

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	2345.1 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	2.5 degrees horizontal

Beam Spread	At 10% of Imax	45.6V x 45.6H
	At 50% of Imax	25.0V x 25.1H
	At 90% of Imax	11.2V x 11.5H

Beam Flux	Total	649.0 lumens per klm.
	To 10% of Imax	441.6 lumens per klm.
	To 50% of Imax	261.2 lumens per klm.
	To 90% of Imax	73.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	64.9 %

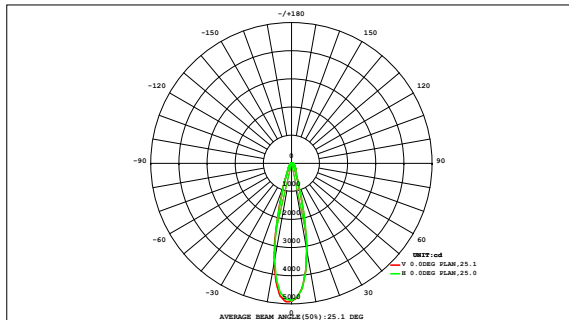
Luminaire Efficiency (Light Output Ratio)	64.7 %
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C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 01 September 2022

γ Range: 0 - 90DEG  
γ Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.265m [K=1.0000]  
Remarks:

## LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 96GRF1/244524	TYPE: 96GRF1/244524	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	96GRF1/244524	Imax (cd)	4925
NOMINAL POWER (W)	24	AVAILABILITY (%)	44.2
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	928.2
NOMINAL FLUX (lm)	2100	LOR (%)	64.7
LAMPS INSIDE	1	TOTAL FLUX (lm)	1358
TEST VOLTAGE (V)	230	θ @50% (H,V)	25,25DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.00	0.01	0.01	0.02	0.03	0.04	0.05	0.05	0.05	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.36	0.00
90	0.00	0.00	0.02	0.05	0.12	0.20	0.28	0.35	0.40	0.41	0.38	0.32	0.24	0.15	0.07	0.03	0.01	0.00	3.03	0.00
80	0.00	0.01	0.06	0.18	0.37	0.60	0.84	1.03	1.14	1.16	1.08	0.90	0.66	0.42	0.21	0.08	0.02	0.00	8.77	0.00
70	0.00	0.02	0.13	0.36	0.71	1.13	1.53	1.84	2.04	2.06	1.90	1.60	1.21	0.79	0.41	0.16	0.03	0.00	15.9	0.00
60	0.00	0.04	0.21	0.57	1.08	1.65	2.27	2.83	3.20	3.24	2.92	2.39	1.76	1.17	0.64	0.25	0.05	0.00	24.3	0.00
50	0.00	0.06	0.29	0.77	1.41	2.23	3.32	4.82	5.97	6.00	4.99	3.51	2.39	1.52	0.85	0.34	0.07	0.00	38.5	0.00
40	0.00	0.07	0.37	0.93	1.71	2.92	5.32	8.51	12.3	12.6	8.91	5.72	3.17	1.86	1.01	0.42	0.09	0.00	65.9	9.40
30	0.00	0.09	0.42	1.04	1.97	3.85	7.71	19.6	48.5	52.1	22.8	8.40	4.25	2.12	1.13	0.48	0.11	0.01	175	136
20	0.00	0.09	0.45	1.10	2.12	4.49	10.1	41.6	116	123	51.8	11.8	4.96	2.29	1.20	0.50	0.11	0.01	371	339
10	0.00	0.09	0.44	1.09	2.10	4.44	9.84	39.4	110	118	49.4	11.6	4.95	2.29	1.19	0.50	0.11	0.01	356	323
0	0.00	0.08	0.41	1.02	1.93	3.72	7.38	17.6	41.3	44.2	20.4	8.14	4.14	2.10	1.12	0.47	0.11	0.01	154	115
-10	0.00	0.07	0.35	0.91	1.67	2.83	5.07	7.91	11.0	11.3	8.36	5.43	3.06	1.80	0.99	0.41	0.09	0.00	61.2	4.73
-20	0.00	0.05	0.28	0.74	1.37	2.15	3.16	4.46	5.45	5.53	4.62	3.32	2.28	1.46	0.82	0.33	0.07	0.00	36.1	0.00
-30	0.00	0.04	0.19	0.54	1.03	1.59	2.15	2.67	3.00	3.02	2.74	2.24	1.66	1.11	0.61	0.24	0.05	0.00	22.9	0.00
-40	0.00	0.02	0.11	0.33	0.66	1.05	1.43	1.72	1.89	1.91	1.77	1.48	1.12	0.73	0.39	0.15	0.03	0.00	14.8	0.00
-50	0.00	0.01	0.05	0.16	0.32	0.53	0.74	0.92	1.02	1.03	0.95	0.79	0.58	0.37	0.19	0.07	0.01	0.00	7.75	0.00
-60	0.00	0.00	0.01	0.04	0.09	0.16	0.23	0.29	0.32	0.33	0.30	0.25	0.19	0.12	0.06	0.02	0.01	0.00	2.43	0.00
-70	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.25	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	0.04	0.76	3.80	9.83	18.7	33.6	61.4	156	364	386	183	67.9	36.7	20.3	10.9	4.45	0.98	0.05	1358	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	4.18	109	322	345	138	9.65	0.00	0.00	0.00	0.00	0.00	0.00	---	928

one-half-peak spread: U:12.1,D:13.1 , L:14.4,R:10.8

NEMA Beam Type: Type 3

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

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

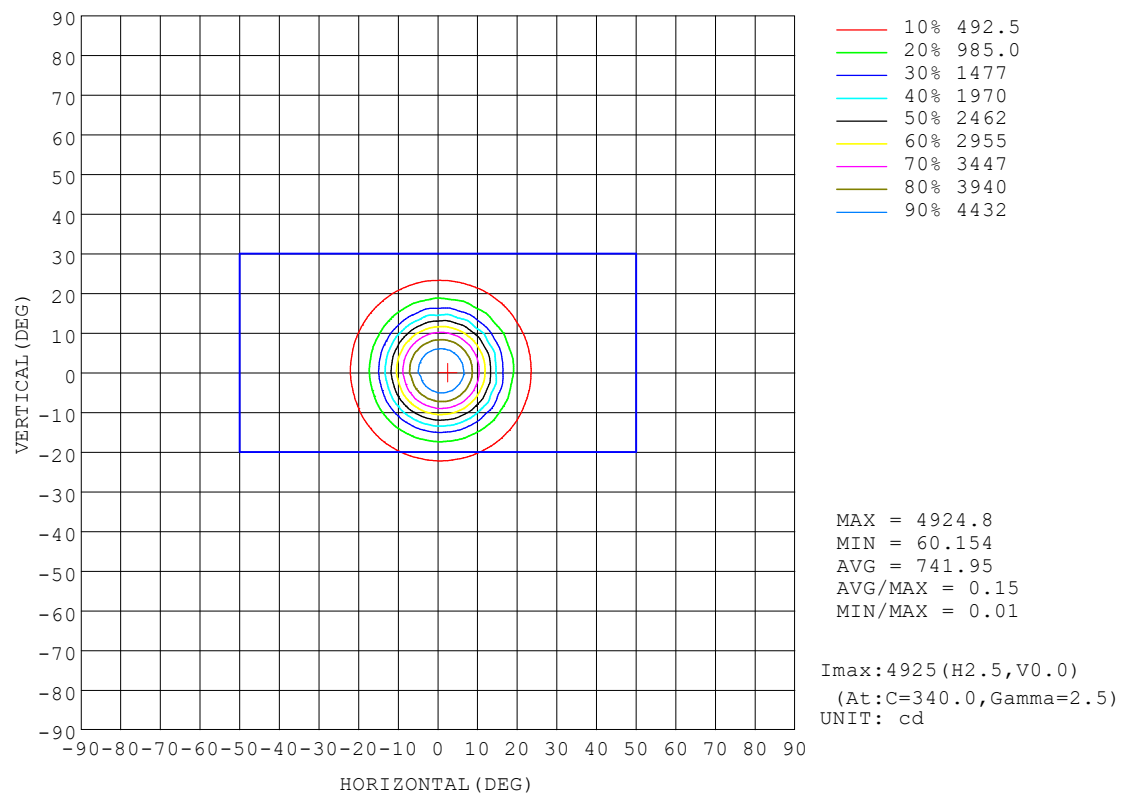
Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

**ISOCANDELA DIAGRAM**

NAME: 96GRF1/244524	TYPE: 96GRF1/244524	WEIGHT: 1
SPEC.:	DIM.: F 250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Circle	Shielding Angle:

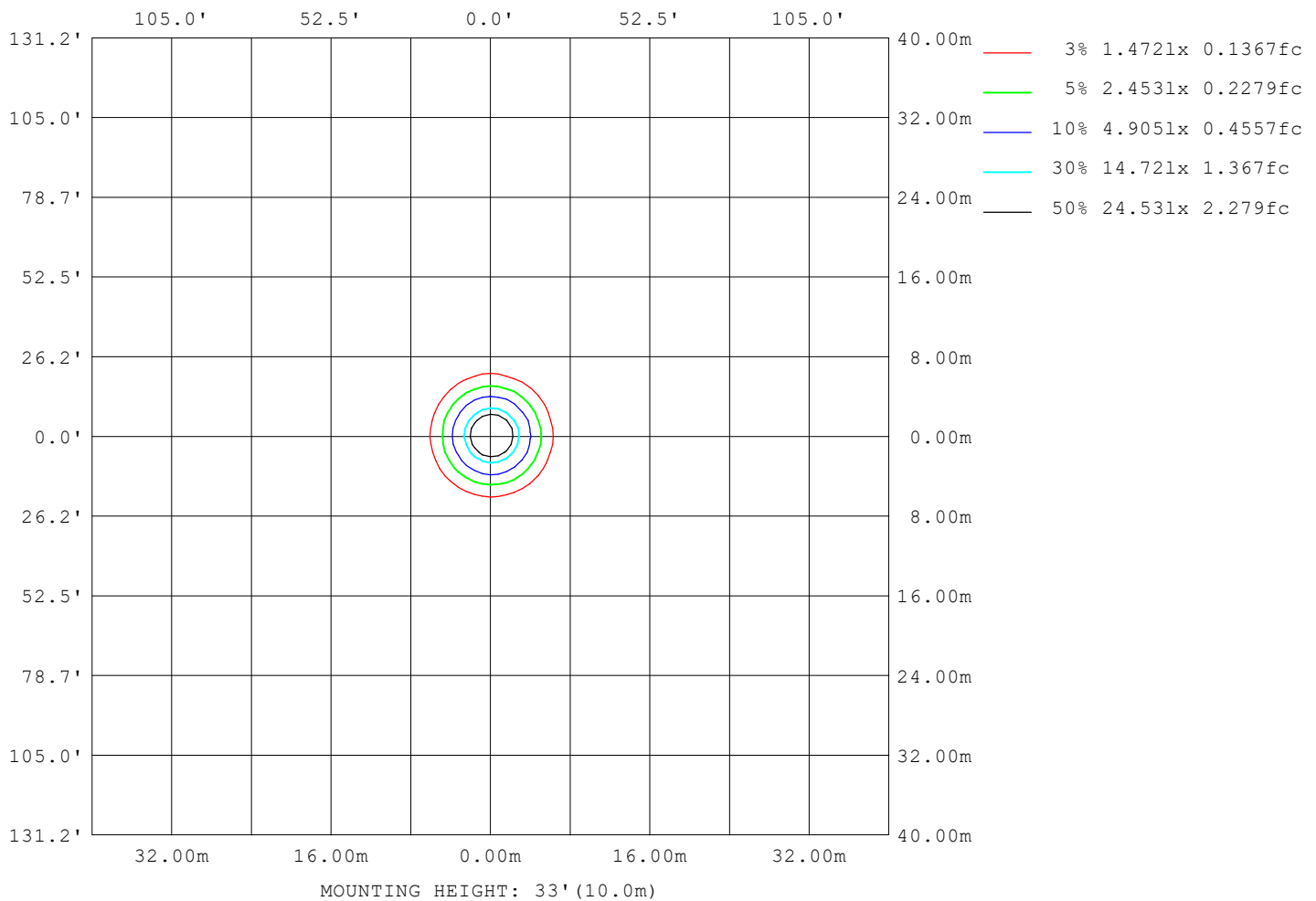


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 01 September 2022

γ Range: 0 - 90DEG  
 γ Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.265m [K=1.0000]  
 Remarks:

## ISOLUX DIAGRAM

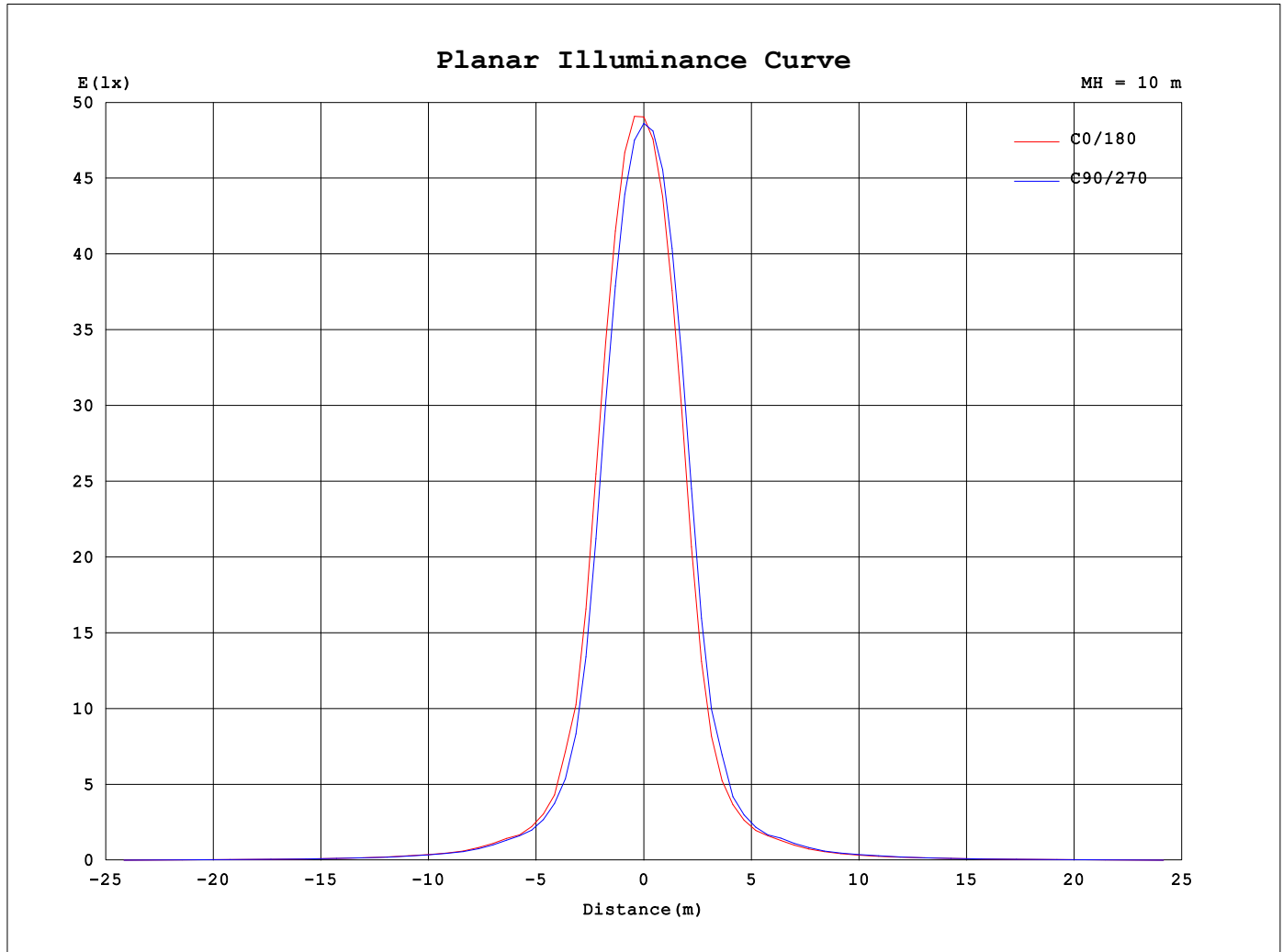
NAME: 96GRF1/244524	TYPE: 96GRF1/244524	WEIGHT: 1
SPEC.:	DIM.: F 250 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 Circle	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
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: 6.265m [K=1.0000]  
Remarks:

## Planar Illuminance Curve

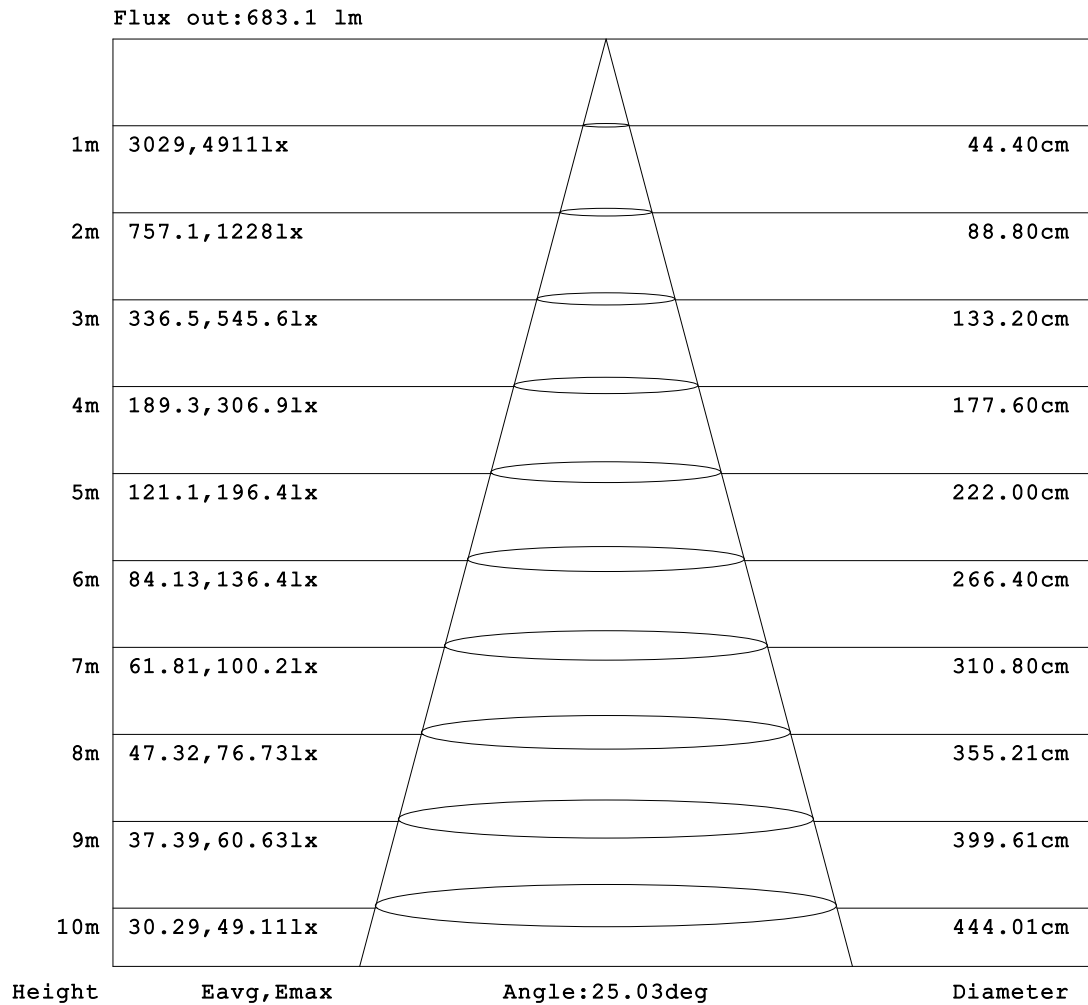


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 01 September 2022

$\gamma$  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: 96GRF1/244524	TYPE: 96GRF1/244524	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: HIGH

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: 6.265m [K=1.0000]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96GRF1/244524	TYPE: 96GRF1/244524	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	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20
-85	0.22	0.23	0.24	0.26	0.28	0.28	0.28	0.32	0.37	0.37	0.38	0.41	0.43	0.45	0.46	0.49	0.52	0.53	0.54
-80	0.22	0.24	0.26	0.30	0.40	0.47	0.55	0.80	1.05	1.26	1.53	1.94	2.28	2.60	2.85	3.10	3.29	3.43	3.49
-75	0.22	0.25	0.29	0.43	0.59	0.99	1.40	2.24	3.03	4.06	5.12	5.97	6.91	7.93	8.79	9.29	9.56	9.91	10.1
-70	0.22	0.26	0.38	0.58	1.14	2.03	3.27	4.93	6.60	8.54	10.4	12.4	14.2	15.9	17.4	18.6	19.5	20.1	20.4
-65	0.22	0.27	0.46	1.00	2.02	3.66	5.93	8.61	11.5	14.4	17.8	20.9	24.0	26.7	29.2	31.0	32.2	33.2	33.8
-60	0.22	0.28	0.55	1.41	3.20	5.82	9.17	13.2	17.5	22.1	26.9	31.0	35.0	38.9	42.2	44.7	46.5	47.8	48.4
-55	0.22	0.32	0.81	2.22	4.80	8.34	13.1	18.7	24.6	30.6	36.4	42.1	47.3	51.8	55.7	58.7	60.8	62.3	63.1
-50	0.22	0.36	1.07	3.01	6.44	11.2	17.4	24.6	31.9	39.5	46.5	53.4	59.3	64.3	69.0	73.2	76.0	78.1	79.2
-45	0.22	0.39	1.31	3.95	8.33	14.2	21.9	30.6	39.7	47.9	56.0	63.5	70.3	77.5	84.5	90.6	95.0	97.9	99.5
-40	0.22	0.42	1.59	4.97	10.2	17.5	26.7	36.6	46.5	56.2	65.1	74.1	84.0	93.6	102	112	120	125	128
-35	0.22	0.45	2.00	5.91	12.1	20.6	31.1	42.3	53.2	63.7	74.0	86.0	98.5	112	128	148	167	178	184
-30	0.22	0.48	2.37	6.89	13.8	23.8	35.2	47.4	59.0	70.0	83.5	97.9	115	141	174	206	230	243	249
-25	0.22	0.50	2.69	7.83	15.6	26.5	38.9	51.7	63.7	76.7	92.7	111	140	183	226	261	299	340	361
-20	0.22	0.52	2.96	8.63	17.2	28.9	42.0	55.2	67.9	83.3	101	126	171	227	271	357	475	592	647
-15	0.22	0.53	3.17	9.27	18.6	30.9	44.5	57.8	71.9	88.9	110	143	203	259	354	549	865	1284	1491
-10	0.22	0.54	3.33	9.75	19.6	32.4	46.5	60.2	75.0	93.1	117	162	226	295	468	859	1681	2644	3157
-5	0.22	0.55	3.44	10.1	20.2	33.4	47.8	61.9	77.3	96.2	122	175	241	332	576	1235	2619	3886	4445
0	0.22	0.55	3.48	10.2	20.5	33.9	48.4	62.6	78.5	97.6	125	182	248	355	634	1458	3109	4430	4905
5	0.22	0.55	3.46	10.1	20.4	33.7	48.2	62.2	77.7	96.8	124	177	243	343	601	1333	2770	4074	4610
10	0.22	0.54	3.38	9.87	20.0	32.9	47.3	61.0	75.7	94.3	119	167	233	309	496	940	1878	2966	3476
15	0.22	0.54	3.24	9.44	19.1	31.7	45.6	59.1	72.8	90.6	112	150	212	267	380	619	1008	1519	1773
20	0.22	0.52	3.04	8.85	18.0	29.9	43.2	56.5	69.3	85.4	104	130	179	235	288	390	534	715	841
25	0.22	0.51	2.78	8.10	16.5	27.7	40.3	52.9	65.3	78.8	94.7	114	146	193	239	275	329	382	401
30	0.22	0.49	2.46	7.19	14.8	25.0	36.8	48.8	60.2	72.1	85.5	101	121	149	187	226	246	254	257
35	0.22	0.46	2.09	6.22	13.0	21.9	32.8	43.9	54.3	64.9	76.2	89.0	102	117	137	162	182	198	203
40	0.22	0.44	1.67	5.29	10.9	18.8	28.2	38.3	48.0	57.7	67.1	76.8	87.2	97.8	109	118	128	135	137
45	0.22	0.41	1.38	4.26	9.06	15.4	23.5	32.2	41.1	50.1	58.6	66.1	73.8	81.9	89.4	95.6	101	105	106
50	0.22	0.37	1.13	3.28	7.16	12.4	18.8	26.0	33.7	41.7	49.4	55.8	62.0	68.0	72.9	77.4	81.5	83.9	84.8
55	0.22	0.34	0.86	2.46	5.41	9.46	14.3	20.1	26.5	32.9	39.3	45.6	50.7	55.3	59.2	62.4	65.3	67.1	67.7
60	0.22	0.30	0.58	1.60	3.64	6.74	10.3	14.5	19.4	24.7	29.6	34.3	39.0	43.2	46.3	49.0	50.9	52.1	52.7
65	0.22	0.29	0.50	1.13	2.40	4.30	6.85	9.83	13.1	16.5	20.3	23.9	27.4	30.3	32.9	35.0	36.7	37.8	38.3
70	0.22	0.27	0.41	0.62	1.38	2.50	3.99	5.90	7.86	10.2	12.4	14.7	17.0	18.9	20.6	22.1	23.2	23.8	24.0
75	0.22	0.26	0.33	0.46	0.63	1.22	1.82	2.90	4.03	5.20	6.49	7.73	8.95	9.92	10.7	11.6	12.2	12.5	12.7
80	0.22	0.25	0.29	0.31	0.40	0.52	0.63	1.00	1.38	1.80	2.28	2.82	3.29	3.71	4.05	4.34	4.55	4.74	4.85
85	0.22	0.23	0.25	0.26	0.27	0.29	0.33	0.36	0.39	0.45	0.50	0.53	0.55	0.62	0.68	0.73	0.78	0.82	0.85
90	0.22	0.22	0.22	0.21	0.21	0.21	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

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:6.265m [K=1.0000]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96GRF1/244524	TYPE: 96GRF1/244524	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	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.19	0.19	0.20	0.19	0.19	0.20	0.20	0.20	0.20	0.20	0.20	
-85	0.56	0.58	0.57	0.55	0.55	0.54	0.52	0.49	0.47	0.44	0.39	0.33	0.33	0.32	0.28	0.25	0.23	0.20	
-80	3.46	3.38	3.38	3.29	3.06	2.78	2.49	2.12	1.78	1.47	1.12	0.71	0.62	0.51	0.37	0.30	0.26	0.20	
-75	10.2	10.1	9.76	9.32	8.75	8.00	7.22	6.31	5.21	4.22	3.30	2.24	1.53	0.81	0.59	0.37	0.29	0.20	
-70	20.4	20.0	19.6	18.7	17.3	15.8	14.0	12.1	10.3	8.27	6.64	4.85	3.16	1.82	0.83	0.51	0.32	0.20	
-65	33.8	33.2	32.2	30.7	28.5	26.0	23.1	20.0	16.6	13.7	10.8	8.03	5.37	3.16	1.56	0.66	0.35	0.20	
-60	48.4	47.7	46.3	44.2	41.3	37.8	33.9	29.4	24.8	20.3	15.8	11.7	8.12	4.78	2.26	0.80	0.37	0.20	
-55	62.9	61.9	60.1	57.4	53.8	49.7	45.1	39.5	33.5	27.7	21.9	16.0	11.0	6.86	3.42	1.23	0.44	0.20	
-50	78.9	77.5	74.7	70.7	66.4	61.5	55.7	49.7	42.8	35.4	28.1	20.8	14.2	8.90	4.54	1.65	0.50	0.20	
-45	98.5	96.6	93.2	87.3	80.7	73.8	66.5	59.2	51.6	43.4	34.6	25.9	17.6	11.0	5.78	2.04	0.56	0.20	
-40	126	122	115	106	97.3	88.1	78.2	68.4	59.8	50.6	40.9	30.9	21.3	13.1	7.04	2.46	0.61	0.20	
-35	181	171	154	134	117	103	90.8	78.9	67.5	57.2	46.8	35.7	24.8	15.4	8.17	3.03	0.66	0.20	
-30	245	235	217	185	152	122	104	89.4	75.4	63.4	51.9	40.1	28.2	17.5	9.29	3.53	0.70	0.20	
-25	351	315	272	240	196	153	119	99.2	83.4	69.1	56.5	44.0	31.1	19.5	10.3	3.96	0.74	0.20	
-20	618	509	391	293	241	189	139	109	90.3	74.1	60.4	47.3	33.6	21.2	11.2	4.31	0.77	0.20	
-15	1382	980	651	402	280	224	163	118	96.5	78.8	63.5	49.9	35.7	22.5	11.9	4.59	0.79	0.20	
-10	2868	1975	1047	551	338	246	184	129	102	82.5	65.8	51.8	37.2	23.5	12.4	4.78	0.81	0.20	
-5	4171	3077	1592	727	392	258	198	135	104	84.7	67.3	52.9	38.2	24.1	12.7	4.90	0.82	0.20	
0	4725	3577	1840	865	410	259	202	138	105	85.5	68.0	53.3	38.6	24.3	12.8	4.93	0.82	0.20	
5	4326	3229	1754	784	395	257	199	136	104	84.8	67.7	52.9	38.4	24.2	12.8	4.89	0.82	0.20	
10	3195	2255	1158	579	346	250	187	130	101	82.7	66.4	51.9	37.5	23.7	12.5	4.78	0.82	0.20	
15	1649	1145	708	422	286	231	168	120	97.4	79.5	64.2	50.1	36.1	22.7	12.0	4.59	0.80	0.20	
20	745	569	421	310	249	198	143	111	92.6	75.4	61.2	47.8	34.1	21.4	11.4	4.32	0.78	0.20	
25	387	342	287	250	209	162	123	102	86.0	70.5	57.7	44.9	31.6	19.7	10.5	3.98	0.75	0.20	
30	256	247	231	197	161	129	108	92.4	78.0	65.1	53.5	41.1	28.9	17.7	9.44	3.58	0.72	0.20	
35	198	186	168	144	123	108	95.4	82.4	70.2	59.3	48.5	36.8	25.7	15.9	8.27	3.10	0.68	0.20	
40	136	131	122	113	103	93.1	82.7	72.3	62.5	52.6	42.6	32.1	22.3	13.7	7.10	2.57	0.63	0.20	
45	106	103	98.6	93.3	86.6	78.2	70.3	62.5	54.0	45.6	36.4	27.3	18.5	11.5	5.81	2.16	0.58	0.20	
50	84.9	83.3	80.2	76.1	71.2	65.4	59.4	52.7	45.7	37.9	29.8	22.1	15.1	9.16	4.59	1.76	0.53	0.20	
55	67.4	66.3	64.5	61.7	58.1	53.6	48.7	42.9	36.8	30.0	23.4	17.2	11.7	7.05	3.56	1.33	0.46	0.20	
60	53.0	52.4	50.7	48.4	45.4	41.6	37.1	32.5	27.7	22.4	17.3	12.6	8.49	4.96	2.49	0.88	0.40	0.20	
65	38.4	37.8	36.7	35.0	32.3	29.5	26.4	22.9	19.0	15.5	12.0	8.65	5.67	3.43	1.75	0.73	0.37	0.20	
70	24.3	24.3	23.5	22.3	20.6	18.7	16.7	14.5	12.2	9.83	7.50	5.23	3.48	2.10	0.97	0.58	0.34	0.20	
75	12.8	12.7	12.4	12.0	11.2	10.2	8.97	7.80	6.52	5.16	3.88	2.58	1.81	1.01	0.68	0.42	0.31	0.20	
80	5.01	5.09	4.97	4.78	4.51	4.14	3.63	3.03	2.52	2.03	1.47	0.94	0.78	0.59	0.41	0.34	0.27	0.20	
85	0.90	0.93	0.92	0.89	0.87	0.85	0.79	0.73	0.65	0.57	0.49	0.41	0.37	0.33	0.30	0.28	0.24	0.20	
90	0.20	0.20	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.21	0.21	0.21	0.20	0.21	0.21	0.21	0.20	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

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:6.265m [K=1.0000]

Remarks: