

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	5034.2 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	43.4V x 43.4H
	At 50% of Imax	17.3V x 17.4H
	At 90% of Imax	6.5V x 6.6H

Beam Flux	Total	973.2 lumens per klm.
	To 10% of Imax	632.6 lumens per klm.
	To 50% of Imax	263.9 lumens per klm.
	To 90% of Imax	29.2 lumens per klm.

Upward LOR	0.0 %
Downward LOR	97.3 %

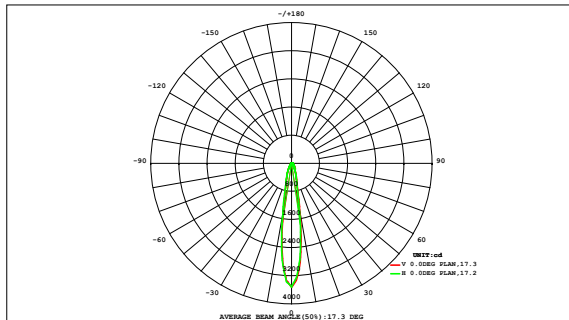
Luminaire Efficiency (Light Output Ratio)	96.8 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

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: 96GRF1/915220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 150 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 9 Circle	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	96GRF1/915220W	Imax (cd)	3524
NOMINAL POWER (W)	9	AVAILABILITY (%)	62.2
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	435.3
NOMINAL FLUX (lm)	700	LOR (%)	96.8
LAMPS INSIDE	1	TOTAL FLUX (lm)	677.8
TEST VOLTAGE (V)	230	θ @50% (H,V)	17,17DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
90	0.00	0.00	0.00	0.02	0.03	0.06	0.08	0.10	0.12	0.13	0.11	0.09	0.06	0.03	0.02	0.00	0.00	0.00	0.86	0.00
80	0.00	0.00	0.02	0.06	0.12	0.19	0.26	0.32	0.36	0.36	0.34	0.30	0.22	0.13	0.06	0.02	0.00	0.00	2.75	0.00
70	0.00	0.01	0.04	0.12	0.23	0.37	0.53	0.69	0.77	0.77	0.70	0.60	0.45	0.26	0.13	0.04	0.01	0.00	5.73	0.00
60	0.00	0.01	0.08	0.20	0.39	0.65	0.99	1.32	1.53	1.52	1.34	1.05	0.72	0.41	0.20	0.07	0.01	0.00	10.5	0.00
50	0.00	0.02	0.11	0.29	0.58	1.02	1.71	2.64	3.40	3.40	2.64	1.73	1.08	0.57	0.26	0.10	0.02	0.00	19.6	0.00
40	0.00	0.03	0.14	0.37	0.79	1.54	3.19	5.79	8.19	8.22	5.78	3.16	1.56	0.76	0.33	0.12	0.02	0.00	40.0	3.48
30	0.00	0.03	0.16	0.44	0.97	2.19	5.36	11.3	20.2	20.3	11.4	5.33	2.20	0.94	0.40	0.14	0.03	0.00	81.4	56.0
20	0.00	0.03	0.17	0.46	1.08	2.68	7.16	18.5	63.6	64.2	19.0	7.17	2.67	1.07	0.44	0.15	0.03	0.00	188	168
10	0.00	0.03	0.16	0.45	1.06	2.65	6.99	17.8	59.9	60.8	18.5	7.12	2.68	1.08	0.44	0.15	0.03	0.00	180	159
0	0.00	0.03	0.15	0.40	0.92	2.11	5.03	10.5	18.0	18.4	10.8	5.12	2.16	0.97	0.40	0.14	0.03	0.00	75.1	48.4
-10	0.00	0.03	0.13	0.32	0.73	1.49	2.94	5.22	7.28	7.30	5.24	2.98	1.53	0.77	0.33	0.12	0.02	0.00	36.4	1.11
-20	0.00	0.02	0.10	0.25	0.53	1.00	1.65	2.44	3.05	3.05	2.45	1.69	1.04	0.55	0.25	0.09	0.02	0.00	18.2	0.00
-30	0.00	0.01	0.07	0.17	0.34	0.61	0.97	1.28	1.47	1.52	1.37	1.04	0.66	0.37	0.18	0.07	0.01	0.00	10.1	0.00
-40	0.00	0.01	0.04	0.10	0.20	0.33	0.50	0.65	0.75	0.79	0.75	0.60	0.40	0.23	0.11	0.04	0.01	0.00	5.52	0.00
-50	0.00	0.00	0.02	0.05	0.09	0.16	0.24	0.31	0.35	0.38	0.37	0.30	0.20	0.11	0.05	0.02	0.00	0.00	2.66	0.00
-60	0.00	0.00	0.00	0.01	0.02	0.04	0.07	0.09	0.11	0.11	0.11	0.08	0.05	0.03	0.01	0.00	0.00	0.00	0.76	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	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
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.01	0.27	1.38	3.71	8.07	17.1	37.7	79.0	189	191	80.8	38.4	17.7	8.31	3.63	1.27	0.25	0.01	678	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	1.99	49.8	164	166	51.7	2.22	0.00	0.00	0.00	0.00	0.00	0.00	---	435

one-half-peak spread: U:8.3,D:9.1 , L:8.7,R:8.8

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

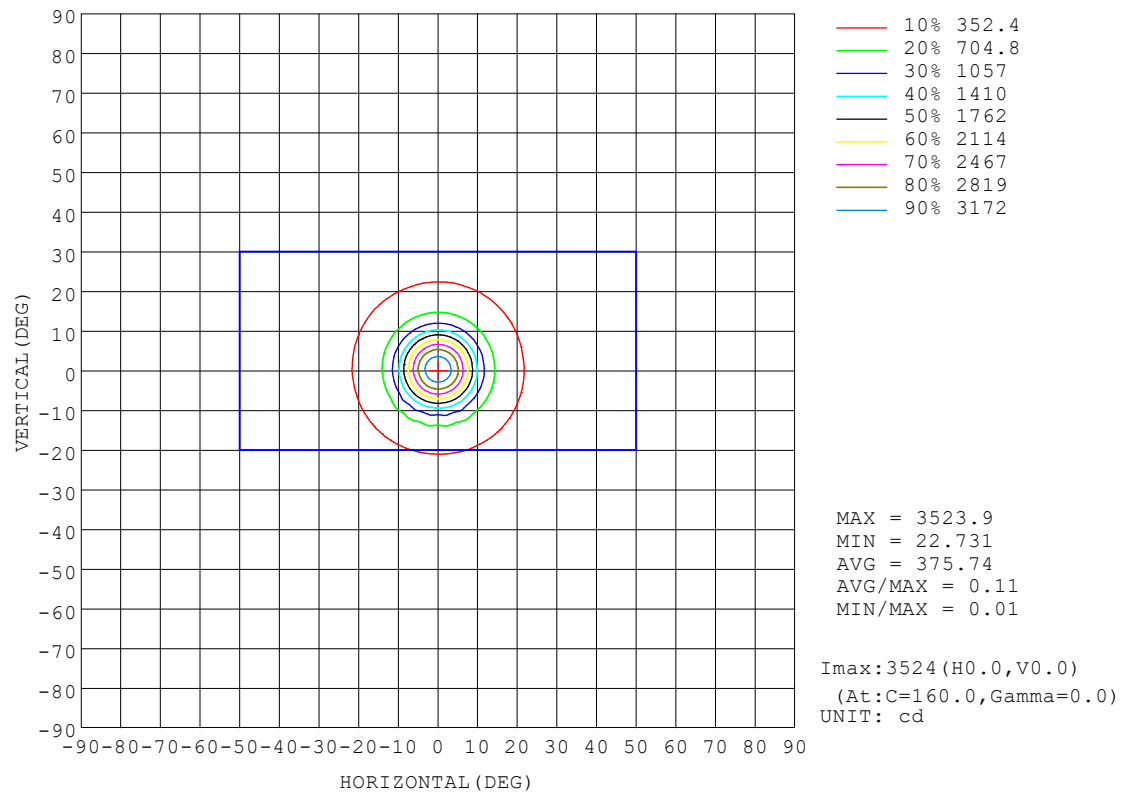
Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

NAME: 96GRF1/915220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 150 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 9 Circle	Shielding Angle:

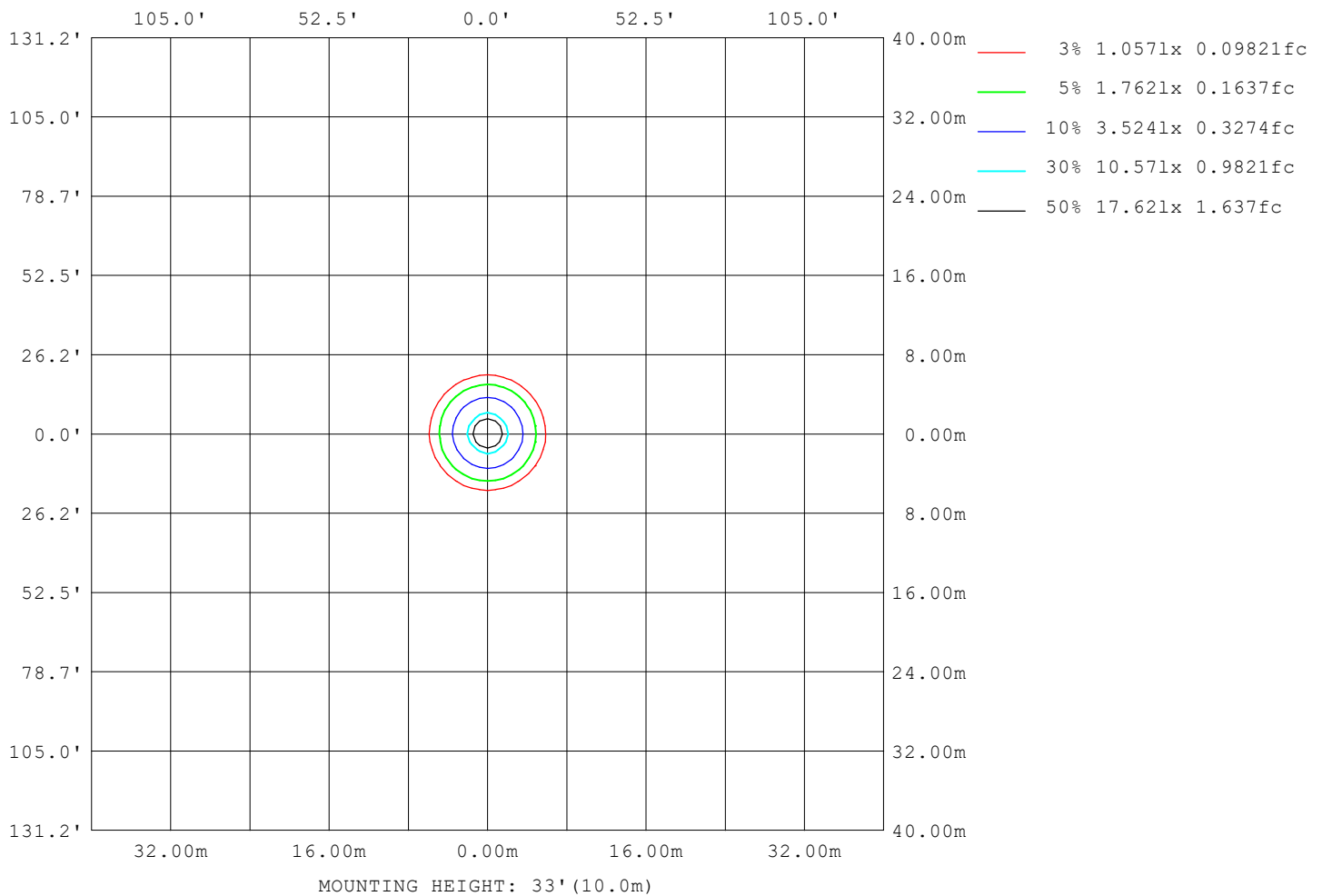


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
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Test Date: 01 September 2022

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:

ISOLUX DIAGRAM

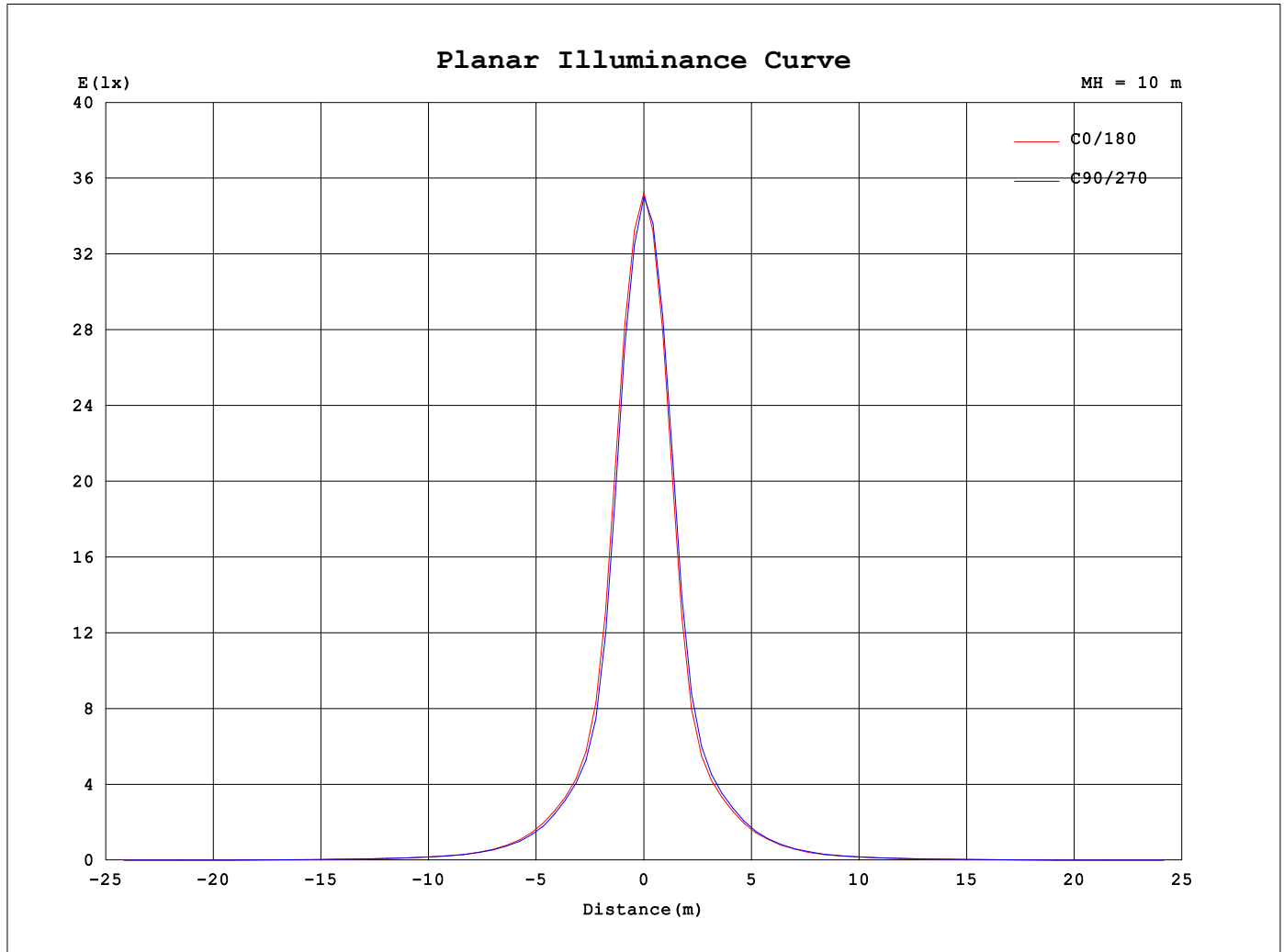
NAME: 96GRF1/915220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 150 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 9 Circle	Shielding Angle:



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:

Planar Illuminance Curve

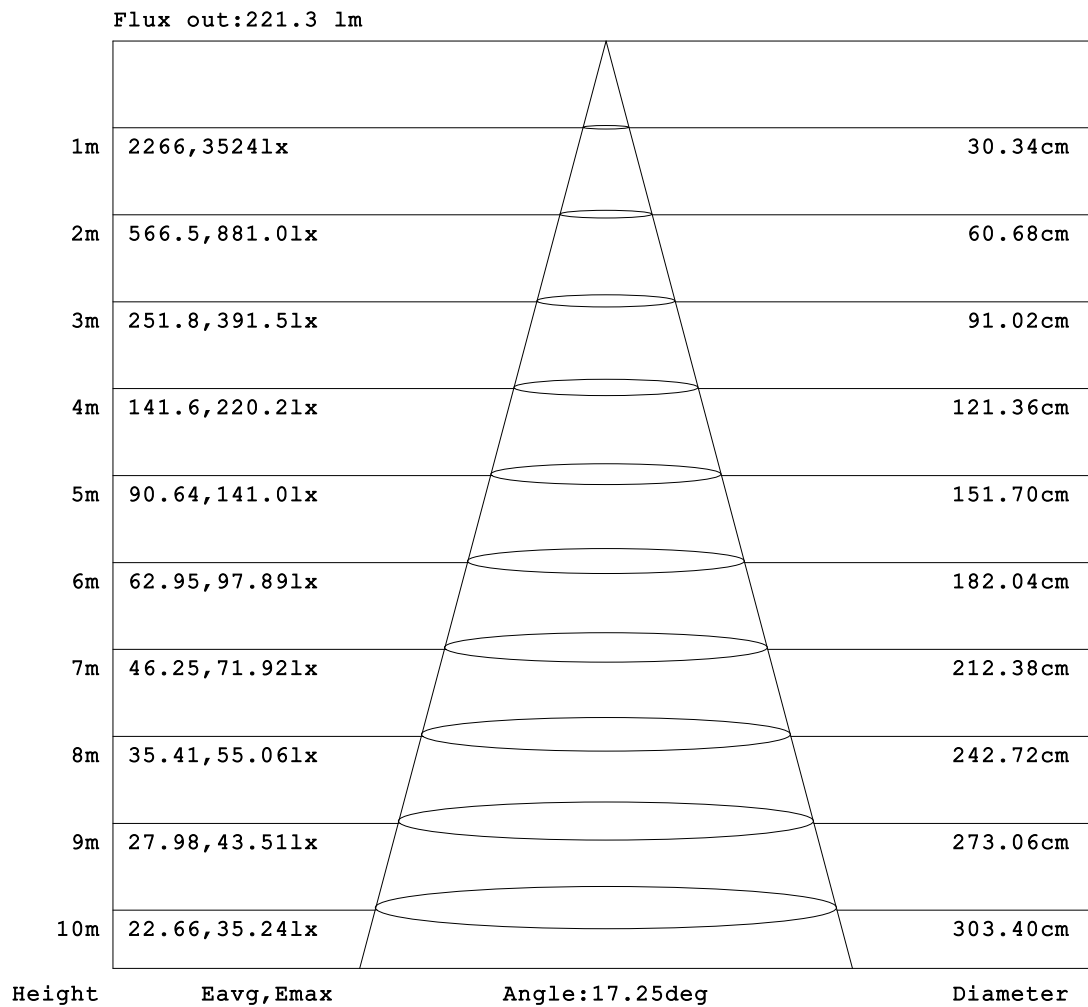


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 01 September 2022

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: 96GRF1/915220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 150 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 9 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: 96GRF1/915220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 150 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 9 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	0.06	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
-85	0.06	0.04	0.04	0.04	0.05	0.04	0.03	0.04	0.05	0.05	0.05	0.06	0.07	0.06	0.05	0.06	0.08	0.07	0.05
-80	0.06	0.05	0.04	0.06	0.09	0.11	0.11	0.18	0.25	0.28	0.30	0.42	0.53	0.60	0.64	0.72	0.79	0.84	0.87
-75	0.06	0.05	0.05	0.11	0.17	0.27	0.36	0.59	0.79	1.04	1.34	1.67	2.00	2.35	2.69	2.96	3.19	3.35	3.45
-70	0.06	0.05	0.09	0.16	0.33	0.60	0.93	1.44	1.90	2.39	2.84	3.55	4.29	5.04	5.74	6.27	6.68	7.08	7.38
-65	0.06	0.06	0.12	0.28	0.63	1.17	1.88	2.64	3.41	4.26	5.24	6.29	7.44	8.52	9.49	10.3	11.0	11.6	12.0
-60	0.06	0.06	0.14	0.40	1.05	1.96	2.98	4.16	5.36	6.61	7.99	9.47	11.1	12.5	13.9	15.1	16.0	16.8	17.4
-55	0.06	0.07	0.22	0.69	1.63	2.87	4.33	5.88	7.52	9.21	11.2	13.2	15.4	17.6	19.7	21.7	23.3	24.3	25.0
-50	0.06	0.08	0.30	0.97	2.23	3.89	5.79	7.78	9.89	12.1	14.7	17.7	21.3	25.4	29.3	31.7	33.4	34.7	35.6
-45	0.06	0.09	0.37	1.31	2.96	5.03	7.30	9.75	12.3	15.2	18.9	24.0	29.9	34.9	39.4	43.1	46.0	48.0	49.4
-40	0.06	0.10	0.46	1.68	3.69	6.20	8.83	11.7	14.9	19.1	25.1	31.8	38.4	45.6	52.5	58.0	62.7	65.6	67.4
-35	0.06	0.11	0.61	2.00	4.52	7.32	10.4	13.8	17.9	24.0	31.5	39.1	49.1	58.9	68.7	79.9	91.6	98.6	101
-30	0.06	0.12	0.74	2.39	5.28	8.43	11.9	15.9	21.3	28.9	37.5	48.8	61.1	76.0	96.7	118	137	149	154
-25	0.06	0.12	0.86	2.78	5.96	9.44	13.4	18.2	24.5	33.1	44.6	58.5	76.4	104	138	174	208	235	244
-20	0.06	0.13	0.96	3.11	6.55	10.4	14.8	20.2	27.5	37.7	51.5	68.7	98.7	139	191	253	318	365	383
-15	0.06	0.13	1.03	3.37	7.04	11.1	16.1	22.1	30.1	41.9	57.4	80.7	121	179	256	354	450	546	587
-10	0.06	0.13	1.09	3.58	7.42	11.8	17.1	23.7	32.5	45.4	62.9	93.9	143	216	325	454	687	1074	1255
-5	0.06	0.13	1.13	3.71	7.69	12.2	17.9	24.8	34.4	48.2	66.6	103	163	246	376	555	1075	2131	2746
0	0.06	0.13	1.14	3.76	7.83	12.5	18.3	25.6	35.5	49.7	67.9	107	171	261	399	612	1346	2827	3524
5	0.06	0.13	1.13	3.70	7.83	12.5	18.4	25.8	35.5	49.2	67.0	104	162	254	386	582	1152	2301	2907
10	0.06	0.13	1.10	3.56	7.69	12.4	18.2	25.5	34.8	47.3	64.1	95.8	150	227	341	484	741	1203	1460
15	0.06	0.13	1.04	3.35	7.41	12.0	17.7	24.6	33.1	44.2	59.5	83.4	127	190	276	382	496	617	669
20	0.06	0.13	0.96	3.08	6.98	11.4	16.7	22.8	30.8	40.5	53.5	71.1	105	149	209	277	349	405	425
25	0.06	0.12	0.86	2.74	6.40	10.5	15.3	20.9	28.1	35.7	46.5	59.9	80.8	114	151	193	234	267	279
30	0.06	0.12	0.74	2.35	5.66	9.45	13.7	18.7	24.6	31.0	39.2	49.5	62.6	81.8	107	132	154	170	176
35	0.06	0.11	0.60	1.97	4.76	8.29	12.0	16.3	21.0	26.6	32.6	40.2	49.3	60.5	72.6	86.2	100	110	113
40	0.06	0.11	0.44	1.66	3.79	7.03	10.2	13.8	17.6	21.9	27.0	32.4	38.8	46.1	53.3	59.6	65.4	69.3	71.1
45	0.06	0.10	0.35	1.33	3.02	5.68	8.49	11.3	14.4	17.6	21.2	26.0	30.6	35.6	40.4	44.4	47.9	49.8	49.8
50	0.06	0.09	0.28	1.00	2.24	4.33	6.74	9.08	11.5	14.0	16.6	19.6	23.2	27.0	30.2	32.9	34.8	35.8	35.8
55	0.06	0.08	0.22	0.69	1.67	3.11	5.02	6.96	8.87	10.8	12.8	14.8	16.7	18.8	20.8	22.9	24.6	25.3	25.4
60	0.06	0.07	0.15	0.38	1.13	2.07	3.43	4.96	6.43	7.89	9.39	10.8	12.2	13.4	14.6	15.8	16.6	17.1	17.1
65	0.06	0.07	0.13	0.26	0.66	1.31	2.12	3.17	4.22	5.26	6.30	7.31	8.35	9.25	10.1	10.7	11.3	11.7	11.9
70	0.06	0.07	0.11	0.14	0.32	0.69	1.15	1.76	2.38	3.09	3.72	4.38	4.95	5.55	6.14	6.67	7.08	7.36	7.52
75	0.06	0.06	0.08	0.10	0.11	0.30	0.49	0.78	1.09	1.43	1.81	2.14	2.45	2.78	3.06	3.35	3.62	3.83	3.99
80	0.06	0.06	0.07	0.06	0.06	0.11	0.18	0.25	0.31	0.40	0.51	0.65	0.78	0.90	1.01	1.08	1.13	1.18	1.21
85	0.06	0.06	0.06	0.05	0.03	0.04	0.06	0.06	0.06	0.08	0.09	0.09	0.08	0.10	0.12	0.11	0.09	0.11	0.13
90	0.06	0.05	0.05	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

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: 96GRF1/915220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 150 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 9 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	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.05	0.05	
-85	0.06	0.07	0.06	0.05	0.06	0.07	0.06	0.06	0.06	0.06	0.04	0.03	0.04	0.05	0.05	0.05	0.05	0.05	
-80	0.89	0.88	0.86	0.80	0.73	0.63	0.50	0.37	0.30	0.26	0.19	0.12	0.11	0.10	0.06	0.05	0.06	0.05	
-75	3.48	3.42	3.19	2.92	2.66	2.29	1.94	1.63	1.26	0.93	0.63	0.36	0.29	0.17	0.11	0.06	0.06	0.05	
-70	7.63	7.74	7.69	7.31	6.46	5.56	4.61	3.66	2.91	2.21	1.58	0.95	0.62	0.38	0.17	0.09	0.07	0.05	
-65	12.3	12.5	12.6	12.1	11.0	9.59	8.06	6.57	5.11	3.90	2.86	1.94	1.12	0.65	0.32	0.12	0.07	0.05	
-60	18.0	18.3	18.4	17.6	16.0	14.0	11.8	9.77	7.75	6.05	4.46	3.05	1.89	0.99	0.47	0.15	0.08	0.05	
-55	25.6	25.7	25.4	23.8	21.6	18.8	15.9	13.1	10.6	8.50	6.39	4.42	2.79	1.54	0.73	0.25	0.09	0.05	
-50	36.2	36.1	35.1	32.3	28.7	24.4	20.4	16.7	13.6	11.0	8.43	5.94	3.79	2.10	0.98	0.34	0.10	0.05	
-45	49.9	48.9	46.7	42.9	37.6	31.6	26.0	20.7	16.8	13.4	10.4	7.48	4.82	2.71	1.29	0.42	0.11	0.05	
-40	66.3	63.8	59.6	54.6	48.1	40.6	33.0	26.4	20.7	16.1	12.3	8.95	5.96	3.28	1.62	0.51	0.12	0.05	
-35	98.3	90.8	79.8	69.9	60.5	50.5	41.3	32.6	25.4	19.1	14.3	10.4	7.03	3.96	1.93	0.64	0.13	0.05	
-30	149	137	119	97.9	78.0	62.4	49.9	39.4	30.2	22.6	16.2	11.7	7.99	4.55	2.24	0.76	0.14	0.05	
-25	235	208	173	139	106	78.4	59.8	46.4	35.2	26.1	18.3	12.9	8.81	5.21	2.53	0.87	0.15	0.05	
-20	369	322	256	192	140	101	70.8	53.4	40.2	29.2	20.1	14.0	9.58	5.79	2.78	0.96	0.15	0.05	
-15	558	464	363	261	181	123	82.8	59.5	44.3	32.1	22.2	15.0	10.2	6.25	2.99	1.03	0.16	0.05	
-10	1103	696	471	333	221	146	95.3	64.6	47.6	34.2	23.7	15.8	10.7	6.57	3.16	1.08	0.16	0.05	
-5	2172	1120	585	384	253	165	104	67.8	49.3	35.4	24.7	16.2	11.0	6.76	3.27	1.11	0.16	0.05	
0	2859	1385	638	403	265	167	106	68.8	49.7	35.8	25.1	16.4	11.1	6.83	3.33	1.12	0.16	0.05	
5	2329	1181	597	387	254	161	104	67.5	48.5	34.9	24.7	16.3	11.1	6.84	3.34	1.10	0.16	0.05	
10	1219	757	488	341	228	148	96.6	64.0	46.0	33.2	23.7	15.9	10.9	6.74	3.29	1.06	0.16	0.05	
15	623	499	382	274	188	126	85.0	58.7	43.0	31.1	22.2	15.2	10.5	6.51	3.18	1.00	0.15	0.05	
20	408	352	278	206	147	104	72.0	52.6	38.9	28.6	20.3	14.3	10.0	6.15	3.00	0.92	0.15	0.05	
25	268	234	192	149	112	81.6	61.0	46.3	34.4	25.7	18.5	13.3	9.37	5.68	2.77	0.81	0.14	0.05	
30	170	154	132	106	80.8	64.2	51.1	39.9	30.4	22.7	16.4	12.2	8.55	5.11	2.48	0.68	0.14	0.05	
35	110	101	85.8	71.9	61.3	51.7	43.0	34.1	26.1	19.9	14.7	11.0	7.60	4.50	2.14	0.54	0.13	0.05	
40	69.5	66.0	60.7	55.1	48.5	42.1	35.5	28.5	22.3	17.1	13.0	9.63	6.57	3.79	1.75	0.37	0.12	0.05	
45	49.4	47.6	44.8	41.8	37.8	33.8	28.6	23.6	18.7	14.5	11.2	8.22	5.44	3.14	1.31	0.28	0.11	0.05	
50	35.5	34.4	32.8	31.3	29.0	26.2	23.0	19.1	15.4	12.0	9.27	6.68	4.32	2.46	0.91	0.23	0.10	0.05	
55	25.0	24.2	23.5	22.5	21.4	19.9	18.0	15.0	12.1	9.59	7.27	5.08	3.25	1.77	0.61	0.18	0.09	0.05	
60	17.1	16.9	16.6	16.2	15.6	14.5	13.2	11.1	9.04	7.04	5.19	3.55	2.24	1.09	0.30	0.13	0.08	0.05	
65	11.8	11.7	11.5	11.2	10.6	9.90	8.94	7.55	5.93	4.53	3.30	2.22	1.33	0.64	0.23	0.11	0.08	0.05	
70	7.55	7.46	7.32	7.04	6.61	5.96	5.09	4.03	3.22	2.39	1.80	1.17	0.70	0.32	0.14	0.09	0.07	0.05	
75	3.98	3.90	3.73	3.46	3.04	2.53	2.08	1.78	1.46	1.13	0.83	0.53	0.32	0.16	0.10	0.07	0.07	0.05	
80	1.23	1.22	1.13	1.02	0.92	0.80	0.68	0.55	0.46	0.37	0.27	0.19	0.13	0.07	0.06	0.06	0.06	0.05	
85	0.12	0.10	0.11	0.12	0.10	0.08	0.09	0.09	0.07	0.05	0.06	0.06	0.04	0.03	0.05	0.06	0.05	0.05	
90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.05	0.05	

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: