58	0.35	0.18	0.07
80	2788	2315	1540	882	521	382	314	228	110	21.2	11.3	7.39	3.56	1.60	0.89	0.57	0.34	0.18	0.07
90	2788	2362	1586	905	530	385	318	235	113	18.7	11.1	7.19	3.47	1.57	0.87	0.56	0.33	0.17	0.06
100	2788	2378	1616	936	544	388	318	240	117	22.5	10.8	7.01	3.47	1.59	0.87	0.56	0.33	0.17	0.06
110	2788	2412	1659	971	563	392	319	244	122	25.2	10.7	6.99	3.48	1.63	0.88	0.56	0.32	0.16	0.06
120	2788	2461	1713	1002	571	396	320	248	126	26.3	10.6	7.07	3.57	1.68	0.89	0.57	0.34	0.16	0.06
130	2788	2482	1748	1037	592	400	323	250	128	23.8	10.8	7.34	3.73	1.71	0.88	0.57	0.34	0.16	0.06
140	2788	2520	1801	1072	605	404	325	253	131	25.7	11.1	7.77	3.98	1.82	0.94	0.59	0.32	0.17	0.06
150	2788	2573	1853	1100	621	408	327	256	132	28.2	11.6	8.34	4.28	1.93	0.94	0.59	0.32	0.14	0.06
160	2788	2598	1877	1143	636	411	328	257	134	31.0	12.1	8.92	4.61	2.09	1.00	0.60	0.35	0.14	0.06
170	2788	2635	1912	1158	643	414	331	254	134	32.5	12.7	9.43	5.02	2.31	1.05	0.62	0.33	0.15	0.06
180	2788	2681	1963	1193	654	414	332	257	135	29.9	13.0	9.98	5.32	2.48	1.12	0.64	0.36	0.14	0.06

C Range: 0 - 360DEG

C Interval: 2.5DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:26 January 2023

γ Range: 0 - 180DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96GRF330WW/2BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 260 x 90 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	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	
-180	0.15	0.39	0.73	1.14	2.01	4.34	8.53	13.2	18.0	103	235	335	407	568	980	1708	2611	3044	
-170	0.11	0.35	0.66	1.10	1.99	4.36	8.45	13.0	20.9	104	233	333	408	573	988	1700	2587	3044	
-160	0.14	0.33	0.65	1.06	1.93	4.27	8.42	13.0	20.0	99.7	232	331	408	579	984	1701	2583	3044	
-150	0.14	0.36	0.65	1.06	1.94	4.32	8.46	13.0	18.1	100	229	332	409	576	994	1705	2600	3044	
-140	0.13	0.36	0.65	1.08	2.03	4.42	8.62	13.4	17.6	99.1	228	332	410	581	995	1712	2582	3044	
-130	0.14	0.36	0.68	1.11	2.10	4.59	8.92	13.7	18.4	98.8	228	333	410	584	1006	1712	2585	3044	
-120	0.16	0.38	0.68	1.11	2.17	4.81	9.18	13.9	19.5	98.8	228	336	413	587	1018	1722	2608	3044	
-110	0.18	0.40	0.70	1.14	2.27	5.04	9.46	14.2	19.9	101	230	337	416	597	1028	1742	2604	3044	
-100	0.18	0.41	0.73	1.18	2.39	5.21	9.82	14.5	22.1	103	232	339	416	598	1036	1761	2621	3044	
-90	0.18	0.40	0.73	1.18	2.44	5.42	10.2	14.8	19.4	107	235	340	416	602	1047	1792	2659	3044	
-80	0.18	0.42	0.73	1.22	2.58	5.60	10.5	15.0	23.9	112	237	342	420	609	1060	1796	2650	3044	
-70	0.19	0.42	0.76	1.29	2.73	5.83	10.7	15.4	26.0	117	239	345	424	619	1074	1811	2660	3044	
-60	0.21	0.45	0.79	1.30	2.79	5.89	10.9	15.5	28.5	120	241	345	424	615	1078	1832	2686	3044	
-50	0.23	0.46	0.79	1.31	2.82	5.89	11.1	15.8	25.6	122	244	346	426	625	1087	1831	2675	3044	
-40	0.25	0.45	0.81	1.30	2.80	5.90	11.2	15.9	29.2	128	248	348	428	626	1098	1847	2683	3044	
-30	0.24	0.47	0.81	1.32	2.80	5.91	11.2	16.0	31.8	132	253	347	428	630	1099	1870	2709	3044	
-20	0.25	0.47	0.81	1.29	2.77	5.81	10.9	15.8	34.3	137	257	346	428	635	1117	1866	2707	3044	
-10	0.23	0.44	0.81	1.27	2.72	5.60	10.5	15.4	35.2	139	262	347	428	633	1112	1880	2723	3044	
0	0.21	0.47	0.80	1.28	2.62	5.37	10.1	14.8	33.1	143	269	346	425	632	1124	1921	2756	3044	
10	0.21	0.45	0.78	1.27	2.45	4.98	9.26	13.9	31.8	135	260	337	412	606	1078	1868	2716	3044	
20	0.26	0.45	0.78	1.24	2.37	4.83	8.88	13.4	31.8	137	264	334	410	611	1074	1842	2694	3044	
30	0.28	0.50	0.80	1.25	2.34	4.78	8.72	13.1	29.7	140	266	333	409	604	1082	1844	2690	3044	
40	0.25	0.52	0.82	1.28	2.34	4.78	8.73	13.0	29.4	141	266	332	407	603	1075	1853	2673	3044	
50	0.24	0.51	0.86	1.30	2.35	4.79	8.73	12.9	28.7	142	267	331	404	601	1081	1863	2677	3044	
60	0.22	0.50	0.83	1.28	2.36	4.80	8.74	12.8	32.9	143	266	330	402	597	1087	1869	2699	3044	
70	0.21	0.49	0.84	1.30	2.37	4.84	8.76	12.8	33.8	142	265	328	400	602	1087	1858	2686	3044	
80	0.20	0.47	0.84	1.30	2.38	4.86	8.86	13.0	31.2	142	263	327	397	594	1080	1854	2690	3044	
90	0.19	0.45	0.82	1.28	2.33	4.89	8.97	13.0	29.1	140	263	326	395	590	1073	1861	2709	3044	
100	0.18	0.45	0.81	1.27	2.35	4.92	9.00	13.1	30.2	139	258	328	396	588	1068	1838	2679	3044	
110	0.17	0.44	0.81	1.29	2.35	4.92	9.00	13.0	32.4	136	256	326	397	589	1061	1827	2666	3044	
120	0.16	0.44	0.81	1.27	2.32	4.88	9.01	13.0	31.6	132	252	327	398	578	1050	1820	2672	3044	
130	0.16	0.43	0.78	1.23	2.28	4.85	9.09	13.3	25.6	128	250	330	400	583	1042	1798	2645	3044	
140	0.16	0.40	0.77	1.20	2.22	4.76	9.15	13.3	25.4	126	249	335	405	581	1038	1789	2635	3044	
150	0.13	0.39	0.74	1.17	2.15	4.68	9.18	13.4	25.3	122	248	337	409	584	1025	1792	2643	3044	
160	0.13	0.39	0.73	1.16	2.15	4.63	9.09	13.4	26.2	119	245	338	412	587	1031	1764	2615	3044	
170	0.11	0.35	0.72	1.14	2.11	4.59	8.94	13.3	25.5	115	241	337	413	586	1014	1736	2604	3044	
180	0.15	0.39	0.73	1.14	2.01	4.34	8.53	13.2	18.0	103	235	335	407	568	980	1708	2611	3044	

C Range: 0 - 360DEG

C Interval: 2.5DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:26 January 2023

γ Range: 0 - 180DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks: