

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	3983.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	42.8V x 43.4H
	At 50% of Imax	17.4V x 17.5H
	At 90% of Imax	7.0V x 6.7H

Beam Flux	Total	789.7 lumens per klm.
	To 10% of Imax	499.9 lumens per klm.
	To 50% of Imax	215.4 lumens per klm.
	To 90% of Imax	46.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	79.0 %

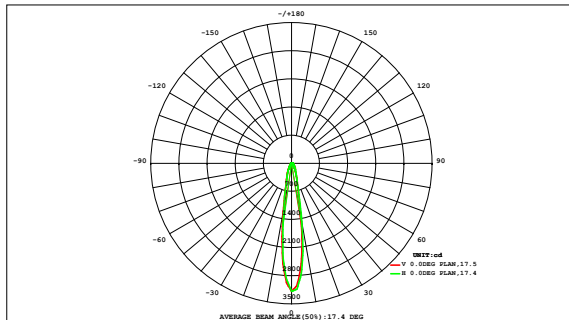
Luminaire Efficiency (Light Output Ratio)	78.6 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

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: 96GRF1/91524	TYPE: 96GRF1/91524	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	96GRF1/91524	Imax (cd)	3187
NOMINAL POWER (W)	9	AVAILABILITY (%)	49.6
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	396.5
NOMINAL FLUX (lm)	800	LOR (%)	78.6
LAMPS INSIDE	1	TOTAL FLUX (lm)	628.7
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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.00
90	0.00	0.00	0.01	0.01	0.03	0.05	0.08	0.10	0.11	0.11	0.10	0.08	0.05	0.03	0.01	0.01	0.00	0.00	0.77	0.00
80	0.00	0.00	0.02	0.05	0.10	0.17	0.24	0.32	0.37	0.36	0.31	0.24	0.17	0.10	0.05	0.02	0.00	0.00	2.52	0.00
70	0.00	0.01	0.04	0.10	0.21	0.34	0.49	0.65	0.75	0.74	0.63	0.48	0.34	0.21	0.11	0.04	0.01	0.00	5.12	0.00
60	0.00	0.01	0.06	0.18	0.34	0.60	0.92	1.23	1.40	1.40	1.20	0.94	0.62	0.34	0.17	0.07	0.01	0.00	9.50	0.00
50	0.00	0.02	0.09	0.25	0.56	1.02	1.59	2.25	2.74	2.75	2.22	1.56	1.04	0.55	0.24	0.09	0.02	0.00	17.0	0.00
40	0.00	0.02	0.12	0.34	0.82	1.52	2.80	4.75	6.43	6.43	4.64	2.67	1.47	0.79	0.32	0.12	0.02	0.00	33.3	0.00
30	0.00	0.03	0.14	0.43	1.03	2.13	4.73	9.57	15.8	15.9	9.22	4.48	2.02	0.97	0.39	0.14	0.03	0.00	67.0	41.4
20	0.00	0.03	0.16	0.48	1.16	2.68	6.62	17.0	54.2	53.6	16.3	6.20	2.46	1.09	0.44	0.15	0.03	0.00	162	142
10	0.00	0.03	0.16	0.48	1.17	2.74	6.85	17.9	61.0	59.8	17.0	6.36	2.51	1.10	0.45	0.16	0.03	0.00	178	158
0	0.00	0.03	0.15	0.43	1.05	2.25	5.13	10.5	18.7	18.8	10.2	4.81	2.12	1.00	0.43	0.15	0.03	0.00	75.7	51.7
-10	0.00	0.03	0.13	0.36	0.86	1.62	3.11	5.40	7.47	7.50	5.34	3.01	1.56	0.82	0.37	0.14	0.03	0.00	37.7	3.12
-20	0.00	0.02	0.10	0.28	0.63	1.16	1.76	2.56	3.22	3.27	2.62	1.77	1.08	0.61	0.30	0.11	0.02	0.00	19.5	0.00
-30	0.00	0.01	0.07	0.20	0.41	0.73	1.06	1.35	1.57	1.60	1.42	1.05	0.68	0.41	0.22	0.08	0.01	0.00	10.9	0.00
-40	0.00	0.01	0.04	0.13	0.25	0.40	0.56	0.70	0.81	0.83	0.73	0.56	0.39	0.25	0.13	0.04	0.01	0.00	5.85	0.00
-50	0.00	0.00	0.02	0.06	0.12	0.20	0.26	0.32	0.35	0.35	0.33	0.27	0.20	0.12	0.06	0.02	0.00	0.00	2.69	0.00
-60	0.00	0.00	0.01	0.02	0.03	0.06	0.08	0.10	0.11	0.11	0.10	0.09	0.06	0.04	0.02	0.01	0.00	0.00	0.84	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.10	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	0.01	0.27	1.32	3.80	8.78	17.7	36.3	74.7	175	173	72.3	34.6	16.8	8.42	3.71	1.34	0.27	0.01	629	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	2.62	47.9	151	149	44.7	1.14	0.00	0.00	0.00	0.00	0.00	0.00	---	396

one-half-peak spread: U:9.6,D:7.9 , L:9.1,R:8.5

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

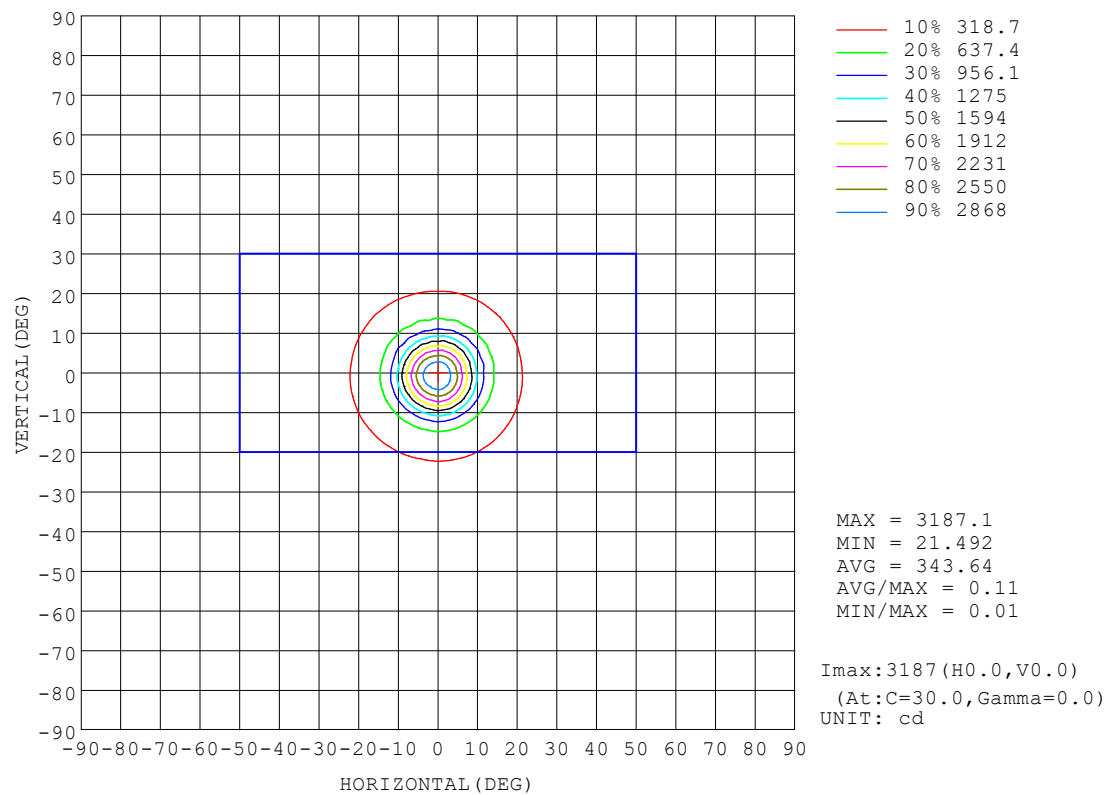
Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

NAME: 96GRF1/91524	TYPE: 96GRF1/91524	WEIGHT: 1
SPEC.:	DIM.: F 150 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 9 Circle	Shielding Angle:

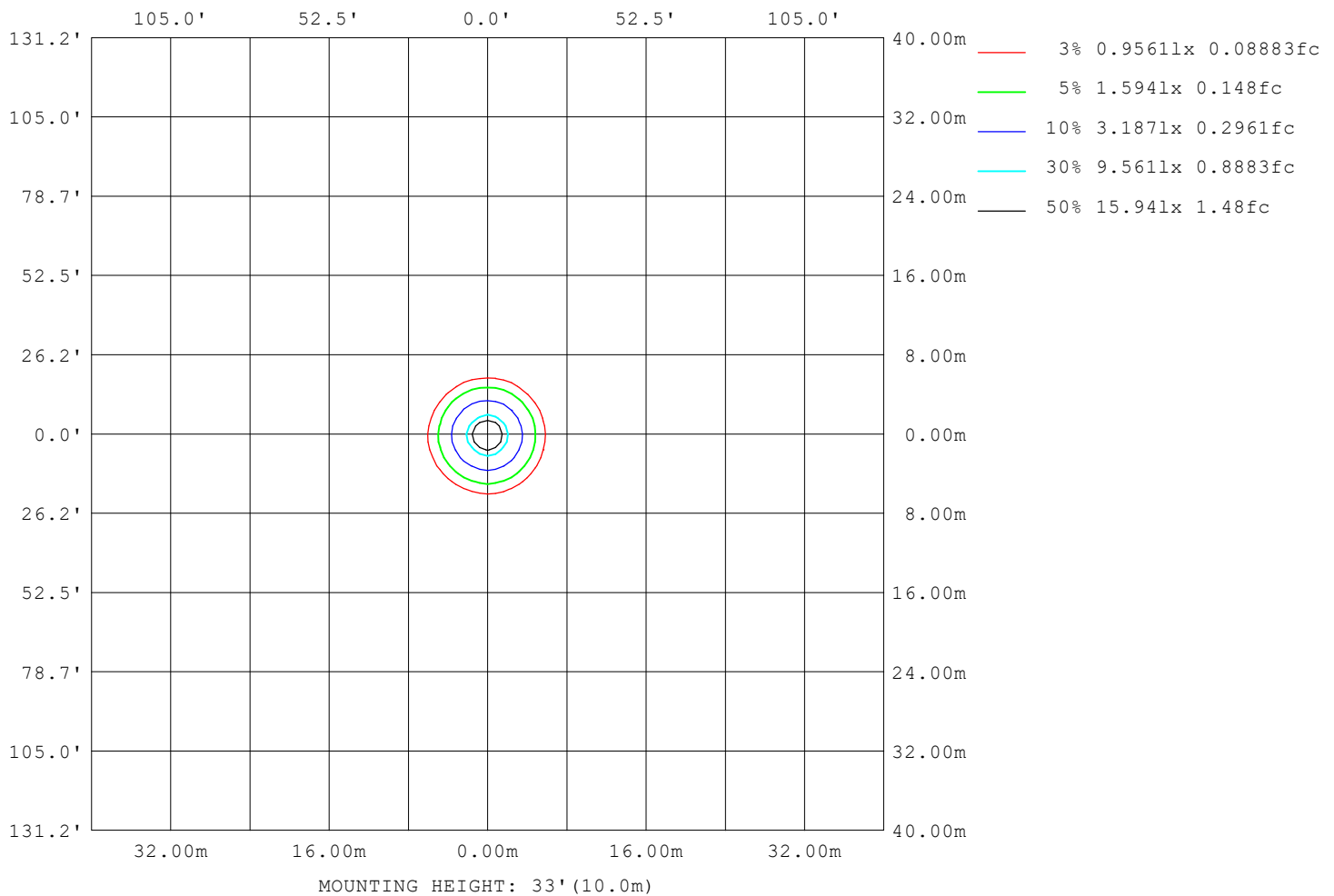


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 01 September 2022

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

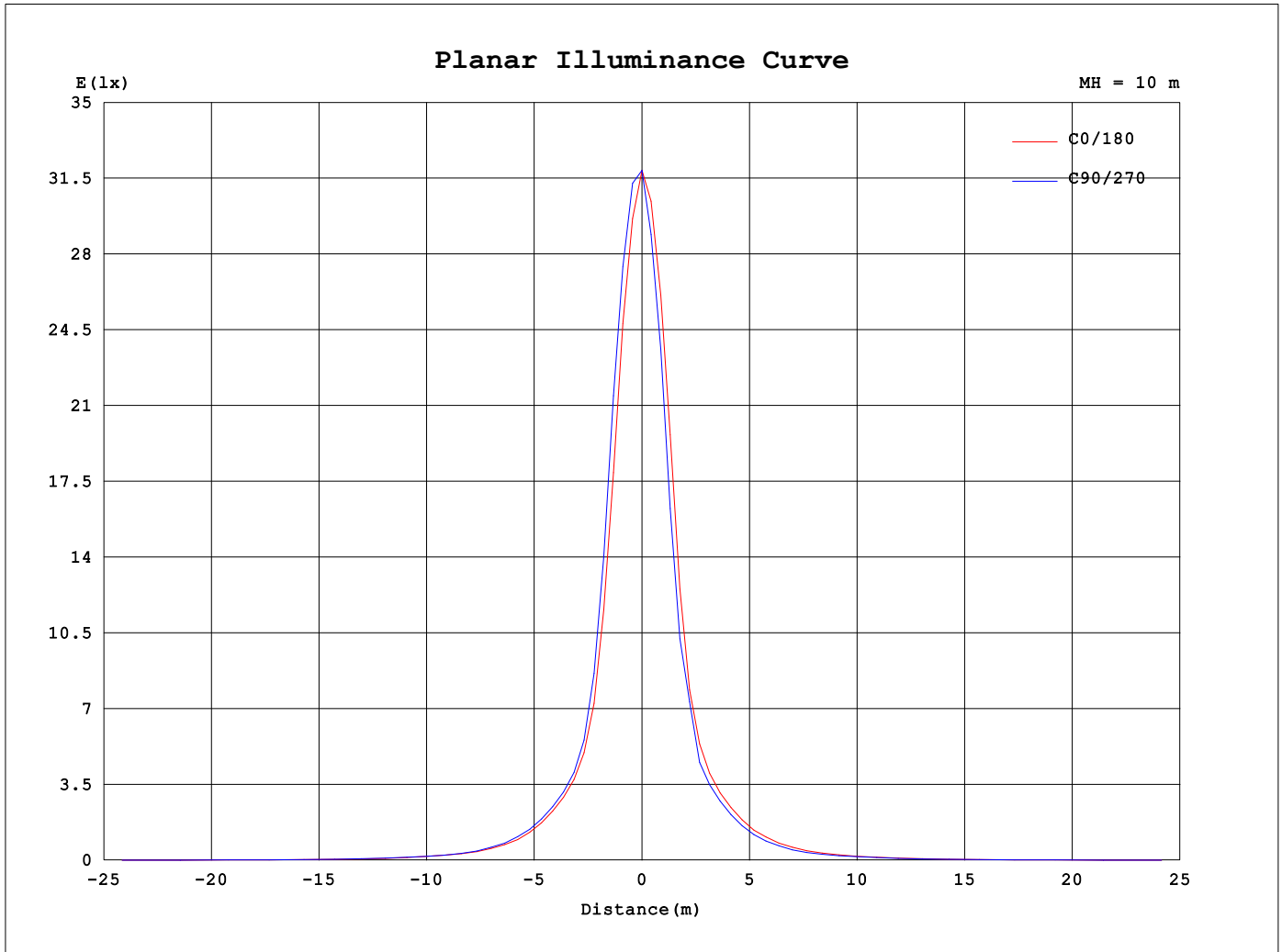
NAME: 96GRF1/91524	TYPE: 96GRF1/91524	WEIGHT: 1
SPEC.:	DIM.: F 150 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 9 Circle	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: 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

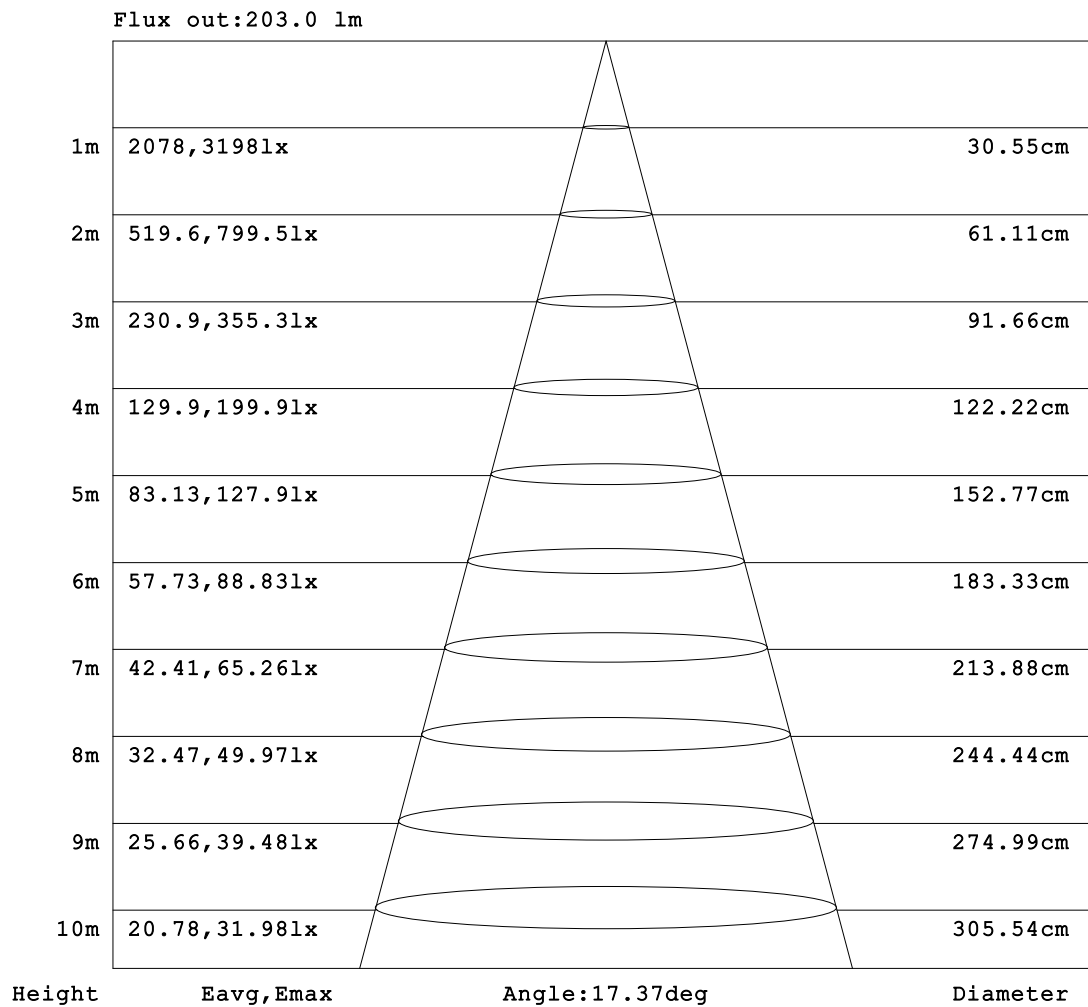


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 01 September 2022

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:

AAI Figure

NAME: 96GRF1/91524	TYPE: 96GRF1/91524	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: 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: 96GRF1/91524	TYPE: 96GRF1/91524	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(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05
-85	0.07	0.07	0.08	0.10	0.12	0.12	0.11	0.14	0.18	0.18	0.19	0.22	0.24	0.22	0.19	0.18	0.17	0.19	0.22
-80	0.07	0.08	0.10	0.13	0.19	0.22	0.25	0.38	0.49	0.59	0.69	0.81	0.92	1.03	1.12	1.16	1.17	1.25	1.32
-75	0.07	0.09	0.12	0.20	0.29	0.47	0.65	0.92	1.16	1.48	1.86	2.19	2.52	2.81	3.04	3.20	3.30	3.40	3.45
-70	0.07	0.10	0.17	0.28	0.53	0.86	1.25	1.77	2.33	3.18	4.01	4.70	5.18	5.67	6.11	6.43	6.64	6.85	6.95
-65	0.07	0.11	0.21	0.45	0.85	1.38	2.12	3.16	4.39	5.73	6.85	7.75	8.53	9.27	10.1	10.8	11.3	11.6	11.6
-60	0.07	0.12	0.26	0.62	1.24	2.12	3.43	5.11	6.85	8.55	9.93	11.3	12.7	14.0	15.1	15.9	16.5	16.9	17.1
-55	0.07	0.14	0.36	0.90	1.80	3.16	5.02	7.17	9.39	11.7	13.7	15.8	17.9	19.8	21.5	23.4	24.8	26.2	27.2
-50	0.07	0.16	0.45	1.19	2.39	4.29	6.62	9.27	12.2	15.0	18.1	21.5	24.9	28.0	31.2	33.9	36.3	38.3	39.6
-45	0.07	0.17	0.54	1.53	3.18	5.43	8.19	11.4	15.0	18.8	23.5	28.9	34.1	38.4	41.9	45.2	48.4	50.8	52.6
-40	0.07	0.19	0.63	1.88	3.92	6.60	9.66	13.6	18.0	23.4	30.7	38.0	44.4	49.5	54.5	60.2	65.1	68.2	70.0
-35	0.07	0.20	0.78	2.20	4.66	7.66	11.3	15.8	21.4	29.0	38.1	46.3	53.9	62.2	72.1	84.8	95.8	104	109
-30	0.07	0.22	0.90	2.56	5.32	8.65	12.9	17.9	24.9	34.6	44.8	54.3	65.0	81.6	103	124	146	157	169
-25	0.07	0.23	1.01	2.91	5.90	9.50	14.3	20.2	28.4	39.6	51.0	63.1	82.7	111	145	180	216	243	257
-20	0.07	0.24	1.10	3.20	6.39	10.4	15.5	22.1	31.8	44.2	57.2	73.9	105	144	194	256	317	360	381
-15	0.07	0.24	1.17	3.41	6.76	11.0	16.5	23.9	34.8	48.1	63.4	86.2	126	184	257	349	450	560	617
-10	0.07	0.25	1.21	3.56	7.02	11.5	17.2	25.4	37.2	51.3	69.3	99.6	146	217	320	452	706	1164	1470
-5	0.07	0.25	1.24	3.63	7.17	11.8	17.6	26.4	38.7	53.1	72.5	108	163	244	364	561	1144	2219	2773
0	0.07	0.25	1.24	3.64	7.19	11.9	17.6	26.9	39.2	53.6	73.1	109	166	250	376	597	1314	2640	3187
5	0.07	0.25	1.22	3.57	7.08	11.7	17.3	26.5	38.8	52.9	71.0	105	154	234	353	534	1037	1909	2388
10	0.07	0.25	1.18	3.44	6.85	11.3	16.7	25.4	37.5	51.0	66.8	95.9	139	205	303	421	628	935	1072
15	0.07	0.24	1.12	3.24	6.51	10.8	15.8	23.6	35.0	47.4	60.9	81.3	119	167	237	323	404	478	502
20	0.07	0.24	1.05	2.99	6.04	10.0	14.6	21.0	31.5	42.9	55.1	69.7	95.8	131	175	230	284	320	330
25	0.07	0.23	0.95	2.69	5.46	9.09	13.3	18.7	27.4	37.7	48.3	59.5	75.8	99.5	127	158	186	207	214
30	0.07	0.22	0.85	2.33	4.81	8.10	12.0	16.3	22.8	31.8	40.9	50.2	60.9	74.0	91.1	110	125	135	137
35	0.07	0.21	0.73	1.97	4.14	6.96	10.5	14.1	18.7	25.3	33.2	40.7	48.4	56.5	65.3	73.7	81.9	87.0	88.8
40	0.07	0.19	0.59	1.65	3.39	5.83	8.83	12.0	15.4	19.7	25.6	31.7	37.6	43.7	49.5	54.4	58.0	60.1	60.4
45	0.07	0.18	0.50	1.32	2.73	4.67	7.14	9.94	12.6	15.6	19.3	23.7	28.2	33.1	37.8	42.1	44.8	46.3	46.5
50	0.07	0.16	0.43	1.03	2.07	3.58	5.57	7.86	10.1	12.4	14.9	17.6	20.7	24.1	27.4	30.6	33.3	34.7	34.9
55	0.07	0.15	0.35	0.79	1.56	2.62	4.10	5.85	7.71	9.48	11.4	13.3	15.4	17.5	19.5	21.5	23.2	24.2	24.5
60	0.07	0.13	0.26	0.54	1.08	1.81	2.78	4.06	5.46	6.86	8.23	9.70	11.3	12.8	14.2	15.5	16.6	17.2	17.4
65	0.07	0.12	0.22	0.40	0.72	1.19	1.76	2.55	3.50	4.49	5.56	6.59	7.67	8.74	9.84	10.8	11.8	12.2	12.3
70	0.07	0.11	0.19	0.25	0.43	0.70	1.03	1.47	1.96	2.59	3.20	3.92	4.60	5.35	6.10	6.68	7.17	7.32	7.30
75	0.07	0.10	0.15	0.19	0.23	0.38	0.51	0.73	0.93	1.21	1.54	1.87	2.22	2.53	2.82	3.05	3.21	3.25	3.21
80	0.07	0.09	0.12	0.13	0.15	0.20	0.25	0.31	0.37	0.44	0.51	0.64	0.76	0.85	0.93	1.00	1.06	1.08	1.08
85	0.07	0.08	0.09	0.10	0.09	0.11	0.14	0.14	0.14	0.16	0.19	0.19	0.19	0.19	0.19	0.18	0.16	0.18	0.20
90	0.07	0.07	0.07	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05

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: 96GRF1/91524	TYPE: 96GRF1/91524	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	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	
-85	0.25	0.28	0.27	0.26	0.26	0.25	0.23	0.20	0.19	0.18	0.15	0.12	0.12	0.11	0.09	0.08	0.07	0.05	
-80	1.30	1.26	1.22	1.16	1.06	0.94	0.81	0.65	0.57	0.49	0.38	0.25	0.22	0.19	0.13	0.10	0.08	0.05	
-75	3.42	3.35	3.34	3.24	2.97	2.64	2.27	1.94	1.53	1.16	0.92	0.65	0.47	0.28	0.19	0.12	0.09	0.05	
-70	6.91	6.78	6.76	6.53	5.97	5.34	4.70	3.99	3.31	2.49	1.85	1.27	0.87	0.54	0.26	0.16	0.11	0.05	
-65	11.5	11.2	11.0	10.5	9.78	8.87	7.79	6.74	5.68	4.57	3.35	2.20	1.42	0.87	0.46	0.20	0.12	0.05	
-60	16.9	16.5	16.1	15.3	14.3	13.0	11.5	9.87	8.36	6.96	5.40	3.59	2.16	1.26	0.64	0.24	0.13	0.05	
-55	27.0	26.1	24.5	22.0	19.9	17.6	15.6	13.5	11.4	9.56	7.62	5.32	3.22	1.80	0.91	0.35	0.15	0.05	
-50	39.5	38.4	36.2	32.4	28.3	24.1	20.6	17.5	14.8	12.4	9.87	7.11	4.44	2.38	1.18	0.46	0.17	0.05	
-45	52.3	50.9	48.4	43.5	37.7	31.8	27.0	22.4	18.6	15.4	12.2	8.95	5.76	3.18	1.49	0.56	0.18	0.05	
-40	69.3	67.2	62.5	56.4	49.1	41.3	34.4	28.4	23.0	18.4	14.5	10.8	7.09	3.95	1.84	0.66	0.20	0.05	
-35	107	99.5	86.2	74.0	63.2	52.3	42.9	34.9	28.0	21.5	16.6	12.4	8.30	4.78	2.15	0.79	0.21	0.05	
-30	158	146	124	103	81.7	64.5	51.9	41.8	32.7	24.9	18.7	13.8	9.41	5.49	2.54	0.90	0.22	0.05	
-25	244	216	178	140	107	80.5	61.0	48.4	37.6	28.2	20.6	15.0	10.3	6.14	2.91	1.00	0.23	0.05	
-20	364	317	253	187	136	99.4	70.6	54.6	42.2	31.0	22.3	16.0	11.0	6.68	3.21	1.08	0.24	0.05	
-15	564	444	341	246	170	118	83.5	60.1	46.1	33.5	24.0	16.8	11.5	7.07	3.44	1.13	0.25	0.05	
-10	1175	689	436	304	201	134	92.2	65.1	49.1	35.3	24.8	17.2	11.8	7.31	3.60	1.18	0.26	0.05	
-5	2169	1091	530	343	227	146	98.0	68.1	50.5	36.0	25.1	17.3	11.8	7.41	3.69	1.20	0.26	0.05	
0	2509	1213	552	351	232	148	98.9	69.0	50.7	35.7	24.8	17.1	11.7	7.39	3.71	1.20	0.26	0.05	
5	1897	1007	502	332	220	142	95.8	67.6	49.8	35.2	24.2	16.6	11.4	7.22	3.64	1.19	0.26	0.05	
10	954	616	402	286	194	129	88.8	64.1	47.5	33.8	23.1	15.9	11.0	6.94	3.51	1.16	0.26	0.05	
15	476	396	311	226	158	111	78.2	59.0	44.7	31.8	21.5	15.0	10.4	6.56	3.31	1.11	0.25	0.05	
20	319	279	223	168	126	89.8	67.1	53.6	40.9	29.1	19.4	13.9	9.61	6.07	3.07	1.04	0.25	0.05	
25	209	185	154	123	94.3	71.3	58.0	47.3	36.3	25.5	17.5	12.7	8.77	5.50	2.77	0.95	0.24	0.05	
30	135	122	106	87.5	70.6	58.9	49.8	40.6	30.8	21.5	15.4	11.4	7.93	4.88	2.43	0.84	0.23	0.05	
35	88.4	82.0	72.8	64.1	55.8	48.8	41.6	33.8	24.5	17.8	13.5	10.1	6.97	4.24	2.07	0.72	0.22	0.05	
40	60.9	58.4	54.2	49.1	44.4	39.4	33.4	25.8	19.2	14.9	11.7	8.65	5.98	3.54	1.75	0.58	0.20	0.05	
45	46.0	43.9	40.5	37.5	34.0	29.7	24.2	19.1	15.4	12.5	9.78	7.23	4.91	2.89	1.39	0.48	0.19	0.05	
50	33.8	32.0	29.4	27.0	24.0	20.8	17.5	14.8	12.4	10.1	7.85	5.78	3.86	2.23	1.06	0.41	0.17	0.05	
55	23.9	22.7	20.8	18.9	17.0	15.1	13.3	11.5	9.71	7.80	6.00	4.36	2.87	1.66	0.78	0.33	0.16	0.05	
60	17.1	16.3	15.0	13.7	12.4	11.1	9.78	8.41	7.01	5.61	4.28	3.00	1.96	1.10	0.50	0.26	0.14	0.05	
65	12.0	11.4	10.4	9.47	8.56	7.65	6.68	5.69	4.64	3.64	2.72	1.91	1.24	0.71	0.38	0.22	0.13	0.05	
70	7.21	6.98	6.49	5.92	5.30	4.65	3.99	3.27	2.68	2.08	1.58	1.10	0.71	0.42	0.25	0.18	0.11	0.05	
75	3.28	3.27	3.08	2.84	2.58	2.28	1.91	1.58	1.29	1.02	0.78	0.52	0.38	0.23	0.19	0.14	0.10	0.05	
80	1.08	1.06	1.02	0.96	0.88	0.78	0.67	0.55	0.47	0.38	0.31	0.24	0.20	0.15	0.13	0.11	0.09	0.05	
85	0.21	0.21	0.23	0.24	0.22	0.20	0.20	0.20	0.17	0.14	0.14	0.14	0.11	0.09	0.09	0.09	0.07	0.05	
90	0.05	0.05	0.05	0.06	0.06	0.05	0.06	0.06	0.06	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	

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: