

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	2975.7 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	46.5V x 46.8H
	At 50% of Imax	24.5V x 24.7H
	At 90% of Imax	11.3V x 11.7H

Beam Flux	Total	880.4 lumens per klm.
	To 10% of Imax	563.4 lumens per klm.
	To 50% of Imax	331.0 lumens per klm.
	To 90% of Imax	90.5 lumens per klm.

Upward LOR	0.0 %
Downward LOR	88.0 %

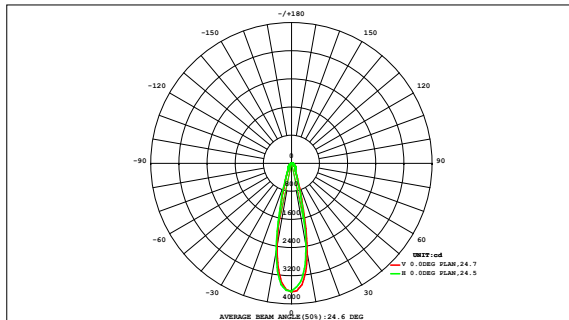
Luminaire Efficiency (Light Output Ratio)	87.8 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

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: 96GRF1/1830220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 200 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 Circle	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	96GRF1/1830220W	Imax (cd)	3660
NOMINAL POWER (W)	18	AVAILABILITY (%)	56.4
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	693.6
NOMINAL FLUX (lm)	1230	LOR (%)	87.8
LAMPS INSIDE	1	TOTAL FLUX (lm)	1079
TEST VOLTAGE (V)	230	θ @50% (H,V)	25,24DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.16	0.00
90	0.00	0.00	0.01	0.04	0.09	0.14	0.20	0.25	0.27	0.27	0.24	0.19	0.14	0.08	0.03	0.01	0.00	0.00	1.97	0.00
80	0.00	0.01	0.05	0.14	0.27	0.42	0.57	0.69	0.78	0.77	0.70	0.56	0.40	0.26	0.13	0.04	0.01	0.00	5.79	0.00
70	0.00	0.02	0.10	0.27	0.51	0.85	1.27	1.66	1.94	1.94	1.65	1.22	0.81	0.50	0.26	0.09	0.01	0.00	13.1	0.00
60	0.00	0.03	0.16	0.42	0.89	1.73	2.71	3.46	3.90	3.92	3.45	2.59	1.58	0.84	0.40	0.15	0.03	0.00	26.3	0.00
50	0.00	0.05	0.22	0.59	1.49	2.89	4.10	4.95	5.49	5.51	4.86	3.92	2.70	1.37	0.57	0.21	0.04	0.00	39.0	0.00
40	0.00	0.06	0.26	0.80	2.11	3.69	5.16	7.04	9.64	9.51	6.83	4.90	3.52	2.00	0.77	0.26	0.06	0.00	56.6	8.40
30	0.00	0.07	0.30	0.99	2.54	4.17	6.58	16.0	35.8	34.6	15.1	6.35	4.01	2.46	0.95	0.30	0.06	0.00	130	97.6
20	0.00	0.07	0.32	1.10	2.74	4.47	8.82	35.1	90.0	86.7	31.4	8.29	4.33	2.66	1.06	0.32	0.07	0.00	277	250
10	0.00	0.07	0.32	1.08	2.72	4.47	8.69	34.0	86.5	84.4	30.9	8.21	4.33	2.65	1.05	0.32	0.07	0.00	270	242
0	0.00	0.07	0.30	0.95	2.45	4.11	6.46	15.2	32.7	31.9	14.2	6.25	4.01	2.41	0.93	0.29	0.07	0.00	122	89.4
-10	0.00	0.06	0.26	0.75	1.96	3.52	5.00	6.80	9.03	8.86	6.61	5.00	3.50	1.96	0.75	0.26	0.06	0.00	54.4	5.95
-20	0.00	0.05	0.21	0.55	1.34	2.62	3.89	4.87	5.42	5.38	4.83	3.89	2.65	1.37	0.56	0.21	0.04	0.00	37.9	0.00
-30	0.00	0.03	0.15	0.39	0.81	1.52	2.42	3.22	3.66	3.68	3.28	2.50	1.57	0.83	0.40	0.15	0.03	0.00	24.7	0.00
-40	0.00	0.02	0.10	0.25	0.48	0.77	1.15	1.53	1.79	1.81	1.58	1.19	0.80	0.48	0.25	0.10	0.02	0.00	12.3	0.00
-50	0.00	0.01	0.05	0.13	0.25	0.39	0.53	0.65	0.72	0.74	0.67	0.54	0.40	0.25	0.13	0.04	0.01	0.00	5.51	0.00
-60	0.00	0.00	0.01	0.04	0.08	0.13	0.18	0.22	0.25	0.25	0.23	0.18	0.13	0.07	0.03	0.01	0.00	0.00	1.82	0.00
-70	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.14	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	0.03	0.62	2.84	8.50	20.8	35.9	57.8	136	288	280	127	55.8	34.9	20.2	8.29	2.78	0.58	0.02	1079	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	7.97	96.5	252	244	87.0	5.74	0.00	0.00	0.00	0.00	0.00	0.00	---	694

one-half-peak spread: U:12.0,D:12.6 , L:12.8,R:12.0

NEMA Beam Type: Type 4

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

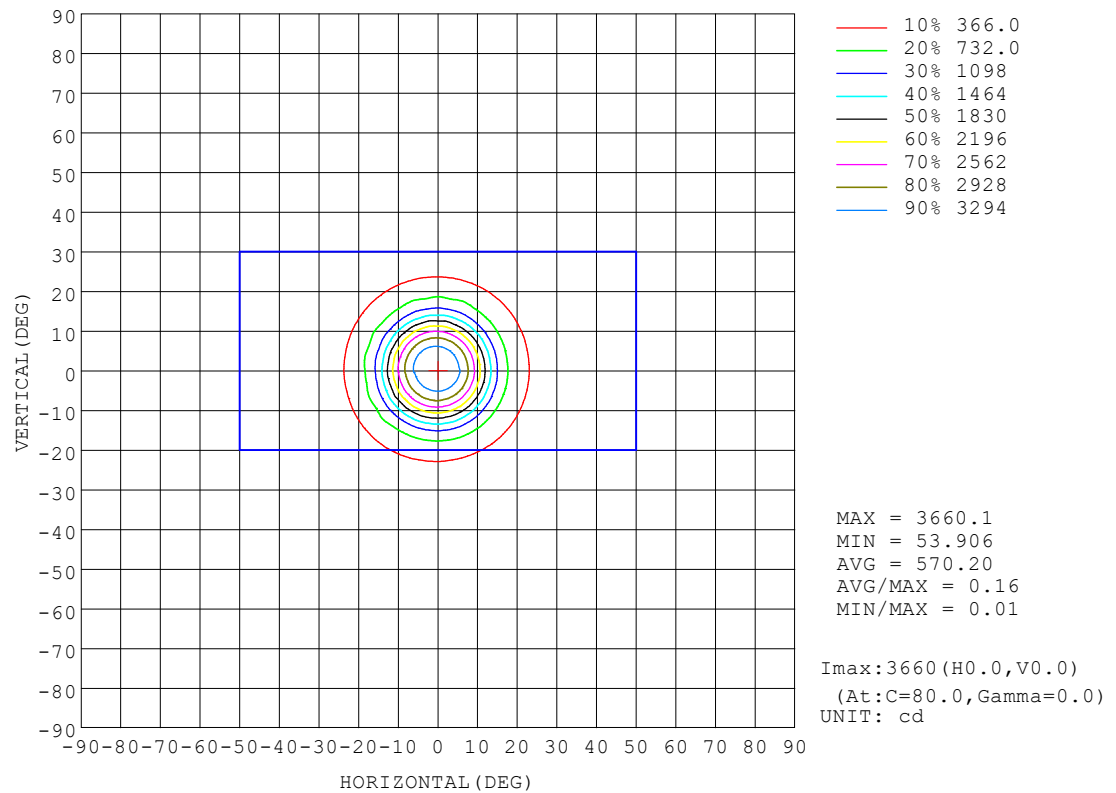
Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

NAME: 96GRF1/1830220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 200 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 Circle	Shielding Angle:

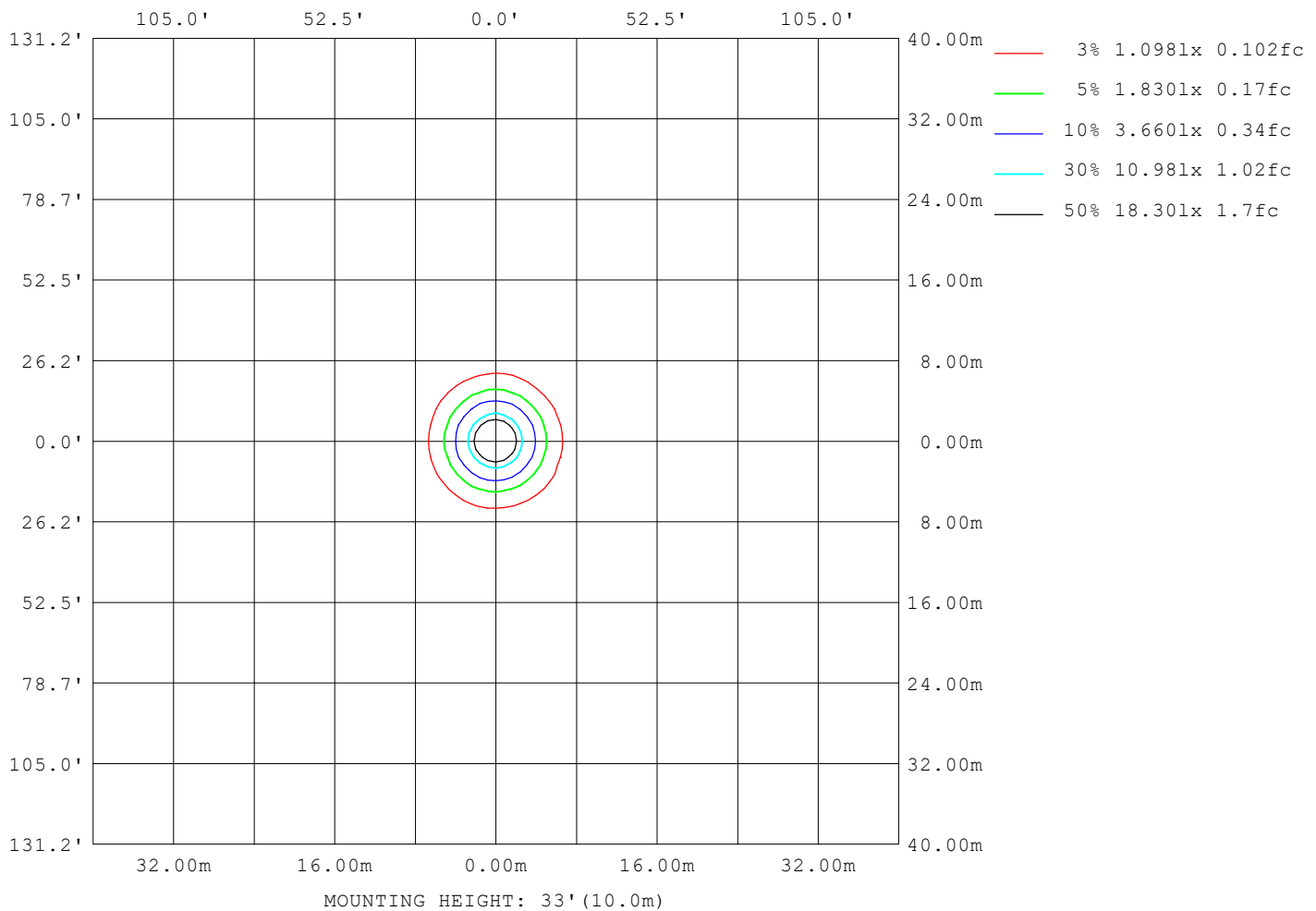


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Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
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Remarks:

ISOLUX DIAGRAM

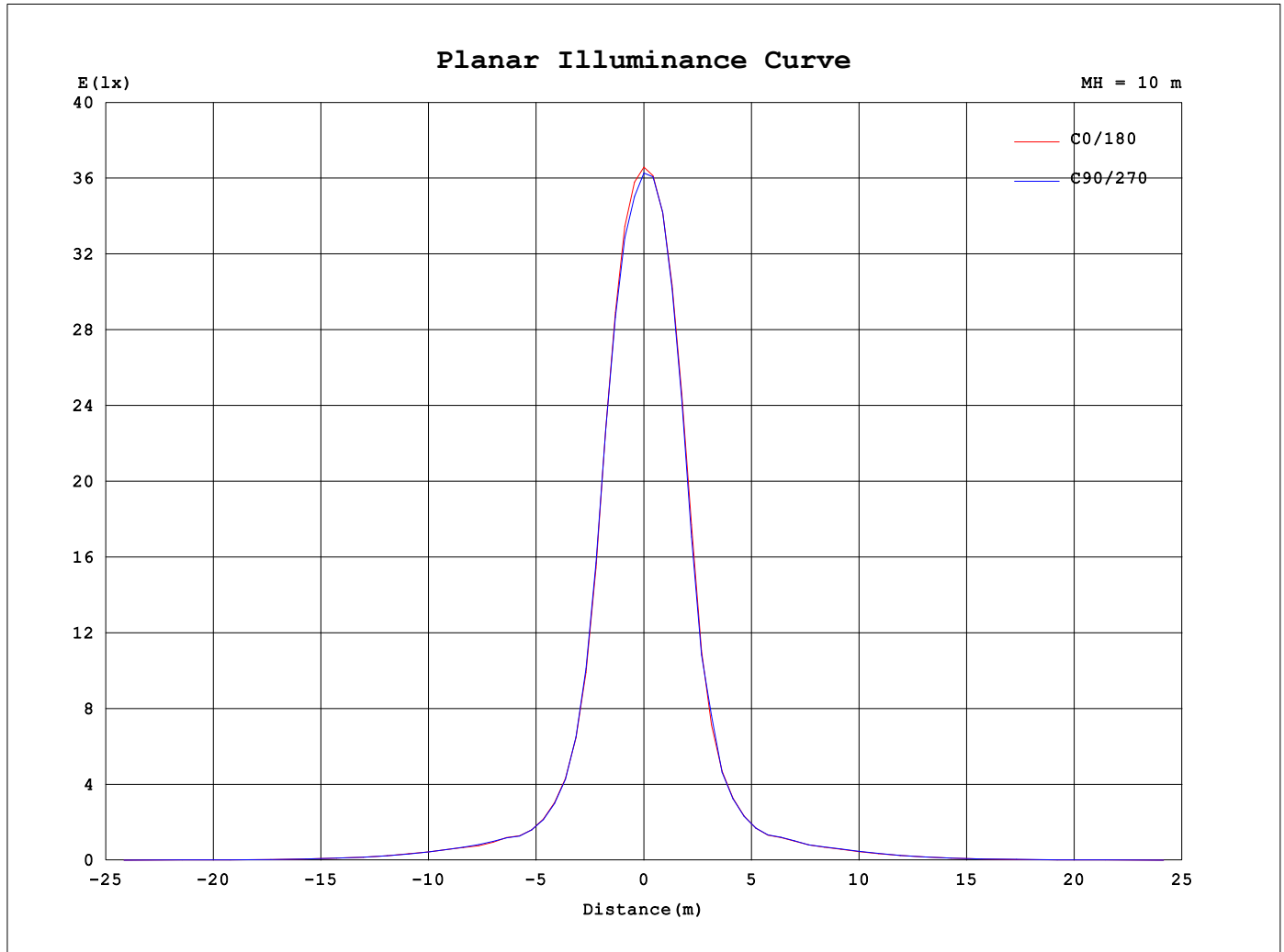
NAME: 96GRF1/1830220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 200 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 Circle	Shielding Angle:



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

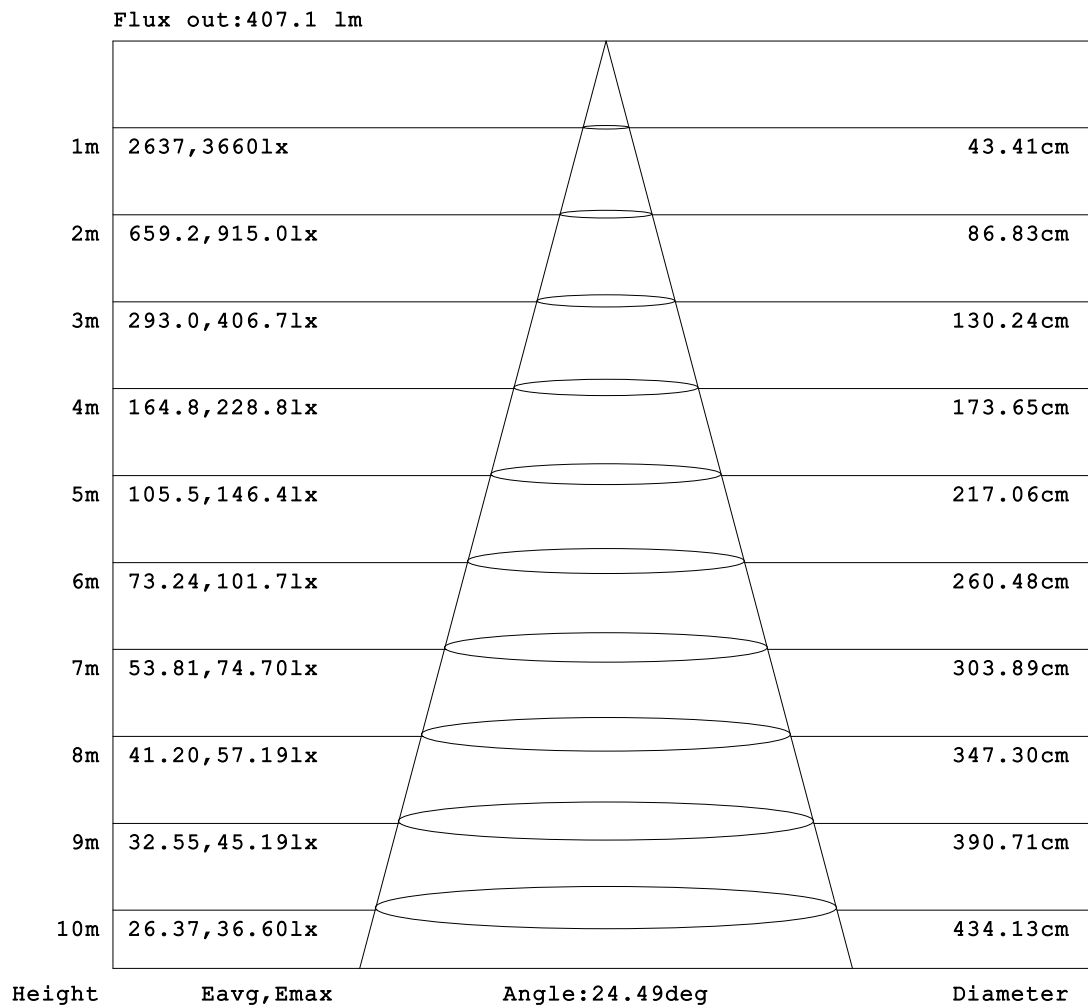


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 01 September 2022

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: 96GRF1/1830220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 200 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 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: 96GRF1/1830220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 200 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 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	0.11	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10
-85	0.11	0.11	0.12	0.13	0.14	0.13	0.11	0.15	0.18	0.19	0.18	0.21	0.23	0.23	0.23	0.24	0.26	0.25	0.23
-80	0.11	0.12	0.14	0.16	0.25	0.30	0.35	0.60	0.84	1.01	1.17	1.46	1.70	1.95	2.15	2.25	2.30	2.38	2.42
-75	0.11	0.13	0.16	0.29	0.43	0.85	1.25	1.98	2.66	3.41	4.25	4.91	5.54	6.26	6.87	7.40	7.80	8.03	8.12
-70	0.11	0.14	0.24	0.43	1.02	1.84	2.91	4.26	5.58	7.16	8.64	9.98	11.1	12.2	13.2	13.9	14.4	14.8	14.8
-65	0.11	0.15	0.32	0.87	1.85	3.29	5.20	7.29	9.50	11.7	13.7	15.6	17.4	19.1	20.6	21.7	22.5	23.2	23.6
-60	0.11	0.16	0.40	1.29	2.89	5.34	7.87	10.8	13.7	16.6	19.2	21.9	24.7	27.5	30.3	32.6	34.2	35.7	36.7
-55	0.11	0.19	0.66	2.03	4.38	7.38	10.8	14.4	18.1	22.0	26.0	30.0	34.8	40.5	45.8	51.1	55.4	58.2	59.6
-50	0.11	0.23	0.91	2.77	5.81	9.48	13.7	18.1	23.0	28.5	34.8	42.6	51.5	60.9	69.5	77.4	83.4	87.5	89.9
-45	0.11	0.26	1.15	3.59	7.26	11.7	16.5	22.0	28.6	36.4	47.3	59.5	72.9	87.2	99.6	109	117	122	124
-40	0.11	0.28	1.41	4.42	8.66	13.8	19.3	26.1	35.0	47.7	63.6	81.7	100	117	132	143	148	152	154
-35	0.11	0.31	1.78	5.19	10.1	15.9	22.3	30.5	43.1	61.2	82.8	105	126	144	155	162	173	180	182
-30	0.11	0.33	2.11	5.98	11.4	17.8	25.2	35.5	52.4	75.5	103	127	145	159	178	195	201	199	198
-25	0.11	0.35	2.39	6.73	12.6	19.6	28.0	41.0	62.2	90.3	120	143	158	183	201	217	252	281	289
-20	0.11	0.37	2.63	7.37	13.7	21.2	30.7	46.3	71.8	104	132	153	177	200	231	307	403	488	515
-15	0.11	0.38	2.81	7.87	14.5	22.5	33.2	52.2	80.6	115	142	160	194	219	310	476	726	1014	1122
-10	0.11	0.39	2.94	8.25	15.1	23.4	35.1	56.7	87.8	122	149	172	201	258	416	761	1383	2098	2379
-5	0.11	0.39	3.02	8.48	15.5	24.0	36.3	59.7	92.7	128	153	180	203	296	518	1087	2189	3061	3324
0	0.11	0.39	3.04	8.58	15.6	24.2	36.9	61.0	94.9	130	155	184	204	314	566	1229	2578	3459	3660
5	0.11	0.39	2.99	8.52	15.5	24.0	36.6	60.4	93.8	129	154	180	203	300	532	1112	2268	3196	3459
10	0.11	0.39	2.89	8.33	15.2	23.4	35.6	58.0	90.0	124	151	173	201	263	431	822	1481	2267	2543
15	0.11	0.38	2.74	7.99	14.6	22.5	33.7	54.1	84.2	118	147	162	196	222	323	502	785	1115	1203
20	0.11	0.36	2.54	7.52	13.8	21.2	31.3	48.9	76.6	110	139	157	182	205	237	322	431	531	560
25	0.11	0.35	2.30	6.93	12.8	19.6	28.8	43.6	68.1	98.2	127	150	166	189	206	224	264	301	311
30	0.11	0.33	2.01	6.21	11.7	18.0	26.3	37.7	57.6	83.1	112	136	154	165	182	198	204	207	207
35	0.11	0.31	1.67	5.39	10.4	16.2	23.5	32.6	46.9	68.3	92.7	117	137	151	159	163	174	183	187
40	0.11	0.29	1.30	4.48	9.04	14.2	20.3	27.9	37.5	52.6	72.2	93.3	112	128	140	148	152	156	157
45	0.11	0.26	1.05	3.46	7.58	12.2	17.2	23.4	30.5	39.5	52.6	68.6	84.1	98.8	110	119	126	130	132
50	0.11	0.23	0.84	2.55	5.99	10.0	14.3	19.1	24.5	30.5	38.0	47.4	58.3	68.5	77.4	84.9	92.2	96.8	98.5
55	0.11	0.20	0.61	1.85	4.41	7.76	11.4	15.2	19.2	23.6	28.2	33.1	38.3	44.6	49.9	55.1	59.6	62.3	63.3
60	0.11	0.17	0.39	1.11	2.83	5.44	8.41	11.4	14.5	17.6	20.9	24.1	26.9	29.7	32.3	35.0	37.0	38.2	38.7
65	0.11	0.16	0.32	0.75	1.69	3.33	5.48	7.87	10.2	12.4	14.7	16.8	18.7	20.3	21.7	23.1	24.4	25.0	25.2
70	0.11	0.15	0.25	0.37	0.84	1.73	2.95	4.59	6.24	7.75	9.16	10.6	11.8	13.0	14.0	14.8	15.5	15.9	16.1
75	0.11	0.14	0.18	0.26	0.33	0.73	1.14	2.03	2.94	3.84	4.64	5.38	6.22	7.02	7.70	8.26	8.71	8.93	8.98
80	0.11	0.13	0.15	0.16	0.19	0.27	0.35	0.60	0.88	1.11	1.36	1.75	2.07	2.35	2.59	2.79	2.93	2.97	2.94
85	0.11	0.12	0.13	0.13	0.12	0.13	0.15	0.17	0.19	0.22	0.25	0.25	0.24	0.26	0.28	0.27	0.27	0.28	0.29
90	0.11	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09

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: 96GRF1/1830220W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 200 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 Circle	Shielding Angle:

Table--2

UNIT: cd

H(DEC) V(DEC)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-90	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.11	0.11	0.11	
-85	0.24	0.25	0.24	0.22	0.23	0.23	0.21	0.19	0.18	0.18	0.15	0.11	0.13	0.15	0.13	0.12	0.12	0.11	
-80	2.43	2.39	2.25	2.07	1.87	1.63	1.37	1.03	0.86	0.72	0.54	0.31	0.27	0.23	0.16	0.14	0.13	0.11	
-75	8.10	7.93	7.63	7.17	6.39	5.50	4.72	4.02	3.23	2.43	1.81	1.17	0.78	0.37	0.25	0.15	0.14	0.11	
-70	14.9	14.8	14.3	13.5	12.3	11.1	9.74	8.29	6.93	5.46	4.06	2.72	1.74	0.94	0.36	0.21	0.15	0.11	
-65	23.6	23.1	22.2	20.9	19.4	17.7	15.7	13.6	11.4	9.30	7.12	4.94	3.13	1.75	0.77	0.27	0.16	0.11	
-60	36.5	35.6	33.6	31.0	28.4	25.7	22.7	19.5	16.5	13.6	10.7	7.67	4.93	2.74	1.16	0.32	0.17	0.11	
-55	58.7	56.3	52.3	47.0	41.6	36.3	31.6	26.6	22.1	18.2	14.4	10.7	7.08	4.10	1.84	0.56	0.19	0.11	
-50	89.0	86.0	80.7	72.6	62.9	53.2	44.0	35.6	28.7	23.3	18.3	13.8	9.36	5.49	2.49	0.78	0.21	0.11	
-45	123	119	113	103	90.8	76.9	61.7	48.5	37.2	29.0	22.4	16.7	11.7	7.02	3.30	0.99	0.23	0.11	
-40	151	147	141	132	119	103	84.4	65.3	48.8	35.8	26.8	19.6	13.8	8.46	4.20	1.22	0.25	0.11	
-35	180	173	161	153	143	127	107	84.6	62.4	43.8	31.3	22.7	15.8	9.98	4.99	1.55	0.27	0.11	
-30	198	197	193	178	159	144	127	104	76.3	52.5	35.8	25.5	17.6	11.3	5.74	1.84	0.28	0.11	
-25	275	243	211	201	183	157	142	120	90.6	61.4	41.0	28.0	19.2	12.4	6.41	2.09	0.29	0.11	
-20	478	386	293	223	202	174	152	131	103	70.5	45.8	30.5	20.7	13.4	6.96	2.30	0.31	0.11	
-15	998	695	449	295	212	193	156	140	113	78.9	50.5	32.8	22.0	14.1	7.39	2.46	0.31	0.11	
-10	2025	1295	691	391	245	198	165	145	120	85.5	54.4	34.6	22.9	14.6	7.69	2.57	0.32	0.11	
-5	2995	2024	978	484	279	198	171	148	125	89.8	57.0	35.7	23.5	15.0	7.85	2.64	0.32	0.11	
0	3385	2381	1100	521	293	200	174	149	127	91.5	58.3	36.2	23.7	15.1	7.88	2.66	0.32	0.11	
5	3078	2069	999	489	281	199	171	147	125	90.8	57.8	35.9	23.6	15.0	7.81	2.61	0.32	0.11	
10	2156	1357	721	405	251	200	164	145	121	87.5	55.8	35.0	23.2	14.7	7.61	2.51	0.32	0.11	
15	1082	744	478	308	215	193	155	142	115	81.4	52.1	33.4	22.4	14.2	7.27	2.37	0.31	0.11	
20	521	418	311	228	200	171	151	135	106	73.1	47.0	31.1	21.2	13.4	6.79	2.18	0.30	0.11	
25	297	258	217	199	177	155	144	122	91.8	63.7	42.3	28.5	19.6	12.3	6.19	1.95	0.29	0.11	
30	205	202	194	174	155	147	130	104	76.8	53.9	36.9	25.8	17.9	11.0	5.47	1.68	0.28	0.11	
35	184	174	160	153	145	130	109	84.3	61.9	44.6	31.7	22.8	15.9	9.72	4.67	1.37	0.26	0.11	
40	156	152	147	137	123	105	84.8	65.3	48.7	36.2	27.0	19.8	13.8	8.24	3.84	1.02	0.25	0.11	
45	131	127	119	109	93.9	77.3	62.1	48.2	37.5	29.6	22.7	16.8	11.5	6.85	2.94	0.81	0.23	0.11	
50	97.2	92.6	84.9	75.3	65.0	54.0	44.0	35.9	29.6	23.8	18.6	13.7	9.26	5.39	2.12	0.64	0.21	0.11	
55	62.6	59.7	54.8	48.7	42.9	36.7	31.6	27.2	23.0	18.6	14.5	10.7	7.10	3.86	1.49	0.47	0.19	0.11	
60	38.2	36.9	34.7	32.0	29.1	26.1	22.9	19.9	17.0	13.9	10.8	7.72	4.98	2.29	0.83	0.29	0.17	0.11	
65	24.8	24.2	23.3	21.9	20.2	18.2	16.0	14.0	11.8	9.56	7.23	4.96	2.77	1.32	0.57	0.25	0.16	0.11	
70	15.9	15.5	14.9	14.1	12.9	11.5	10.2	8.77	7.28	5.66	4.09	2.44	1.37	0.64	0.29	0.21	0.15	0.11	
75	8.84	8.55	8.06	7.42	6.71	5.92	5.16	4.39	3.52	2.67	1.74	0.92	0.57	0.28	0.22	0.17	0.14	0.11	
80	2.92	2.84	2.65	2.42	2.18	1.88	1.56	1.19	0.96	0.75	0.49	0.27	0.22	0.17	0.15	0.15	0.13	0.11	
85	0.27	0.25	0.26	0.26	0.24	0.22	0.23	0.23	0.20	0.16	0.15	0.14	0.13	0.11	0.12	0.13	0.12	0.11	
90	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.11	0.11	0.11	

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: