

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	2815.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	43.7V x 43.7H
	At 50% of Imax	24.3V x 24.5H
	At 90% of Imax	10.4V x 10.9H

Beam Flux	Total	786.1 lumens per klm.
	To 10% of Imax	502.7 lumens per klm.
	To 50% of Imax	306.5 lumens per klm.
	To 90% of Imax	64.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	78.6 %

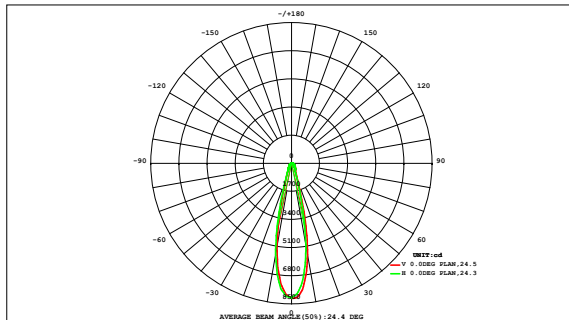
Luminaire Efficiency (Light Output Ratio)	78.3 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 96GRF1/3645220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 300 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 36 Circle	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	96GRF1/3645220W	Imax (cd)	8166
NOMINAL POWER (W)	36	AVAILABILITY (%)	49.3
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	1430
NOMINAL FLUX (lm)	2900	LOR (%)	78.3
LAMPS INSIDE	1	TOTAL FLUX (lm)	2272
TEST VOLTAGE (V)	230	θ @50% (H,V)	24,24DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.01	0.02	0.04	0.06	0.09	0.10	0.11	0.10	0.10	0.08	0.05	0.03	0.01	0.01	0.00	0.00	0.80	0.00
90	0.00	0.01	0.06	0.17	0.36	0.59	0.78	0.90	0.97	0.96	0.87	0.70	0.48	0.27	0.12	0.04	0.01	0.00	7.30	0.00
80	0.00	0.04	0.19	0.52	1.01	1.56	2.08	2.47	2.67	2.64	2.37	1.93	1.39	0.85	0.42	0.15	0.03	0.00	20.3	0.00
70	0.00	0.08	0.38	0.98	1.85	2.76	3.61	4.22	4.54	4.51	4.10	3.43	2.56	1.64	0.84	0.31	0.06	0.00	35.9	0.00
60	0.01	0.14	0.61	1.51	2.69	3.88	4.97	5.84	6.35	6.31	5.73	4.79	3.66	2.46	1.33	0.51	0.11	0.01	50.9	0.00
50	0.01	0.19	0.83	1.98	3.38	4.83	6.59	8.93	10.4	10.3	8.67	6.37	4.63	3.15	1.78	0.70	0.15	0.01	73.0	0.00
40	0.01	0.25	1.02	2.34	3.92	5.98	9.94	14.2	19.1	18.5	13.5	9.48	5.75	3.71	2.12	0.87	0.19	0.01	111	8.82
30	0.02	0.28	1.15	2.57	4.31	7.62	13.4	33.1	78.7	74.9	29.4	12.5	7.27	4.11	2.35	0.99	0.22	0.01	273	202
20	0.02	0.31	1.21	2.69	4.56	8.70	17.4	76.0	198	190	66.9	15.9	8.31	4.37	2.49	1.06	0.24	0.01	598	537
10	0.02	0.31	1.21	2.67	4.53	8.58	16.7	71.2	189	182	64.2	15.8	8.30	4.38	2.49	1.06	0.24	0.01	573	511
0	0.02	0.29	1.13	2.53	4.25	7.38	12.7	28.7	66.8	64.6	27.2	12.4	7.17	4.11	2.37	1.00	0.22	0.01	243	168
-10	0.01	0.25	1.00	2.27	3.84	5.82	9.47	13.3	17.2	17.1	13.1	9.28	5.69	3.68	2.11	0.87	0.19	0.01	105	3.46
-20	0.01	0.20	0.81	1.91	3.29	4.73	6.38	8.50	9.95	9.85	8.30	6.23	4.58	3.11	1.74	0.69	0.15	0.01	70.5	0.00
-30	0.01	0.15	0.60	1.44	2.59	3.77	4.85	5.71	6.18	6.12	5.56	4.67	3.58	2.40	1.29	0.49	0.10	0.01	49.5	0.00
-40	0.00	0.09	0.38	0.93	1.74	2.65	3.47	4.08	4.38	4.34	3.97	3.30	2.45	1.58	0.82	0.30	0.06	0.00	34.5	0.00
-50	0.00	0.04	0.19	0.48	0.92	1.46	1.96	2.33	2.50	2.46	2.23	1.82	1.32	0.82	0.41	0.14	0.03	0.00	19.1	0.00
-60	0.00	0.01	0.06	0.16	0.32	0.52	0.73	0.85	0.88	0.85	0.77	0.63	0.46	0.27	0.12	0.04	0.01	0.00	6.67	0.00
-70	0.00	0.00	0.01	0.02	0.03	0.05	0.07	0.08	0.09	0.08	0.07	0.06	0.04	0.03	0.01	0.01	0.00	0.00	0.67	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HORIZONTAL (DEG)																				
Φ t	0.16	2.65	10.8	25.2	43.6	71.0	115	281	618	595	257	109	67.7	41.0	22.8	9.24	2.03	0.10	2272	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	7.91	194	539	516	169	3.29	0.00	0.00	0.00	0.00	0.00	0.00	---	1430

one-half-peak spread: U:11.7,D:12.8 , L:12.7,R:11.9

NEMA Beam Type: Type 3

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:01 September 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

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

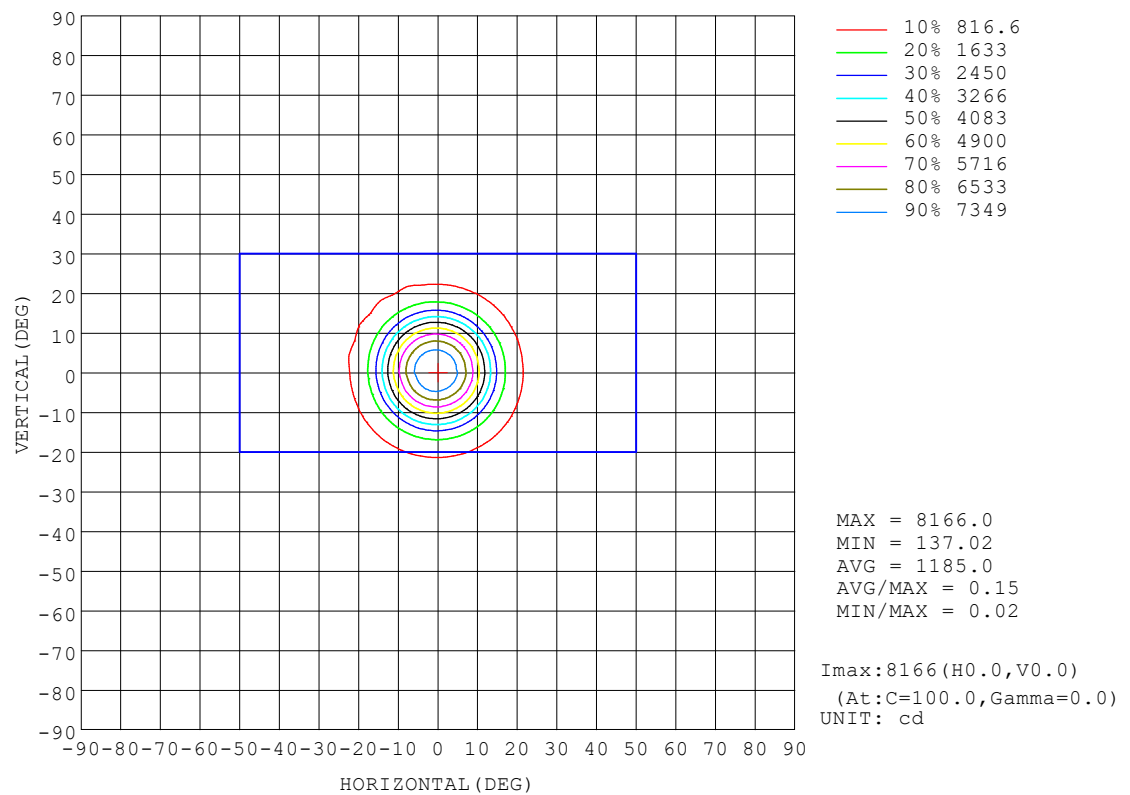
Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

NAME: 96GRF1/3645220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 300 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 36 Circle	Shielding Angle:

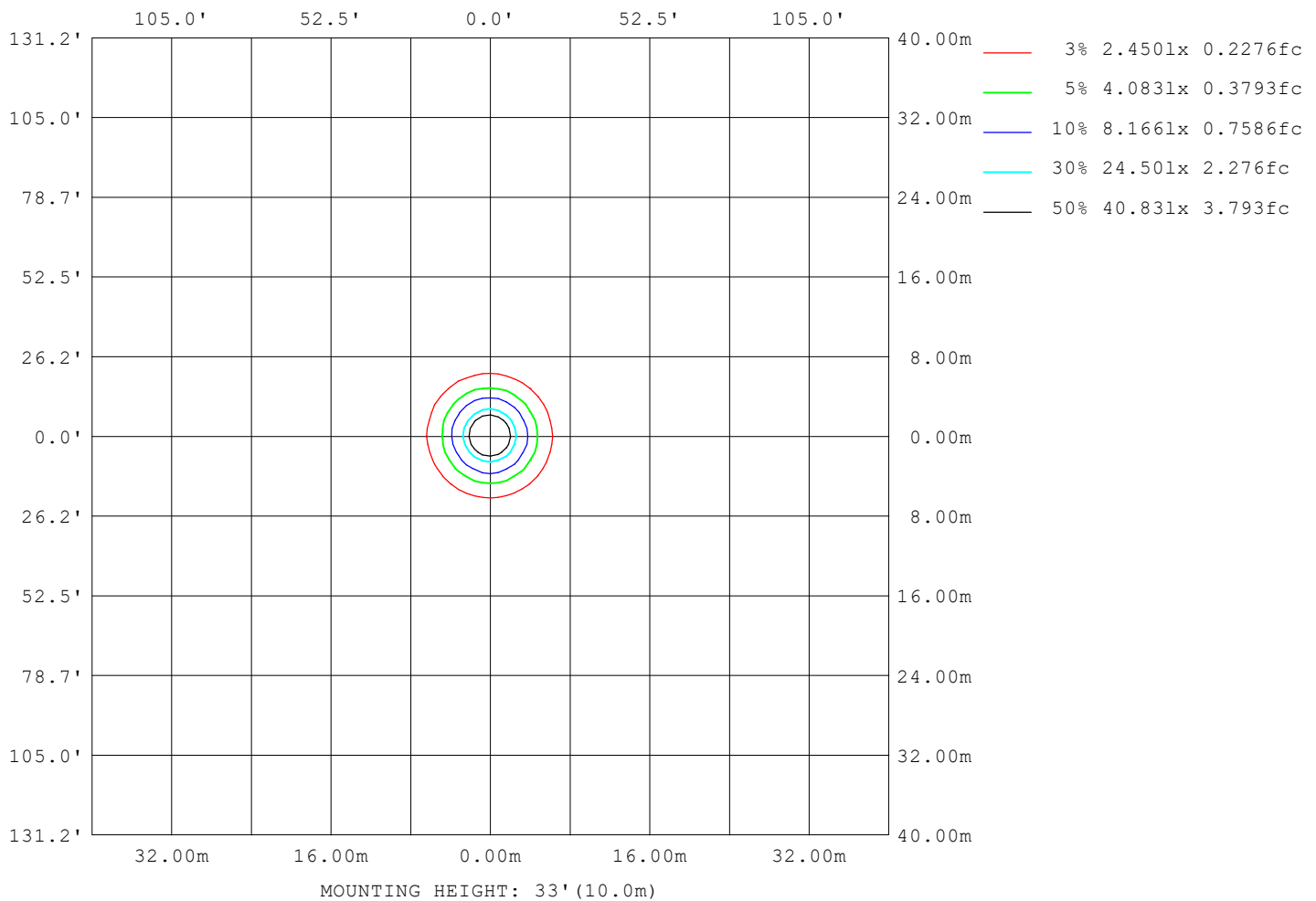


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Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
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Remarks:

ISOLUX DIAGRAM

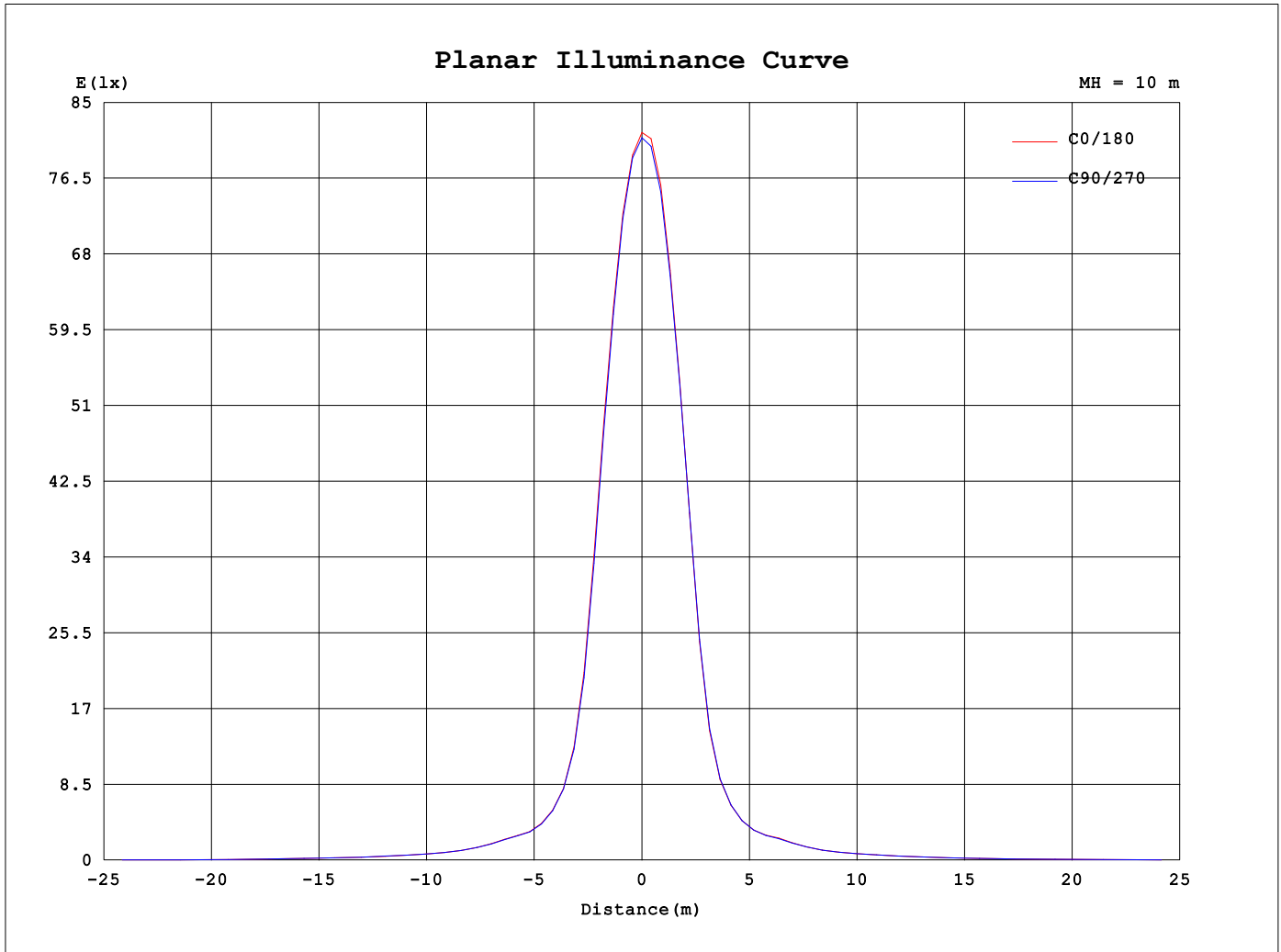
NAME: 96GRF1/3645220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 300 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 36 Circle	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

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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:

Planar Illuminance Curve

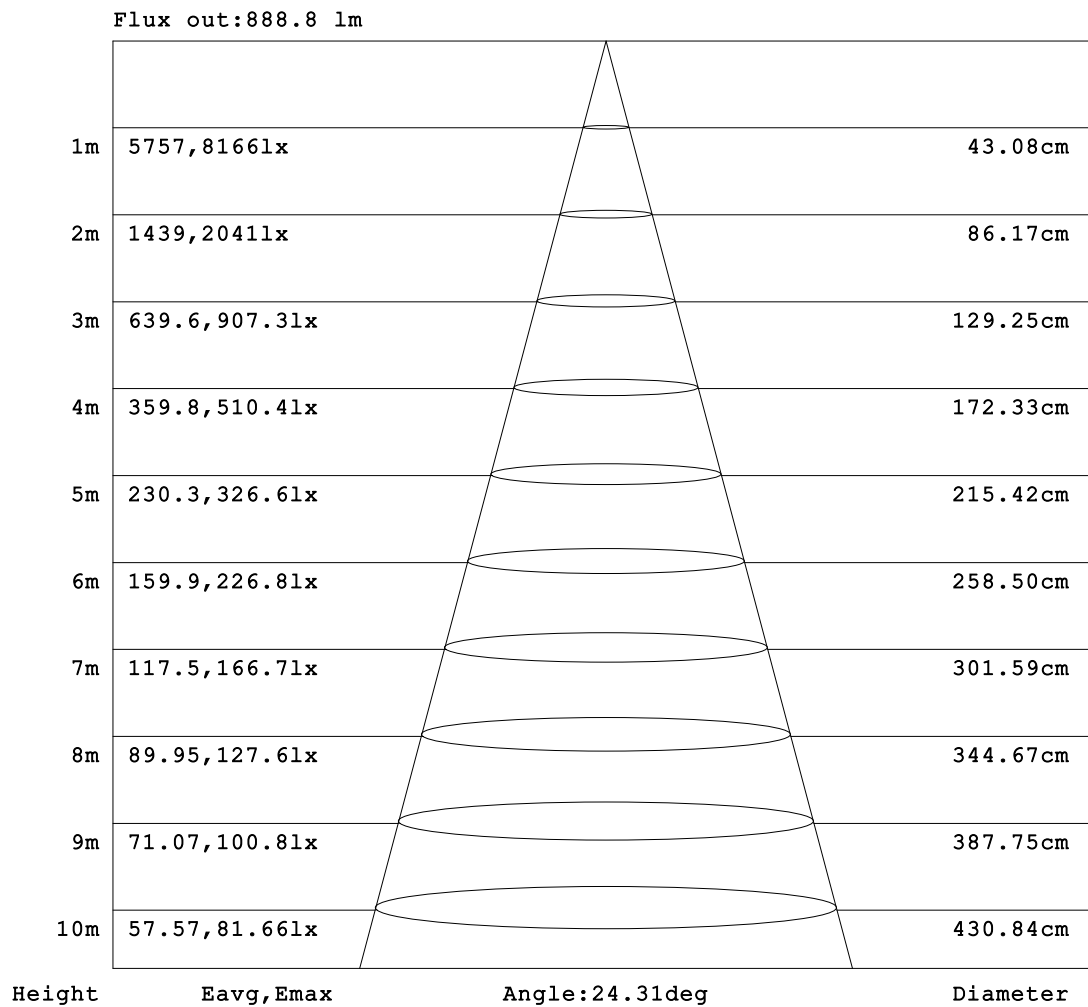


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

AAI Figure

NAME: 96GRF1/3645220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 300 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 36 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: 10.0DEG

Test Speed: MEDIUM

Temperature: 25.3°C

Operators:

Test Date: 01 September 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

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

Humidity: 65.0%

Test Distance: 6.340m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96GRF1/3645220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 300 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 36 Circle	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	0.35	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.37	0.37	0.37	0.37	0.38	0.39
-85	0.35	0.40	0.44	0.48	0.51	0.52	0.52	0.71	0.85	0.97	1.07	1.12	1.14	1.16	1.17	1.13	1.07	1.06	1.04
-80	0.35	0.44	0.52	0.64	1.17	1.60	1.98	3.05	4.02	5.03	6.12	7.51	8.80	9.81	10.6	10.7	10.5	10.4	10.0
-75	0.35	0.48	0.65	1.51	2.35	4.36	6.16	8.64	11.0	13.9	17.0	20.1	23.4	25.7	27.5	28.0	27.9	27.8	27.2
-70	0.35	0.52	1.25	2.47	5.40	8.69	12.3	16.7	21.3	26.6	31.9	37.3	42.2	46.1	49.2	51.1	52.0	52.2	51.5
-65	0.35	0.56	1.84	4.87	9.13	14.2	20.1	26.9	34.2	41.8	50.3	58.1	65.2	70.9	75.5	79.0	81.6	82.5	82.0
-60	0.35	0.59	2.40	7.22	13.5	20.9	29.4	38.8	49.3	60.4	71.6	81.8	90.7	98.2	105	109	112	114	115
-55	0.35	0.87	3.91	10.4	18.7	28.6	39.8	52.2	66.3	80.6	94.2	107	117	126	134	140	143	145	146
-50	0.35	1.12	5.35	13.5	24.1	36.6	50.9	66.9	84.1	101	117	131	142	153	161	167	171	174	174
-45	0.35	1.36	6.70	16.9	29.9	44.6	62.5	81.9	102	121	137	152	164	176	186	194	200	203	203
-40	0.35	1.58	8.05	20.4	35.4	53.3	74.0	96.2	118	138	155	171	186	199	212	224	236	243	244
-35	0.35	1.78	9.62	23.5	40.9	61.3	84.9	109	133	153	172	190	206	226	252	284	312	329	335
-30	0.35	1.96	11.0	26.5	45.9	68.9	94.5	120	144	166	188	207	233	276	328	376	403	418	423
-25	0.35	2.11	12.2	29.3	50.4	75.5	103	130	155	178	201	227	278	347	403	439	483	530	546
-20	0.35	2.23	13.2	31.6	54.4	81.3	110	138	163	188	214	255	333	406	455	569	739	907	965
-15	0.35	2.34	14.0	33.4	57.6	86.0	116	144	170	197	226	291	383	443	577	882	1391	2052	2273
-10	0.35	2.41	14.6	34.8	60.0	89.5	120	149	176	203	240	323	413	498	771	1445	2939	4482	5032
-5	0.35	2.45	14.9	35.7	61.6	91.8	123	153	180	208	250	344	426	560	978	2264	4729	6652	7280
0	0.35	2.47	15.0	36.0	62.3	92.9	125	155	182	210	255	354	433	596	1092	2723	5609	7664	8166
5	0.35	2.45	14.8	35.5	61.7	92.3	124	154	181	209	252	349	430	579	1048	2460	5023	6999	7585
10	0.35	2.40	14.3	34.5	60.3	90.4	122	151	178	205	244	331	423	524	869	1651	3374	5038	5578
15	0.35	2.32	13.6	33.0	57.9	87.3	118	147	173	199	231	301	400	460	628	1016	1663	2481	2750
20	0.35	2.21	12.7	30.9	54.7	83.0	113	141	167	192	218	263	348	425	482	630	860	1061	1104
25	0.35	2.08	11.6	28.4	50.5	77.5	106	134	159	182	204	233	291	365	422	461	524	583	596
30	0.35	1.93	10.3	25.4	45.7	70.7	97.6	124	149	170	191	211	240	290	347	399	420	429	429
35	0.35	1.75	8.90	22.2	40.6	62.8	88.0	113	136	157	177	193	210	233	263	301	329	347	350
40	0.35	1.56	7.30	18.9	34.9	54.4	76.9	100	122	142	160	176	190	203	217	231	244	252	254
45	0.35	1.34	6.02	15.4	29.3	45.5	65.0	85.9	106	125	142	156	169	181	190	198	204	207	208
50	0.35	1.11	4.81	12.1	23.3	37.1	52.9	70.7	88.9	106	122	135	146	157	165	172	176	179	180
55	0.35	0.86	3.56	9.22	17.9	28.8	41.4	55.3	71.0	86.1	99.3	111	122	131	139	144	148	150	151
60	0.35	0.59	2.28	6.21	12.5	20.9	30.7	41.3	53.3	65.5	76.4	86.2	95.5	104	110	115	119	120	120
65	0.35	0.56	1.75	4.30	8.28	13.9	20.9	28.8	37.5	46.1	54.6	62.1	69.2	75.2	80.3	84.2	86.9	88.3	88.2
70	0.35	0.52	1.21	2.33	4.80	8.27	12.5	17.9	23.5	29.8	35.7	40.9	45.3	48.9	51.8	54.2	55.9	56.6	56.4
75	0.35	0.48	0.65	1.44	2.24	4.12	6.11	9.21	12.4	16.0	19.9	23.1	25.9	27.7	28.8	29.8	30.3	30.6	30.5
80	0.35	0.44	0.52	0.62	1.11	1.58	1.99	3.25	4.51	5.88	7.45	9.04	10.4	11.1	11.4	11.8	12.0	12.2	12.1
85	0.35	0.40	0.44	0.47	0.48	0.51	0.53	0.73	0.92	1.13	1.34	1.49	1.63	1.66	1.64	1.65	1.64	1.61	1.55
90	0.35	0.36	0.37	0.36	0.35	0.35	0.35	0.34	0.34	0.34	0.33	0.33	0.33	0.33	0.33	0.34	0.34	0.34	0.35

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:01 September 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

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

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96GRF1/3645220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 300 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 36 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	
-90	0.39	0.39	0.39	0.39	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.39	0.39	
-85	1.02	1.00	1.00	1.00	0.98	0.95	0.90	0.84	0.76	0.69	0.59	0.48	0.49	0.49	0.46	0.44	0.41	0.39	
-80	9.90	9.58	9.25	8.75	8.13	7.34	6.32	5.17	4.02	3.04	2.17	1.31	1.07	0.83	0.56	0.49	0.44	0.39	
-75	26.8	26.1	25.2	23.9	22.3	20.2	17.6	14.9	11.7	8.80	6.54	4.28	2.87	1.45	1.01	0.56	0.47	0.39	
-70	50.8	49.2	47.4	44.7	41.4	37.6	33.5	28.6	23.4	18.0	13.4	9.15	6.01	3.43	1.52	0.87	0.50	0.39	
-65	81.2	79.1	75.6	71.0	65.6	59.5	52.6	45.5	37.6	30.0	22.6	15.9	10.3	6.08	3.02	1.18	0.52	0.39	
-60	113	110	106	100	92.1	83.6	74.5	65.0	54.7	44.0	33.5	24.1	15.9	9.31	4.48	1.47	0.55	0.39	
-55	144	141	136	129	120	110	98.2	86.0	73.4	59.7	46.0	33.3	22.4	13.5	6.77	2.40	0.69	0.39	
-50	172	168	162	155	146	135	122	107	92.2	76.2	59.5	43.5	29.3	17.8	9.00	3.30	0.82	0.39	
-45	200	196	189	180	169	158	144	128	111	92.6	73.3	54.2	36.5	22.7	11.6	4.14	0.95	0.39	
-40	240	232	219	207	194	180	164	147	129	109	86.7	64.9	44.4	27.3	14.3	5.05	1.06	0.39	
-35	325	306	277	246	222	201	183	165	145	123	99.0	75.3	51.9	32.2	16.8	6.21	1.16	0.39	
-30	416	399	367	321	269	229	202	181	158	135	110	84.6	59.4	36.6	19.3	7.25	1.26	0.39	
-25	524	475	437	400	338	270	224	195	171	146	120	92.8	66.1	40.8	21.7	8.15	1.34	0.39	
-20	893	719	555	447	400	324	249	209	181	155	129	99.8	71.5	44.4	23.7	8.90	1.40	0.39	
-15	1975	1329	844	557	436	373	280	221	190	162	135	106	75.7	47.3	25.3	9.51	1.45	0.39	
-10	4290	2698	1343	729	479	404	312	234	197	168	140	109	78.8	49.4	26.5	9.95	1.49	0.39	
-5	6415	4352	2015	906	533	420	332	243	201	172	142	112	80.7	50.8	27.3	10.2	1.52	0.39	
0	7336	5133	2340	971	554	428	341	246	203	173	143	112	81.4	51.3	27.7	10.4	1.53	0.39	
5	6677	4564	2123	920	534	420	333	242	201	171	142	111	80.6	50.8	27.5	10.2	1.52	0.39	
10	4797	3021	1438	752	485	407	314	234	196	167	139	109	78.6	49.5	26.8	9.96	1.50	0.39	
15	2338	1504	904	572	438	379	286	222	190	162	134	105	75.4	47.4	25.6	9.51	1.46	0.39	
20	1008	788	582	453	404	330	252	209	182	155	129	99.1	71.1	44.6	24.1	8.91	1.40	0.39	
25	569	500	442	405	347	277	225	196	172	147	121	92.9	65.9	41.0	22.2	8.15	1.34	0.39	
30	425	410	385	333	278	232	204	182	160	137	112	85.5	59.8	37.0	19.8	7.25	1.26	0.39	
35	344	322	291	255	226	204	186	167	147	125	101	76.7	52.6	32.9	17.3	6.21	1.17	0.39	
40	250	241	226	212	197	182	167	150	131	111	88.9	66.7	45.4	28.2	14.7	5.04	1.06	0.39	
45	206	201	194	185	174	161	147	132	114	95.1	75.5	55.6	37.7	23.5	11.7	4.13	0.95	0.39	
50	178	174	168	160	150	139	126	112	96.0	78.8	61.1	44.7	30.6	18.4	9.02	3.30	0.82	0.39	
55	149	146	140	133	125	114	102	90.2	76.0	61.4	47.1	34.5	23.3	13.9	6.77	2.41	0.69	0.39	
60	119	116	111	105	97.7	88.7	79.0	68.0	56.4	45.1	34.5	25.0	16.4	9.39	4.45	1.49	0.54	0.39	
65	87.1	84.7	80.7	75.7	69.8	62.9	54.9	46.9	38.4	30.8	23.3	16.3	10.5	6.08	3.03	1.19	0.52	0.39	
70	55.9	54.4	51.7	48.4	44.5	39.9	34.8	29.1	24.0	18.6	13.7	9.17	5.99	3.43	1.57	0.87	0.49	0.39	
75	30.3	29.7	28.5	26.9	24.8	22.2	18.8	15.3	11.9	8.88	6.48	4.15	2.86	1.55	1.02	0.55	0.46	0.39	
80	12.1	11.9	11.4	10.7	9.63	8.37	6.69	4.93	3.88	2.99	2.15	1.30	1.09	0.83	0.53	0.47	0.43	0.39	
85	1.59	1.60	1.54	1.47	1.39	1.29	1.12	0.96	0.82	0.67	0.57	0.47	0.45	0.43	0.43	0.42	0.40	0.39	
90	0.35	0.35	0.34	0.34	0.34	0.34	0.34	0.35	0.35	0.35	0.35	0.36	0.36	0.36	0.36	0.36	0.37	0.39	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:01 September 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

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

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks: