

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	4123.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	42.7V x 43.1H
	At 50% of Imax	17.5V x 17.8H
	At 90% of Imax	6.4V x 6.9H

Beam Flux	Total	806.6 lumens per klm.
	To 10% of Imax	513.1 lumens per klm.
	To 50% of Imax	221.1 lumens per klm.
	To 90% of Imax	42.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	80.7 %

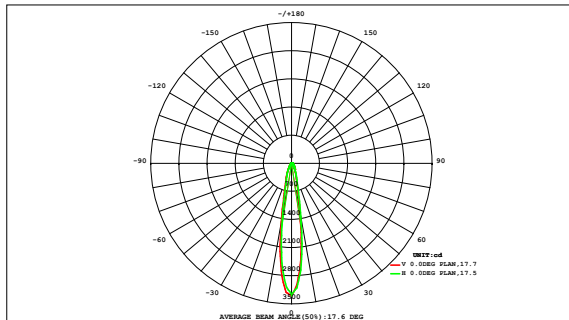
Luminaire Efficiency (Light Output Ratio)	80.3 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

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: 96GRF1/915220	TYPE: 96GRF1/915220	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	96GRF1/915220	Imax (cd)	3299
NOMINAL POWER (W)	9	AVAILABILITY (%)	50.9
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	407.3
NOMINAL FLUX (lm)	800	LOR (%)	80.3
LAMPS INSIDE	1	TOTAL FLUX (lm)	642.1
TEST VOLTAGE (V)	230	θ @50% (H,V)	18,18DEG

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	0.01	0.00	0.00	0.00	0.00	0.00	0.07	0.00
90	0.00	0.00	0.00	0.01	0.03	0.04	0.06	0.08	0.10	0.10	0.09	0.08	0.05	0.03	0.02	0.01	0.00	0.00	0.71	0.00
80	0.00	0.00	0.01	0.04	0.09	0.15	0.22	0.29	0.34	0.35	0.32	0.26	0.19	0.12	0.06	0.02	0.00	0.00	2.48	0.00
70	0.00	0.01	0.03	0.10	0.19	0.32	0.48	0.67	0.79	0.78	0.69	0.55	0.38	0.23	0.12	0.04	0.01	0.00	5.37	0.00
60	0.00	0.01	0.06	0.16	0.33	0.59	0.96	1.31	1.49	1.49	1.32	1.03	0.67	0.37	0.18	0.07	0.01	0.00	10.1	0.00
50	0.00	0.02	0.09	0.24	0.52	0.98	1.57	2.34	3.01	3.05	2.47	1.71	1.08	0.56	0.26	0.10	0.02	0.00	18.0	0.00
40	0.00	0.02	0.11	0.32	0.75	1.43	2.76	4.92	6.96	7.22	5.32	3.07	1.58	0.79	0.34	0.12	0.03	0.00	35.7	1.26
30	0.00	0.03	0.13	0.39	0.95	1.96	4.50	9.48	17.2	18.1	10.6	5.12	2.25	0.99	0.41	0.14	0.03	0.00	72.2	47.1
20	0.00	0.03	0.14	0.44	1.04	2.35	6.05	16.2	56.0	61.0	18.9	7.02	2.74	1.12	0.47	0.15	0.03	0.00	174	153
10	0.00	0.03	0.14	0.43	1.03	2.35	6.02	16.3	56.5	62.3	19.4	7.15	2.78	1.14	0.48	0.15	0.03	0.00	176	156
0	0.00	0.03	0.13	0.38	0.91	1.94	4.48	9.47	17.5	18.7	10.9	5.22	2.27	1.04	0.43	0.14	0.03	0.00	73.5	48.3
-10	0.00	0.02	0.11	0.32	0.73	1.43	2.78	4.90	6.99	7.27	5.39	3.13	1.61	0.83	0.35	0.13	0.03	0.00	36.0	1.37
-20	0.00	0.02	0.09	0.24	0.53	1.01	1.62	2.42	3.12	3.19	2.60	1.75	1.08	0.59	0.26	0.10	0.02	0.00	18.6	0.00
-30	0.00	0.01	0.06	0.17	0.35	0.63	0.97	1.29	1.52	1.57	1.39	1.07	0.69	0.39	0.19	0.07	0.01	0.00	10.4	0.00
-40	0.00	0.01	0.04	0.11	0.21	0.35	0.50	0.64	0.74	0.78	0.73	0.58	0.40	0.24	0.12	0.04	0.01	0.00	5.50	0.00
-50	0.00	0.00	0.01	0.05	0.10	0.17	0.24	0.30	0.34	0.36	0.34	0.28	0.20	0.12	0.06	0.02	0.00	0.00	2.60	0.00
-60	0.00	0.00	0.00	0.01	0.03	0.05	0.07	0.09	0.11	0.12	0.11	0.08	0.06	0.04	0.02	0.01	0.00	0.00	0.79	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.08	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	0.22	1.19	3.42	7.79	15.7	33.3	70.7	173	186	80.5	38.1	18.0	8.60	3.77	1.32	0.27	0.01	642	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	0.28	41.3	148	162	53.0	3.17	0.00	0.00	0.00	0.00	0.00	0.00	---	407

one-half-peak spread: U:8.9,D:8.7 , L:8.4,R:9.5

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

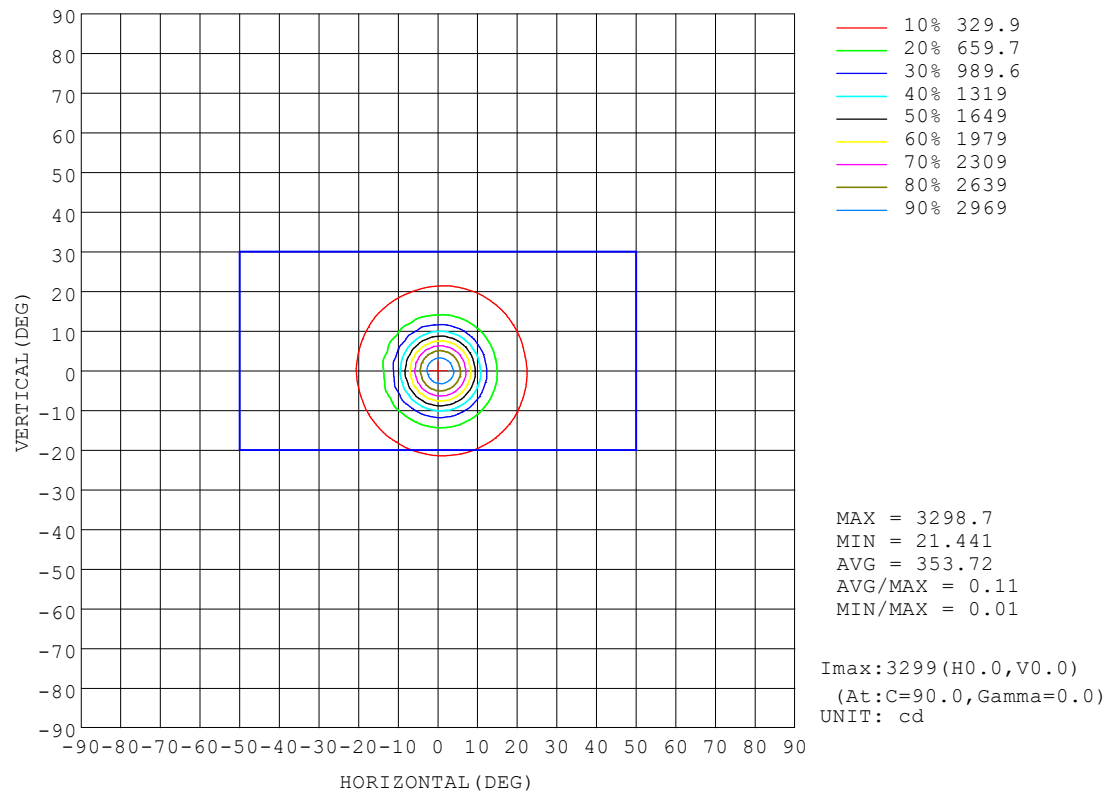
Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

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

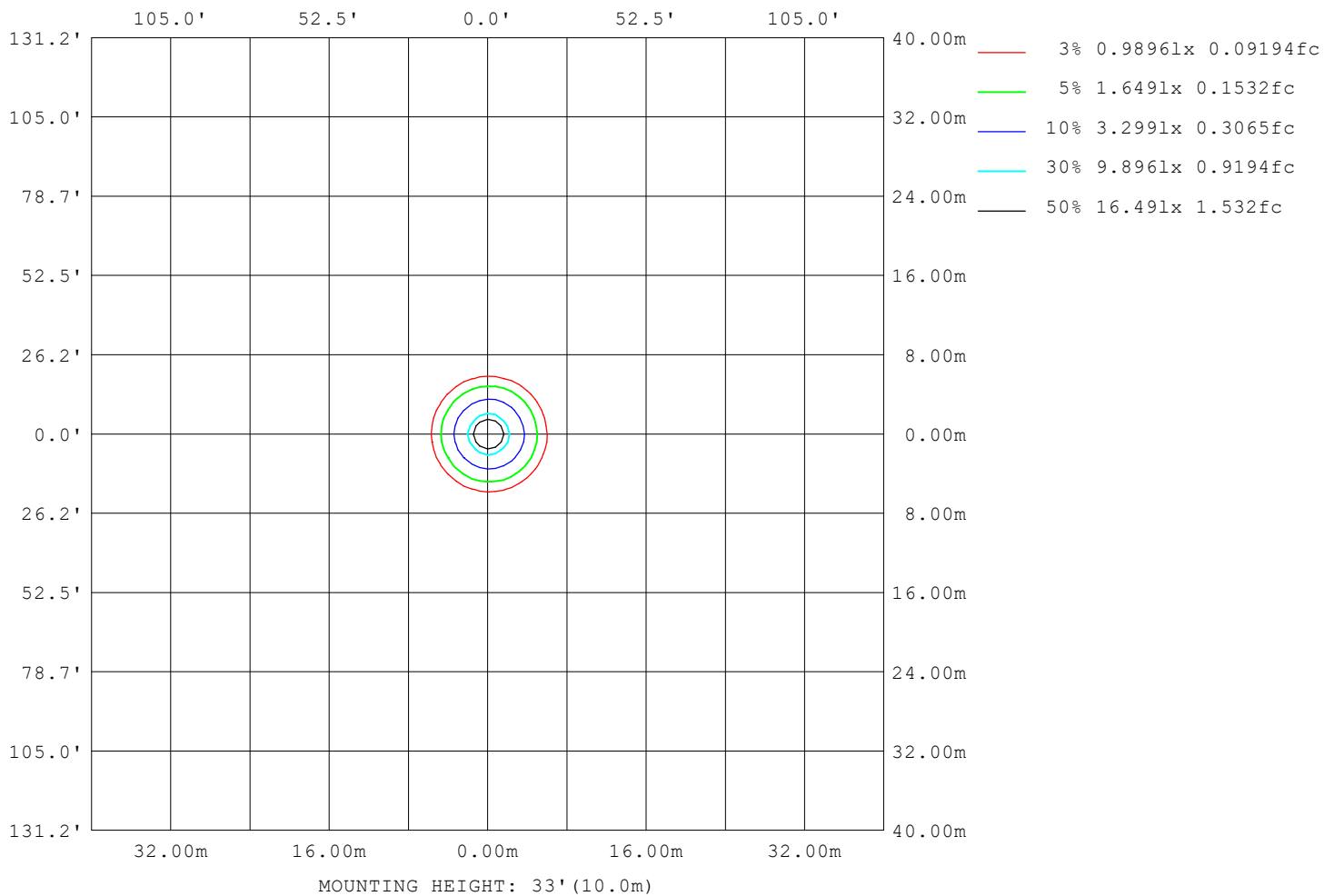


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 September 2022

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

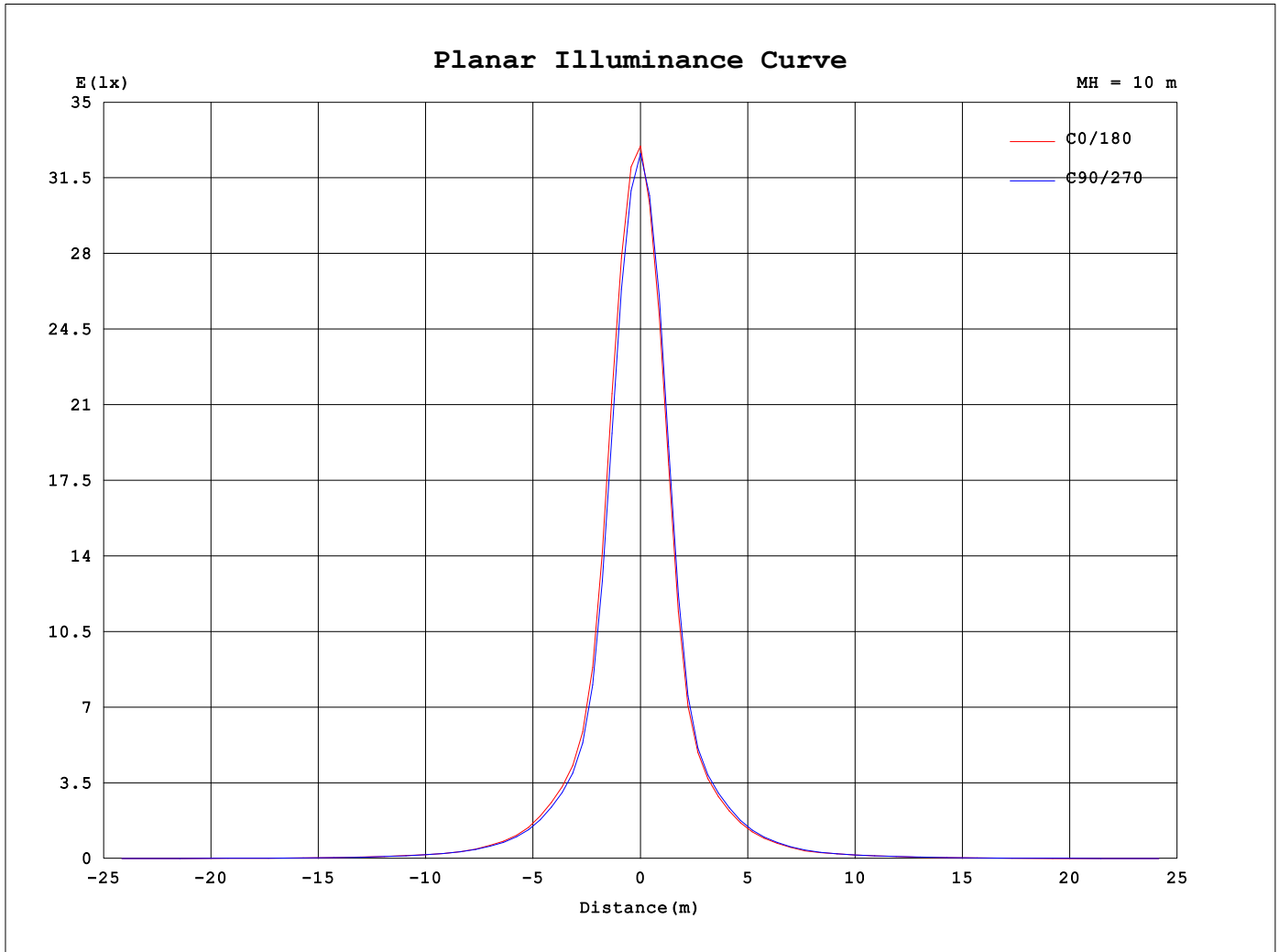
NAME: 96GRF1/915220	TYPE: 96GRF1/915220	WEIGHT: 1
SPEC.:	DIM.: F 150 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 9 Circle	Shielding Angle:



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

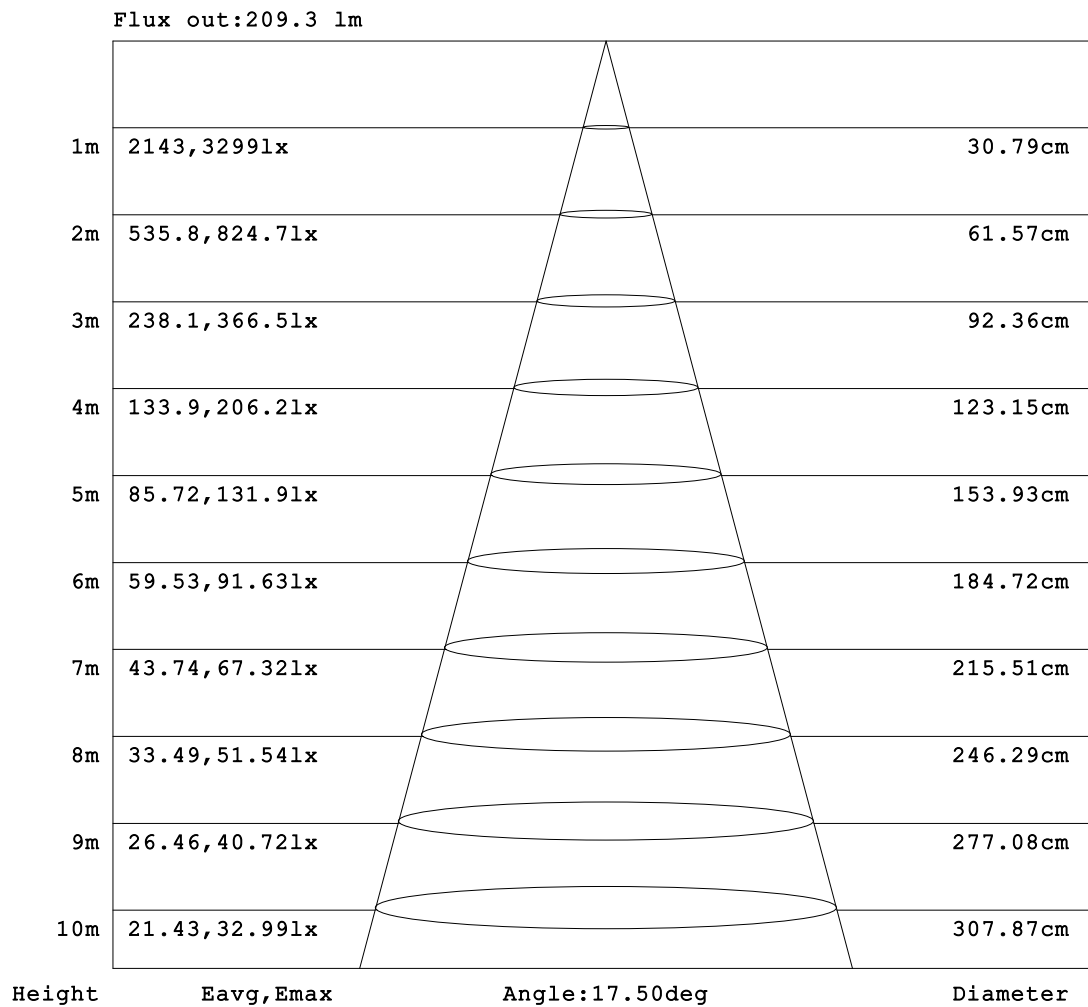


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 01 September 2022

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: 96GRF1/915220	TYPE: 96GRF1/915220	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: 96GRF1/915220	TYPE: 96GRF1/915220	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	0.07	0.06	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.06	0.06	0.06	0.05
-85	0.07	0.07	0.07	0.08	0.09	0.09	0.08	0.10	0.12	0.12	0.11	0.13	0.15	0.13	0.10	0.11	0.11	0.13	0.15
-80	0.07	0.07	0.07	0.09	0.13	0.14	0.16	0.23	0.30	0.36	0.43	0.56	0.66	0.76	0.86	0.96	1.05	1.15	1.22
-75	0.07	0.07	0.08	0.13	0.18	0.28	0.36	0.61	0.81	1.11	1.45	1.75	2.04	2.36	2.70	3.01	3.29	3.45	3.55
-70	0.07	0.08	0.10	0.16	0.32	0.56	0.91	1.45	1.97	2.51	3.03	3.66	4.25	4.98	5.63	6.17	6.60	6.97	7.22
-65	0.07	0.08	0.12	0.27	0.56	1.04	1.81	2.63	3.49	4.44	5.53	6.62	7.66	8.49	9.25	10.0	10.8	11.2	11.5
-60	0.07	0.08	0.14	0.38	0.90	1.74	2.87	4.12	5.52	6.99	8.50	9.89	11.2	12.5	13.7	14.7	15.5	16.3	16.9
-55	0.07	0.09	0.21	0.62	1.38	2.64	4.16	5.96	7.83	9.68	11.6	13.7	15.7	17.8	19.6	21.4	22.7	23.9	24.8
-50	0.07	0.10	0.28	0.85	1.88	3.62	5.59	7.87	10.1	12.5	15.2	18.3	21.9	25.4	28.6	31.4	33.5	34.9	36.0
-45	0.07	0.11	0.35	1.12	2.58	4.64	7.08	9.76	12.5	15.7	19.7	24.8	30.5	35.0	39.5	43.7	47.0	49.7	51.4
-40	0.07	0.11	0.42	1.39	3.26	5.73	8.54	11.7	15.2	19.6	25.6	32.3	39.4	46.1	51.9	57.6	63.9	68.1	70.0
-35	0.07	0.12	0.54	1.63	3.98	6.76	9.97	13.6	18.0	24.1	31.7	40.1	49.2	57.8	66.6	79.0	93.2	102	106
-30	0.07	0.13	0.65	1.95	4.64	7.73	11.4	15.5	21.2	28.8	38.1	48.4	59.5	73.2	94.4	117	135	148	155
-25	0.07	0.13	0.74	2.27	5.22	8.56	12.7	17.5	24.3	33.4	44.2	56.1	72.5	98.0	132	162	197	226	241
-20	0.07	0.13	0.81	2.52	5.73	9.37	13.8	19.3	27.6	37.9	49.5	64.9	91.4	128	173	230	292	344	369
-15	0.07	0.14	0.86	2.71	6.15	10.0	14.8	21.1	30.7	42.3	54.4	74.4	110	159	225	317	416	532	595
-10	0.07	0.14	0.90	2.83	6.45	10.5	15.5	22.6	33.2	45.5	58.6	84.5	127	187	283	411	657	1060	1347
-5	0.07	0.14	0.93	2.89	6.65	10.8	16.0	23.7	35.0	47.4	61.0	91.7	140	212	326	502	1025	1993	2665
0	0.07	0.14	0.93	2.89	6.74	10.9	16.2	24.3	36.1	48.3	61.8	93.9	144	222	346	544	1199	2544	3299
5	0.07	0.14	0.93	2.87	6.64	10.8	16.0	24.0	35.8	47.9	61.3	91.5	140	213	328	502	1012	1977	2635
10	0.07	0.14	0.90	2.78	6.42	10.5	15.6	23.1	34.6	46.5	59.4	85.0	128	190	286	408	634	1037	1284
15	0.07	0.14	0.87	2.64	6.10	10.0	14.8	21.6	32.3	44.0	55.8	75.1	111	158	228	320	412	509	566
20	0.07	0.14	0.81	2.44	5.68	9.36	13.8	19.6	28.9	40.2	51.0	65.5	90.8	128	175	230	293	341	365
25	0.07	0.14	0.74	2.18	5.17	8.51	12.5	17.7	25.3	34.6	44.9	55.8	72.2	98.3	130	164	197	226	238
30	0.07	0.13	0.66	1.87	4.57	7.60	11.1	15.5	21.4	29.0	37.7	47.5	58.2	72.3	92.4	116	135	149	154
35	0.07	0.13	0.56	1.56	3.85	6.60	9.59	13.3	17.7	23.7	30.8	38.7	47.0	55.3	64.9	75.3	87.8	96.6	99.3
40	0.07	0.12	0.45	1.34	3.08	5.60	8.11	11.1	14.6	18.8	24.5	30.9	38.1	44.6	50.6	56.2	60.8	64.1	65.5
45	0.07	0.12	0.37	1.10	2.44	4.53	6.75	9.11	11.8	14.8	18.4	23.2	28.9	35.0	40.3	44.7	47.6	49.1	49.1
50	0.07	0.11	0.31	0.86	1.80	3.46	5.34	7.27	9.39	11.7	14.1	16.8	20.4	24.9	29.7	33.7	36.1	37.1	36.8
55	0.07	0.10	0.24	0.63	1.35	2.49	3.94	5.53	7.20	8.98	10.7	12.4	14.5	16.8	19.1	22.0	24.5	25.7	25.8
60	0.07	0.09	0.17	0.40	0.91	1.65	2.66	3.85	5.14	6.44	7.69	8.99	10.3	11.7	13.2	14.6	16.0	16.7	17.0
65	0.07	0.09	0.15	0.29	0.56	1.03	1.65	2.43	3.27	4.13	5.03	5.91	6.87	7.79	8.81	9.79	10.7	11.2	11.6
70	0.07	0.09	0.13	0.17	0.31	0.56	0.90	1.37	1.87	2.37	2.80	3.36	3.89	4.56	5.22	5.80	6.29	6.56	6.69
75	0.07	0.08	0.11	0.13	0.16	0.27	0.38	0.60	0.81	1.07	1.33	1.58	1.82	2.08	2.37	2.62	2.80	2.96	3.08
80	0.07	0.08	0.10	0.10	0.11	0.14	0.18	0.23	0.27	0.33	0.40	0.51	0.60	0.68	0.74	0.78	0.79	0.88	0.96
85	0.07	0.07	0.08	0.08	0.08	0.09	0.11	0.11	0.11	0.13	0.15	0.14	0.13	0.13	0.13	0.12	0.11	0.13	0.16
90	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.07

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: 96GRF1/915220	TYPE: 96GRF1/915220	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	0.06	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	0.05	0.05	0.06	0.06	
-85	0.17	0.19	0.17	0.15	0.16	0.17	0.16	0.14	0.14	0.14	0.11	0.08	0.09	0.09	0.07	0.06	0.06	0.06	
-80	1.20	1.16	1.13	1.08	0.99	0.88	0.75	0.61	0.48	0.39	0.30	0.19	0.16	0.14	0.10	0.07	0.07	0.06	
-75	3.59	3.55	3.41	3.18	2.79	2.38	2.10	1.84	1.50	1.15	0.86	0.55	0.39	0.21	0.14	0.09	0.08	0.06	
-70	7.28	7.21	7.06	6.75	6.18	5.48	4.77	4.04	3.34	2.60	1.95	1.28	0.82	0.48	0.20	0.12	0.08	0.06	
-65	11.7	11.7	11.5	11.0	10.0	9.07	7.97	6.85	5.74	4.55	3.42	2.37	1.43	0.83	0.40	0.15	0.09	0.06	
-60	17.3	17.3	17.0	16.1	14.7	13.2	11.5	9.78	8.26	6.69	5.11	3.61	2.28	1.26	0.59	0.17	0.10	0.06	
-55	25.5	25.4	24.6	22.8	20.8	18.2	15.8	13.3	11.0	8.94	6.92	5.00	3.26	1.86	0.90	0.30	0.11	0.06	
-50	36.5	36.4	35.4	32.6	28.9	24.9	21.0	17.2	14.1	11.4	8.86	6.47	4.30	2.46	1.20	0.41	0.12	0.06	
-45	51.0	49.7	47.4	43.4	38.7	33.0	27.4	22.1	17.5	13.9	10.8	7.98	5.37	3.17	1.54	0.52	0.13	0.06	
-40	69.9	66.7	61.1	55.4	49.2	42.2	34.8	28.1	21.8	16.6	12.8	9.49	6.48	3.83	1.89	0.64	0.15	0.06	
-35	104	98.0	86.6	72.0	61.7	52.2	42.7	34.8	27.1	19.9	14.7	10.9	7.53	4.55	2.21	0.79	0.16	0.06	
-30	151	143	124	105	82.2	64.8	52.2	41.9	32.6	24.0	16.7	12.3	8.58	5.18	2.54	0.92	0.17	0.06	
-25	235	213	178	145	112	84.0	62.7	49.3	38.3	28.2	19.2	13.6	9.51	5.79	2.86	1.04	0.17	0.06	
-20	360	320	260	196	144	107	74.4	56.3	43.5	32.1	21.5	14.8	10.3	6.31	3.11	1.13	0.18	0.06	
-15	571	465	363	266	186	127	87.9	62.3	47.5	35.6	24.0	15.8	10.9	6.73	3.31	1.20	0.19	0.06	
-10	1170	744	477	336	222	148	101	67.5	50.6	37.9	25.7	16.5	11.3	7.03	3.44	1.26	0.19	0.06	
-5	2260	1237	604	386	255	166	110	70.5	52.1	39.0	26.7	16.9	11.5	7.21	3.51	1.29	0.19	0.06	
0	2811	1486	651	402	265	166	113	71.3	52.4	39.2	26.9	17.0	11.5	7.28	3.53	1.29	0.20	0.06	
5	2223	1181	591	378	248	159	108	70.6	50.9	38.0	26.1	16.7	11.3	7.18	3.51	1.27	0.20	0.06	
10	1126	713	466	328	220	145	100	67.0	48.2	35.9	24.7	16.1	11.0	6.97	3.44	1.23	0.19	0.06	
15	549	455	356	260	181	124	87.8	61.2	44.8	33.2	22.7	15.3	10.5	6.65	3.30	1.17	0.19	0.06	
20	359	318	256	195	143	105	73.7	54.7	40.3	30.2	20.4	14.2	9.83	6.21	3.11	1.09	0.19	0.06	
25	235	210	179	140	110	82.2	61.4	47.3	36.0	26.7	18.4	13.1	9.09	5.69	2.86	0.99	0.18	0.06	
30	151	138	122	101	81.0	63.8	51.4	40.6	30.8	22.8	16.2	11.9	8.30	5.10	2.54	0.88	0.17	0.06	
35	99.0	91.8	80.5	69.5	60.2	51.6	43.0	33.9	25.5	19.0	14.2	10.6	7.38	4.49	2.20	0.75	0.16	0.06	
40	65.0	62.5	58.3	53.7	48.1	41.9	34.6	27.2	20.7	15.8	12.3	9.22	6.38	3.79	1.84	0.61	0.15	0.06	
45	48.7	47.3	44.8	41.5	37.5	32.3	26.5	21.0	16.6	13.2	10.4	7.78	5.29	3.15	1.44	0.50	0.14	0.06	
50	36.1	34.7	32.8	30.4	27.5	23.7	19.8	16.4	13.4	10.8	8.45	6.28	4.23	2.48	1.09	0.40	0.13	0.06	
55	25.2	24.2	22.9	21.3	19.6	17.3	15.1	12.8	10.5	8.49	6.56	4.79	3.20	1.84	0.82	0.30	0.12	0.06	
60	16.9	16.6	16.0	15.1	14.0	12.7	11.1	9.43	7.84	6.30	4.76	3.39	2.24	1.19	0.53	0.20	0.11	0.06	
65	11.6	11.4	10.7	10.1	9.53	8.69	7.58	6.49	5.35	4.19	3.10	2.16	1.37	0.74	0.37	0.17	0.10	0.06	
70	6.76	6.68	6.41	6.05	5.64	5.07	4.40	3.62	2.97	2.27	1.72	1.17	0.73	0.40	0.21	0.14	0.09	0.06	
75	3.16	3.18	3.05	2.82	2.48	2.12	1.80	1.58	1.33	1.05	0.79	0.47	0.34	0.20	0.15	0.11	0.08	0.06	
80	0.94	0.91	0.90	0.87	0.83	0.76	0.65	0.53	0.46	0.38	0.28	0.21	0.17	0.12	0.10	0.09	0.08	0.06	
85	0.15	0.15	0.16	0.17	0.15	0.13	0.14	0.15	0.13	0.11	0.11	0.11	0.09	0.07	0.08	0.08	0.07	0.06	
90	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	

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: