

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	2839.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	43.5V x 43.6H
	At 50% of Imax	24.3V x 24.4H
	At 90% of Imax	10.3V x 10.6H

Beam Flux	Total	793.4 lumens per klm.
	To 10% of Imax	504.7 lumens per klm.
	To 50% of Imax	308.1 lumens per klm.
	To 90% of Imax	64.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	79.3 %

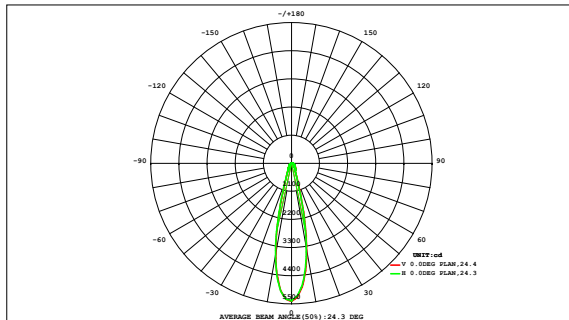
Luminaire Efficiency (Light Output Ratio)	79.1 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

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: 96GRF1/2445220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Circle	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	96GRF1/2445220W	Imax (cd)	5395
NOMINAL POWER (W)	24	AVAILABILITY (%)	49.5
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	940.0
NOMINAL FLUX (lm)	1900	LOR (%)	79.1
LAMPS INSIDE	1	TOTAL FLUX (lm)	1502
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	0.00	0.01	0.02	0.03	0.04	0.05	0.05	0.05	0.04	0.04	0.03	0.02	0.01	0.00	0.00	0.00	0.38	0.00
90	0.00	0.00	0.02	0.08	0.19	0.33	0.46	0.54	0.55	0.54	0.50	0.43	0.32	0.19	0.08	0.02	0.00	0.00	4.27	0.00
80	0.00	0.01	0.09	0.29	0.61	1.00	1.36	1.61	1.70	1.64	1.49	1.28	0.98	0.63	0.31	0.10	0.01	0.00	13.1	0.00
70	0.00	0.03	0.20	0.59	1.17	1.84	2.43	2.84	3.03	2.98	2.73	2.36	1.82	1.19	0.63	0.23	0.04	0.00	24.1	0.00
60	0.00	0.06	0.33	0.90	1.73	2.57	3.32	3.89	4.27	4.27	3.91	3.32	2.59	1.78	0.97	0.36	0.07	0.00	34.4	0.00
50	0.00	0.09	0.46	1.21	2.19	3.20	4.30	5.77	6.76	6.77	5.80	4.35	3.24	2.25	1.29	0.49	0.10	0.00	48.3	0.00
40	0.01	0.12	0.57	1.45	2.58	3.89	6.29	9.05	12.2	12.2	9.06	6.34	3.94	2.62	1.53	0.60	0.12	0.01	72.5	5.34
30	0.01	0.14	0.65	1.63	2.88	4.87	8.41	19.9	49.5	50.2	20.4	8.52	4.94	2.88	1.68	0.68	0.14	0.01	178	130
20	0.01	0.15	0.71	1.77	3.08	5.56	10.7	45.5	126	129	47.6	11.0	5.58	3.05	1.75	0.71	0.15	0.01	392	352
10	0.01	0.15	0.72	1.80	3.12	5.59	10.5	43.6	121	124	46.1	11.0	5.59	3.05	1.74	0.70	0.15	0.01	379	338
0	0.01	0.14	0.69	1.74	2.98	4.92	8.32	18.1	43.3	44.6	19.1	8.39	4.83	2.86	1.63	0.66	0.14	0.01	162	113
-10	0.01	0.12	0.62	1.59	2.72	4.01	6.23	8.64	11.2	11.4	8.74	6.12	3.85	2.58	1.45	0.57	0.12	0.01	69.9	2.29
-20	0.00	0.10	0.51	1.35	2.36	3.34	4.36	5.57	6.47	6.44	5.49	4.21	3.19	2.23	1.22	0.46	0.09	0.00	47.4	0.00
-30	0.00	0.07	0.38	1.02	1.88	2.70	3.38	3.91	4.21	4.19	3.87	3.32	2.62	1.78	0.93	0.34	0.06	0.00	34.7	0.00
-40	0.00	0.04	0.23	0.66	1.26	1.91	2.41	2.75	2.96	3.01	2.85	2.47	1.90	1.21	0.61	0.21	0.04	0.00	24.5	0.00
-50	0.00	0.02	0.11	0.33	0.65	1.02	1.29	1.48	1.61	1.67	1.62	1.40	1.04	0.64	0.31	0.10	0.02	0.00	13.3	0.00
-60	0.00	0.01	0.03	0.09	0.19	0.32	0.43	0.49	0.52	0.54	0.54	0.47	0.33	0.19	0.09	0.03	0.00	0.00	4.28	0.00
-70	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.02	0.02	0.01	0.00	0.00	0.00	0.36	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	0.06	1.26	6.34	16.5	29.6	47.1	74.3	174	396	403	180	75.0	46.8	29.2	16.2	6.27	1.25	0.06	1502	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	3.31	115	344	351	122	4.40	0.00	0.00	0.00	0.00	0.00	0.00	---	940

one-half-peak spread: U:11.8,D:12.7 , L:12.1,R:12.4

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

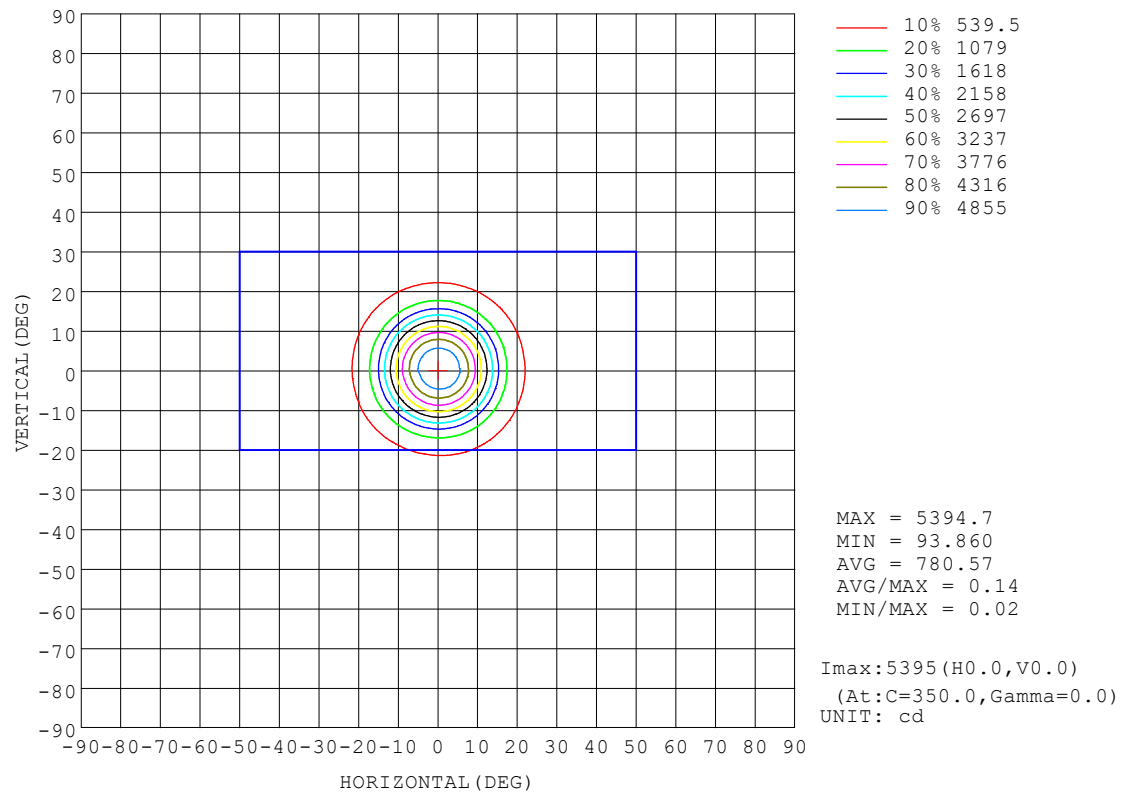
Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

NAME: 96GRF1/2445220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Circle	Shielding Angle:

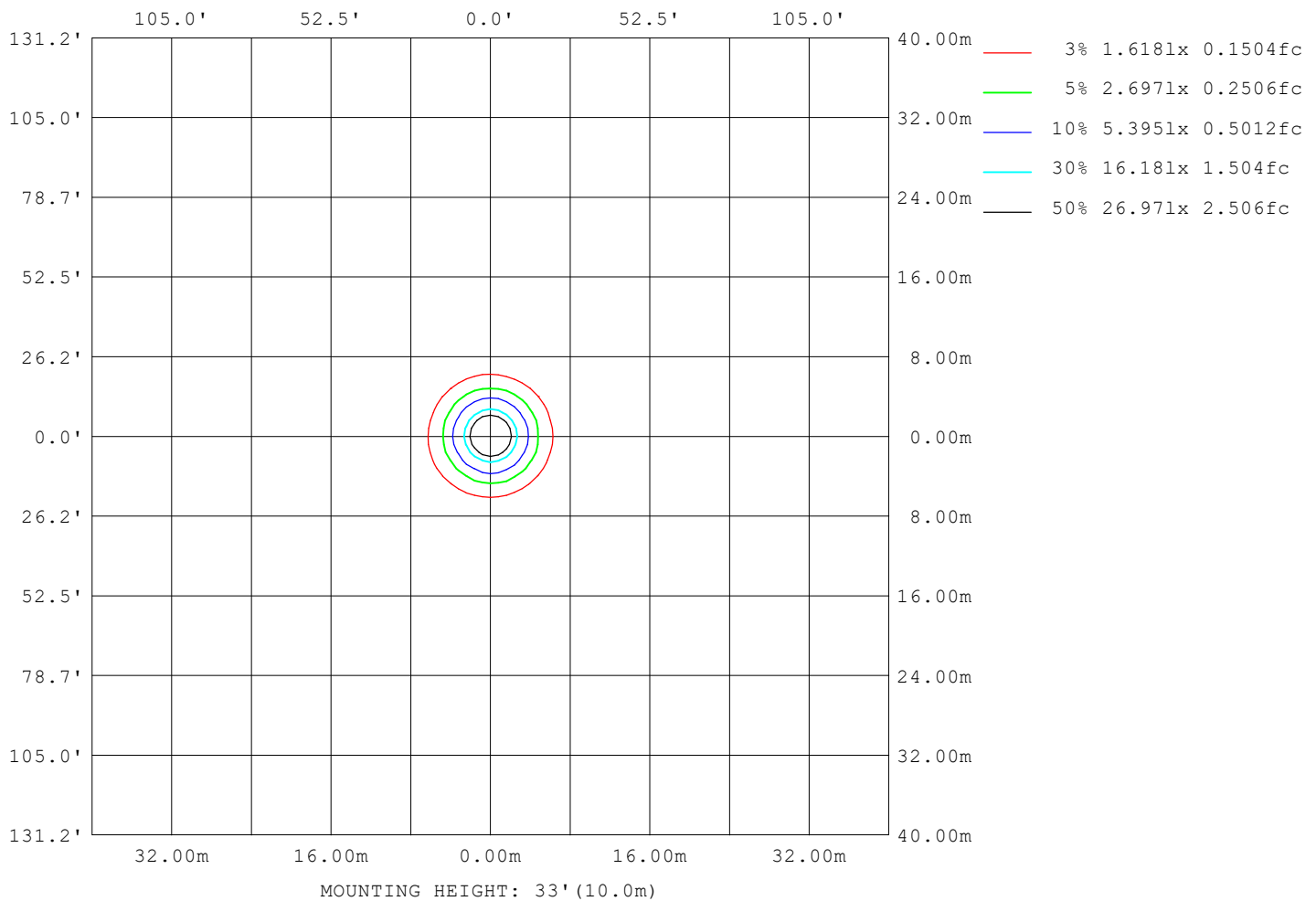


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ISOLUX DIAGRAM

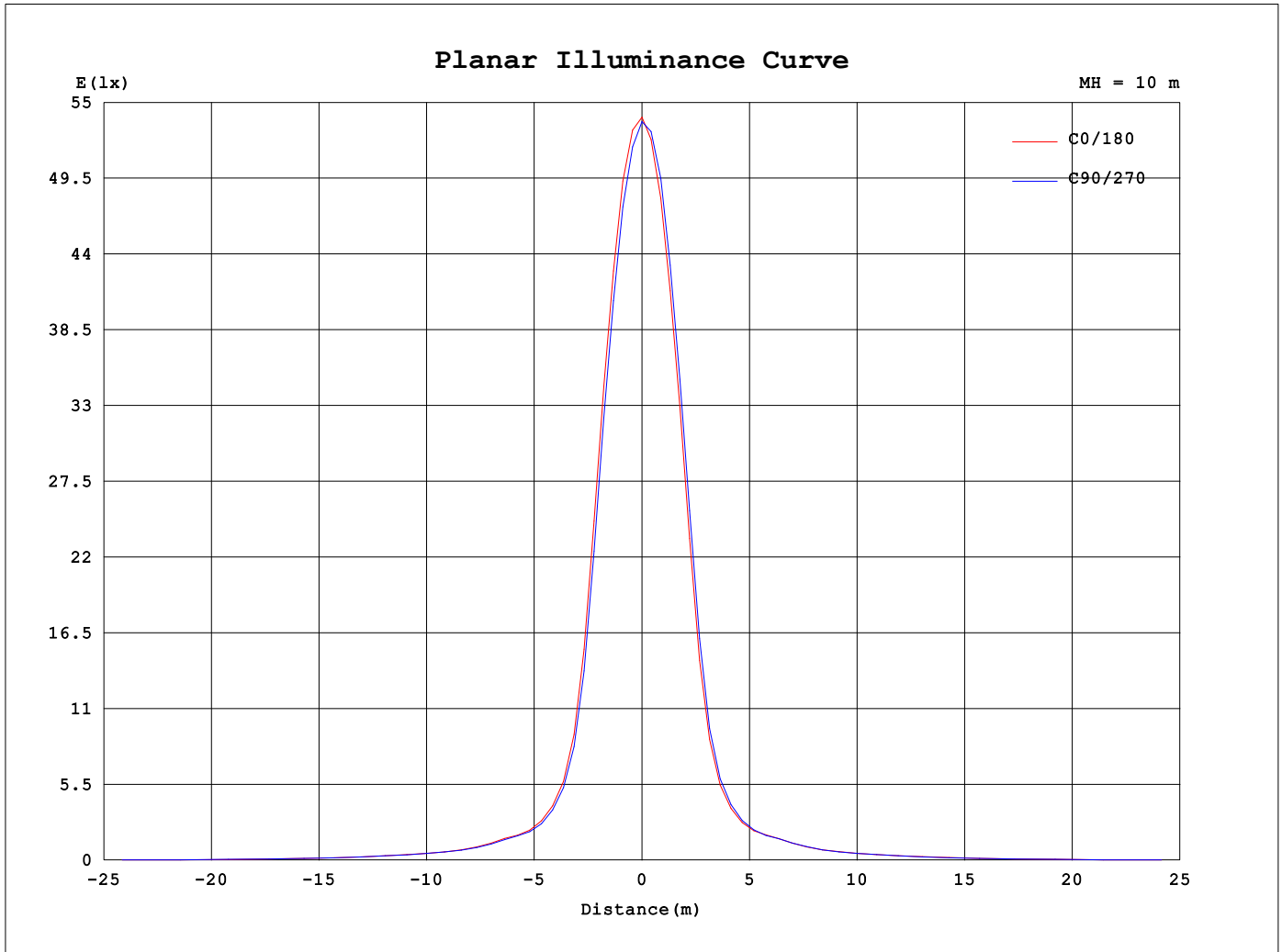
NAME: 96GRF1/2445220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Circle	Shielding Angle:



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C Interval: 10.0DEG
Test Speed: MEDIUM
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Operators:
Test Date: 01 September 2022

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Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

Planar Illuminance Curve

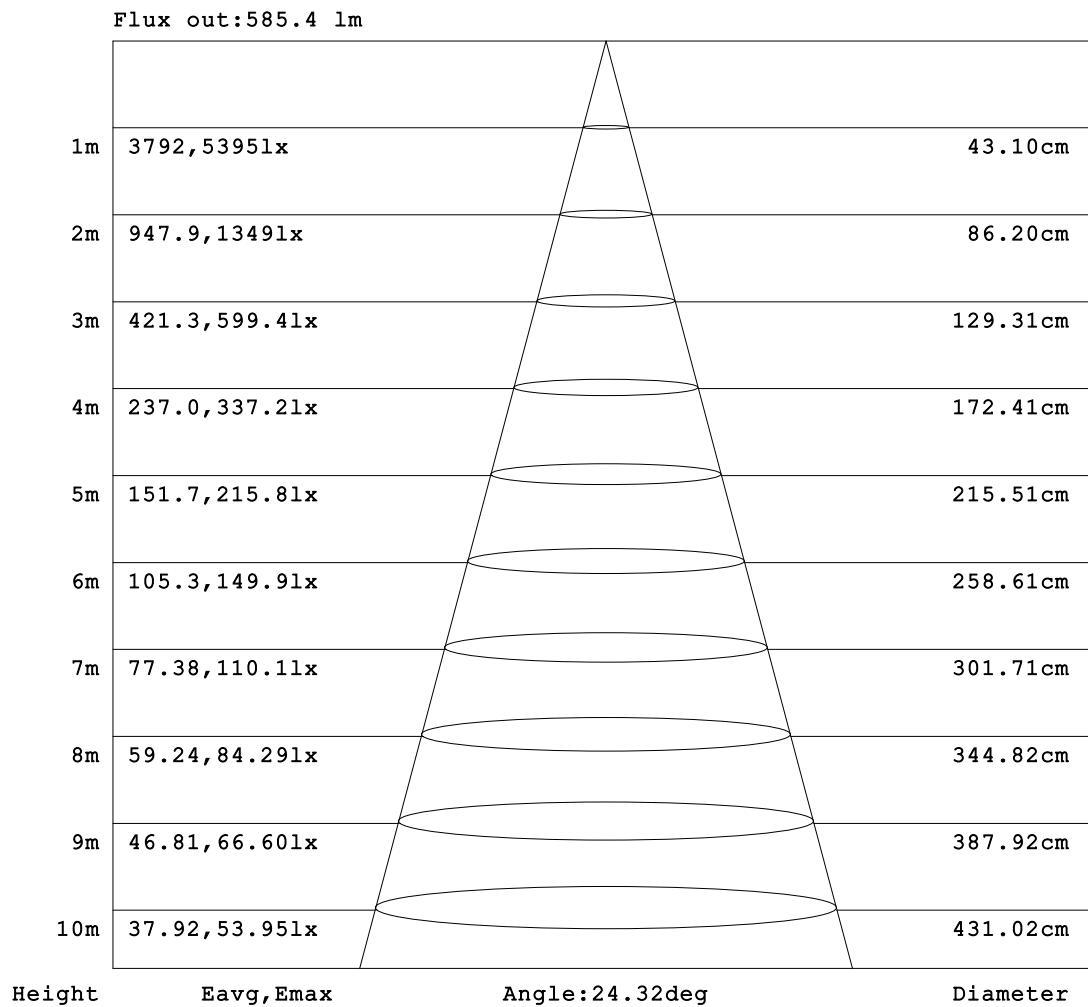


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 01 September 2022

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: 96GRF1/2445220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 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: 96GRF1/2445220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 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	0.21	0.22	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22	0.21	0.22	0.22	0.22	0.21	0.21	0.22
-85	0.21	0.24	0.26	0.28	0.31	0.30	0.29	0.37	0.44	0.48	0.50	0.54	0.57	0.57	0.57	0.59	0.60	0.59	0.59
-80	0.21	0.26	0.30	0.35	0.53	0.67	0.82	1.42	1.95	2.48	3.12	3.91	4.58	4.99	5.21	5.39	5.46	5.55	5.53
-75	0.21	0.28	0.35	0.61	0.92	1.94	2.96	4.69	6.23	8.33	10.6	12.3	13.8	15.0	15.7	15.9	15.8	16.2	16.4
-70	0.21	0.30	0.51	0.90	2.29	4.40	7.10	10.4	13.8	17.7	21.4	25.0	27.6	29.3	30.3	31.1	31.6	32.5	33.0
-65	0.21	0.31	0.67	1.88	4.30	7.99	12.5	18.1	24.0	30.2	35.9	40.6	44.0	46.3	48.3	50.1	51.2	52.7	53.7
-60	0.21	0.33	0.82	2.80	6.84	12.3	19.2	27.7	35.9	43.9	51.3	57.8	62.8	67.0	70.0	72.0	73.3	75.2	76.5
-55	0.21	0.40	1.38	4.41	9.83	17.4	27.0	37.7	47.9	58.4	68.1	76.9	83.7	88.1	91.0	93.4	95.4	97.7	99.5
-50	0.21	0.46	1.92	5.91	12.8	22.9	34.8	47.5	60.6	74.0	85.8	94.4	101	106	111	115	118	120	121
-45	0.21	0.52	2.41	7.57	16.1	28.3	42.5	57.7	73.9	88.7	98.8	108	117	123	129	133	136	138	139
-40	0.21	0.58	2.95	9.28	19.2	33.5	50.0	67.7	85.8	99.6	111	122	131	138	145	152	158	161	162
-35	0.21	0.63	3.68	10.8	22.4	38.1	57.0	77.1	95.1	110	123	134	144	156	169	184	202	213	217
-30	0.21	0.67	4.31	12.3	25.1	42.4	63.3	85.4	103	119	133	146	161	184	213	244	263	272	273
-25	0.21	0.70	4.85	13.7	27.7	46.0	68.8	91.0	110	127	142	158	185	227	264	286	313	344	357
-20	0.21	0.73	5.28	14.8	29.9	49.5	73.2	95.6	115	133	150	173	219	269	297	364	471	585	635
-15	0.21	0.75	5.61	15.6	31.6	52.2	76.3	99.1	120	138	157	192	252	294	369	556	885	1329	1525
-10	0.21	0.77	5.84	16.1	32.7	53.8	78.2	102	123	142	164	211	273	322	483	907	1833	2885	3361
-5	0.21	0.78	5.96	16.3	33.3	54.3	78.8	103	125	144	168	223	282	353	604	1374	2929	4257	4798
0	0.21	0.78	5.98	16.3	33.2	54.0	78.2	103	125	144	169	226	285	368	661	1609	3446	4861	5395
5	0.21	0.77	5.88	16.2	32.8	53.2	76.9	101	123	142	167	221	280	360	625	1452	3066	4449	5007
10	0.21	0.76	5.69	15.8	31.9	51.6	74.4	97.3	119	138	161	209	269	328	510	982	2039	3180	3655
15	0.21	0.74	5.40	15.1	30.4	49.3	70.8	92.8	114	134	153	190	250	293	390	610	1013	1551	1785
20	0.21	0.72	5.01	14.2	28.3	46.1	66.7	88.1	109	127	144	170	217	268	307	394	529	666	714
25	0.21	0.68	4.53	13.0	25.8	42.5	62.3	82.4	102	120	135	152	185	228	268	296	336	376	388
30	0.21	0.65	3.96	11.6	23.0	38.6	56.8	76.1	93.9	111	126	139	158	185	220	252	270	278	276
35	0.21	0.61	3.31	10.0	20.4	34.2	50.5	68.9	85.8	101	116	128	139	152	174	194	212	223	228
40	0.21	0.56	2.58	8.39	17.4	29.6	43.4	60.3	76.9	91.7	105	116	126	135	143	151	161	167	168
45	0.21	0.51	2.08	6.63	14.5	24.7	36.9	51.0	66.0	81.3	93.6	103	112	121	127	132	137	140	141
50	0.21	0.45	1.64	4.99	11.3	20.0	30.3	41.8	54.4	67.5	80.6	90.1	97.8	105	110	115	119	121	122
55	0.21	0.39	1.19	3.63	8.37	15.2	23.6	33.1	43.3	53.9	64.1	74.5	83.1	89.3	93.8	97.0	99.2	100.0	99.3
60	0.21	0.33	0.73	2.22	5.41	10.6	17.1	24.5	32.4	40.9	48.6	56.2	63.2	69.5	74.4	77.5	79.2	79.0	77.5
65	0.21	0.31	0.60	1.51	3.35	6.45	11.0	16.3	21.9	27.8	34.1	39.9	44.9	49.0	52.4	54.6	55.8	55.7	54.5
70	0.21	0.29	0.48	0.78	1.78	3.43	5.90	9.40	13.1	16.8	20.5	24.6	28.4	31.3	33.4	34.2	34.2	34.2	33.7
75	0.21	0.28	0.35	0.54	0.79	1.52	2.25	4.13	6.05	8.22	10.5	12.5	14.5	16.0	17.0	17.4	17.3	17.1	16.6
80	0.21	0.26	0.30	0.33	0.46	0.60	0.72	1.24	1.88	2.49	3.23	4.18	5.08	5.69	6.16	6.31	6.26	6.21	6.04
85	0.21	0.23	0.26	0.27	0.27	0.29	0.31	0.36	0.42	0.49	0.55	0.58	0.62	0.64	0.66	0.66	0.66	0.67	0.67
90	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20

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: 96GRF1/2445220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 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	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.23	0.23	
-85	0.59	0.59	0.58	0.56	0.56	0.54	0.51	0.47	0.45	0.41	0.35	0.28	0.29	0.29	0.28	0.26	0.25	0.23	
-80	5.68	5.73	5.92	5.89	5.31	4.62	3.83	2.97	2.43	1.93	1.33	0.74	0.61	0.48	0.34	0.29	0.27	0.23	
-75	16.9	17.1	17.5	17.4	16.2	14.6	12.5	10.5	8.42	6.48	4.62	2.73	1.73	0.81	0.55	0.34	0.29	0.23	
-70	33.8	34.0	34.5	34.1	32.0	29.1	25.6	21.6	17.6	13.6	10.1	6.70	3.93	2.00	0.80	0.48	0.31	0.23	
-65	54.9	55.2	55.0	53.6	50.6	46.7	41.7	35.6	29.1	22.9	17.1	11.7	7.14	3.75	1.67	0.61	0.33	0.23	
-60	78.0	78.4	77.6	75.1	70.9	65.2	58.6	50.7	42.4	33.7	25.5	17.7	11.1	5.99	2.50	0.74	0.35	0.23	
-55	99.6	98.8	97.6	94.7	90.3	84.9	76.9	66.6	56.1	45.0	34.6	24.3	15.5	8.82	4.00	1.26	0.41	0.23	
-50	120	118	115	111	106	99.7	92.5	82.6	69.9	56.5	43.4	31.2	20.2	11.6	5.43	1.76	0.46	0.23	
-45	138	135	132	127	121	114	105	95.6	83.2	68.2	52.4	37.9	25.0	14.7	7.01	2.22	0.52	0.23	
-40	160	156	149	141	134	127	117	107	94.2	78.8	61.4	44.1	30.1	17.6	8.64	2.73	0.57	0.23	
-35	211	200	182	164	150	138	128	117	104	87.8	69.8	50.9	34.7	20.6	10.1	3.46	0.61	0.23	
-30	271	261	241	210	178	154	138	127	112	95.1	76.9	57.2	39.2	23.2	11.7	4.09	0.65	0.23	
-25	349	320	289	263	222	180	151	135	120	102	83.0	62.6	43.1	26.0	13.2	4.63	0.68	0.23	
-20	607	495	379	301	264	215	168	143	127	108	88.3	67.0	46.6	28.5	14.4	5.08	0.71	0.23	
-15	1375	933	587	385	294	249	189	151	133	114	92.6	70.7	49.5	30.5	15.4	5.43	0.73	0.23	
-10	2967	1926	958	511	331	270	210	163	137	119	96.4	73.8	51.7	31.9	16.0	5.68	0.75	0.23	
-5	4365	3071	1461	641	371	277	224	169	140	121	98.9	75.7	53.0	32.8	16.4	5.83	0.76	0.23	
0	4988	3598	1700	689	385	280	228	168	141	122	99.9	76.6	53.6	33.2	16.6	5.87	0.76	0.23	
5	4548	3196	1529	646	371	278	222	166	140	122	99.7	77.0	53.7	33.1	16.5	5.80	0.76	0.23	
10	3239	2115	1016	524	337	271	211	161	137	119	98.3	76.2	52.9	32.4	16.2	5.64	0.75	0.23	
15	1575	1034	622	397	295	255	194	153	134	116	95.8	74.1	51.1	31.2	15.6	5.37	0.73	0.23	
20	669	533	399	309	269	223	173	145	129	111	92.5	70.8	48.2	29.4	14.7	5.00	0.71	0.23	
25	376	335	294	269	231	188	154	136	122	106	87.6	66.4	44.6	27.1	13.5	4.54	0.68	0.23	
30	274	269	253	223	187	161	141	128	113	99.0	81.3	60.9	41.1	24.4	12.1	3.99	0.65	0.23	
35	225	214	195	172	154	141	130	118	104	90.6	73.5	54.7	37.0	21.8	10.4	3.36	0.61	0.23	
40	168	162	153	145	136	128	118	106	94.6	81.0	64.3	48.0	32.4	18.7	8.75	2.64	0.57	0.23	
45	140	137	133	128	121	113	104	94.6	83.9	69.4	54.8	40.9	27.3	15.6	6.92	2.14	0.52	0.23	
50	121	118	114	109	104	97.6	90.3	81.2	69.4	57.3	45.5	33.4	22.1	12.3	5.24	1.69	0.47	0.23	
55	98.5	96.2	92.8	89.9	86.1	80.5	72.9	64.4	55.2	45.7	35.9	25.7	16.8	9.17	3.83	1.22	0.41	0.23	
60	76.3	74.4	72.4	69.6	65.9	60.9	55.4	48.9	41.9	34.1	26.1	18.5	11.8	6.00	2.32	0.73	0.35	0.23	
65	53.6	52.0	50.4	48.1	45.8	42.9	38.9	34.1	28.5	23.0	17.5	12.2	7.19	3.59	1.55	0.60	0.33	0.23	
70	33.2	32.2	31.4	30.3	29.1	27.1	24.2	20.8	17.4	13.8	10.1	6.35	3.65	1.78	0.75	0.48	0.31	0.23	
75	16.5	16.2	16.1	15.7	15.0	13.8	12.3	10.6	8.35	6.15	4.27	2.26	1.50	0.72	0.52	0.34	0.29	0.23	
80	6.00	5.84	5.72	5.47	5.21	4.79	4.07	3.23	2.52	1.91	1.24	0.68	0.56	0.43	0.32	0.30	0.27	0.23	
85	0.66	0.65	0.65	0.64	0.63	0.61	0.58	0.54	0.48	0.42	0.35	0.30	0.29	0.27	0.27	0.26	0.24	0.23	
90	0.20	0.20	0.20	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.22	0.22	0.21	0.22	0.23	

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: